

Johan Håkon Bjørngaard

Patient satisfaction with outpatient mental health services – the influence of organizational factors

Thesis for the degree of philosophiae doctor

Trondheim, Juni 2008

Norwegian University of Science and Technology

Faculty of Medicine

Department of Public Health and General Practice

Pasienttilfredshet med polikliniske tilbud i det psykiske helsevernet – betydningen av organisatoriske faktorer

Pasientenes opplevelse og tilfredshet med behandlingstilbudet har i økende grad blitt vektlagt ved evaluering av tjenester til mennesker med psykiske lidelser. Systematiske målinger av brukererfaringer i det psykiske helsevernet skal inngå som en av flere kvalitetsindikatorer for spesialisttjenesten. Dette skal blant annet gi brukerne beslutningsgrunnlag for å kunne velge hvor man ønsker å behandles, fagfolkene innspill til egen kvalitetsutvikling og staten nødvendig styringsinformasjon. Hensikten med avhandlingen var å undersøke i hvilken grad organisatoriske forhold har betydning for pasientenes tilfredshet med behandlingstilbudet. Resultatene i avhandlingen bygger på analyser av data fra flere større undersøkelser med spørreskjema til pasienter om deres erfaringer med det psykiske helsevernet.

Samlet sett viser resultatene at misnøye eller tilfredshet med tjenestetilbudet i liten grad var avhengig av hvor behandlingen fant sted. Det vil si at pasientene var fornøyd eller misfornøyd relativt uavhengig av hvor de ble behandlet. For eksempel blant pasienter i poliklinikker for voksne kunne bare om lag to prosent av variansen i tilfredshet knyttes til hvilken behandlingssenheter som sto for behandlingen. Resultatene viste også at ulike mål på den psykiske lidelsens alvorlighet var assosiert med pasienttilfredshet, noe som vil ha betydning ved sammenlikning av behandlingssenheter med til dels ulike behandlingssoppgaver.

Avhandlingen viser at aggregerte mål for pasienttilfredshet har klare begrensninger som indikator på organisatorisk kvalitet. Det er grunn til å tvile på om gjennomsnittlig tilfredshet ved for eksempel en poliklinikk er egnet som styringsinformasjon. Det synes som om metoden i liten grad er egnet til å identifisere poliklinikker med dårlig kvalitet og det er også usikkert om de poliklinikkene som metoden beskriver som dårlige, faktisk er dårlige.

Kandidat: Johan Håkon Bjørngaard, Institutt for samfunnsmedisin

Veiledere: Jon Magnussen, Torleif Ruud og Svein Friis

Finansieringskilde: Rådet for psykisk helse og Stiftelsen Helse og Rehabilitering

*Ovennevnte avhandling er funnet verdig til å forsvares offentlig
for graden PhD i samfunnsmedisin*

Disputas finner sted i Auditoriet, Medisinsk teknisk senter

Torsdag 12.06.2008, kl. 12.15

Content

ACKNOWLEDGEMENTS	5
LIST OF PAPERS	7
1. INTRODUCTION	9
2. NORWEGIAN OUTPATIENT MENTAL HEALTH SERVICES	11
2.1 ORGANIZATION OF NORWEGIAN OUTPATIENT MENTAL HEALTH SERVICES	11
2.2 ORGANIZATIONAL CONTRIBUTIONS TO THE QUALITY OF OUTPATIENT MENTAL HEALTH SERVICES.....	11
3. PATIENT SATISFACTION WITH MENTAL HEALTH SERVICES	13
3.1 THE CONCEPT OF PATIENT SATISFACTION.....	14
3.2 COMPONENTS OF SATISFACTION	16
3.3 MEASUREMENT OF PATIENT SATISFACTION.....	17
4. WHAT INFLUENCES PATIENT SATISFACTION?	19
4.1 HEALTH STATUS AND PATIENT SATISFACTION	19
4.2 SOCIO-DEMOGRAPHIC VARIABLES AND PATIENT SATISFACTION.....	19
4.3 ORGANIZATIONAL CONTRIBUTIONS TO PATIENT SATISFACTION	20
5. THIS DISSERTATION'S OBJECTIVES	23
5.1 ANALYTICAL CONSIDERATIONS	23
5.2 AIMS OF THIS DISSERTATION	26
6. MATERIALS AND METHODS	29
6.1 PROCEDURES USED IN INSTRUMENT DEVELOPMENT	29
6.2 ORGANIZATIONAL VARIABLES	31
6.3 PATIENT-LEVEL VARIABLES	32
6.4 STATISTICAL ANALYSES	33
6.4.1 <i>Assessment of organizational contributions to patient satisfaction</i>	34
7. RESULTS	35
7.1 SAMPLE PROPERTIES	35
7.2 SUMMARY OF PAPER I	36
7.3 SUMMARY OF PAPER II.....	37
7.4 SUMMARY OF PAPER III.....	38
7.5 SUMMARY OF PAPER IV	38
7.6 SUMMARY OF ORGANIZATIONAL CONTRIBUTIONS TO PATIENT SATISFACTION	39
7.7 SUMMARY OF INDIVIDUAL CHARACTERISTICS AND PATIENT SATISFACTION.....	40
8. DISCUSSION	43
8.1 DISCUSSION OF METHODOLOGY	43
8.1.1 <i>General comments</i>	43
8.1.2 <i>Reliability and validity</i>	44
8.1.3 <i>Selection bias</i>	45
8.1.4 <i>Measurement error</i>	46
8.2 DISCUSSION OF THE RESULTS	47
8.2.1 <i>Patient satisfaction as an indicator of organizational and system quality</i>	47
8.2.2 <i>The impact of health status on patient satisfaction</i>	49
8.3 FURTHER RESEARCH	51
LITERATURE	53
PAPER I	67
PAPER II	75

PAPER III	85
PAPER IV	95
APPENDIXES	105

Acknowledgements

The present study was carried out at the Department of Public Health and General Practice, Norwegian University of Science and Technology (NTNU). The work was done in cooperation with SINTEF Health Research and the Division of Psychiatry, Ullevål University Hospital. The dissertation was funded by the Norwegian Council for Mental Health and the Norwegian Foundation for Health and Rehabilitation.

I am grateful to the following people who assisted with this dissertation. Firstly, I wish to thank my dedicated supervisors, Jon Magnussen, Torleif Ruud and Svein Friis. They have made significant contributions from their various points of view. Their constructive criticism and supportive encouragement, when necessary, have provided me with a debt of gratitude I fear I will never be able to repay.

Furthermore, I wish to thank the Norwegian Knowledge Centre for the Health Services (formerly HELTEF) for their cooperation with SINTEF in the development of a patient satisfaction questionnaire, and for providing me with the data used in two of the papers contained in this dissertation. In addition, Øyvind Andresen Bjertnæs and Andrew Garratt, both from the Norwegian Knowledge Centre for the Health Services, contributed as co-authors.

I also wish to thank Ketil Hanssen-Bauer from the Centre for Child and Adolescent Mental Health, Eastern and Southern Norway, for his contributions as a co-author. I am also grateful to Helle Wessel Andersson, Rolf W Gråwe, Trond Hatling, and Solveig Osborg Ose, all from the SINTEF, for their contributions as co-authors.

I am also indebted to my colleagues at SINTEF Health Services Research. In particular, I want to thank Bård Paulsen, who always found time for theoretical discussions. Furthermore, I am grateful to Linda Midttun for comments on drafts and for methodological help, and to Vidar Halsteinli, who made several theoretical courses a pleasure.

Finally, thanks to my family. My wife Nina has always been supportive, and she has showed great patience when I have been mentally occupied with research. Thanks to my children, Hanna and Håkon, for occupying my mind with things other than research.

List of papers

Paper I:

Patients' experiences and clinicians' ratings of the quality of outpatient teams in psychiatric care units in Norway. Bjørngaard JH, Ruud T, Garratt A, & Hatling T. *Psychiatric Services*; 58: 1102-1107, 2007.

Paper II:

Patient experiences with treatment in private practice compared with public mental health services (Online ahead of print). Bjørngaard JH, Garratt A, Gråwe R, Bjertnæs ØA, & Ruud T. *Scandinavian Journal of Psychology*, 2008.

Paper III:

User satisfaction with child and adolescent mental health services – impact of the service unit level (Online ahead of print). Bjørngaard JH, Andersson HW, Ose SO, & Hanssen-Bauer K. *Social Psychiatry and Psychiatric Epidemiology*, 2008.

Paper IV:

The impact of mental illness on patient satisfaction with the therapeutic relationship. Bjørngaard JH, Ruud T, & Friis S. *Social Psychiatry and Psychiatric Epidemiology*; 42: 803-809, 2007.

1. Introduction

Over the past few decades, patients' opinions regarding the assessment of services has gained prominence (1). Also, patients' ratings of their experiences and satisfaction with mental health services has been a frequently used indicator of service quality (2). It has been suggested that patient satisfaction is associated with compliance and health outcome (3) and that its measurement may raise issues that service providers often fail to identify (4). However, there is a limited understanding of the extent to which psychiatric units contribute to patients' perceptions of quality. The aim of this dissertation is to investigate the extent to which organizational factors are reflected in user satisfaction ratings, in order to contribute significant information about the utility of satisfaction measures as an indicator of organizational and system quality. The emphasis will be on outpatient services.

There has been a growing acceptance, over the past few decades, of monitoring health care organizations in order to give feedback to providers about important aspects of their resource utilization and performance. Health care organizations' performance, however, cannot be defined without considering the explicit goals that reflect the values of various stakeholders, such as patients, professionals and regulators. However, very few performance measurement systems focus on health outcomes valued by users of the services. In response to this lack of user input, measurement of patient satisfaction has gained importance, along with an increased emphasis on patient empowerment within health services (1,2). Quantitative surveys have been viewed as potentially effective, fairly cheap and easy to conduct in order to monitor performance among health care providers.

As noted by Wykes (5), there is no consensus regarding what should be appropriate terminology for describing a person who has been in contact with mental health services. Many terms are used, such as "patient", "consumer", "client" and "user", or even "survivor" (6). Although the research is not conclusive (7), surveys have indicated that, to some extent, the people concerned prefer the label "patient" (8-10). For the most part, I have used the label "patient" in this dissertation when referring to persons receiving treatment for their mental illness. However, when referring to the parents of patients in Child and Adolescent Mental Health Services (CAMHS), I have used the label "user". Beyond that, I have not emphasized any particular terminology.

Donabedian (11,12), who has been credited with a considerable number of theoretical contributions that define the quality of health services, has suggested that patient satisfaction is a key care outcome measure. Furthermore, he called attention to the need for investigations of the causal linkages between structural attributes of the settings in which care occurs, the processes of care, and the outcomes of care (13). Moreover, he emphasized the question of whether individual or social preferences define the optimum quality of services. Furthermore, he defined the patient–practitioner interaction within the core concept of quality (11).

2. Norwegian outpatient mental health services

2.1 Organization of Norwegian outpatient mental health services

Mental health services in Norway have undergone major changes over the past few decades, with substantial growth of locally based outpatient services (14). This development is in line with changes in other European countries, going from inpatient to outpatient care as the preferred modality for most patients (15).

In 1998, a national programme for improvement in services for the mentally ill was initiated. As a part of this comprehensive program for the development and enhancement of Norwegian mental health services, a major increase in the capacity of outpatient clinics and other community mental health services was proposed.

In Norway, the state is responsible for specialized health services, which are delivered through four regional health authorities. Within each regional health authority, mental health services, such as community mental health centres and hospital-based services, are provided by health trusts. Outpatient clinics with various teams are part of these community mental health centres. The outpatient clinics provide psychiatric services for a given population, and their teams can be defined as the lowest administrative organizational level of care. In addition to the main provision of outpatient public mental health care services, there is a substantial supply of outpatient treatment given by psychiatrists and clinical psychologists in private practice.

2.2 Organizational contributions to the quality of outpatient mental health services

Research has indicated that treatment outcome is closely related to relational factors between the patient and the practitioner (16-19). Within Norwegian mental health outpatient clinics, most patients have contact with only one therapist. The patients have little contact with other patients seen by the same clinic. Nevertheless, from a quality improvement perspective, it is also important to investigate the extent to which the clinical work of therapists is influenced by the context within which they work. If there are large quality differences between care units, this may indicate a potential for improvement.

Administrative units, such as clinics, are suggested as important units for the measurement of the quality of mental health services, from both national government

and regional health authority points of view. This is reflected in the national guidelines for the management of Norwegian outpatient clinics (20), as well as in political signals to increase productivity and reduce waiting times (21). Furthermore, national performance indicators are currently presented to support the government's goal of facilitating patients' rights to choose where they receive treatment (22).

Modern multidisciplinary community mental health care is supposed to reflect the idea that the care of people with a mental illness cannot be met by one person or discipline alone. Following Burns (23), community mental health treatment requires doctors, psychologists, nurses and social workers who work closely together to organize care outside of the hospitals. Patients attending treatment at a clinic are supposed to take advantage of the competence provided by the clinic as a whole, not just from the therapist who is responsible for their treatment. Other clinicians may be involved in specific assessments or additional treatments, or the treatment provided by the therapist may be influenced by supervisors or team discussions. This implies considerable interdisciplinary cooperation when treating a particular patient.

The outpatient clinic, as an organizational unit, is responsible for the education and supervision of health professionals, as well as collaboration with other specialized health services. Admission procedures and managerial decisions will determine when and how treatment is started. Furthermore, structural service characteristics, such as waiting times, professional background of staff, productivity, stability, learning environment and leadership, are factors that may influence the work of professionals. However, the extent to which outpatient clinics actually are an important contextual factor affecting patients' treatment outcomes has been scarcely investigated (24).

In the case of outpatient treatment, it is not unequivocal whether organizational factors play a substantial role in determining the outcomes from mental health services. The question is whether the quality of care is just a matter of the personal relationship between provider and patient, independent of structural and cultural aspects of the organizational environment. Health service organizations may be interpreted as what Mintzberg (25) defined as professional bureaucracies. The various tasks in such organizations are taken care of by highly specialized and autonomous professionals who are given legitimacy to carry out actions based on their affiliation to a profession (26). An extreme variant would be clinicians who share premises but who do not interact with one another.

3. Patient satisfaction with mental health services

A vast literature has included some type of patient satisfaction measurement. A search in Medline on January 10, 2008 using the subject “consumer satisfaction (exp)” returned a total of 48,045 entries. Most of the literature is thematically related to health areas other than mental health. A combined search with “consumer satisfaction (exp)” and “mental disorders (exp)” provided a total of 3170 entries. In the past decade, the literature on patient satisfaction has proliferated, with a higher rate of growth for papers being concerned with topics related to mental disorders (see Figure 3.1).

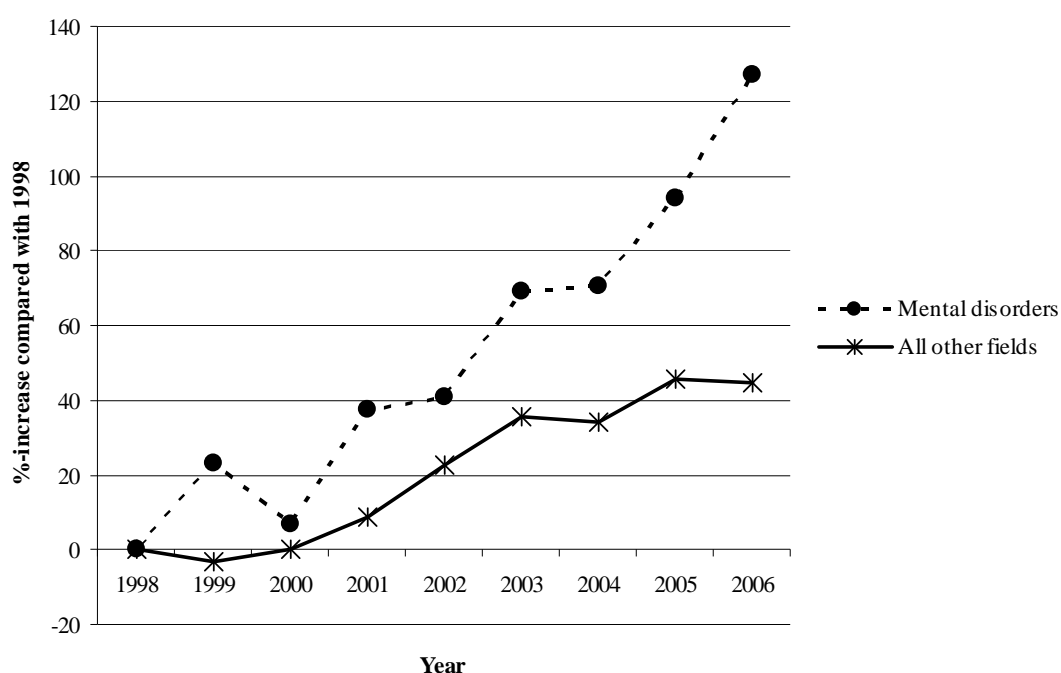


Figure 3.1 – Number of entries in the Medline database for the subject “consumer satisfaction (exp)” from 1999 to 2006 as a percentage of the number obtained for 1998.

Despite a large literature on patient satisfaction with health services in general, and mental health services specifically, there remains uncertainty about the usefulness of patient satisfaction measurement (27). A US survey of mental health care providers, however, showed a positive attitude towards patient satisfaction as an indicator of the quality of health services (28).

3.1 The concept of patient satisfaction

Compared with other outcome measures, patient-defined outcomes emphasize the importance and uniqueness of the individual experience (29). Hence, the credibility of patient evaluations does not necessarily rely on any agreement about professionally defined outcome measures. For instance, it is not clear how satisfaction is related to technical quality, which is defined by Donabedian (12) as the extent to which health care services meet predefined standards of acceptable or adequate care. Different studies have reported moderate to no association between patient satisfaction and technical quality of care (30,31). Other studies have maintained that providers and patients view quality differently (32), and that both views must be considered in quality assessment.

Patient satisfaction is a subjective measure with no definite relationship to external realities. Two persons given exactly the same treatment and stimuli will not perceive these services as being exactly similar. Several researchers have called attention to the lack of conceptual agreement in the field of patient satisfaction research (33,34).

As pointed out by Thompson and Sunol (33), patients' expectations prior to care delivery appear to be taken for granted as an important factor in most studies of patient satisfaction. Researchers have viewed satisfaction as the degree of discrepancy between expectations and experience. Satisfaction has been proposed to occur when experiences are equal to, or better than, expectations. Parasuraman *et al.* (35) suggested a comprehensive model of service quality derived from the size and directions of five possible gaps between expectations and experiences, as well as empirical solutions to operationalize these gaps. On the other hand, others have criticized the nature of gap theories as static, simplistic and mechanistic (36). It is also questionable whether the concept of satisfaction is clarified by introducing expectations as a key element of patients' evaluations of their services. One could argue that the nature and concept of people's expectations are no clearer than the concept of satisfaction. For instance, the extent to which patients have realistic expectations is likely to be uncertain if they have no, or limited, knowledge about health services (37). Furthermore, expectations are difficult to separate from experience, because it is likely that experiences influence expectations and vice versa.

Another approach to conceptualizing patient satisfaction has been empirical rather than theoretical. By emphasizing patients' evaluations and views of health service

attributes, lists of critical health care features from a patient's point of view have been established. For instance, in Ware *et al.* (38), satisfaction ratings were considered to be subjective evaluations of care that could not become known from observing the care directly, as opposed to reports reflecting more objective and factual accounts of care, such as waiting time. According to Ware *et al.*, satisfaction rating is a measure of characteristics of both the care provided and the patient.

When appraising satisfaction, it is not unequivocally clear what aspects of care are being considered. Furthermore, the patients' preferences, expectations, values and desires will play a role irrespective of whatever care is provided. In addition, the use of ordinal scales, by which each patient rates his or her level of satisfaction, is an abstraction that cannot be claimed to be the same for all respondents. Hence, patients will have different response styles when appraising their satisfaction with health services. It is difficult to reveal the extent to which satisfaction results are due to subjective psychological factors that are not amenable to change by health services. That is, what is characterized as satisfactory may vary considerably among people. Patient satisfaction measurement is susceptible to the effects of cognitive biases. Patients are surrounded by a multitude of information and stimuli, which may influence their perceptions of services (39). In addition, fluctuations in mood have been suggested as influencing evaluations of different aspects of individuals' lives (40). Although there seems to be agreement in the literature that satisfaction results do reflect care characteristics, they also reflect patient characteristics that are beyond the control of health service providers. The magnitudes of these different aspects of satisfaction remain unknown.

While subjective and psychological factors are likely to be important mechanisms operating at the individual level, the reliability of patient-rated outcomes has been shown to improve when mean scores that have been aggregated over wards, for instance, have been used (41,42). If a group of patients share an environment, such as treatment within a care unit, all other variables being equal, the concurrence in satisfaction ratings between patients sharing this environment can be understood as a consensual evaluation of that environment. That is, differences between care units may be less affected by the various psychological factors that influence patients' evaluations. However, there may well be some specific satisfied or dissatisfied patient groups allocated to different care units. For instance, different units may have

responsibility for the treatment of specific patient groups who may perceive services differently. Furthermore, aggregated means are not necessarily representative of all patients. There may be subgroups of patients who have different needs and receive different types of treatment.

3.2 Components of satisfaction

Given the number of experiences that patients will perceive during mental health treatment, single global scores may disguise divergent judgements on different aspects of care (43). The selection of items to capture the nature and number of important dimensions of care is thus of crucial importance when assessing patients' perception of health services. There is evidence that more detailed and specific questions reveal greater levels of dissatisfaction than more general questions (1). Hence, there seems to be a growing understanding that dissatisfaction with specific aspects of care may be concealed by general ratings of overall satisfaction. Different classifications of the essential dimensions of patient satisfaction have been proposed. Others have called attention to a need for user involvement in instrument design and research (27,44,45). Satisfaction instruments are often designed on the basis of what is assumed to be important from a provider's point of view, and important patient views may be overlooked. Hence, it has been proposed that information from qualitative in-depth interviews with patients provides vital information about what is important from a patient's point of view.

In qualitative interviews, patients have emphasized that the interpersonal relationship between patients and staff is a key factor, in addition to effective responses to frequent long-standing problems (46,47). Furthermore, the patients' perception of being understood, trust and a good personal relationship with clinicians have been proposed as key elements from a patient's point of view (48-50).

It follows that those aspects of satisfaction that are valued by patients are associated with the core of the therapeutic process, such as the therapeutic alliance and obtaining help for their problems. This also concurs with the conclusions of Wampold (16), who suggested that factors common to different psychotherapies, such as a positive working alliance between the therapist and the patient, account for a substantial part of the variability in outcomes.

Nevertheless, it is important to take into account the possible multidimensional nature of the concept of satisfaction (51). Hence, several items may be necessary to cover critical aspects of satisfaction with health care. Using factor analysis (52), items are combined to measure important dimensions that provide a smaller number of measures that are both detailed enough to capture satisfaction and manageable from an analytical point of view.

3.3 Measurement of patient satisfaction

Sitzia (53) analysed the validities and reliabilities of different instruments used to assess satisfaction in 195 published papers. His review revealed that most studies did not demonstrate much evidence of reliability and validity. He suggested that further research should be based on instruments with established reliability and validity as indicated by previous studies.

However, there is no common agreement about what instrument to use for measuring patient satisfaction with mental health services. Different instruments have been developed for users of mental health services. In Europe, the Verona Satisfaction Scale (54,55), and a Swedish questionnaire from the University of Lund/SPRI have had some dissemination (56). However, many instruments are based on prior instruments that have been adjusted to local needs (57-59). One reason for this may be that many aspects of patient satisfaction cannot be measured or interpreted without considering the specific context in which the services have been received.

Patient satisfaction surveys have been criticized for underestimating dissatisfaction and hiding poor experiences, due to a desire on the part of patients not to appear ungrateful, as well as their acceptance of the limitations of health care delivery (27,60). An alternative approach involves asking patients to rate their experiences of those aspects of health care that assess more concrete experiences with care, including whether important events have taken place (51). This form of measurement involves the collection of more objective information relating to whether specific health care events have occurred. There is an implicit assumption that the various aspects of experience covered by such instruments are related to patient satisfaction. This approach rests heavily on the selection of experiences that are to be rated. Therefore, it is important to select items of high relevance for the patients. Following the

discussion in chapter 3.2, such items can be combined in scales that capture the underlying dimensions of patient experiences.

4. What influences patient satisfaction?

In a comprehensive review of the patient satisfaction literature, Crow *et al.* (51) distinguished between determinants of satisfaction related to patient characteristics and to health services. They identified three main types of individual factors, namely expectations, health status, and the socio-economic and demographic characteristics of the respondents. Furthermore, they concluded that the research on expectations as determinants of satisfaction was important but problematic. They highlighted a lack of definition of expectations, a problem also mentioned in chapter 3.1.

4.1 Health status and patient satisfaction

There is evidence that poorer health status is associated with lower levels of reported satisfaction (51). Studies have consistently found a clear correlation between self-perceived health status and patient satisfaction (61,62). However, when patients themselves respond to questions about their health status and satisfaction in the same questionnaire, the results may be influenced by a generalized response bias (63). Nevertheless, studies have found lower satisfaction ratings among patients with clinician-rated poor health (39). It is, however, difficult to discriminate between the effects of the mental illness and lack of improvement on patient satisfaction.

Studies have found a relationship between symptom relief and satisfaction (64). One could speculate on the extent to which satisfaction levels are due to symptom improvement following care, or whether satisfaction levels follow mood fluctuations independent of care delivery. A longitudinal study in the US (65) assessed parental satisfaction with the same inpatient stay at 3, 6, and 12 months after discharge. This study found a statistically significant decline in satisfaction from discharge to follow-up, especially for those reporting more behavioural problems. This finding suggests that users' perceptions of a care episode are subject to change.

4.2 Socio-demographic variables and patient satisfaction

In general, the findings from the literature on the impact of socio-economic status on satisfaction have been inconclusive (51). The impact of such variables may be influenced to some extent by the health care system, for instance, if health care services are provided by governmental funding, insurance or out-of-pocket payment.

There are no consistent findings about the relationships between satisfaction and the patient's sex (66,67). The small differences between men and women may reflect different patterns of service utilization, differences in experiences, as well as differing needs and expectations (68).

There is a consistent finding in the literature that older adult patients are more satisfied than younger patients (51,69), although the absence of such differences has also been reported (39). Crow *et al.* (51) suggested various explanations for why older people generally report higher satisfaction. For instance, it may reflect that older patients may be more accepting than younger patients. Moreover, older patients may also have lower expectations based on previous experiences when the standards were lower. Alternatively, old age may engender more care and respect from the providers.

There is some evidence that ethnicity is weakly associated with satisfaction, but the results are not conclusive (51). Studies of patients receiving mental health services in the UK found either small differences between different ethnic groups (62) or no differences at all (70).

There are no consistent findings regarding the effects of level of education and income on patient satisfaction (51).

4.3 Organizational contributions to patient satisfaction

There is an inbuilt assumption that expressed dissatisfaction reflects not only individual patient characteristics but also deficiencies within the services. For instance, if patients are dissatisfied with the provided information, health service organizations should try to improve their information procedures. However, this assumption has been hardly investigated. While it has been almost taken for granted that patient satisfaction is related to the quality of services at different organizational levels, few studies have analysed the extent to which satisfaction ratings depend on the organizational environment of which the patients are a part.

Furthermore, patients may be influenced by different environmental factors when receiving treatment. Such contexts can be observed as different hierarchical levels. For instance, in Norway, health services are provided at large health trusts. Each health trust consists of a number of clinics, each of which consists of teams and

patients within each team. Explanatory variables may be defined at each of these hierarchical levels.

Multilevel analysis is an analytical approach that has been used increasingly to investigate the relative effects of different organizational levels (71). Studies of inpatient somatic treatment have found only marginal organizational contributions to patient satisfaction variance at the levels of wards and hospitals (72-74). Studies of patient satisfaction with general practitioners have reported a 2–10% practice/practitioner level contribution to satisfaction variance (75-77).

Within mental health services, one US study found a 10–25% contribution to the variance in adult patient satisfaction from psychosocial rehabilitation teams (78). However, psychosocial rehabilitation teams have a particular cooperative work method. The extent to which user satisfaction ratings are reflected by organizational factors in other health areas of mental health services has not been resolved.

Administrative/structural measures have been associated with patient satisfaction. For instance, some studies have found hospital size to be negatively correlated with aggregated levels of satisfaction with somatic care (74,79), while others have not found such an association (73).

Characteristics of the clinical work environment may influence patient satisfaction (73,80). A study by Friis (42) indicated that case mix may influence the treatment environment in such a way that a negative ward atmosphere was associated with a higher percentage of psychotic patients on the ward.

Freidson (81) suggested that patients are more likely to be satisfied in private solo practices than in public practices where the clinicians also have obligations to a work organization. When alternative ways of financing care and the implications for patient satisfaction were assessed as part of a systematic review, there was evidence that patient satisfaction varied according to the way in which health care was financed (51). In Norway, outpatient mental health treatment is provided by public outpatient clinics, as well as by private specialists in psychiatry and clinical psychology who have contracts with the health authorities. However, the difference in satisfaction between patients of private practitioners versus public outpatients is not well understood.

5. This dissertation's objectives

5.1 Analytical considerations

The main aim of this dissertation was to investigate the extent to which organizational factors are reflected in patient satisfaction ratings. Organizational contributions to the perceived quality of mental health services were measured as differences in patient satisfaction between the various organizational levels of care, such as between health trusts, between outpatient clinics and/or between teams. Furthermore, patient satisfaction with outpatient treatment was investigated by comparing their experiences with those of patients who were treated in private practice, as inpatients or in day-patient care.

Although the analyses are concentrated mainly on services for adults, child and adolescent services are addressed in one of the four papers. Thematically, patients' experiences and satisfaction will be defined by their experiences with the therapeutic relationship, information and treatment outcomes.

Following the causal diagram in Figure 5.1, organizational factors (O) are hypothesized to influence patient satisfaction (PS) by means of either a direct effect (a) or an indirect effect through the clinical work of therapists (T). The following causal diagrams are used to identify sources of possible bias in the analyses. The arrows in the causal paths link descendant effects to their ancestor causes. It is thus an assumption that an effect follows its cause in time.

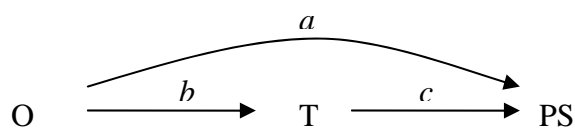


Figure 5.1

Assuming no random error and randomly distributed patients to different organizations, differences between organizations could be interpreted as organizational contributions to patient satisfaction. That is, we can investigate the crude effect of organizational influence, without information being available about each of the causal paths (a , b , c).

However, patients are not randomly distributed to different organizations. It is thus possible that organizational contributions to patient satisfaction may be influenced by confounding factors. Following Figure 5.2, there is confounding if there is an unobserved common cause (C) between the effects of organizational factors (O) and patient satisfaction (PS). If both causal paths, e and d , are different from zero, the associations between a , b and c would be influenced by confounding factors. In care units, the most obvious confounding factor would be the patient's health status. Outpatient clinics provide psychiatric services for a given population and thus will have similar treatment responsibilities. Nevertheless, it is likely that there are differences between the clinics in their mental health case mix. Furthermore, teams within clinics are organized to care for patients with specific conditions and problems. Hence, confounding may be a larger problem when comparing teams than when comparing clinics. Other variables causing patient satisfaction do not introduce any bias in the organizational effect as long as they do not also have a causal link with O.

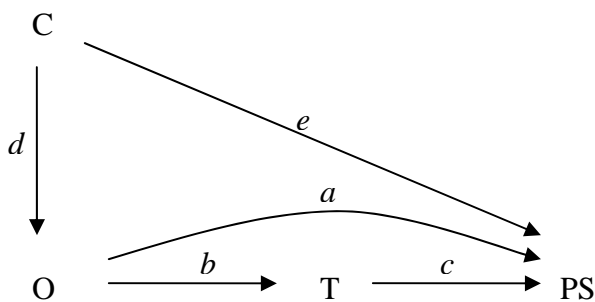


Figure 5.2

The causal diagram in Figure 5.2 does not take into account the possibility that individual characteristics may interact with organizational effects. For instance, it is possible that some organizational contexts are better for some patients than others. Hence, there is a possibility of conditional organizational effects that depend on certain patient characteristics.

This dissertation is based on the results from questionnaires completed by patients. Response rates in surveys of patient satisfaction with psychiatric services are usually low (3). If there is a different association between the organizational level effects and patient satisfaction among those responding to a study compared with those who did not respond, the results would be affected by selection bias. Referring to the causal

diagram in Figure 5.3, the results would be biased if satisfaction influenced response probability (R), that is, if satisfied patients had a different response probability than dissatisfied patients and there was an unmeasured common causal link between the response probability (R) and the organizational effect (O).

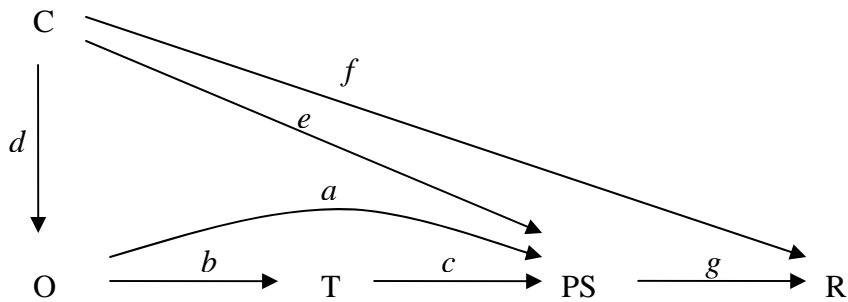


Figure 5.3

Finally, the results depend on the instruments used for patient satisfaction measurement. It is assumed that there is a close relationship between each patient's satisfaction and his or her response to a question in a questionnaire. Following Figure 5.4, patient satisfaction measurement (PS_m) should be caused by the patient's "true" satisfaction and not by some type of measurement error. Hence, a weak association between **PS** and PS_m might reduce the effect of the other variables in the causal diagram.

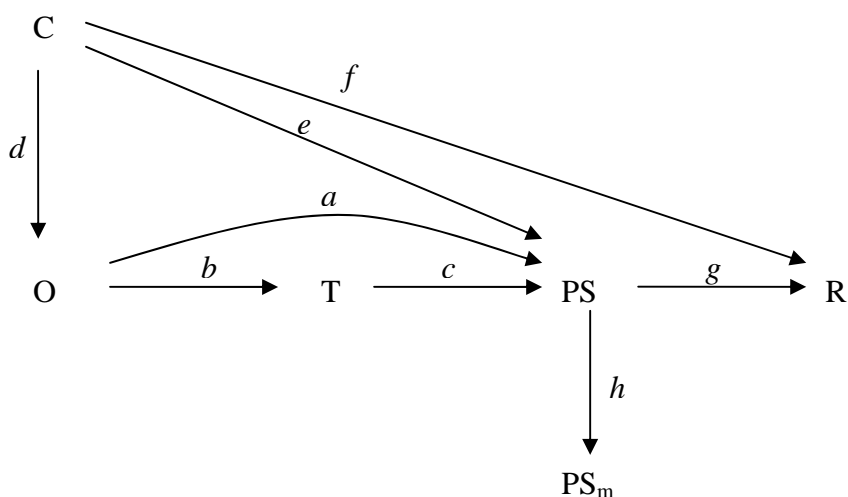


Figure 5.4

5.2 Aims of this dissertation

The dissertation comprises four empirical papers that investigate different aspects of organizational contributions to patient satisfaction. Following the preceding discussion, four major sources of possible analytical problems can be derived:

1. possible confounding factors;
2. possible interactions between individual characteristics and organizational factors;
3. possible selection effects; and
4. possible measurement error.

The patients' health status was analysed as a possibly important confounding factor. Depending on available indicators of health status contained in the materials used in these different papers, both self-perceived and clinician-rated health status was operationalized. In addition, adjustments were made for variables such as age, sex and use of services. In two of the papers, the possible interaction effects between organizational effects and patient characteristics were investigated. A thorough investigation of possible selection effects was performed in paper IV. To reduce the effect of possible measurement error, the papers were based on several different materials, instruments and items. In addition, in paper III we used parents, rather than patients, as informants. In paper I, the results were compared with clinicians' perceptions of quality.

The study described in paper I assessed patient satisfaction variance attributable to outpatient teams, clinics and health trusts, as well as the extent to which clinician evaluations of quality were related to patients' satisfaction. In other words, what is the organizational contribution to variance in patient satisfaction obtained from different hierarchical organizational levels, and what is the association between the clinicians' perceptions of quality and the patients' experiences? Patient-level variables such as age and sex, self-reported mental and physical health, duration of treatment, former inpatient history, number of visits in the past three months and perceived waiting time, were included to control for differences in patient characteristics across the various care settings.

Paper II investigated satisfaction among patients of private practitioners in Norway, when compared with the satisfaction of patients who attended public outpatient

clinics. Patient-level variables such as age and sex, self-reported mental health, duration of treatment and number of visits in the past three months were included to control for differences in patient characteristics between the two care settings. Furthermore, each of the independent variables was tested for possible different effects on the dependent variable among the private patients compared with the public patients (interaction effects).

In paper III, parent satisfaction with outpatient Child and Adolescent Mental Health Service units (CAMHS) was investigated. The purpose of this study was to examine the amount of satisfaction variance attributable to the organizational level of the CAMHS unit. Patient-level variables such as age and sex, episode length, referral status, and waiting time were included to control for differences in patient characteristics across the care settings.

Paper IV reported a study that investigated the relationship between psychopathology and its effect on patient satisfaction with the therapeutic relationship. The study investigated the extent to which psychopathology, as a characteristic of both the individual patient and of teams, influences satisfaction with the therapeutic relationship. Furthermore, an investigation of possible interaction effects between psychopathology at the individual level and the organizational variables was performed. Also, an analysis was made of the differences between responders and non-responders.

6. Materials and methods

The empirical material in this dissertation comprises data from different studies in the various papers. Satisfaction and experiences data from four different measurement materials were used.

Paper I used data from a postal questionnaire sent to all patients aged 18 years or older who received services from mental health outpatient clinics in Norway in September 2004. The survey was carried out by the Norwegian Knowledge Centre for the Health Services (82).

Data for paper II arose from two Norwegian studies that collected information on the experiences of adult patients aged 18 years and over. The first study was a survey of patients receiving treatment by private practitioners in central Norway during a two-week period in September 2004. The second data set arose from the same study as was described in paper I. The survey of patients receiving treatment by private practitioners was part of an investigation of the treatment provided by private practitioners in central Norway (83).

Paper III used data obtained from a study undertaken during 19 days in May 2004 in 49 of 72 Norwegian outpatient CAMHS units. Parents whose children had received at least one previous consultation at the service were asked to fill in a questionnaire when they arrived for an appointment. The survey was part of a large-scale investigation of patients in Norwegian CAMHS units (84).

Data for paper IV were collected from eight community mental health centres, representing a cross-section of urban and rural settings, over a four-week census period in February–March 2005. The sample comprised patients in outpatient, inpatient, and day-patient treatment. Data were collected as part of a large-scale study designed to examine the impact of the development of community mental health centres on various mental health outcomes (85,86).

6.1 Procedures used in instrument development

The instruments used in this dissertation were developed to capture concrete experiences with various aspects of health care. As discussed in chapter 3.3, there is an inbuilt assumption that aspects of experience are related to patient satisfaction.

The development of the patient experiences questionnaire, the POPEQ used in paper I, was based on collaboration between the Norwegian Knowledge Centre for the Health Services and SINTEF Health Research (87). Instrument development followed a rigorous procedure. Item generation was based on a literature review, qualitative interviews with patients, pilot testing and discussions within a network comprising clinical staff, researchers and a user organization. From this questionnaire, 11 items, selected with broad applicability to respondents, covered the quality of interaction with the clinician, outcomes and the quality of information provision. Factor analysis and tests of item discriminant validity provided empirical support for an index of overall experiences, as well as three subscales that also have a theoretical basis. The outcome scale comprised three items: “outcome from conversations with the professional”, “overall treatment outcome” and “change in psychological problems”. The interaction with clinician scale comprised six items: “enough time for contact/dialogue”, “understanding”, “therapy/treatment suitability”, “follow-up actions carried out”, “communication” and “say in treatment package”. The information scale comprised two items: information about “treatment options” and “psychological problems”.

In paper II, data were obtained from patients in private practice and in public outpatient clinics. Data from outpatient clinics were the same as in paper I. The survey of patients’ receiving treatment from private practitioners included six questions relating to patient experiences. These questions were derived from the longer questionnaire used in paper I: “overall treatment outcome”, “enough time for contact/dialogue”, “understanding”, “therapy/treatment suitability”, “follow-up actions carried out”, and “say in treatment package”. The six items was combined in a summated scale.

The instrument used in paper III was designed to provide information on parents’ experiences and satisfaction with child and adolescent mental health services. A pool of potential questions covering important areas was derived from existing satisfaction questionnaires reported in the literature and from available satisfaction questionnaires used locally at some of the outpatient services. An expert group of clinicians and researchers selected the final items using criteria of clarity and utility. Based on the results from a factor analysis and internal consistency reliability estimates, two summary scales were constructed. The outcome scale comprised four items measuring

“reduced problems”, “treatment helps the child”, “treatment helps the family” and “treatment help parent”. The clinician interaction/information scale comprised six items: “clinician shows care and understanding”, “trust in clinician”, “clinician has good knowledge”, “good information about clinical examination”, “good information about child’s problem” and “good information about treatment”.

Paper IV used data collected from eight community mental health centres. The questionnaire was designed to provide information on several aspects of care in collaboration with the user organization, Mental Health Norway. The instrument was tested in an earlier study at the same centres (85). Six items representing different aspects of the therapeutic relationship were selected for further analyses: “sufficient time for contact/dialogue”, “clinicians’ ability to listen and understand”, “follow-up of planned interventions”, “respect for patient’s views/opinions”, “cooperation among clinicians”, and “influence on treatment”.

6.2 Organizational variables

Paper I reported an investigation of the amount of variance in patient experiences that could be explained by outpatient teams, clinics and health trusts. We also used survey data from a study assessing clinicians’ views about various aspects of care in all Norwegian mental health outpatient clinics at the beginning of September 2004 (88). Four scales were used, the mean team-level clinician scores on the four scales being linked to the patient experience data.

In paper II, patient experiences with psychiatric treatment provided by private practitioners and public outpatient clinics were analysed. In paper III, differences in parent satisfaction between the various outpatient CAMHS were analysed.

In paper IV, we analysed the amount of satisfaction variance that could be explained by teams. Team function was categorized into outpatient, day-patient and inpatient treatment teams. The teams’ mean scores on the summated Health of the Nation Outcome Scales (HoNOS) (89) and the Global Assessment of Functioning (GAF) (90) scale for patients treated by the team were used as measures of mental illness severity within each team.

6.3 Patient-level variables

In paper I, independent variables at the patient level included age and sex, self-reported mental and physical health, duration of treatment episode, former inpatient history, number of visits in the past three months and perceived waiting time. The independent patient-level variables in paper II comprised age and sex, self-reported mental health, duration of treatment episode, and number of visits in the past three months.

In paper III, independent variables included patients' age and sex, episode length, main reason for referral, and waiting time. The main reason for referral was categorized in terms of externalizing symptoms (hyperkinetic symptoms, conduct symptoms, antisocial behaviour/crime and drug use), internalizing symptoms (anxiety, suicidal symptoms, phobias, avoidant symptoms, compulsory features and depressive symptoms), or other symptoms (psychosis, autistic symptoms, school refusal, learning difficulties, eating disorder symptoms and other symptoms).

In paper IV, psychiatric disorders were recoded into two main categories: schizophrenia spectrum disorders (F2, ICD-10) and other disorders, based on the International Statistical Classification of Diseases and Related Health Problems, 10th revision (ICD-10) (91). Problems with substance abuse were assessed with combined information from the ICD-10, and two scales that assessed the use of alcohol and drugs (92). Patients receiving diagnoses of mental and behavioural disorders due to psychoactive substance use (F10–19, ICD-10) and/or having a score of 3 or more on the two scales (abuse/addiction/institutionalized) were rated as abusing.

Symptom severity, level of functioning and treatment outcome were assessed by the clinician treating the patient. The HoNOS (89) and the GAF scale scores (split symptom and function scores from 1 to 100, where 1 is the most severe problem level) (90) were based on an evaluation of the most severe conditions observed during the previous week. The two GAF scales were combined to produce an average score. The HoNOS comprises 12 different scales: “aggression”, “self-harm”, “drug/alcohol problems”, “cognitive impairment”, “physical problems”, “hallucinations and/or delusions”, “depression”, “other psychological problems”, “social relationships”, “activities of daily living”, “accommodation problems”, and “employment/leisure problems”. The sum of the scores on scales 1 to 7 and 9 to 10 was used as an index of the severity of the patient's problems. In data collected earlier, clinicians' ratings of

case vignettes had shown satisfactory reliability on all HoNOS scales, with the exception of scale 8 (85). Scales 11 and 12 were excluded because they do not measure aspects of the patients' condition. The HoNOS score was rated from 0 (no problems) to 4 (severe problems). The sum score was transferred to a 0–100 score, where 100 was the most severe problem level.

The clinicians rated seven items that involved changes in clinical state since the start of the treatment, each being scored on a seven-point ordinal scale where 1 equals “much poorer” and 7 equals “considerable improvement”. A rating of 3 indicated “no change”. The seven items were “psychiatric symptoms”, “psychological problems”, “close relations”, “social functioning”, “practical functioning”, “work ability” and “behavioural problems”. The summed score was used as a measure of treatment outcome and was transformed to a 0–100 value, where 100 represented the best possible treatment outcome. In addition, length of treatment episode, and patients' age and sex were included as control variables.

6.4 Statistical analyses

Several different statistical techniques were used for data analyses, including factor analysis, multivariate regression analysis and descriptive statistics.

In all four papers, factor analysis (52) was used for the construction of dependent variables. To establish subscales, we carried out a factor analysis with varimax rotation (52). A summated scale score was made for items with loadings greater than 0.50, the difference between the loading on the corresponding factor and the highest loading on a non-corresponding factor was > 0.1 , and Chronbach's alpha exceeded 0.7. The internal consistency of the resulting scales was assessed using a corrected item–total score correlation and Cronbach's alpha. The former measures the strength of association between an item and other items in the same scale. The latter assesses the overall correlation between items within a scale and produces a reliability estimate for that scale.

In paper I, factor analysis and tests of item-discriminant validity provided empirical support for a scale of overall experiences, as well as for three subscales, which also have a theoretical basis. In paper II and IV, factor analysis and internal consistency reliability estimates supported the construction of one summated scale in each of the

papers. In paper III, factor analysis and internal consistency reliability estimates provided empirical support for the construction of two summated scales.

6.4.1 Assessment of organizational contributions to patient satisfaction

Multilevel regression analysis, computed using the MLwiN software, was used to partition the variance attributed to organizational factors and patient factors (93). In multilevel regression analysis, the residuals can be partitioned between the various hierarchical levels of interest. For instance, in a two-level model with patients within clinics, the residuals are partitioned as u_j (clinic-level variance) and e_{ij} (patient-level variance), which form the random part of the model. The proportion of clinic-level variance is estimated by dividing the service-level variance (u_j) by the total variance ($u_j + e_{ij}$), which is defined as the intraclass correlation coefficient (ICC). When the ICC is multiplied by 100, it can be interpreted as the percentage of variance attributed to service level.

$$Y_{ij} = \beta_0 + \beta x_{ij} + \beta z_i + u_j + e_{ij} \quad [1]$$

In the multilevel multivariate regression model, explanatory variables may be defined at both the patient level and the hierarchical level of interest. For instance, equation [1] shows an example of a two-level model with a vector of individual patient level characteristics (x) and organizational characteristics (z).

The significance level of the predictor variables was achieved by dividing the estimated coefficients by their standard errors that resulted in estimated t -values. The significance level of the variance estimates was achieved with a one-sided t -test since the variance can not be less than zero, with the estimate divided by the standard error. However, MLwiN variance estimates and their standard errors are not very accurate (71). Hence, as a test of robustness, a 95% confidence interval of the variance estimates was achieved with a MCMC estimation procedure (94). The results of this robustness analyses did not deviate substantially from those reported in the papers.

In paper II, it was not possible to link patients to the private practitioners, given the anonymity of the data. Therefore, ordinary regression analysis was performed.

7. Results

7.1 Sample properties

In the survey used in paper I, all 15,422 persons aged 18 years or older who received services from mental health outpatient clinics in Norway in September 2004 were mailed a questionnaire within the following month. When patients receiving outpatient treatment within an inpatient setting were excluded from the analyses, respondents for this study consisted of 6570 (43% response rate) patients from 222 outpatient teams across 89 outpatient clinics from 33 health trusts.

Table 7.1 Response rates

Respondents	Paper	Response rate	Administration procedure	Return method
Patients in outpatient clinics	I and II	43%	Postal	Postal
Patients in private practice	II	56%	Handed out at clinic	Postal
Parents in outpatient CAMHS	III	87%	Handed out at clinic	At clinic
Patients in Community Mental Health Centres	IV	39%	Handed out at clinic	Postal/at clinic

In the survey of private practice patients used in paper II, 642 respondents returned questionnaires, giving a 56% response rate. In the survey used in paper III, a total of 2588 parents were invited to participate in the study, of whom 2253 (87%) filled in the questionnaire. We were able to match questionnaire information to service information for a total of 2164 parents. The 49 (70%) CAMHS in the sample treated 68% of the total number of outpatients in 2003.

In the survey used in paper IV, 1194 (39%) of the 3040 patients returned the questionnaire. We were able to link 969 of these 1194 respondents to clinical data provided by the responsible clinician, as some patients had not given consent for such linkage.

The dependent variables used in the four papers are presented in Table 7.2.

Cronbach's alpha values in a range from 0.75 to 0.91 met the criterion, suggested in the literature, of a minimum value of 0.7 being required for assessing differences between individual patients (95,96). Test-retest reliability, which was only assessed for the scales used in paper I, ranged from 0.8 to 0.9 (97).

All scale scores were transformed to a 0–100 score, where 100 is the best possible score. All mean scale scores were skewed towards positive experiences, a result that is consistent with those that are widely documented in the literature (2,3,51).

Table 7.2 Dependent variables

Scales	Paper	Number of items	Respondents	Cronbach's alpha	Mean (SD)
POPEQ Total	I	11	Outpatients	0.91	68.7 (18.3)
POPEQ Outcome	I	3	Outpatients	0.83	70.2 (20.8)
POPEQ Clinician interaction	I	6	Outpatients	0.89	69.9 (18.6)
POPEQ Information	I	2	Outpatients	0.75	62.3 (27.4)
Sum of patient experiences scale	II	6	Outpatients/private practice patients	0.88	68.9 (19.2)
Clinician interaction/information scale	III	6	Parents in CAMHS	0.85	78.3 (17.4)
Experience of outcome scale	III	4	Parents in CAMHS	0.86	65.6 (21.3)
Therapeutic relationship scale	IV	6	Inpatients, day-patients and outpatients	0.85	75.1 (18.0)

7.2 Summary of paper I

Patients' experiences and clinicians' ratings of the quality of outpatient teams in psychiatric care units in Norway. Bjørngaard JH, Ruud T, Garratt A, & Hatling T. *Psychiatric Services*; 58:1102–1107, 2007.

Objective: Patients' experiences and satisfaction ratings are increasingly used to evaluate quality of care. This study assessed the extent to which outpatient teams, clinics, and health trusts contributed to patients' experiences, and to what extent clinicians' evaluations of quality were related to patients' experiences. *Methods:* A questionnaire was mailed to 15,422 outpatients who attended Norwegian clinics in September 2004; 43% responded. Patients' experiences were measured on an 11-item index and three subscales: outcomes, interaction with clinicians, and information. Aggregated responses from clinicians were linked to the data on patients' experiences. Multilevel analyses were used to divide the variance between the different organizational levels and to assess the relationship with clinicians' opinions and individual level factors. *Results:* Data were analysed for 6570 outpatients within 222 teams derived from 89 outpatient clinics within 33 health trusts. Differences in patients' scores were determined largely at the patient level, with teams accounting

for 2% of the total variance and organizational levels of clinics and health trusts not contributing to patients' experiences. Team-level clinician quality scores were not significantly associated with patients' experiences. Better experiences were significantly associated with patients' female sex, older age, better self-perceived health, absence of an inpatient history, longer treatment episodes, frequent consultations, and waiting times perceived as acceptable. *Conclusions:* The organizational contributions to patients' experience scores were minimal. Although clinicians' ratings of quality are not a substitute for patients' perceptions of quality, surveys of outpatients' experiences and satisfaction may not be appropriate for cross-sectional comparisons of health care providers.

7.3 Summary of paper II

Patient experiences with treatment in private practice compared with public mental health services (Online ahead of print). Bjørngaard JH, Garratt A, Gråwe R, Bjertnæs ØA, & Ruud T. *Scandinavian Journal of Psychology*, 2008.

The study compared patient experiences with psychiatric treatment provided by private practitioners and public outpatient clinics. Questionnaires were completed by 642 outpatients in private practice and 6677 outpatients in public clinics. The questionnaire included a measure of patient experiences comprising six items: treatment outcome, enough time for contact and dialogue with clinician, clinicians' understanding of patient's situation, suitability of therapy and treatment, clinician follow-up of planned actions, and influence on treatment. Patients in private practice had generally better experiences than patients in public outpatient treatment. The difference between private and public patients was largest for patients with poor self-evaluated mental health or those who had just one consultation in the previous three months. Private practitioners appear to have an important role in mental health services delivery, and patients have relatively good experiences with services. Further studies that assess the patient-clinician interaction in different mental health services may give further insights into potential service improvements.

7.4 Summary of paper III

User satisfaction with child and adolescent mental health services — impact of the service unit level (Online ahead of print). Bjørngaard JH, Andersson HW, Ose SO, & Hanssen-Bauer K. *Social Psychiatry and Psychiatric Epidemiology*, 2008.

Background: Child and adolescent mental health service units (CAMHS) play an important role in the supply of services to children and adolescents with mental illness. The purpose of this study was to examine the service unit effect on parent satisfaction with outpatient treatment. *Method:* The study was undertaken in 49 of 72 Norwegian outpatient CAMHS in 2004. A total of 2253 parents (87%) responded. Parent satisfaction was measured using two summated scales: clinician interaction/information and treatment outcome. Multilevel analyses were used to assess the contribution of the service units to satisfaction and to investigate patient level predictors of parent satisfaction. *Results:* About 96-98% of the parent satisfaction variance could be attributed to factors within CAMHS, leaving only 2-4% of the variance attributable to the CAMHS level. Parents of patients aged 0-6 years were more satisfied than older patients' parents. Longer treatment episodes were positively associated with satisfaction. Parents whose children had been referred with externalizing symptoms were less satisfied with treatment outcome than those referred for internalizing symptoms. Waiting time was negatively associated with treatment outcome satisfaction. Adjustments for patient characteristics did not substantially change the relative effect of CAMHS on satisfaction ratings. *Conclusion:* The results indicate that information from user satisfaction surveys has clear limitations as an indicator of CAMHS quality. From a quality improvement perspective, the factors affecting the variance within CAMHS are of dominating importance compared to factors affecting between CAMHS variance.

7.5 Summary of paper IV

The impact of mental illness on patient satisfaction with the therapeutic relationship. Bjørngaard JH, Ruud T, & Friis S. *Social Psychiatry and Psychiatric Epidemiology*; 42:803-809, 2007.

Background: The relationship between patients and their clinicians is an essential factor in psychiatric treatment. The purpose of this study was to analyse the influence of psychopathology on patient satisfaction with the therapeutic relationship. *Methods:*

Data from 969 patients from 40 different treatment teams collected from eight Norwegian community mental health centres were analysed. Patient satisfaction with the therapeutic relationship was assessed with a six-item scale: sufficient time for contact/dialogue, clinicians' ability to listen and understand, follow-up of planned interventions, respect for patients' views/opinions, cooperation among clinicians, and patients' influence on treatment. Mental illness was assessed using the Health of the Nation Outcome Scales (HoNOS) and the Global Assessment of Functioning (GAF) scale. Diagnoses were established using the International Statistical Classification of Diseases and Related Health Problems–10th revision (ICD-10). Treatment outcomes were clinically assessed retrospectively by rating changes from start of treatment on seven items. Multilevel regression analysis was used for a simultaneous analysis of the contribution of patient and team variables. *Results:* Satisfaction was associated with treatment outcome, better health as assessed using HoNOS, being female, of older age, and having less psychiatric team severity indicated by the teams' mean GAF score. Patients with a schizophrenia spectrum disorder were more satisfied when treated as in- and day-patients, compared with outpatient treatment. Patients in other diagnostic categories were less satisfied with day treatment. *Conclusions:* Patients' perceptions of the therapeutic relationship may be influenced by psychopathology. Teams comprising many patients with severe mental illness may constrain the therapeutic relationship. Hence, resources and organizational measures should be carefully considered in such care units.

7.6 Summary of organizational contributions to patient satisfaction

Taken together, the results from this dissertation showed that the different organizational levels contributed little to the explanation of patient satisfaction variance. Table 7.3 summarizes the results of organizational contributions in the various studies (papers I, III and IV). Among adult outpatients (paper I), most of the differences in patient experiences could be attributed to differences between patients rather than to the care unit in which they were treated. About 2–4% of the variance in patient satisfaction could be attributed to the outpatient CAMHS level (paper III), a result consistent with the results from the study reported in paper I. In paper IV, 12% of the variance, when unadjusted for any of the independent variables, could be attributed to the team level. When adjusting for variables such as psychopathology and treatment setting, the between-team variance was reduced from 12% to 2%.

Table 7.3 Organizational contributions to satisfaction with mental health services

Organizational levels	Paper	ICC% – unadjusted
Adult outpatient teams	I	1–2%
Adult outpatient clinics	I	0
Adult health trust	I	0
Parents in CAMHS	III	2–4%
Adult inpatient, outpatient and day-patient treatment teams	IV	12%

Team-level clinician quality scores were not significantly associated with patient experiences in paper I. The results of paper II suggested that patients in private practice have better experiences compared with public outpatients and that this difference in experience varies considerably between patient groups.

Table 7.4 Independent organizational variables and patient satisfaction

Organizational variables	Paper	P<.05
Mean clinician team score, patient treatment scale	I	
Mean clinician team score, professional competence scale	I	
Mean clinician team score, time adequacy scale	I	
Mean clinician team score, work environment scale	I	
GAF team mean	IV	IV
HoNOS team mean	IV	
Outpatient, day-patient, or inpatient treatment	IV	IV ^a
Private practice vs outpatient treatment	II	II ^b

^a Modified by diagnoses of Schizophrenia spectrum disorders

^b Modified by self-perceived mental health status and number of visits

The results reported in paper IV suggested higher satisfaction with the therapeutic relationship during inpatient and outpatient treatment than during day-patient treatment, except for patients with Schizophrenia spectrum disorders, who were more satisfied with inpatient and day-patient care. Furthermore, less satisfaction was associated with more severe psychiatric symptomatology in each team.

7.7 Summary of individual characteristics and patient satisfaction

These various papers have investigated several possible individual characteristics as determinants of satisfaction (table 7.5). In papers I and II, better patient experiences were significantly associated with female sex, older age, better self-perceived health, longer treatment episodes, and frequent consultations. In addition, in paper I better

experiences were significantly associated with no inpatient history and with waiting times being perceived as acceptable.

Table 7.5 Independent variables and patient/parent satisfaction

Individual variables	Informant	Paper	P<.05
Socio-demographic characteristics:			
Age	Patient/clinicians	I,II,III,IV	I,II,III,IV
Sex	Patient/clinicians	I,II,III,IV	I,II,IV
Health status			
Self-perceived mental health	Patient	I,II	I,II ^a
Self-perceived physical health	Patient	I	I
Drugs/alcohol abuse	Clinicians	IV	
GAF	Clinicians	IV	IV ^b
HoNOS	Clinicians	IV	IV
Outcome from treatment	Clinicians	IV	IV
Schizophrenia spectrum disorders	Clinicians	IV	IV ^c
Episode characteristics			
Episode length	Patient/Clinicians	I,II,III,IV	I,II,III,IV ^b
Perceived waiting time	Patient	I	I
Actual waiting time	Clinicians	III	III ^d
Number of visits	Patient	I,II	I,II ^a
Referral status	Clinicians	III	III ^d

^a Modified by treatment setting (private practice vs outpatient treatment)

^b Not statistically significant in the full model

^c Modified by treatment setting (outpatient vs inpatient, day-patient treatment)

^d Associated with parent satisfaction with the outcome

In paper II, public patients with more than one consultation in the previous three months had better experiences compared with patients with only one consultation, this difference being significantly smaller for the private patients. Better experiences were clearly associated with better self-perceived mental health for both private and public patients. However, the difference in the total scores for patients' experiences as private and public patients depended upon the level of self-perceived mental health status. For public patients, there was a clear relationship between self-perceived mental health and the total scores. This relationship was somewhat weaker for patients treated in private practice.

The results from paper III revealed that parents of patients aged 0–6 years were more satisfied than older patients' parents. Longer treatment periods were positively

associated with satisfaction. Parents whose children had been referred with externalizing symptoms were less satisfied with the treatment outcome than those referred for internalizing symptoms. Waiting time was negatively associated with treatment outcome satisfaction.

In paper IV, satisfaction was associated with clinician rated treatment outcome, better health as assessed using HoNOS, being female and being older. Patients with a schizophrenia spectrum disorder were more satisfied when treated as inpatients and day-patients, compared with outpatient treatment. Patients in other diagnostic categories were less satisfied with day treatment.

8. Discussion

The main aim of this dissertation was to investigate the extent to which organizational factors are reflected in patient satisfaction ratings, by evaluating the utility of satisfaction measures as indicators of organizational and system quality. The dissertation was based on four empirical papers, which addressed different aspects of patient satisfaction and experiences with mental health services.

Satisfaction scores were skewed towards positive experiences, a result that is consistent with most patient satisfaction studies (2,3,51). However, scale scores ranging from 62 to 78, where 100 was the best possible score, also indicated substantial levels of dissatisfaction among the adult patients and the parents in the CAMHS.

Multilevel regression analyses revealed that patient satisfaction did not vary substantially among outpatient service units. That is, many patients were dissatisfied with the services provided, this dissatisfaction being fairly similar across care units.

Despite small organizational contributions to patient satisfaction, the results presented in this dissertation showed that satisfaction ratings differed systematically between several service characteristics.

8.1 Discussion of methodology

8.1.1 General comments

Given that patient satisfaction is a subjective measure, ratings will be influenced by differences in both expectations and response style. For instance, Wampold (98) maintained a possible lower patient-level variance in trials because of selection prior to the trial that was based on patient characteristics. Hence, we might have found somewhat higher relative organizational contributions if we had controlled for unmeasured psychological variables at the patient level. On the other hand, the POPEQ scale of information in paper I did not have any significant variance between care units, which indicates that any differences between teams were no greater than would be expected by chance alone.

In paper IV, patients with a diagnosis of schizophrenia were more satisfied with day-patient or inpatient status when compared with outpatient care. In paper II, the

difference between private and public patients was largest for patients with poor self-evaluated mental health and those who had received just one consultation in the previous three months. These results indicate that the treatment context is of greater importance for some patients than others. Hence, we can not rule out that there may be unmeasured subgroups of patients for whom the organizational context is of greater importance.

8.1.2 Reliability and validity

Reliability refers to the quality of measurement in terms of its ability to reflect a “true score” that is free from random error. Any factor that randomly affects the measurement of a variable will contribute to this random error. In survey research, respondents’ misinterpretations of questions, and respondents’ mood and errors during data recording are sources of such random errors. A random error will have a zero mean and will not produce bias across the entire sample. Reliability is often considered in terms of a measure’s stability and consistency. A measure’s stability refers to the extent to which the same results are obtained when a phenomenon is measured at different time points. A measure’s consistency refers to how similar the results are when different items measure the same construct.

All the scales used as dependent variables showed good internal consistency reliability. Test–retest reliability, which was only assessed for the scales used in paper I, ranged from 0.8 to 0.9. Together with other research (54), this result indicates acceptable to very good stability reliability for patient satisfaction and experiences. Hence, there is no reason to believe that, in general, users of mental health services are any different in their measurement stability than other patient groups.

Validity refers to the quality of measurement in terms of its being free from both random and non-random, or systematic, errors. In other words, does the scale measure what we want it to measure? Validity is of several different types, each with its own meaning (99). Face validity involves a subjective judgement made by the users of the instrument about whether the individual items represent an appropriate range of problems. Content validity refers to the extent to which a measure represents all facets of a given topic, while consensual validity refers to the opinions of experts. Face, content, and consensual validity were established during a rigorous process of instrument development, which included contributions from people with expert

knowledge. The construction of the items used in papers I and II also included patients as experts in instrument development, which was not the case for the instruments used in papers III and IV. These instruments were developed and used for the first time in this dissertation. None of the instruments had been assessed for reliability and validity in previous studies.

Criterion-related validity assesses whether instrument scores behave as predicted, according to existing knowledge. This involves comparisons with other variables, such as testing associations with variables known to be correlated with patient satisfaction. Construct validity refers to the psychological meaning of the test scores. The instrument used in paper I, the POPEQ, showed evidence of criterion validity. The scales were extensively tested in association with variables that have been identified as having a consistent association with patient experiences and satisfaction (97). The scales used in paper III and IV, clearly differentiated between satisfied and dissatisfied parents. Furthermore, the scales also distinguished between variables that are known to correlate with user satisfaction.

The process of instrument development, following publication of a validation article (97), is stronger evidence for the reliability and validity of the instrument used in paper I when compared with instruments used in the other papers. Paper II was based on a shorter version of the questionnaire using items selected from the instrument used in paper I.

8.1.3 Selection bias

Following the discussion in chapter 5.1 (Figure 5.3), the low response rates in several of the surveys reported in this dissertation could induce bias. Usually, surveys of patient satisfaction with psychiatric services have a low response rate (3). Because a low participation rate is a major concern in patient experience and patient satisfaction research, the results cannot be claimed unequivocally to be representative of all patients. For instance, it has been suggested that patients with more severe mental illness are less likely to participate in patient satisfaction surveys (100). However, in general, the literature has not been conclusive about the consequences of low response rates (101-103).

The highest response rate was achieved for parents in the CAMHS (87%). This high response rate may be explained by a more personalized delivery and collection of the

questionnaire at the clinic. Hence, the response rate did not rely on the parents' willingness to spend time and effort returning the questionnaire by post, because they delivered it to the clinic. However, personal contact and interview methods may give less critical answers (51). Because the questionnaires were distributed by the CAMHS, we cannot rule out the possibility of selection bias. For example, in acute or severe situations, it could be interpreted as insensitive to hand out a questionnaire. Furthermore, the respondents were parents who accompanied their children to the clinic. Hence, parents of patients attending the clinic alone were not included.

The response rate was also substantially higher in the private practice sample than in both the national public outpatient sample and the sample from the eight Community Mental Health Centres (56% vs 43% and 39%, respectively). This difference may be explained partly by a more personalized delivery of the questionnaire, which was handed out by the therapist (private patients) instead of being sent by mail (public outpatients). However, the questionnaires were also handed out at the clinic for the patients in the Community Mental Health Centres, where the response rates were fairly similar to those for the public outpatient clinics. It is difficult to interpret the consequences of these differences in response rates, because the clinical information about the non-responders was poor, with the exception of the sample from the Community Mental Health Centres. To some extent, non-responders appeared to represent greater symptom severity and decreased functioning, characterized by lower GAF and HoNOS scores, as well as a greater proportion of patients with a diagnosis of schizophrenia. It is therefore possible that the differences in response rates among private practice patients and the two public samples were, to some extent, due to differences in case mix. If this is the case, one could assume that this would have made the three samples more alike, if there was a selection towards healthier patients responding to the questionnaires. In any case, the low response rates constitute an important limitation of the materials used in this research.

8.1.4 Measurement error

It may be that the organizational context of outpatient care delivery is significantly important but that our measures have not been able to capture this possible outcome, as discussed in chapter 5.1 (Figure 5.4). A major problem relates to the fact that questionnaire surveys may underestimate dissatisfaction because patients are

unwilling to appear ungrateful or because they accept the limitations of health care delivery (68). The high satisfaction ratings have often been contradicted by the descriptions given by service users in qualitative studies (27). A study by Williams *et al.* (104) revealed that patients frequently described their experiences in positive or negative terms during in-depth interviews. However, many of these differences were not captured using a formally validated and structured patient satisfaction instrument, suggesting that expressions of “satisfaction” hid a variety of reportable negative experiences. Forced alternatives may also constrain the possibility of patients expressing what is most important for them. Qualitative research designs have proved to be more sensitive to patients’ elaborative statements (49,105).

Because different instruments were used in this dissertation, the results are less sensitive to the potential weakness of one instrument. Furthermore, the results are also similar to those contained in the literature. Nevertheless, when there is low consensual agreement between patients in their ratings of the same environment, this may indicate that patient satisfaction instruments have limited ability to detect quality deficiencies in a clinical environment. On the other hand, this result may also be due to real within-setting differences. In paper I, it was interesting to note, however, that there were no significant associations between the clinicians’ and patients’ evaluations of quality.

8.2 Discussion of the results

8.2.1 Patient satisfaction as an indicator of organizational and system quality

Taken together, the results from this dissertation showed that organizational contributions to user experiences and satisfaction scores are fairly small. Among adult outpatients, most of the differences in patient experiences (98%) could be attributed to differences between patients rather than to the care unit in which they were treated. About 2–4% of the variance in patient satisfaction could be attributed to the outpatient CAMHS level, a result consistent with the study described in paper I.

Among inpatient, day-patient and outpatient teams in community mental health centres, 12% of the variance, when not adjusted for any independent variables, could be attributed to the team level (paper IV), a value that is considerably greater than those found in paper I (about 2%) and paper III (about 2–4%). Teams in community

mental health centres provide services with considerable diversity, offering individual therapy, day/group treatment, ambulatory care and some inpatient services, such as short-term crisis intervention units and longer-term rehabilitation units. This may be a reason for the high team-level contribution to satisfaction variance, uncorrected for other variables. When adjusting for variables such as psychopathology and treatment setting, the between-team variance was reduced from 12% to 2%.

Thornicroft and Tansella (99) introduced the “matrix model” as a relevant tool for analysing mental health services. Their analytical framework tried to bridge the gap between different levels of analysis. They maintained that incidents and outcomes are often described primarily at the patient level, but consequences seldom remain at that level. For instance, the catalysts of adverse events may be revealed at different actor levels, such as the patient level, the local level or the regional level. Thornicroft and Tansella indicated that a comprehensive analysis of mental health services must take into account the services’ multicausal and multilevel framework. The results obtained in this dissertation require that attention be focused on an important empirical aspect of this argument. Taken together, administrative units may be meaningful categories for clinicians and health service administrators, but they are not necessarily important contexts for patients. Thus, it is crucially important to determine important contextual levels from a patient’s point of view.

Despite the fairly low impact of organizational factors on patient satisfaction ratings, there is evidence that certain factors contribute to this effect. This dissertation showed that satisfaction ratings were systematically related to service characteristics. The results in papers I, III and IV revealed statistically significant organizational contributions to satisfaction. Hence, the differences between outpatient teams, outpatient CAMHS, and inpatient, outpatient and day-patient teams in community mental health centres are not totally random. From a quality improvement point of view, satisfaction data may be an adequate quality indicator for evaluating alternative approaches to care delivery, including clinical trials. However, when planning an intervention, it is probably better to altering the behaviour within a context of real influence for the outpatients, for instance at the clinician level, rather than the team or clinic level.

In summary, these results indicate a need to analyse further organizational contributions to patient satisfaction and other outcome measures, even if the influence

of organizational factors is small. However, cross-sectional comparisons for benchmarking purposes are problematic. As pointed out by Freeman (106), feasible performance indicators must be able to identify poorly performing units (sensitivity), and any units identified as performing poorly must truly be performing poorly (specificity).

Finally, to a large extent, the quality and satisfaction with treatment outcomes may be a consequence of patient factors. For example, research has suggested that highly motivated patients show measurable improvement before their first session with the therapist (107), suggesting that the first step towards behaviour change may lie in just making the appointment. Silber *et al.* (108) found that, to a large extent, treatment outcome from simple surgical procedures was a matter of who is being treated rather than of any of the characteristics of the services providing treatment.

8.2.2 The impact of health status on patient satisfaction

Because patients are not randomly allocated to the various care units, differences between units may be influenced by confounding variables, as mentioned in chapter 5.1 (Figure 5.2). The four different papers have investigated several possible individual characteristics as determinants of satisfaction. The most obvious factor for creating bias due to confounding would be the patients' health status and psychopathology.

Following previous findings, the results from papers I and II showed that patients' self-perceived health status was positively associated with patient satisfaction. This association was stronger among patients in public outpatient clinics than patients in private practice (paper II). However, there is reason to be cautious about making causal interpretations of the association between self-perceived mental health status and patient satisfaction. Firstly, good self-perceived mental health may be an indicator of improvement. Hence, the association may be due to treatment outcome rather than to the severity of the illness. Secondly, the validity of the association between self-reported measures of health status and patient satisfaction has been questioned, as the association may be largely due to a generalized response bias (63). That is, response style and daily mood fluctuations may imply that a negative rating on one item in a questionnaire will be followed by a negative response on another item.

However, in paper IV, the association between clinician ratings of patients' health status and patient satisfaction with the therapeutic relationship was assessed. In the multivariate regression model in paper IV, satisfaction was associated with better health as assessed by HoNOS, even when adjusting for the clinician's assessment of treatment outcome. This result suggests that the patients' mood could be affected by the severity of their illness, so that, to some extent, experiences could be coloured by the mental illness itself.

The significant relationship between clinical assessment of treatment outcome and patient satisfaction supports the use of patient-rated outcomes as measures of the clinical utility of treatment. However, further longitudinal studies are required to assess how satisfaction varies with changes in the severity of the mental illness.

The results reported in paper IV suggested that satisfaction with the therapeutic relationship, when controlled for patients' individual levels of mental illness, was negatively associated with more severe psychiatric symptomatology in each team, as measured by the teams' mean GAF score. Therefore, mental health status may influence patient satisfaction, as a characteristic of both the individual patient and the team as an organizational unit. Teams with many severely ill patients may receive poor aggregate ratings for two reasons. Firstly, more severely ill patients tend to be less satisfied. Secondly, a high percentage of severely ill patients may comprise the function of the team.

Furthermore, the analysis in paper IV indicated that people with a diagnosis of schizophrenia were more satisfied with day-patient or inpatient care than outpatient care. This may indicate that patients with a chronic disorder benefit from the close follow-up that occurs in day-patient and inpatient treatment. It is also possible that inpatient and day-patient care provides a social network for people with schizophrenia, which may prevent loneliness, for example. Further studies are required to assess the quality of care in different settings for patients with chronic psychiatric disorders.

However, the measurement of psychopathology in paper IV was performed by the responsible clinician, and not by experts outside the institution. We cannot rule out the possibility that this may have influenced the validity of the psychopathology

measures. It is also possible that there could be specific scoring cultures within the teams.

8.3 Further research

The growing recognition of patient empowerment is likely to prevail in both mental health provision and research on mental health services (45). Patients, as experts on their own mental illness, are likely to provide information that mental health providers may overlook (5,6,44). However, it is important that the methods used for obtaining patients' views and contributions do not undermine efforts to elicit patient input and involvement in providing mental health research and services. This is particularly important in order to prevent patient empowerment from becoming a buzzword without real influence.

Measurement of patient satisfaction has been criticized from a conceptual viewpoint (34). It has been suggested that its measurement may diminish other approaches to enhancing patient empowerment (63). This dissertation's results indicate that the relevance of patient satisfaction studies is likely to increase if the studies are conducted at meaningful contextual levels. For patients receiving individual therapy, the relationship with the clinician is more likely to be important than the organization in which the care has been provided. Hence, patient satisfaction data are likely to have greater applicability at the clinician level.

The studies in this dissertation did not provide data that permitted an assessment of any change in patient satisfaction during the treatment period. A longitudinal design measuring patient satisfaction at each appointment would have been advantageous, making it possible to analyse individual trajectory curves. One study found considerable inpatient variance (109), suggesting that patient experiences and satisfaction vary between each care episode. Given the potential impact of the different response styles among patients, future research should assess inpatient change in satisfaction during a treatment episode; for instance, in order to evaluate alternative approaches to care delivery, including clinical trials.

Literature

References

1. Sitzia J, Wood N: Patient satisfaction: A review of issues and concepts. *Social Science & Medicine* 45:1829-1843, 1997.
2. Powell R-A, Holloway F, Lee J, et al: Satisfaction research and the uncrowned king. Challenges and future directions. *Journal of Mental Health* 13:11-20, 2004.
3. Ruggeri M: Satisfaction with psychiatric services, in *Mental health outcome measures*, Edited by Thornicroft G, Tansella M, Berlin, Springer, 1996.
4. Rogers A, Pilgrim D, Lacey R: *Experiencing psychiatry: Users' view of services*. Basingstoke, Macmillan, 1993.
5. Wykes T: Blue skies in the *Journal of Mental Health*? Consumers in research. *Journal of Mental Health* 12:1, 2003.
6. Trivedi P, Wykes T: From passive subjects to equal partners: Qualitative review of user involvement in research. *The British Journal of Psychiatry* 181:468-472, 2002.
7. Heffernan K: Social work, new public management and the language of 'service user'. *British Journal of Social Work* 36:139-147, 2006.
8. Deber RB, Kraetschmer N, Urowitz S, et al: Patient, consumer, client, or customer: What do people want to be called? *Health Expectations* 8:345-351, 2005.

9. Ritchie CW, Hayes D, Ames DJ: Patient or client? The opinions of people attending a psychiatric clinic. *Psychiatric Bulletin* 24:447-450, 2000.
10. McGuire-Snieckus R, McCabe R, Priebe S: Patient, client or service user? A survey of patient preferences of dress and address of six mental health professions. *Psychiatric Bulletin* 27:305-308, 2003.
11. Donabedian A: *An introduction to quality assurance in health care*. New York, Oxford University Press, Inc, 2003.
12. Donabedian A: *The definition of quality and approaches to its assessment*. Ann Arbor, MI: Health Administration Press, 1980.
13. Donabedian A: The quality of care. How can it be assessed? *The Journal of the American Medical Association* 260:1743-1748, 1988.
14. Pedersen PB: Deinstitutionalisering av det psykiske helsevernet, in *Samfunn og psykiske lidelser. Samfunnsvitenskapelige perspektiver - en introduksjon*, 1 ed. Edited by Norvoll R, Oslo, Gyldendal Norsk Forlag, 2002.
15. Becker I, Vazquez-Barquero JL: The European perspective of psychiatric reform. *American Journal of Psychiatry Supplement* 8-14, 2001.
16. Wampold BE: *The great psychotherapy debate. Models, methods and findings*. Mahwah, NJ, Lawrence Erlbaum Associates, 2001.
17. Frank AF, Gunderson JG: The role of the therapeutic alliance in the treatment of schizophrenia. Relationship to course and outcome. *Archives of General Psychiatry* 47:228-236, 1990.

18. Neale MS, Rosenheck RA: Therapeutic alliance and outcome in a VA intensive case management program. *Psychiatric Services* 46:719-721, 1995.
19. McCabe R, Priebe S: The therapeutic relationship in the treatment of severe mental illness: A review of methods and findings. *International Journal of Social Psychiatry* 50:115-128, 2004.
20. Norwegian Board of Health Supervision. Håndbok i drift av psykiatriske poliklinikker. Report nr 2. Oslo. 2001.
21. The Norwegian Ministry of Health and Care Services. St.prp. nr. 63 (1997-98): Om opptrappingsplan for psykisk helse 1999 - 2006. 1998.
22. The Norwegian Directorate for Health and Social Affairs. Fritt sykehusvalg. <http://www.sykehusvalg.net> . 2007. Access date 11-1-2007.
23. Burns T: Community mental health teams. A guide to current practices. New York, Oxford University Press, 2004.
24. Glisson C: The organizational context of children's mental health services. *Clinical Child and Family Psychology Review* 5:233-253, 2002.
25. Mintzberg H: The structuring of organizations: a synthesis of the research. Englewood Cliffs, NJ, Prentice-Hall, 1979.
26. Abbott A: The system of professions: An essay on the division of expert labor. Chicago, University of Chicago Press, 1988.

27. Crawford M, Kessel A: Not listening to patients - the use and misuse of patient satisfaction studies. *International Journal of Social Psychiatry* 45:1-6, 1999.
28. Valenstein M, Mitchinson A, Ronis DL, et al: Quality indicators and monitoring of mental health services: What do frontline providers think? *American Journal of Psychiatry* 161:146-153, 2004.
29. Slade M, Leese M, Cahill S, et al: Patient-rated mental health needs and quality of life improvement. *The British Journal of Psychiatry* 187:256-261, 2005.
30. Edlund MJ, Young AS, Kung FY, et al: Does satisfaction reflect the technical quality of mental health care? *Health Services Research* 38:631-645, 2003.
31. Chang JT, Hays RD, Shekelle PG, et al: Patients' global ratings of their health care are not associated with the technical quality of their care. *Annals of Internal Medicine* 144:665-672, 2006.
32. Shannon SE, Mitchell PH, Cain KC: Patients, nurses, and physicians have differing views of quality of critical care. *Journal of Nursing Scholarship* 34:173-179, 2002.
33. Thompson A, Sunol R: Expectations as determinants of patient satisfaction: Concepts, theory and evidence. *International Journal for Quality in Health Care* 7:127-141, 1995.
34. Williams B: Patient satisfaction: A valid concept? *Social Science & Medicine* 38:509-516, 1994.

35. Parasuraman A, Zeithaml V, Berry LL: A conceptual model of service quality and its implications for future research. *Journal of Marketing* 49:41-50, 1985.
36. Carr-Hill RA: The measurement of patient satisfaction. *Journal of Public Health Medicine* 14:236-249, 1992.
37. Morgan DG: 'Please see and advise': A qualitative study of patients' experiences of psychiatric outpatient care. *Social Psychiatry and Psychiatric Epidemiology* 34:442-450, 1999.
38. Ware JE, Jr., Snyder MK, Wright WR, et al: Defining and measuring patient satisfaction with medical care. *Evaluation and Program Planning* 6:247-263, 1983.
39. Eklund M, Hansson L: Determinants of satisfaction with community-based psychiatric services: A cross-sectional study among schizophrenia outpatients. *Nordic Journal of Psychiatry* 55:413-418, 2001.
40. Hanita M: Self-report measures of patient utility: Should we trust them? *Journal of Clinical Epidemiology* 53:469-476, 2000.
41. Friis S. The ward atmosphere: A crucial dimension of inpatient settings. 1984. Oslo, University of Oslo.
42. Friis S: Factors influencing the ward atmosphere. *Acta Psychiatrica Scandinavica* 73:600-606, 1986.
43. Fitzpatrick R: Scope and measurement of patient satisfaction, in *Measurement of patients' satisfaction with their care*, Edited by Fitzpatrick R, Hopkins A, London, Royal College of Physicians, 1993.

44. Thornicroft G, Rose D, Huxley P, et al: What are the research priorities of mental health service users? *Journal of Mental Health* 11:1-3, 2002.
45. Thornicroft G, Tansella M: Growing recognition of the importance of service user involvement in mental health service planning and evaluation. *Epidemiologia Psichiatria Sociale* 14:1-3, 2005.
46. Morgan DG: 'Please see and advise': A qualitative study of patients' experiences of psychiatric outpatient care. *Social Psychiatry and Psychiatric Epidemiology* 34:442-450, 1999.
47. Schroder A, Ahlstrom G, Larsson BW: Patients' perceptions of the concept of the quality of care in the psychiatric setting: A phenomenographic study. *Journal of Clinical Nursing* 15:93-102, 2006.
48. Hansson L, Bjorkman T, Berglund I: What is important in psychiatric inpatient care? Quality of care from the patient's perspective. *Quality Assurance in Health Care* 5:41-47, 1993.
49. Johansson H, Eklund M: Patients' opinion on what constitutes good psychiatric care. *Scandinavian Journal of Caring Sciences* 17:339-346, 2003.
50. Duggins R, Shaw I: Examining the concept of patient satisfaction in patients with a diagnosis of schizophrenia: A qualitative study. *Psychiatric Bulletin* 30:142-145, 2006.
51. Crow R, Gage H, Hampson S, et al: The measurement of satisfaction with healthcare: Implications for practice from a systematic review of the literature. *Health Technology Assessment* 6:1-244, 2002.

52. Kim JO: Introduction to factor analysis: What it is and how to do it. Beverly Hills, Sage, 1978.
53. Sitzia J: How valid and reliable are patient satisfaction data? An analysis of 195 studies. *International Journal for Quality in Health Care* 11:319-328, 1999.
54. Ruggeri M, Lasalvia A, Dall'Agnola R, et al: Development, internal consistency and reliability of the Verona service satisfaction scale – European version. EPSILON Study 7. European psychiatric services: Inputs linked to outcome domains and needs. *British Journal of Psychiatry, Supplement* 39:41-48, 2000.
55. Ayton A, Mooney M, Sillifant K, et al: The development of the child and adolescent versions of the Verona Service Satisfaction Scale (CAMHSSS). *Social Psychiatry and Psychiatric Epidemiology* 42:892-901, 2007.
56. Hansson L, Hoglund E: Patient satisfaction with psychiatric services – the development, reliability, and validity of 2 patient satisfaction questionnaires for use in inpatient and outpatient settings. *Nordic Journal of Psychiatry* 49:257-262, 1995.
57. Druss BG, Rosenheck RA, Stolar M: Patient satisfaction and administrative measures as indicators of the quality of mental health care. *Psychiatric Services* 50:1053-1058, 1999.
58. Garman AN, Corrigan PW, Morris S: Staff burnout and patient satisfaction: Evidence of relationships at the care unit level. *Journal of Occupational Health Psychology* 7:235-241, 2002.

59. Hoff RA, Rosenheck RA, Meterko M, et al: Mental illness as a predictor of satisfaction with inpatient care at veterans affairs hospitals. *Psychiatric Services* 50:680-685, 1999.
60. Fitzpatrick R: Capturing what matters to patients when they evaluate their hospital care. *Quality and Safety in Health Care* 11:306, 2002.
61. Holcomb WR, Parker JC, Leong GB, et al: Customer satisfaction and self-reported treatment outcomes among psychiatric inpatients. *Psychiatric Services* 49:929-934, 1998.
62. Raleigh VS, Irons R, Hawe E, et al: Ethnic variations in the experiences of mental health service users in England: Results of a national patient survey programme. *The British Journal of Psychiatry* 191:304-312, 2007.
63. Salzer M: Consumer satisfaction. *Psychiatric Services* 49:1622, 1998.
64. Kane RL, Maciejewski M, Finch M: The relationship of patient satisfaction with care and clinical outcomes. *Medical care* 35:714-730, 1997.
65. Blader J: Longitudinal assessment of parental satisfaction with children's psychiatric hospitalization. *Administration and Policy in Mental Health and Mental Health Services Research* 34:108-115, 2007.
66. Ruggeri M: Patients' and relatives' satisfaction with psychiatric services: The state of the art of its measurement. *Social Psychiatry and Psychiatric Epidemiology* 29:212-227, 1994.

67. Thornicroft G, Leese M, Tansella M, et al: Gender differences in living with schizophrenia. A cross-sectional European multi-site study. *Schizophrenia Research* 57:191-200, 2002.
68. Stallard P: The role and use of consumer satisfaction surveys in mental health services. *Journal of Mental Health* 5:333-348, 1996.
69. Rosenheck R, Wilson NJ, Meterko M: Influence of patient and hospital factors on consumer satisfaction with inpatient mental health treatment. *Psychiatric Services* 48:1553-1561, 1997.
70. Greenwood N, Key A, Burns T, et al: Satisfaction with in-patient psychiatric services. Relationship to patient and treatment factors. *British Journal of Psychiatry* 174:159-163, 1999.
71. Hox J: *Multilevel analysis. Techniques and applications*. New Jersey, Lawrence Erlbaum Associates, 2002.
72. Aiello A, Garman A, Morris SB: Patient satisfaction with nursing care: A multilevel analysis. *Quality Management in Health Care* 12:187-190, 2003.
73. Veenstra M, Hofoss D: Patient experiences with information in a hospital setting: A multilevel approach. *Medical Care* 41:490-499, 2003.
74. Sjetne IS, Veenstra M, Stavem K: The effect of hospital size and teaching status on patient experiences with hospital care: A multilevel analysis. *Medical Care* 45:252-258, 2007.
75. McKinley RK, Roberts C: Patient satisfaction with out of hours primary medical care. *Quality and Safety in Health Care* 10:23-28, 2001.

76. Franciosi M, Pellegrini F, De Berardis G, et al: Correlates of satisfaction for the relationship with their physician in type 2 diabetic patients. *Diabetes Research and Clinical Practice* 66:277-286, 2004.
77. Sixma HJ, Spreeuwenberg PM, van der Pasch MA: Patient satisfaction with the general practitioner: A two-level analysis. *Medical Care* 36:212-229, 1998.
78. Garman AN, Corrigan PW, Morris S: Staff burnout and patient satisfaction: evidence of relationships at the care unit level. *Journal of Occupational Health Psychology* 7:235-241, 2002.
79. Young G, Meterko M, Desai K: Patient satisfaction with hospital care: Effects of demographic and institutional characteristics. *Medical Care* 38:325-334, 2000.
80. Garman AN, Corrigan PW, Morris S: Staff burnout and patient satisfaction: evidence of relationships at the care unit level. *Journal of Occupational Health Psychology* 7:235-241, 2002.
81. Freidson E: *Profession of medicine: A study of the sociology of applied knowledge*. Chicago, University of Chicago Press, 1988.
82. Aanjesen Dahle K, Bjørngaard JH, Sperre Saunes I, Andresen Bjertnæs Ø, Garratt A, Ruud T. Pasienterfaringer ved poliklinikker for voksne i det psykiske helsevernet i Norge: hovedresultater. Nasjonalt kunnskapssenter for helsetjenesten. 2005.

83. Husum T, Graawe R, Bjørngaard J. Avtalespesialister i det psykiske helsevernet i Midt-Norge - Kartlegging av helsetilbudet, samhandling og tilgjengelighet. STF78 A045022. SINTEF Helse. 2004.
84. Andersson HW, Ose SO. Psykisk helsevern for barn og unge: behandlernes og brukernes vurderinger av behandlingstilbudet. STF78 A055009. SINTEF Helse. 2005.
85. Ruud T, Reas D. Distriktpsikiatriske sentre, tjenestetilbud og brukertilfredshet - status og variasjon 2002. STF78 A035008. SINTEF Unimed. 2003.
86. Ruud T, Gråwe R, Lilleng S, Bjørngaard JH. Endringer i tjenestetilbud og brukertilfredshet ved åtte distriktpsikiatriske sentre fra 2002 til 2005. STF78 A055028, 52. SINTEF Helse. 2006.
87. Andresen Ø, Bjørngaard J, Aanjesen Dahle K, Groven G, Grut L, Hofoss D, Sperre Saunes I, Ruud T. Måling av brukererfaringer blant voksne i det psykiske helsevernet: innsamlingsmetode og spørreskjema. Report nr 9, Nasjonalt kunnskapssenter for helsetjenesten. 2004.
88. Hatling T, Røhme K, Bjørngaard J. Evaluering av Håndbok i drift av psykiatriske poliklinikker, sluttrapport. STF78 A0055014. SINTEF Health Research. 2005.
89. Wing JK, Beever AS, Curtis RH, et al: Health of the nation outcome scales (HoNOS). Research and development. British Journal of Psychiatry 172:11-18, 1998.

90. American Psychiatric Association: Diagnostic and statistical manual of mental disorders, 4th edition. Washington DC, American Psychiatric Association, 1994.
91. World Health Organization: International statistical classification of diseases and related health problems - 10th revision. Geneva, WHO, 1992.
92. Mueser KT, Noordsy DL, Drake RE, et al: Integrated treatment for dual disorders - A guide to effective practice. New York, The Guildford Press, 2003.
93. Leyland A, Goldstein H: Multilevel modelling of health statistics. Chichester, John Wiley & Sons, Ltd, 2001.
94. Browne WJ: MCMC estimation in MLwiN. London, Centre of Multilevel Modelling, Institute of Education, University of London, 2004.
95. Kline P: A handbook of test construction: Introduction to psychometric design. London, Methuen, 1986.
96. Nunnally JC: Psychometric theory. New York, McGraw-Hill, 1994.
97. Garratt A, Bjørngaard JH, Aanjesen Dahle K, et al: The psychiatric out-patient experiences questionnaire (POPEQ): Data quality, reliability and validity in patients attending 90 Norwegian clinics. *Nordic Journal of Psychiatry* 60:89-96, 2006.
98. Wampold BE, Brown GS: Estimating variability in outcomes attributable to therapists: A naturalistic study of outcomes in managed care. *Journal of Consulting and Clinical Psychology* 73:914-923, 2005.

99. Thornicroft G, Tansella M: The mental health matrix - A manual to improve services. Cambridge, Cambridge University Press, 1999.
100. Ito H, Shingai N, Yamazumi S, et al: Characteristics of nonresponders to a patient satisfaction survey at discharge from psychiatric hospitals. *Psychiatric Services* 50:410-412, 1999.
101. McColl E, Jacoby A, Thomas L, et al: Design and use of questionnaires: A review of best practice applicable to surveys of health service staff and patients. *Health Technology Assessment* 5:1-256, 2001.
102. Zwier G, Clarke D: How well do we monitor patient satisfaction? Problems with the nation-wide patient survey. *The New Zealand Medical Journal* 112:371-375, 1999.
103. Rubin HR: Patient evaluations of hospital care. A review of the literature. *Medical Care, Supplement* 28:3-9, 1990.
104. Williams B, Coyle J, Healy D: The meaning of patient satisfaction: An explanation of high reported levels. *Social Science & Medicine* 47:1351-1359, 1998.
105. Ware NC, Tugenberg T, Dickey B: Practitioner relationships and quality of care for low-income persons with serious mental illness. *Psychiatric Services* 55:555-559, 2004.
106. Freeman T: Using performance indicators to improve health care quality in the public sector: A review of the literature. *Health Services Management Research* 15:126-137, 2002.

107. Tallman K, Bohart AC: The client as a common factor: Clients as self-healers, in *The heart and soul of change*, Edited by Hubble MA, Duncan BL, Miller SD, Washington DC, American Psychological Association, 2007.
108. Silber J, Rosenbaum P, Ross R: Comparing the contributions of groups of predictors - Which outcomes vary with hospital rather than patient characteristics. *Journal of the American Statistical Association* 90:7-18, 1995.
109. Aiello A, Garman A, Morris SB: Patient satisfaction with nursing care: A multilevel analysis. *Quality Management in Health Care* 12:187-190, 2003.

Paper I

Patients' experiences and clinicians' ratings of the quality of outpatient teams in psychiatric care units in Norway. Bjørngaard JH, Ruud T, Garratt A, & Hatling T. *Psychiatric Services*; 58: 1102-1107, 2007.

Patients' Experiences and Clinicians' Ratings of the Quality of Outpatient Teams in Psychiatric Care Units in Norway

Johan Håkon Bjørngaard, M.A.

Torleif Ruud, M.D., Ph.D.

Andrew Garratt, Ph.D.

Trond Hatling, M.A.

Objective: Patients' experiences and satisfaction ratings are increasingly used to evaluate quality of care. This study assessed the extent to which outpatient teams, clinics, and health trusts contributed to patients' experiences and to what extent clinicians' evaluations of quality were related to patients' experiences. **Methods:** A questionnaire was mailed to 15,422 outpatients who attended Norwegian clinics in September 2004; 43% responded. Patients' experiences were measured on an 11-item index and three subscales: outcomes, interaction with clinicians, and information. Aggregated responses from clinicians were linked to the data on patients' experiences. Multilevel analyses were used to divide the variance between the different organizational levels and to assess the relationship with clinicians' opinions and individual-level factors. **Results:** Data were analyzed for 6,570 outpatients within 222 teams derived from 89 outpatient clinics within 33 health trusts. Differences in patients' scores were determined largely at the patient level, with teams accounting for 2% of the total variance and organizational levels of clinics and health trusts not contributing to patients' experiences. Team-level clinician quality scores were not significantly associated with patients' experiences. Better experiences were significantly associated with patients' female gender, older age, better self-perceived health, absence of an inpatient history, longer treatment episodes, frequent consultations, and waiting times perceived as acceptable. **Conclusions:** The organizational contributions to patients' experience scores were minimal. Although clinicians' ratings of quality are not a substitute for patients' perceptions of quality, surveys of outpatients' experiences and satisfaction may not be appropriate for cross-sectional comparisons of health care providers. (*Psychiatric Services* 58:1102–1107, 2007)

Patients' ratings of their experiences and satisfaction with health services are a frequently used indicator of service quality (1). However, there is a limited understanding of how psychiatric units contribute to patients' perceptions of quality (2). It has been suggested that patients' satisfaction is associated with compliance and health outcome (1,3) and that its measurement may raise issues that the providers of services often fail to identify (4). Others have maintained that providers and patients view quality differently (5) and that both views must be considered for quality assessment. However, there is a limited understanding of the relationship between clinicians' and patients' perceptions of quality. Studies of patient satisfaction have been criticized for providing a limited picture of user views (6). Other researchers have maintained that conclusions from patient satisfaction studies are often based on weak methodological premises (7).

Several studies have linked differences in patients' experiences and satisfaction to expectations, health status, and other patient characteristics (8). The link between patient satisfaction and organizational attributes is less well understood (2,9). Although it has been suggested that patient satisfaction is related to the quality of services at different organizational levels, few studies have used a multilevel framework where the variance is partitioned among different levels. Multilevel analysis is an an-

Mr. Bjørngaard and Mr. Hatling are affiliated with SINTEF–Health Services Research, Trondheim, Norway, 7465 (e-mail: jhb@sintef.no). Dr. Ruud is with the Division of Mental Health Services, Akershus University Hospital, Norway, and with the Faculty Division, Akershus University Hospital, Faculty of Medicine, University of Oslo, Oslo, Norway. Dr. Garratt is with the Institute of Health Care Management and Health Economics, University of Oslo, and with the Norwegian Knowledge Centre for the Health Services, Oslo, Norway.

alytical approach increasingly used to investigate the relative effect of different organizational levels (10).

Findings from the United States suggest that satisfaction in somatic general medical and surgery units is primarily determined at both the patient and episode-of-care levels, with the care unit or department level accounting for less than 1% of the total variance (11). A Norwegian somatic study found significant ward-level variance (approximately 1%) in inpatients' experience of information provided (9). An Italian study of patients receiving diabetes care from either general practitioners or diabetes outpatient clinics found that approximately 4% of the variance in satisfaction was due to the setting of care or care at the physician level (12). An English study of patient satisfaction within 14 general practices found that 2%–7% of the variance occurred at the practice and physician levels of care, with the remainder due to differences between patients (13). A Dutch study found that between 5% and 10% of the variation in patient satisfaction was due to the practice or general practitioner (14).

Within mental health, a U.S. study found that differences across group-based psychosocial rehabilitation teams accounted for 10%–25% of the variance across four satisfaction scales (15), a result substantially different from the other studies cited above. It remains equivocal, however, as to whether the results from the U.S. study are due to the mental health context or to the specific profile of psychosocial rehabilitation teams. We are not aware of other studies within mental health that have assessed the specific contribution of organization level to patients' experiences. Psychiatric services are widely provided as outpatient treatment, and their impact on patients' experiences requires further study.

This study addressed the feasibility of using patients' experience ratings as a measure of organizational quality by using data from a national survey of outpatients and clinicians from Norwegian mental health services. In Norway, the state is responsible for specialized health services, which are delivered through five regional health

authorities. Within each regional health authority, mental health services, such as community mental health centers and hospital-based services, are provided by health trusts. Outpatient clinics with various teams are a part of the community mental health centers. The outpatient clinics provide psychiatric services for a given population, and their teams can be defined as the lowest organizational care unit.

This study addressed two questions. The first relates to the amount of variance in patients' experiences that the different levels of care—outpatient teams, clinics, and health trusts—are able to explain. The second compares clinicians' assessment of quality with patients' experiences.

Methods

Data collection

All 15,422 persons aged 18 years or older who received services from mental health outpatient clinics in Norway in September 2004 were mailed a questionnaire within the following month. Patients were asked to rate their experience with regard to their most recent treatment episode.

The procedure regarding informed consent, study design, and collection of data was approved by the Norwegian Regional Committee for Medical Research Ethics, the Data Inspectorate, and the Norwegian Board of Health.

Patients' assessments of quality of care were collected via the Psychiatric Out-Patient Experiences Questionnaire (POPEQ). The POPEQ was developed after a literature review, interviews with patients, and pretesting of questionnaire items (16). Factor analysis and tests of item-discriminant validity provided empirical support for an index of overall experiences, as well as for three subscales, which also have a theoretical basis. The outcome scale comprises three items: outcome from conversations with the professional, overall treatment outcome, and change in psychological problems. The scale for assessing interaction with clinicians comprises six items: enough time for contact and dialogue, understanding, therapy and treatment suitability, follow-up actions carried out, communi-

cation, and say in treatment. The information scale comprises two items: information about treatment options and psychological problems.

The POPEQ has good evidence for reliability and validity. Item-versus-total correlations ranged from .5 to .8. Cronbach's alpha and test-retest reliability estimates exceeded the criterion of .7, with most being over .8 and POPEQ total scores over .9. Construct validity was supported by the results of 128 tests (16). The POPEQ scales, which are scored 0–100, where 100 is the best possible experience of care, are the dependent variables in the analyses that follow.

A questionnaire assessing clinicians' view of care was mailed to the clinicians via all mental health outpatient clinics in Norway in the beginning of September 2004. The questionnaire comprises four scales. Patient treatment has a Cronbach's alpha of .79 and six items: patient assessment, content of patient records, content of the discharge reports, closure of treatment episodes, the patient's influence in treatment, and overall evaluation of patient treatment. Professional competence has an alpha of .60 and two items: professional justifiable treatment and adequate competence in patient treatment. Time adequacy has an alpha of .66 and three items: the clinician's evaluation of having adequate time for each patient and for skills upgrading and ability to prioritize between important tasks. Work environment has an alpha of .90 and includes eight items: work environment, admission policy, collaboration between therapists, meetings, professional management, administrative management, personnel management, and job satisfaction. The scales are scored 0–100, where 100 is the best possible score.

Statistical analyses

The material was divided into four hierarchical levels: health trusts, outpatient clinics, teams, and patients. For outpatient clinics not divided into teams, the clinic and team level are the same. In accordance with previous studies, we hypothesized that most of the variance in patients' experiences would be between patients

but that there would also be a significant contribution of the care unit to patients' experiences (9,11–15). Mean team-level clinician index scores on the four scales were linked to the patients' experiences data.

The team-level mean clinician scores formed the independent variables. To control for differences in patient characteristics across the care settings, patient-level variables known to be related to patients' experiences and satisfaction were included in the analysis (8,16,17). These included age and gender, self-reported mental and physical health, duration of treatment, former inpatient history, number of visits in the past three months, and perceived waiting time.

Patients rated their experiences on the basis of shared environments, such as teams, outpatient clinics, and health trusts; therefore, analyses were performed using multilevel regres-

sion analyses (18), with the statistical program MlWin. The dependent variables were treated as continuous variables, and linear regression analyses were performed.

The regression intercepts were allowed to vary randomly across higher-level units, such as teams, outpatient clinics, and health trusts, thus making it possible to estimate the variance attributed at different levels (18). It is possible to test whether the variance at a given level is significantly larger than what could be expected by chance alone. The intraclass correlation coefficient (ICC) is a measure of the degree of agreement between, for example, patients who received treatment at the same clinical unit (18). If, for instance, there is no concordance between patients within care units, then the ICC is zero, whereas if all patients score the same value at each care unit, then the ICC equals one.

When the ICC is multiplied by 100, it can be interpreted as the percentage of variance attributed to the unit level of care.

Results

Patients receiving outpatient treatment within an inpatient setting were excluded from the analyses, which gave 6,570 (43% response rate) patients from 222 outpatient teams across 89 outpatient clinics of the 33 health trusts as respondents for this study. Compared with nonrespondents, respondents were more likely to be older and female (16). Questionnaires were returned by 1,688 clinicians. The anonymous method of data collection did not permit the calculation of the response rate for the entire sample, but in a subsample of outpatient clinics, 906 out of 973 (93%) responded to the questionnaire. It was possible to link aggregated information at the team level for 158 outpatient teams with the experiences of 5,542 patients.

Table 1 shows that the mean±SD age of patients was 39.5±12.3 years and that 68% of the sample were female. POPEQ total, outcome, and clinicians' interaction scores were close to 70, whereas the information score was about 62. The team mean clinician score ranged from 45 to 80.

Table 2 shows the variance in patients' experiences that were attributable to each of the four levels of analysis, without any other explanatory variables. The POPEQ scores were partitioned into patient level, team level, clinic level, and health trust level of care. There was significant variance between teams but not between outpatient clinics or between health trusts. However, two-level models including the patients and clinics, or the patients and health trust levels separately, showed small but significant variance at both the clinic and health trust levels.

Just 2% of the differences in the POPEQ total, outcome, and clinician interaction subscale scores were attributable to the team level, with 98% attributed to the patients' variance within teams. POPEQ scores for the information scale did not vary significantly between any of the care unit levels; that is, there was no organiza-

Table 1

Characteristics of patients surveyed about their experiences in a psychiatric care unit in Norway

Variable	N	%	M	SD
Age	6,570	100	39.5	12.3
Self-evaluated mental health ^a	6,442	98	1.1	.9
Self-evaluated physical health ^a	6,462	98	1.7	1.1
Gender				
Male	2,104	32		
Female	4,466	68		
Duration of treatment episode				
<1 month	201	3		
1–6 months	2,076	32		
>6 months	4,155	65		
Former inpatient history				
No	4,077	63		
Yes	2,370	37		
More than 1 consultation in the past 3 months				
No	483	8		
Yes	5,891	92		
Had to wait to see the physician				
No	4,763	74		
Yes	1,663	26		
Psychiatric Out-Patient Experiences				
Questionnaire scores ^b				
Total	6,555	100	68.7	18.3
Outcome	6,544	100	70.2	20.8
Clinician interaction	6,516	99	69.9	18.6
Information	6,227	95	62.3	27.4
Clinician team scores ^b				
Patient treatment	158	71	73.2	7.2
Professional competence	158	71	80.1	8.2
Time adequacy	158	71	45.5	11.8
Work environment	158	71	75.0	12.2

^a Possible scores range from 0, poor, to 4, excellent.

^b Possible scores range from 0, worst possible, to 100, best possible.

Table 2

Intraclass correlation coefficients (ICCs, in percentages) of Psychiatric Out-Patient Experiences Questionnaire (POPEQ) scores at the patient, team, outpatient clinic, and health trust levels

POPEQ scale	Patients		Team		Outpatient clinic		Health trust	
	ICC	p	ICC	p	ICC	p	ICC	p
Total score	98	<.001	2	.009	0	.295	0	.316
Outcome	98	<.001	2	.01	0	.496	0	.309
Clinician interaction	97	<.001	2	.006	0	.276	0	.259
Information	99	<.001	1	.076	0	.494	0	.212

tional contribution to the variance in this scale.

Table 3 shows parameter estimates and p values for the independent variables. With this analysis no additional variance remained between clinics or health trusts; therefore, we used two-level models, namely patients within teams. The models in Table 3 comprise patient- and team-level variables. There was a significant team-level variance, hence independent variables for care unit were used at

the team level. The teams contributed 1%–2% of the variance in POPEQ scores after the analyses controlled for patient- and team-level characteristics. There were no significant associations between any of the clinician indices and the POPEQ scales.

There was a significant concave, curvilinear association between age and POPEQ scores, with older patients having better experiences. Women reported significantly better

experiences than men for all POPEQ scores, with the exception of the information scale. Higher self-reported mental and physical health were significantly associated with better experiences, the former association being concave curvilinear and the latter being linear.

There was a significant correlation between duration of the current treatment episode and POPEQ scores. This was strongest for the outcome scale, where patients whose

Table 3

Multilevel regression analyses of the Psychiatric Out-Patient Experiences Questionnaire's total, outcome, clinician interaction, and information scales

Variable	Total score (N=5,182)		Outcome (N=5,182)		Clinician interaction (N=5,159)		Information (N=4,936)	
	B	p	B	p	B	p	B	p
Clinician team score								
Patient treatment scale	.06	.333	.07	.31	.08	.235	-.03	.742
Professional competence scale	-.02	.668	-.08	.17	-.02	.743	.06	.433
Time adequacy scale	.01	.851	.01	.775	.00	.977	.03	.537
Work environment scale	.00	.952	.02	.71	-.01	.766	.03	.58
Patient-level variable								
Age/10	2.39	<.001	1.83	<.001	1.73	<.001	5.56	<.001
Age/10 ²	-.50	<.001	-.50	<.001	-.44	<.001	-.75	<.001
Women compared with men	3.08	<.001	3.79	<.001	3.11	<.001	1.31	.096
Self-evaluated mental health	7.76	<.001	12.17	<.001	5.31	<.001	8.51	<.001
(Self-evaluated mental health) ²	-1.11	<.001	-2.17	<.001	-.55	.012	-1.32	<.001
Self-evaluated physical health	1.53	<.001	1.74	<.001	1.41	<.001	1.43	<.001
Treatment episode, 1–6 months versus <1 month	6.78	<.001	8.92	<.001	6.17	<.001	3.93	.085
Treatment episode, >6 months versus <1 month	11.97	<.001	17.25	<.001	10.72	<.001	6.41	.004
Former inpatient history versus none >1 visit versus 1 visit in the past 3 months	-3.20	<.001	-1.95	<.001	-3.31	<.001	-4.86	<.001
Did not wait for treatment versus had to wait	9.62	<.001	9.95	<.001	9.78	<.001	7.27	<.001
Did not wait for treatment versus had to wait	4.09	<.001	3.67	<.001	3.77	<.001	6.18	<.001
Variance estimate								
Team-level variance	3.79	.002	3.38	.012	5.60	<.001	3.33	.085
Patient-level variance	256.03	<.001	320.74	<.001	278.48	<.001	646.69	<.001
Intraclass correlation coefficient, team (%)	1		1		2		1	

treatment was longer than six months had better experiences compared with those in treatment for less than one month, with a difference of approximately 17 scale points. Former inpatients reported significantly poorer POPEQ scores than patients who had not been inpatients. Patients with more than one visit over the past three months had better experiences for all POPEQ scores. Patients who felt that they had to wait for treatment reported poorer POPEQ scores.

Discussion

We found that most of the differences in patients' experiences, as measured by the POPEQ, could be attributed to differences between patients rather than the care unit in which they were treated. There was some significant variance between teams but no independent variance between outpatient clinics or between trusts.

The marginal difference that was found between care units might lead to the suggestion that measures of patients' experiences and satisfaction lack the discriminatory power necessary for comparison at the organizational level, including mental health institutions. However, it is also possible that the care provided at this level is fairly uniform across organizations. Policies or guidelines that are being followed by trusts and outpatient clinics may lead to small quality differences at the organizational level. Studies of outpatient treatment have, however, found considerable variation between clinicians in their response to clinical guidelines (19).

It has been argued that many patient satisfaction studies lack reliability and validity, which casts doubt on the credibility of the findings (20). The questionnaire used in this study, the POPEQ, has good reliability and validity in terms of its power to discriminate between different groups of patients (16). However, the POPEQ did not measure substantial differences at the organizational level, even if there was a large total variance in the scale scores. In fact, the POPEQ scale of information had the largest total variance but did not have any significant variance between care units. That is, many patients were dis-

satisfied with the information provided, but this dissatisfaction was similar across care units. It follows that the large total variance in scores was not necessarily measuring quality differences in the environment that provided the treatment.

The results from this study draw attention to what may be defined as a substantial environmental context for patients. Administrative units, such as clinics, may be meaningful categories for clinicians and health service administrators in organizing services but not for assessing differences in patients' experiences. Within Norwegian mental health outpatient clinics, most patients receive individual therapy with only one clinician, and the patients have little contact with other patients in the same care units. These factors may explain why we found only minor differences between teams, whereas a study of psychosocial rehabilitation teams found 10%–25% contextual variance (15), indicating teams that work more coherently than our general outpatient teams. The low variance at the care unit level could be due to large individual practice differences within each unit and across all units. The therapist effect on treatment outcome is shown to be of high importance, as is the patient-clinician alliance (21). We were not able to assess patients' experiences for individual clinicians. Further studies are needed to determine the variance in patient satisfaction between clinicians compared with that between teams.

The results showed that almost all of the variance in patients' experiences could be attributed to differences between patients. However, we did not have data that allowed us to assess any change in patients' experiences during the treatment period. One study found considerable within-patient variance (11), which suggests that patients' experiences and satisfaction vary between each episode of care. Given that most mental health outpatients have several consultations, further analyses are needed to understand more about changes in patients' experiences during the treatment period.

Our study found low concordance

between the quality perceived by the clinicians in teams and by the patients receiving care from the same teams, which may be a consequence of the low team-level variance in patients' ratings. This finding is in contrast to other findings of clinicians' confidence in the results of patients' experiences and satisfaction studies (22). On the other hand, the low concordance may indicate that patients' and clinicians' evaluations are different and that both may contribute to the understanding of quality differences from separate viewpoints (5). This result could also indicate that clinicians buffer problems in their work environment in order to secure adequate treatment for their patients. That is, clinicians do not let their perceptions of the professional quality, competence, time adequacy, and work environment influence treatment quality, as perceived by the patients. Other studies have also reported weak or nonexistent associations between average levels of provider ratings and patients' experiences (23). One found a weak but significant association for one of several different items and scales that measured the average level of nurses' job satisfaction at the ward level and patients' experience with information (9). Another showed a significant relationship with team burnout as experienced by the clinicians and patients' satisfaction (15).

Similar to previous findings, age was positively associated with patients' experiences, and women reported better experiences than men (8,16). Health status was positively associated with patients' experiences (8,24,25). Both the frequency and duration of the current treatment episode were related to higher POPEQ scores. Former inpatients reported poorer experiences. Perceived longer waiting times were negatively related to patients' experiences (17).

The modest response rate from patients should be taken into consideration. Low response rates are a problem in mental health user surveys (26–28), and the response rate for the POPEQ was consistent with previous findings. The literature in general is not conclusive on the consequences of low response rates (29–31).

Conclusions

Aggregated results from surveys of patients' experiences and satisfaction of outpatients have limitations as a single indicator of organizational quality. Administrative units, such as teams and clinics, may not represent important environmental contexts for patients receiving care. For patients receiving individual therapy, the relationship with the clinician is likely to be more important than the organization in which the care has been provided. The results of this study suggest that patients' experiences and satisfaction data are likely to have greater applicability at the clinician level. Future research should assess inpatient change in satisfaction during a treatment episode, for instance, for purposes of evaluating alternative approaches to care delivery, including clinical trials. Provider ratings of quality cannot be substituted for patients' perceptions of quality but should also be considered when service quality is measured.

Acknowledgments and disclosures

The collection of data was funded by the Social and Health Directorate in Norway. The writing of the report was funded by the Norwegian Council for Mental Health. The views expressed are those of the authors.

The authors report no competing interests.

References

1. Powell R-A, Holloway F, Lee J, et al: Satisfaction research and the uncrowned king: challenges and future directions. *Journal of Mental Health* 13:11–20, 2004
2. Druss BG, Rosenheck RA, Stolar M: Patient satisfaction and administrative measures as indicators of the quality of mental health care. *Psychiatric Services* 50:1053–1058, 1999
3. Ruggeri M, Lasalvia A, Dall'Agnola R, et al: Development, internal consistency and reliability of the Verona Service Satisfaction Scale—European Version. EPSILON Study 7. European psychiatric services: inputs linked to outcome domains and needs. *British Journal of Psychiatry Supplement* 39:S41–S48, 2000
4. Pilgrim D, Rogers A: A confined agenda? *Journal of Mental Health* 6:539–542, 1997
5. Shannon SE, Mitchell PH, Cain KC: Patients, nurses, and physicians have differing views of quality of critical care. *Journal of Nursing Scholarship* 34:173–179, 2002
6. Williams B: Patient satisfaction: a valid concept? *Social Science and Medicine* 38:509–516, 1994
7. Salzer M: Consumer satisfaction [letter]. *Psychiatric Services* 49:1622, 1998
8. Crow R, Gage H, Hampson S, et al: The measurement of satisfaction with health-care: implications for practice from a systematic review of the literature. *Health Technology Assessment* 6:1–244, 2002
9. Veenstra M, Hofoss D: Patient experiences with information in a hospital setting: a multilevel approach. *Medical Care* 41:490–499, 2003
10. Leyland A, Goldstein H: Multilevel modeling of health statistics. New York, Wiley, 2001
11. Aiello A, Garman A, Morris SB: Patient satisfaction with nursing care: a multilevel analysis. *Quality Management in Health Care* 12:187–190, 2003
12. Franciosi M, Pellegrini F, De Berardis G, et al: Correlates of satisfaction for the relationship with their physician in type 2 diabetic patients. *Diabetes Research and Clinical Practice* 66:277–286, 2004
13. McKinley RK, Roberts C: Patient satisfaction with out of hours primary medical care. *Quality and Safety in Health Care* 10: 23–28, 2001
14. Sixma HJ, Spreeuwenberg PM, van der Pasch MA: Patient satisfaction with the general practitioner: a two-level analysis. *Medical Care* 36:212–229, 1998
15. Garman AN, Corrigan PW, Morris S: Staff burnout and patient satisfaction: evidence of relationships at the care unit level. *Journal of Occupational Health Psychology* 7:235–241, 2002
16. Garratt A, Bjørngaard JH, Aanjesen Dahle K, et al: The Psychiatric Out-Patient Experiences Questionnaire (POPEQ): data quality, reliability and validity in patients attending 90 Norwegian clinics. *Nordic Journal of Psychiatry* 60:89–96, 2006
17. Siponen U, Valimäki M: Patients' satisfaction with outpatient psychiatric care. *Journal of Psychiatric and Mental Health Nursing* 10:129–135, 2003
18. Hox J: Multilevel Analysis: Techniques and Applications. Hillsdale, NJ, Erlbaum, 2002
19. Grol R, Grimshaw J: From best evidence to best practice: effective implementation of change in patients' care. *Lancet* 362:1225–1230, 2003
20. Sitzia J: How valid and reliable are patient satisfaction data? An analysis of 195 studies. *International Journal for Quality in Health Care* 11:319–328, 1999
21. Wampold BE: *The Great Psychotherapy Debate: Models, Methods and Findings*. Hillsdale, NJ, Erlbaum, 2001
22. Valenstein M, Mitchinson A, Ronis DL, et al: Quality indicators and monitoring of mental health services: what do frontline providers think? *American Journal of Psychiatry* 161:146–153, 2004
23. Macpherson R, Jerrom B, Alexander M, et al: A survey of patient and keyworker satisfaction with the Gloucester mental health rehabilitation service. *Journal of Mental Health* 7:367–374, 1998
24. Berghofer G, Lang A, Henkel H, et al: Satisfaction of inpatients and outpatients with staff, environment, and other patients. *Psychiatric Services* 52:104–106, 2001
25. Ruggeri M, Pacati P, Goldberg D: Neurotics are dissatisfied with life, but not with services. The south Verona outcome project 7. *General Hospital Psychiatry* 25:338–344, 2003
26. Ruggeri M: Satisfaction with psychiatric services, in *Mental Health Outcome Measures*. Edited by Thornicroft G, Tansella M. Berlin, Germany, Springer, 1996
27. Rosenheck R, Wilson NJ, Meterko M: Influence of patient and hospital factors on consumer satisfaction with inpatient mental health treatment. *Psychiatric Services* 48:1553–1561, 1997
28. Hansson L: Patient satisfaction with in-hospital psychiatric care: a study of a 1-year population of patients hospitalized in a sectorized care organization. *European Archives of Psychiatry and Clinical Neuroscience* 2:93–100, 1989
29. McColl E, Jacoby A, Thomas L, et al: Design and use of questionnaires: a review of best practice applicable to surveys of health service staff and patients. *Health Technology Assessment* 5(31):1–256, 2001
30. Zwier G, Clarke D: How well do we monitor patient satisfaction? Problems with the nation-wide patient survey. *New Zealand Medical Journal* 112:371–375, 1999
31. Rubin HR: Patient evaluations of hospital care: a review of the literature. *Medical Care* 28(suppl):3–9, 1990

Paper II

Patient experiences with treatment in private practice compared with public mental health services (Online ahead of print). Bjørngaard JH, Garratt A, Gråwe R, Bjertnæs ØA, & Ruud T. *Scandinavian Journal of Psychology*, 2008.

Is not included due to copyright

Paper III

User satisfaction with child and adolescent mental health services – impact of the service unit level (Online ahead of print). Bjørngaard JH, Andersson HW, Ose SO, & Hanssen-Bauer K. *Social Psychiatry and Psychiatric Epidemiology*, 2008.

Is not included due to copyright

Paper IV

The impact of mental illness on patient satisfaction with the therapeutic relationship.

Bjørngaard JH, Ruud T, & Friis S. *Social Psychiatry and Psychiatric Epidemiology*;

42: 803-809, 2007.

Is not included due to copyright

Appendixes

- I. Questionnaire to patients aged 18 years or older who received services from outpatient clinics in Norway in September 2004.**
- II. Questionnaire to patients receiving treatment by private practitioners in the central part of Norway during a two-week period in September 2004.**
- III. Questionnaire to parents whose children had received at least one previous consultation in Child and Adolescent Mental health Services. Delivered at appointment during 19 days in May 2004 in 49 service units.**
- IV. Questionnaire to patients in eight Community Mental Health Centres over a four week period in February–March 2005.**

--	--	--	--	--	--

Hva er erfaringene dine som bruker av poliklinikk i psykisk helsevern?

Hensikten med denne undersøkelsen er at tjenestene skal bli bedre for brukere av poliklinikker i det psykiske helsevernet. Vi vil derfor gjerne høre om *erfaringene dine med den poliklinikken du for tiden går til.*

Sett kun ett kryss på hvert spørsmål. Det er fint om du kan krysse av midt i rutene. Spørreskjemaet sender du tilbake til Nasjonalt kunnskapssenter for helsetjenesten. Returkonvolutt er ferdig adressert og Kunnskapssenteret betaler porto. Alle svar blir behandlet fortrolig.

VIKTIG: Dersom du samtykker til å delta i undersøkelsen, er det viktig at du krysser av i ruten under.

JA, jeg samtykker i å delta i undersøkelsen slik den er beskrevet i følgebrevet fra Kunnskapssenteret.

1. Alt i alt, hvor fornøyd eller misfornøyd er du med tilbudet du har mottatt ved poliklinikken?

Svært misfornøyd	Ganske misfornøyd	Både og	Ganske fornøyd	Svært fornøyd
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2. Alt i alt, hvordan er erfaringene dine med tilbudet ved poliklinikken?

Mye dårligere enn forventet	Noe dårligere enn forventet	Som forventet	Noe bedre enn forventet	Mye bedre enn forventet
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Erfaringer med poliklinikken

3. Måtte du vente for å få tilbud ved poliklinikken?

Nei	Ja, men ikke lenge	Ja, ganske lenge	Ja, altfor lenge
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4. Hvor lenge har du hatt tilbud ved denne poliklinikken?

Under 1 måned	Fra 1 til 6 måneder	Fra 7 til 12 måneder	Fra 13 måneder til 3 år	Mer enn 3 år
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

5. Hvor mange ganger i løpet av de siste 3 månedene har du hatt poliklinikktime? (Svar også hvis du har gått til poliklinikken kortere enn 3 måneder.)

Bare én gang	2-5 ganger	6-12 ganger	Mer enn 12 ganger
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

6. Hva synes du om antall behandlingstimer du har fått ved poliklinikken? (Sett kun ett kryss.)

Passe antall timer	Litt for få timer	Altfor få timer	Har ikke ønsket konsultasjoner
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7. Har det vært vanskelig eller lett å få kontakt med ansatte ved poliklinikken på telefon?

Svært vanskelig	Ganske vanskelig	Både/ og	Ganske lett	Svært lett	Har ikke forsøkt å ringe
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

8. Har du blitt møtt med høflighet og respekt ved poliklinikken?

Ikke i det hele tatt	I liten grad	I noen grad	I stor grad	I svært stor grad
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

9. Hvilken behandling mener du at du har behov for ved poliklinikken? (Du kan sette flere kryss.)

Behandling med medisiner	Samtaler med én behandler	Samtaler i gruppe	Samtaler hvor dine nærmeste deltar	Treningsopplegg for å mestre plagene dine
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

10. Hvilken behandling har du mottatt ved poliklinikken? (Du kan sette flere kryss.)

Behandling med medisiner	Samtaler med en behandler	Samtaler i gruppe	Samtaler hvor dine nærmeste deltar	Treningsopplegg for å mestre plagene dine
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

11. Hvilket utbytte har du hatt av følgende behandlingsformer ved poliklinikken? (Sett kun ett kryss per linje.)

	Ikke noe utbytte	Lite utbytte	En del utbytte	Stort utbytte	Svært stort utbytte	Ikke mottatt
Behandling med medisiner	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samtaler med en behandler	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samtaler i gruppe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samtaler hvor dine nærmeste deltar	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Treningsopplegg for å mestre plagene dine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

12. Hvilket utbytte har du hatt, alt i alt, av behandlingen ved poliklinikken?

Ikke noe utbytte	Lite utbytte	En del utbytte	Stort utbytte	Svært stort utbytte
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

13. Er dine psykiske plager blitt bedre eller verre nå, sammenlignet med før behandlingen startet ved poliklinikken?

Mye bedre

Litt bedre

Verken bedre eller verre

Litt verre

Mye verre

14. Spørsmålene nedenfor gjelder den behandleren du vanligvis går til:

(Sett kun ett kryss per linje.)

Ikke i det hele tatt

I liten grad

I noen grad

I stor grad

I svært stor grad

Får du nok tid til samtaler og kontakt med behandleren din?

Opplever du at behandleren din forstår din situasjon?

Opplever du at behandlingen din er tilpasset din situasjon?

Følger behandleren din opp tiltak som planlagt?

15. Har du fått fortalt behandleren det som er viktig for deg om tilstanden din?

Ikke i det hele tatt

I liten grad

I noen grad

I stor grad

I svært stor grad

16. I hvilken grad har du hatt innflytelse på valg av behandlingsopplegg?

Ikke i det hele tatt

I liten grad

I noen grad

I stor grad

I svært stor grad

17. I hvilken grad har du ønsket innflytelse på valg av behandlingsopplegg?

Ikke i det hele tatt

I liten grad

I noen grad

I stor grad

I svært stor grad

18. Hvordan har behandleren samarbeidet med dine pårørende?

Svært
dårlig

Ganske
dårlig

Både/
og

Ganske
bra

Svært
bra

Ikke aktuelt

19. Har du hatt den behandleren du ønsker deg?

Ja

Nei

Har ikke noen
spesielle ønsker

20. Hva synes du om informasjonen du har fått om de behandlingsmulighetene som finnes for deg?

Svært
dårlig

Ganske
dårlig

Både/
og

Ganske
bra

Svært
bra

Ingen mening

21. Hva synes du om informasjonen du har fått om dine psykiske plager/din diagnose?

Svært
dårlig

Ganske
dårlig

Både/
og

Ganske
bra

Svært
bra

Ingen mening

22. Har du fått informasjon om klagemuligheter på behandlingen (fylkeslege, kontrollkommisjon og pasientombud)?

23. Har du fått informasjon om din rett til innsyn i journalen din?

24. Har medisinene mot dine psykiske plager blitt skrevet ut av lege på poliklinikken eller av andre leger?

Lege på
poliklinikken

Av andre
leger

Bruker ikke medisiner
mot psykiske plager

25. Har du hatt innflytelse på medisineringen din?

Ikke i det
hele tatt

I liten
grad

I noen
grad

I stor
grad

I svært
stor grad

Bruker ikke medisiner
mot psykiske plager

26. Har du ønsket å ha innflytelse på medisineringen din?

Ikke i det
hele tatt

I liten
grad

I noen
grad

I stor
grad

I svært
stor grad

Bruker ikke medisiner
mot psykiske plager

27. Hva synes du om informasjonen du har fått om bivirkninger av medisiner som du har begynt å bruke på poliklinikken?

Svært
dårlig

Ganske
dårlig

Både/
og

Ganske
bra

Svært
bra

Bruker ikke
medisiner mot
psykiske plager

28. Hvordan synes du poliklinikken har samarbeidet med ulike offentlige etater for å hjelpe deg med dine praktiske problemer (økonomiske problemer, bosted, praktiske løsninger osv.)?

Svært
dårlig

Ganske
dårlig

Både/
og

Ganske
bra

Svært
bra

Vet ikke/
Ikke aktuelt

29. Har behandlingen ved poliklinikken skjedd frivillig, eller har du følt deg tvunget til å delta?

Helt frivillig Ganske frivillig Både/ og Ganske tvunget Helt tvunget

30. Har du blitt behandlet nedlatende eller krenkende ved poliklinikken?

Nei, aldri Ja, én gang Ja, noen ganger Ja, ofte

Tidligere erfaringer med helsetjenesten og bakgrunnsspørsmål

31. Har du noen gang vært innlagt på en psykiatrisk døgninstitusjon?

Nei, aldri Ja, én gang Ja, mer enn én gang

32. Alt i alt, hva synes du om den hjelpen du har fått fra helsetjenesten med dine psykiske plager?

Svært dårlig Ganske dårlig Både/ og Ganske bra Svært bra

33. Stort sett, vil du si din *fysiske* helse er:

Utmerket Meget god God Nokså god Dårlig

34. Stort sett, vil du si din *psykiske* helse er:

Utmerket Meget god God Nokså god Dårlig

35. Er du mann eller kvinne?

Kvinne Mann

36. Hva er din alder? (Antall år)

37. Er du gift eller samboende?

Ja	Nei
<input type="checkbox"/>	<input type="checkbox"/>

38. Hva er din høyeste fullførte utdanning?

Grunnskole	Videregående skole	Høyskole eller universitet inntil 4 år	Høyskole eller universitet 4 år eller mer
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

39. Hva er det første språket du lærte?

Norsk	Samisk	Annet nordisk språk	Annet europeisk språk	Ikke-europeisk språk
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

40. Hvordan er din nåværende bosituasjon? (Sett kryss ved ett eller flere alternativer.)

Bor alene	Bor sammen med barn	Bor sammen med ektefelle/samboer	Bor sammen med foreldre/søsken/andre	Bor i omsorgsbolig, sykehjem, bofellesskap eller lignende	Annet
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

41. Hva gjør du til daglig? (Sett kun ett kryss.)

Yrkesaktiv	Sykemeldt	Uføretrygdet	På attføring/rehabiliteringspenger	Under utdanning	Arbeidsledig	Annet
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

42. Kunne du tenke deg å svare på et nytt spørreskjema om kort tid, dersom det blir aktuelt? Sett kryss i ruten under dersom du kunne tenke deg det.

Ja, jeg kunne tenke meg å svare på et nytt spørreskjema

Skriv gjerne ned kommentarer til skjemaet eller utdypninger av dine erfaringer her:

Tusen takk for at du tok deg tid til å svare!

Undersøkelse om pasienters erfaringer med henvisning og behandling hos privatpraktiserende spesialister

Hensikten med denne undersøkelsen er at tjenestene skal bli bedre for brukere av privatpraktiserende spesialister (psykologer og psykiatere) i Midt-Norge. Vi vil derfor gjerne høre **din** erfaring med å bli henvist til slik behandling. Undersøkelsen utføres av SINTEF Helse på oppdrag fra Helse Midt-Norge. Alle svar er anonyme. Det betyr at du ikke skal oppgi personidentifiserbare opplysninger. Din behandler vil ikke få tilgang på de utfylte skjemaene.

VIKTIG

Dersom du samtykker til å delta i undersøkelsen, er det viktig at du krysser av i ruten under.

JA, jeg samtykker i å delta i undersøkelsen.

INFORMASJON

Svarene leses inn maskinelt. Det er derfor viktig at du krysser av **inne** i ruten.

Det er fint om du kan svare på spørreskjemaet og returnere det til SINTEF i løpet av en uke.

Svaret legges i returkonvolutt, som er ferdig adressert og med porto betalt.

ERFARING MED HENVISNING

1. Hvem henviste deg til privatpraktiserende spesialist? (Sett ett kryss)

Fastlegen

Annen lege

Behandler ved poliklinikk

Behandler ved psykiatrisk sykehusavdeling/klinikk

Andre (spesifiser):

2 a. Hvorfor ble du henvist til privatpraktiserende spesialist og ikke til offentlig poliklinikk?

(Sett ett eller flere kryss)

Etter eget ønske

Etter fastlegens/legens ønske eller anbefaling

Poliklinikken hadde ikke kapasitet

Andre

2 b. Hvis du er henvist etter eget ønske - hva var grunnene til dette? (Sett ett eller flere kryss)

Behandling hos privat spesialist er mer anonymt enn på offentlig poliklinikk

Jeg tror at jeg får bedre behandling

Det er mer fleksibelt mht samtaletidspunkt (f.eks. på ettermiddag eller kveld)

Det passer meg bedre fordi det er kort vei å reise

Jeg har fått det anbefalt av andre (slekt, venner eller andre)

Jeg synes ikke at jeg er så syk at jeg trenger å gå til offentlig poliklinikk

Andre grunner (spesifiser):

3 a. Var det du selv som fant frem til en spesialist som du kunne henvises til (f eks ved å kontakte spesialistene)? (Sett ett kryss)

Ja Nei

3 b. Hvis ja – kryss av for hva du måtte gjøre for å finne frem til spesialisten: (Sett ett eller flere kryss)

Jeg skaffet meg lister/oversikt over avtalespesialister i området

Jeg ringte rundt til spesialister og spurte om ventelistedetid og om de kunne hjelpe meg

Jeg sendte forespørsel om behandling via brev eller e-post

Annet (spesifiser):

4. Hvor lang tid gikk det fra du ble henvist og til du fikk svar fra spesialisten (enten per brev eller telefon)?

(Sett ett kryss)

- Mindre enn 14 dager
- Mellom 14 dager og 1 måned
- Mellom 1 og 2 måneder
- Mellom 3 og 6 måneder
- Mer enn 6 måneder

5 a. Fikk du informasjon fra spesialisten om ventetid? (Sett ett kryss)

- Ja
- Nei

5 b. Hvis JA – var det overensstemmelse mellom den opplyste ventetiden og den virkelige ventetiden?

(Sett ett kryss)

- Ja, i stor grad
- Nei, i liten grad
- Vet ikke

6. Fikk du tilbud om forhåndssamtale/undersøkelse hos den privatpraktiserende spesialisten i ventetiden (det vil si mellom henvisning og behandlingsoppstart)? (Sett ett kryss)

- Ja
- Nei
- Uaktuelt

7. Hvor lenge måtte du faktisk vente fra henvisning til behandlingsoppstart? (Sett ett kryss)

- Mindre enn 14 dager
- Mellom 14 dager og 1 måned
- Mellom 1 og 2 måneder
- Mellom 3 og 6 måneder
- Mellom 6 og 9 måneder
- Mer enn 9 måneder

8. Hvor fornøyd eller misfornøyd har du vært med den faktiske ventetiden (fra henvisning til behandlingsoppstart)? (Sett ett kryss)

- | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Svært misfornøyd | Misfornøyd | Både og | Fornøyd | Svært fornøyd |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

9. Hva synes du om den informasjon om behandlingsmuligheter og ventetid som du fikk av din henvisende lege? (Sett ett kryss)

- | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Svært dårlig | Dårlig | Både og | Bra | Svært bra |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

10. Hva synes du om den informasjon om behandlingsmuligheter og ventetid som du har fått av den privatpraktiserende spesialisten? (Sett ett kryss)

- | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Svært dårlig | Dårlig | Både og | Bra | Svært bra |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

ERFARING MED BEHANDLINGSTILBUDET

11. Alt i alt, hvor fornøyd eller misfornøyd er du med det behandlingstilbudet du har fått? (Sett ett kryss)

Svært misfornøyd Misfornøyd Både og Fornøyd Svært fornøyd

12. Har du fått den behandleren du ønsket deg? (Sett ett kryss)

- Ja
 Nei
 Har ikke ønsket noen spesiell behandler

13. Hvor lenge har du hatt tilbud hos din privatpraktiserende spesialist? (Sett ett kryss)

- Under 1 måned
 Fra 1 til 6 måneder
 Fra 7-12 måneder
 Fra 13 måneder til 3 år
 Mer enn 3 år

14. Hvor mange ganger i løpet av de siste 3 månedene har du hatt time hos din privatpraktiserende spesialist? (Svar også om det er mindre enn 3 måneder siden du startet behandlingen.) (Sett ett kryss)

- Bare én gang
 2-5 ganger
 6-12 ganger
 Mer enn 12 ganger

15. Hva synes du om antall behandlingstimer du har fått hos din privatpraktiserende spesialist? (Sett ett kryss)

- Passe antall timer
 Litt for få timer
 Altfor få timer
 Vet ikke

16. Er du fornøyd med det initiativet din behandler har vist med hensyn til å samarbeide/ha kontakt med andre for å hjelpe deg? (Sett ett kryss på hver linje)

	Tilfreds med behandlerens initiativ	Skulle ønske det var et bedre samarbeid	Uaktuelt
Støttekontakt	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fastlege / annen primærlege	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sykepleier / annen fagperson i kommunen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sosialkontor.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Barnevernet og/eller barne- og ungdomspsykiatri.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Psykiatrisk sykehusavdeling.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Distriktpsikiatrisk senter / poliklinikk	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Somatisk sykehusavdeling / poliklinikk.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rusteam, rusavdeling.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Arbeidsgiver	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Skole / utdanningssted	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A-etat.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trygdekantor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Politi, fengsel, kriminalomsorg i frihet.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

17. Hvordan har behandleren samarbeidet med dine pårørende? (Sett ett kryss)

Svært dårlig	Dårlig	Både og	Bra	Svært bra	Ikke aktuelt
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

18. Hvilket utbytte har du hatt, alt i alt, av behandlingen hos din privatpraktiserende spesialist? (Sett ett kryss)

Ikke noe utbytte	Lite utbytte	En del utbytte	Stort utbytte	Svært stort utbytte
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

19. I hvilken grad har du hatt innflytelse på valg av behandlingsopplegg? (Sett ett kryss)

Ikke i det hele tatt	I liten grad	I noen grad	I stor grad	I svært stor grad
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

20. I hvilken grad har du ønsket innflytelse på valg av behandlingsopplegg? (Sett ett kryss)

Ikke i det hele tatt	I liten grad	I noen grad	I stor grad	I svært stor grad
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

21. Spørsmålene nedenfor gjelder den behandleren du nå går til: (Sett ett kryss per linje)

	Ikke i det hele tatt	I liten grad	I noen grad	I stor grad	I svært stor grad
Får du nok tid til samtaler og kontakt med behandleren din?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Opplever du at behandleren forstår din situasjon?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Opplever du at behandlingen din er tilpasset din situasjon?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Følger behandleren din opp tiltak som planlagt?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

TIDLIGERE BEHANDLING OG BAKGRUNNSSPØRSMÅL

22. Har du mottatt annen behandling tidligere for samme problem/lidelse? (Sett ett kryss)

- Ja
 Nei

23. Stort sett, vil du si at din psykiske helse er: (Sett ett kryss)

Utmerket	Meget god	God	Nokså god	Dårlig
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

24. Er du kvinne eller mann? (Sett ett kryss)

- Kvinne
 Mann

25. Hva er din alder? (Sett ett kryss)

- Under 18 år
 18-29 år
 30-39 år
 40-49 år
 50-59 år
 60-69 år
 70-79 år
 80 år eller mer

26. Hvilket fylke bor du i? (Sett ett kryss)

- Møre- og Romsdal
 Sør-Trøndelag
 Nord-Trøndelag

Takk for at du tok deg tid til å svare!

Spørreskjema for ungdommer og foresatte om erfaringer med poliklinikken

For å gjøre tilbudet til barn og ungdom med psykiske problemer bedre, vil man nå undersøke hva familier, barn og ungdom selv synes om det tilbudet de mottar ved de ulike poliklinikkene i landet. Med dette får du utlevert et kort spørreskjema, der du skal svare på noen spørsmål om hva du synes om det tilbudet dere får her.

Det er frivillig å delta. Vi håper imidlertid at du vil være med. Ved å fylle ut skjemaet kan du fortelle oss hva du mener om hjelpetilbudet ved poliklinikken. Det er SINTEF Helse som har ansvar for gjennomføringen av denne undersøkelsen, etter ønske fra Sosial- og helsedirektoratet.

Det er ett spørreskjema til foreldre/ foresatte, og ett til ungdom som er fylt 11 år. Etter at dere har fylt ut skjemaene skal de legges i den vedlagte svarkonvolutten og leveres til kontoransatt, evt. via behandleren.

Det er bare kontorpersoneell ved denne poliklinikken som vil kunne se hva dere svarer. De vil ta i mot spørreskjemaene fra dere og legge svarene inn på data. De svarene dere gir blir på denne måte koblet til noen av de opplysningene som ligger i pasientjournalen. Opplysninger fra dere vil bli koblet mot opplysninger om kjønn, alder, henvisningsgrunn og evt. diagnose, samt ventetid ved poliklinikken.

En datafil med disse opplysningene blir sendt til en forsker ved SINTEF Helse. I datafilen ligger det ikke opplysninger om navn eller fødselsnummer, og det vil ikke være mulig å gjenkjenne noen av de som deltar i undersøkelsen. Når prosjektet avsluttes i desember 2004, vil alle de innsamlede opplysningene bli fjernet og slettet.

Samtykkeerklæring for deltakelse i spørreskjemaundersøkelsen ved poliklinikken

Før dere fyller ut spørreskjemaet ber vi om at dere signerer en samtykkeerklæring.

Ved å underskrive her gir dere oss mulighet til å bruke svarene dere gir i vår undersøkelse.

For utfylling av skjema til foresatt.

JA, jeg samtykker i å delta i undersøkelsen slik den er beskrevet av SINTEF Helse (sett kryss)

Underskrift av foreldrefortsatt:

VIKTIG! Foresatte til barn mellom 11 og 18 år skal samtykke i at barna fyller ut et eget skjema. Dette gjøres ved at du signerer samtykkeerklæringen som er heftet ved ungdomsskjemaet

Utfylte spørreskjema legges i vedlagte svarkonvolutt sammen med dette arket.

Konvolutten skal leveres til en kontoransatt, eventuelt til behandleren.

Takk for samarbeidet!

Erfaringer med BUP-klinikken

For å gjøre tilbudet til barn og ungdom bedre, ønsker vi å få vite hvor fornøyd dere er med det tilbudet dere mottar her. I dette skjemaet kan du lese noen påstander. Vi ønsker at du svarer på om du synes de stemmer eller ikke. Dette gjør du ved å sette *kryss* for det svaret som passer best. Ikke bruk for lang tid på hvert spørsmål, men svar gjerne det som først faller deg inn. Husk å tenke på **hele** behandlingsperioden når du fyller ut, ikke bare den siste tiden.

Skjemaet fylles ut av:

- Mor/foresatt
 Far/foresatt
 Begge foresatte
 Andre:

Dato:

Utsagnet stemmer:

	Uaktuelt	Ikke/ Aldri	Ikke i særlig grad/ Sjelden	Delvis/ Av og til	I stor grad/ Ofte	Helt/ Alltid
1. Ventetiden fra henvisning til første samtale var altfor lang.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Jeg kan få kontakt med behandler utenom avtalt tid hvis det er behov for det.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Fordi vi ikke snakker samme språk, forstår behandler og jeg hverandre dårlig.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Forskjeller i kulturell bakgrunn gjør at behandler og jeg forstår hverandre dårlig.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Personalet viser omtanke og forståelse for min/vår situasjon.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Behandler har ofte for lite tid når vi møtes.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Jeg har tillit til behandler.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Jeg synes behandleren vet mye om slike problemer vi ønsker hjelp for.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Jeg har fått god informasjon om:						
9. – de undersøkelser som har blitt gjort eller skal gjøres.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. – slike problemer som barnet mitt har.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. – hvordan problemene kan behandles.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. – virkninger av medisiner som barnet mitt får eller har fått. (Uaktuelt = ikke fått medisiner)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. – hvor jeg kan henvende meg hvis jeg vil klage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Jeg har fått bestemme for lite når undersøkelser eller behandlingsopplegg har blitt planlagt.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Kritikk mot behandlingsopplegget eller personalet har blitt taklet på en dårlig måte. (Uaktuelt = ikke kommet med kritikk)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. Det virker som behandlerne ved BUP (f.eks. psykolog, lege, sosionom, pedagog eller andre) samarbeider for lite om opplegget. .	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Behandlerne ved BUP samarbeider for lite med andre fagpersoner utenom BUP, som også har kontakt med barnet.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Etter at vi kom til klinikken har barnets/ungdommens problemer blitt mindre.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19. Samtalene ved klinikken hjelper meg.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Medisiner hjelper barnet mitt. (Uaktuelt = bruker ikke medisiner)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Behandlingen hjelper barnet mitt.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22. Behandlingen hjelper familien.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23. Jeg har blitt behandlet nedlatende eller respektløst.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24. Jeg er fornøyd med hjelpen fra klinikken totalt sett.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25. Jeg kan tenke meg å anbefale andre å søke hjelp ved denne klinikken.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Oslo 14.februar 2005

**Forespørsel om samtykke til en vitenskapelig undersøkelse om:
Bidrar utbyggingen av distriktpsikiatriske sentre til bedre tjenestetilbud
og høyere brukertilfredshet?**

Hva undersøkelsen gjelder

Undersøkelsen gjelder om utbygging av distriktpsikiatriske sentre fører til bedre behandling og hjelp. Utbyggingen er en del av Opptappingsplan for psykisk helse som Stortinget har vedtatt.

Norges forskningsråd skal evaluere resultatene av opptappingsplanen, og dette prosjektet er en del av denne evalueringen. Det samles inn opplysninger i 2005 som sammenlignes med opplysninger fra 2002. Siste datainnsamling blir i 2007 med ny forespørsel til dem som har kontakt med tjenestene da.

Undersøkelsen er godkjent av Regional etisk komite for medisinsk forskning i Midt-Norge. Den er meldt til Datatilsynet via Norsk samfunnsvitenskapelig datatjeneste (NSD), og brukerorganisasjonene Mental helse Norge og Landsforeningen for pårørende i psykiatri (LPP) har også vært positive til den.

Ved å gi ditt samtykke til de ulike deler av denne undersøkelsen, kan du bidra til at myndighetene og helsetjenestene får informasjon som kan bidra til å gjøre helsetjenesten bedre. Det er bare du som kan fortelle om de erfaringene du har.

Samtykke til bruk av anonymt kodenummer

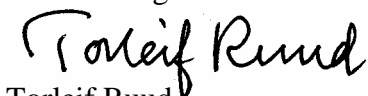
1. Vi ber deg om samtykke til at opplysninger om din tilstand og den hjelpen du mottar vinteren 2005 blir utlevert merket med et anonymt kodenummer. Opplysningene blir gitt uten personidentifiserbare opplysninger, og bare ledelsen ved institusjonen vet hvem kodenummeret gjelder. Vi trenger dette kodenummeret til å sammenholde de ulike opplysningene for samme person uten å vite hvem vedkommende er. Om du ikke gir samtykke, vil de aidentifiserte opplysningene ikke bli merket med et kodenummer som noen kjenner. Prosjektet vil bli avsluttet 31.desember 2008, og kodenøkkelene vil da bli slettet slik at datamaterialet forblir anonymt.
2. Vi ber deg også om samtykke til å gi deg et spørreskjemaet om hvordan du har det og hva du synes om den hjelpen du har fått. Du kan selv avgjøre om du vil svare på spørreskjemaet når du får det.
3. Vi ber deg om samtykke til å gi din nærmeste pårørende et spørreskjema om tilbudene du har fått.

Informasjon om undersøkelsen

Den hjelp du får fra institusjonen, er den samme enten du gir samtykke til undersøkelsen eller ikke. Du kan når som helst trekke ditt samtykke tilbake, og kodenummeret vil da bli slettet.

Dersom du ønsker informasjon om resultatene av undersøkelsen (høsten 2005), kan du gi beskjed til prosjektleder via brev, telefon eller elektronisk post (se øverst på dette arket) - eller til din behandler. Du er også velkommen til å ta kontakt med meg med spørsmål du har om undersøkelsen.

Med vennlig hilsen



Torleif Ruud
Prosjektleder



Prosjekt for evaluering av DPS-utbyggingen
SINTEF Helse, Postboks 124 Blindern, 0314 Oslo
Prosjektleder Torleif Ruud. Tlf. 9136 2750. E-post: torleif.ruud@sintef.no

Samtykke til en vitenskapelig undersøkelse om:

Bidrar utbyggingen av distriktpsikiatriske sentre til bedre tjenestetilbud og høyere brukertilfredshet?

Undertegnede har lest om undersøkelsen i brev av 14.februar 2005 fra prosjektleder Torleif Ruud.

Jeg er kjent med at jeg når som helst kan trekke mitt samtykke tilbake.

1. Jeg samtykker i at SINTEF Helse får utlevert opplysninger om min tilstand og behandling merket med et anonymt kodenummer. Opplysningene skal ikke være personidentifiserbare.

Ja Nei

Jeg samtykker i at SINTEF Helse kan gi meg et spørreskjema som ledd i undersøkelsen.

Ja Nei

Jeg samtykker i at SINTEF Helse kan gi et spørreskjema til min nærmeste pårørende om de tilbud som jeg får, og at dette kan merkes med samme anonyme kodenummer.

Ja Nei

Min nærmeste pårørende er. _____

Adresse: _____

(sted og dato)

(underskrift)

(navn med trykte bokstaver)

Dette skjema med samtykke leveres via behandler til ledelsen ved helseinstitusjonen, som oppbevarer samtykket og sikrer at institusjonen handler i samsvar med samtykket som er gitt. Prosjektleder vil ikke motta samtykket eller kopi av det, og vil derfor ikke vite hvem du er.

Institusjon

Utfylt dato (dag/måned)

 2 0 0 5

 Kodenummer bare
 om samtykke til det

Kodernr. pasient

Spørreskjema til pasienter vinteren 2005

Ved å svare på spørreskjemaet bidrar du til en evaluering av tilbudene til mennesker med psykiske plager. Resultatene vil bli brukt av helsemyndigheter og helsetjenester for å forbedre tilbudene om behandling og hjelp.

 Kjønn Kvinne Mann

Fødselsår

Hvilke tilbud har du hatt vinter 2005?

-
- Poliklinisk tilbud
-
-
- Dagtilbud
-
-
- Døgnopphold
-
-
- Hjelp fra team som kom til deg

 1. Er kontakten avsluttet? Ja Nei

 2. Har du vært tvangsinnlagt denne vinteren (2005)? Ja Nei

 3. Har du fått medisiner etter vedtak om tvangsbehandling? Ja Nei

Først er det noen spørsmål om hvor fornøyd du er med ulike områder i livet slik det er nå

For hvert område i livet som er nevnt nedenfor setter du kryss i den boksen som best beskriver hvordan du har det nå med denne delen av livet. Skalaen for hver av de sju ulike svarene (boksene) står øverst under tallene. Du kan sende oss det utfylte spørreskjemaet i den vedlagte svarkonvolutten eller levere det til senteret i konvolutten.

Sett ett kryss på hver linje.	1 Kunne ikke ha vært verre	2 Mis- fornøyd	3 For det meste mis- fornøyd	4 Blandet- både fornøyd og misfornøyd	5 For det meste fornøyd	6 For- nøyd	7 Kunne ikke ha vært bedre
1 Hvor fornøyd er du med livet ditt samlet sett?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Hvor fornøyd er du med arbeidet ditt eller din daglige virksomhet (arbeid, opplæring, studier o.l.) - <u>eller</u> hvor fornøyd er du med å være uten arbeid eller pensjonert?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Hvor fornøyd er du med utdanningen din?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Hvor fornøyd er du med økonomien din?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Hvor fornøyd er du med hvor mange venner du har?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8 Hvor fornøyd er du med forholdet til vennene dine?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9 Hvor fornøyd er du med fritiden din?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10 Hvor fornøyd er du med boligen din?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11 Hvor fornøyd er du med området/ nabolaget der du bor?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12 Hvor fornøyd er du med din personlige trygghet?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13 Hvor fornøyd er du med dem du bor sammen med? - <u>eller</u> hvor fornøyd er du med å bo alene?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14 Hvor fornøyd er du med ditt forhold til ektefelle/ samboer/ partner? - <u>eller</u> hvor fornøyd er du med å ikke ha noen ektefelle/samboer/ partner?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15 Hvor fornøyd er du med ditt seksualliv?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16 Hvor fornøyd er du med forholdet til familien din?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17 Hvor fornøyd er du med din fysiske helse?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18 Hvor fornøyd er du med din psykiske helse?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Så følger noen spørsmål om problem eller plager de siste to ukene

Angi hvor mye hvert enkelt problem har plaget deg eller vært til besvær i løpet av de siste 14 dagene. Sett ett kryss på hver linje.	Ikke plaget	Litt plaget	Ganske mye plaget	Veldig mye plaget
1 Matthet eller svimmelhet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Plutselig frykt uten grunn	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Stadig redd eller engstelig	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Følelse av å være anspent, oppjaget	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Lett å klandre seg selv	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6 Søvnproblemer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Føle håpløshet med tanke på framtiden	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8 Nedtrykt, tungsindig	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9 Følelse av at alt er et slit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10 Følelse av å være unyttig	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Resten gjelder din vurdering av de tilbud du har fått ved denne institusjonen vinteren 2005

Hva synes du om den informasjonen du har fått fra dine behandlere om de ulike forhold nedenfor?	1 Svært dårlig	2 Ganske dårlig	3 Blandet, både-og	4 Ganske bra	5 Svært bra
1. Om diagnose og de plagene du har	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Om de behandlingsmuligheter som finnes for deg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Om medikamenter (virkninger, bivirkninger og hvor lenge du måtte regne med å bruke dem)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Om din rett til å få innsyn in journalen din	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Om din rett til å få journalført egne ønsker/synspunkt	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Om hvor du kunne klage på det tilbudet du fikk (fylkeslege, kontrollkommisjon, pasientombud)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Hvordan har behandlerne vært når det gjelder . . .	1 Svært dårlig	2 Ganske dårlig	3 Blandet, både-og	4 Ganske bra	5 Svært bra
1. Å gi seg nok tid til samtaler og kontakt	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Evne til å lytte og forstå	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Oppfølging av tiltak som er planlagt eller avtalt	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Respekt for dine synspunkter og meninger	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Samarbeid innbyrdes med hverandre	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Din mulighet til å påvirke hvem du fikk som behandler	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Om du har hatt behandlingskontakt over lengre tid eller med flere poster eller polikliniske team	0 Ikke vært aktuelt	1 I svært liten grad	2 I liten grad	3 I noen grad	4 I stor grad	5 I svært stor grad
1. Har fått beholde samme hovedbehandler eller terapeut over lengre tid	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Hvor godt primærhelsetjenesten og psykiatrien samarbeider om mine tilbud	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Har fått beholde samme behandler ved overføring til en annen post / annet team	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Hvor godt samarbeidet har vært mellom enhetene ved overføring til annet team	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Hvor mye hjelp har du fått med . . .	0 Hadde ikke slikt problem	1 Svært lite	2 Ganske lite	3 Hverken lite eller mye	4 Ganske mye	5 Svært mye
1. Forholdet til deg selv og ditt selvbilde	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Kunnskap om sykdommen din	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Å redusere symptomer og plager	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Å lære å mestre symptomer og plager	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Forholdet til dine nærmeste	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Forholdet til andre mennesker	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Å fungere bedre praktisk i det daglige	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Å bedre din arbeidsevne	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Å bedre din fysiske form og fysiske helse	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Hvilket utbytte synes du at du har hatt av de formene for behandling eller hjelp som er nevnt nedenfor? Sett bare ett kryss på hver linje	Om du <u>har</u> mottatt slik behandling				Om du <u>ikke</u> har mottatt slik behandling	
	1 Ikke noe utbytte	2 Lite utbytte	3 Stort utbytte	4 Svært stort utbytte	0 Har ikke ønsket det	5 Hadde ønsket å få det
1. Undersøkelse og utredning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Råd om spørsmål jeg har hatt	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Behandling med medikamenter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Samtalebehandling, psykoterapi	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Gruppesamtaler, gruppeterapi	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Familiesamtaler, parsamtaler	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Krisehjelp, akutt hjelp	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Trening i å omgås andre mennesker	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Trening i å klare meg selv praktisk	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Delta i fysiske aktiviteter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Musikkterapi, billedterapi og lignende	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Hjelp og støtte til mine pårørende	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Noen spørsmål om individuell plan	Ja	Nei	Noen andre spørsmål	Ja	Nei
1. Har du hørt om retten til å ha en individuell plan?	<input type="checkbox"/>	<input type="checkbox"/>	1. Var det akseptabel ventetid for å få tilbud her?	<input type="checkbox"/>	<input type="checkbox"/>
2. Har du gitt samtykke til å ha en plan?	<input type="checkbox"/>	<input type="checkbox"/>	2. Har du vært utsatt for krenkende uttalelser fra behandlere / personale?	<input type="checkbox"/>	<input type="checkbox"/>
4. Har du en skriftlig individuell plan?	<input type="checkbox"/>	<input type="checkbox"/>	3. Har du vært utsatt for krenkende handlinger fra behandlere / personale?	<input type="checkbox"/>	<input type="checkbox"/>

Noen spørsmål om individuell plan. Disse besvares bare dersom du har en individuell plan. Bruk skalaen til høyre og sett ett kryss på hver linje	1 I svært liten grad	2 I liten grad	3 I noen grad	4 I stor grad	5 I svært stor grad
1. Hvor mye innflytelse hadde du på innholdet i planen?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Har planen gitt deg bedre oversikt over tilbudene?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Er du fornøyd med hva planen inneholder?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Blir planen gjennomført som planlagt?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Har planen ført til bedre tilbud og hjelp?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Om du var innlagt som døgnpasient, hvordan var . .	1 Svært dårlig	2 Ganske dårlig	3 Blandet, både-og	4 Ganske bra	5 Svært bra
1. Din mulighet til å være for deg selv	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Din bevegelsesfrihet i posten eller avdelingen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Din mulighet for meningsfulle aktiviteter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Tilstrekkelig mulighet for samtaler med personalet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Din mulighet til å ha kontakt med andre pasienter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Her er noen få oppsummerende spørsmål til slutt

Alt i alt, hvor fornøyd eller misfornøyd er du med tilbudet du har mottatt ved senteret?

- 1 Svært misfornøyd
 2 Ganske misfornøyd
 3 Både og
 4 Ganske fornøyd
 5 Svært fornøyd

Alt i alt, hvordan er erfaringene dine med tilbudet ved senteret?

- 1 Mye dårligere enn forventet
 2 Noe fårligere enn forventet
 3 Som forventet
 4 Noe bedre enn forventet
 5 Mye bedre enn forventet

Hvilket utbytte har du hatt, alt i alt, av behandlingen ved senteret?

- 1 Ikke noe utbytte
 2 Lite utbytte
 3 En del utbytte
 4 Stort utbytte
 5 Svært stort utbytte

I hvilken grad har du hatt innflytelse på valg av behandlingsopplegg?

- 1 Ikke i det hele tatt
 2 I liten grad
 3 I noen grad
 4 I stor grad
 5 I svært stor grad

I hvilken grad har du ønsket innflytelse på valg av behandlingsopplegg?

- 1 Ikke i det hele tatt
 2 I liten grad
 3 I noen grad
 4 I stor grad
 5 I svært stor grad

Har behandlingen skjedd frivillig, eller har du følt deg tvunget til å delta?

- 1 Helt frivillig
 2 Ganske frivillig
 3 Både og
 4 Ganske tvungent
 5 Helt tvungent

Om du vil skrive noe med egne ord om erfaringene dine med tilbudet, kan du gjøre det her:

Vennligst se etter om du har svart på alle spørsmålene før du legger skjemaet i komvolutten.

Takk for at du har formidlet dine erfaringer og synspunkter ved å fylle ut spørreskjemaet!

Dissertations at the Faculty of Medicine, NTNU

1977

1. Knut Joachim Berg: EFFECT OF ACETYLSALICYLIC ACID ON RENAL FUNCTION
2. Karl Erik Viken and Arne Ødegaard: STUDIES ON HUMAN MONOCYTES CULTURED *IN VITRO*

1978

3. Karel Bjørn Cyvin: CONGENITAL DISLOCATION OF THE HIP JOINT.
4. Alf O. Brubakk: METHODS FOR STUDYING FLOW DYNAMICS IN THE LEFT VENTRICLE AND THE AORTA IN MAN.

1979

5. Geirmund Unsgaard: CYTOSTATIC AND IMMUNOREGULATORY ABILITIES OF HUMAN BLOOD MONOCYTES CULTURED IN VITRO

1980

6. Størker Jørstad: URAEMIC TOXINS
7. Arne Olav Jenssen: SOME RHEOLOGICAL, CHEMICAL AND STRUCTURAL PROPERTIES OF MUCOID SPUTUM FROM PATIENTS WITH CHRONIC OBSTRUCTIVE BRONCHITIS

1981

8. Jens Hammerstrøm: CYTOSTATIC AND CYTOLYTIC ACTIVITY OF HUMAN MONOCYTES AND EFFUSION MACROPHAGES AGAINST TUMOR CELLS *IN VITRO*

1983

9. Tore Syversen: EFFECTS OF METHYLMERCURY ON RAT BRAIN PROTEIN.
10. Torbjørn Iversen: SQUAMOUS CELL CARCINOMA OF THE VULVA.

1984

11. Tor-Erik Widerøe: ASPECTS OF CONTINUOUS AMBULATORY PERITONEAL DIALYSIS.
12. Anton Hole: ALTERATIONS OF MONOCYTE AND LYMPHOCYTE FUNCTIONS IN REACTION TO SURGERY UNDER EPIDURAL OR GENERAL ANAESTHESIA.
13. Terje Terjesen: FRACTURE HEALING AND STRESS-PROTECTION AFTER METAL PLATE FIXATION AND EXTERNAL FIXATION.
14. Carsten Saunte: CLUSTER HEADACHE SYNDROME.
15. Inggard Lereim: TRAFFIC ACCIDENTS AND THEIR CONSEQUENCES.
16. Bjørn Magne Eggen: STUDIES IN CYTOTOXICITY IN HUMAN ADHERENT MONONUCLEAR BLOOD CELLS.
17. Trond Haug: FACTORS REGULATING BEHAVIORAL EFFECTS OF DRUGS.

1985

18. Sven Erik Gisvold: RESUSCITATION AFTER COMPLETE GLOBAL BRAIN ISCHEMIA.
19. Terje Espevik: THE CYTOSKELETON OF HUMAN MONOCYTES.
20. Lars Bevanger: STUDIES OF THE Ibc (c) PROTEIN ANTIGENS OF GROUP B STREPTOCOCCI.
21. Ole-Jan Iversen: RETROVIRUS-LIKE PARTICLES IN THE PATHOGENESIS OF PSORIASIS.
22. Lasse Eriksen: EVALUATION AND TREATMENT OF ALCOHOL DEPENDENT BEHAVIOUR.
23. Per I. Lundmo: ANDROGEN METABOLISM IN THE PROSTATE.

1986

24. Dagfinn Berntzen: ANALYSIS AND MANAGEMENT OF EXPERIMENTAL AND CLINICAL PAIN.
25. Odd Arnold Kildahl-Andersen: PRODUCTION AND CHARACTERIZATION OF MONOCYTE-DERIVED CYTOTOXIN AND ITS ROLE IN MONOCYTE-MEDIATED CYTOTOXICITY.
26. Ola Dale: VOLATILE ANAESTHETICS.

1987

27. Per Martin Kleveland: STUDIES ON GASTRIN.
28. Audun N. Øksendal: THE CALCIUM PARADOX AND THE HEART.
29. Vilhjalmur R. Finsen: HIP FRACTURES

1988

30. Rigmor Austgulen: TUMOR NECROSIS FACTOR: A MONOCYTE-DERIVED REGULATOR OF CELLULAR GROWTH.
31. Tom-Harald Edna: HEAD INJURIES ADMITTED TO HOSPITAL.
32. Joseph D. Borsi: NEW ASPECTS OF THE CLINICAL PHARMACOKINETICS OF METHOTREXATE.

33. Olav F. M. Sellevold: GLUCOCORTICOIDS IN MYOCARDIAL PROTECTION.
 34. Terje Skjærpe: NONINVASIVE QUANTITATION OF GLOBAL PARAMETERS ON LEFT VENTRICULAR FUNCTION: THE SYSTOLIC PULMONARY ARTERY PRESSURE AND CARDIAC OUTPUT.
 35. Eyvind Rødahl: STUDIES OF IMMUNE COMPLEXES AND RETROVIRUS-LIKE ANTIGENS IN PATIENTS WITH ANKYLOSING SPONDYLITIS.
 36. Ketil Thorstensen: STUDIES ON THE MECHANISMS OF CELLULAR UPTAKE OF IRON FROM TRANSFERRIN.
 37. Anna Midelfart: STUDIES OF THE MECHANISMS OF ION AND FLUID TRANSPORT IN THE BOVINE CORNEA.
 38. Eirik Helseth: GROWTH AND PLASMINOGEN ACTIVATOR ACTIVITY OF HUMAN GLIOMAS AND BRAIN METASTASES - WITH SPECIAL REFERENCE TO TRANSFORMING GROWTH FACTOR BETA AND THE EPIDERMAL GROWTH FACTOR RECEPTOR.
 39. Petter C. Borchgrevink: MAGNESIUM AND THE ISCHEMIC HEART.
 40. Kjell-Arne Rein: THE EFFECT OF EXTRACORPOREAL CIRCULATION ON SUBCUTANEOUS TRANSCAPILLARY FLUID BALANCE.
 41. Arne Kristian Sandvik: RAT GASTRIC HISTAMINE.
 42. Carl Bredo Dahl: ANIMAL MODELS IN PSYCHIATRY.
- 1989
43. Torbjørn A. Fredriksen: CERVICOGENIC HEADACHE.
 44. Rolf A. Walstad: CEFTAZIDIME.
 45. Rolf Salvesen: THE PUPIL IN CLUSTER HEADACHE.
 46. Nils Petter Jørgensen: DRUG EXPOSURE IN EARLY PREGNANCY.
 47. Johan C. Ræder: PREMEDICATION AND GENERAL ANAESTHESIA IN OUTPATIENT GYNECOLOGICAL SURGERY.
 48. M. R. Shalaby: IMMUNOREGULATORY PROPERTIES OF TNF- α AND THE RELATED CYTOKINES.
 49. Anders Waage: THE COMPLEX PATTERN OF CYTOKINES IN SEPTIC SHOCK.
 50. Bjarne Christian Eriksen: ELECTROSTIMULATION OF THE PELVIC FLOOR IN FEMALE URINARY INCONTINENCE.
 51. Tore B. Halvorsen: PROGNOSTIC FACTORS IN COLORECTAL CANCER.
- 1990
52. Asbjørn Nordby: CELLULAR TOXICITY OF ROENTGEN CONTRAST MEDIA.
 53. Kåre E. Tvedt: X-RAY MICROANALYSIS OF BIOLOGICAL MATERIAL.
 54. Tore C. Stiles: COGNITIVE VULNERABILITY FACTORS IN THE DEVELOPMENT AND MAINTENANCE OF DEPRESSION.
 55. Eva Hofsløi: TUMOR NECROSIS FACTOR AND MULTIDRUG RESISTANCE.
 56. Helge S. Haarstad: TROPHIC EFFECTS OF CHOLECYSTOKININ AND SECRETIN ON THE RAT PANCREAS.
 57. Lars Engebretsen: TREATMENT OF ACUTE ANTERIOR CRUCIATE LIGAMENT INJURIES.
 58. Tarjei Rygnestad: DELIBERATE SELF-POISONING IN TRONDHEIM.
 59. Arne Z. Henriksen: STUDIES ON CONSERVED ANTIGENIC DOMAINS ON MAJOR OUTER MEMBRANE PROTEINS FROM ENTEROBACTERIA.
 60. Steinar Westin: UNEMPLOYMENT AND HEALTH: Medical and social consequences of a factory closure in a ten-year controlled follow-up study.
 61. Ylva Sahlin: INJURY REGISTRATION, a tool for accident preventive work.
 62. Helge Bjørnstad Pettersen: BIOSYNTHESIS OF COMPLEMENT BY HUMAN ALVEOLAR MACROPHAGES WITH SPECIAL REFERENCE TO SARCOIDOSIS.
 63. Berit Schei: TRAPPED IN PAINFUL LOVE.
 64. Lars J. Vatten: PROSPECTIVE STUDIES OF THE RISK OF BREAST CANCER IN A COHORT OF NORWEGIAN WOMAN.
- 1991
65. Kåre Bergh: APPLICATIONS OF ANTI-C5a SPECIFIC MONOCLONAL ANTIBODIES FOR THE ASSESSMENT OF COMPLEMENT ACTIVATION.
 66. Svein Svenningsen: THE CLINICAL SIGNIFICANCE OF INCREASED FEMORAL ANTEVERSION.
 67. Olbjørn Klepp: NONSEMINOMATOUS GERM CELL TESTIS CANCER: THERAPEUTIC OUTCOME AND PROGNOSTIC FACTORS.

68. Trond Sand: THE EFFECTS OF CLICK POLARITY ON BRAINSTEM AUDITORY EVOKED POTENTIALS AMPLITUDE, DISPERSION, AND LATENCY VARIABLES.
 69. Kjetil B. Åsbakk: STUDIES OF A PROTEIN FROM PSORIATIC SCALE, PSO P27, WITH RESPECT TO ITS POTENTIAL ROLE IN IMMUNE REACTIONS IN PSORIASIS.
 70. Arnulf Hestnes: STUDIES ON DOWN'S SYNDROME.
 71. Randi Nygaard: LONG-TERM SURVIVAL IN CHILDHOOD LEUKEMIA.
 72. Bjørn Hagen: THIO-TEPA.
 73. Svein Anda: EVALUATION OF THE HIP JOINT BY COMPUTED TOMOGRAPHY AND ULTRASONOGRAPHY.
- 1992
74. Martin Svartberg: AN INVESTIGATION OF PROCESS AND OUTCOME OF SHORT-TERM PSYCHODYNAMIC PSYCHOTHERAPY.
 75. Stig Arild Slørdahl: AORTIC REGURGITATION.
 76. Harold C Sexton: STUDIES RELATING TO THE TREATMENT OF SYMPTOMATIC NON-PSYCHOTIC PATIENTS.
 77. Maurice B. Vincent: VASOACTIVE PEPTIDES IN THE OCULAR/FOREHEAD AREA.
 78. Terje Johannessen: CONTROLLED TRIALS IN SINGLE SUBJECTS.
 79. Turid Nilsen: PYROPHOSPHATE IN HEPATOCYTE IRON METABOLISM.
 80. Olav Haraldseth: NMR SPECTROSCOPY OF CEREBRAL ISCHEMIA AND REPERFUSION IN RAT.
 81. Eiliv Brenna: REGULATION OF FUNCTION AND GROWTH OF THE OXYNTIC MUCOSA.
- 1993
82. Gunnar Bovim: CERVICOGENIC HEADACHE.
 83. Jarl Arne Kahn: ASSISTED PROCREATION.
 84. Bjørn Naume: IMMUNOREGULATORY EFFECTS OF CYTOKINES ON NK CELLS.
 85. Rune Wiseth: AORTIC VALVE REPLACEMENT.
 86. Jie Ming Shen: BLOOD FLOW VELOCITY AND RESPIRATORY STUDIES.
 87. Piotr Kruszewski: SUNCT SYNDROME WITH SPECIAL REFERENCE TO THE AUTONOMIC NERVOUS SYSTEM.
 88. Mette Haase Moen: ENDOMETRIOSIS.
 89. Anne Vik: VASCULAR GAS EMBOLISM DURING AIR INFUSION AND AFTER DECOMPRESSION IN PIGS.
 90. Lars Jacob Stovner: THE CHIARI TYPE I MALFORMATION.
 91. Kjell Å. Salvesen: ROUTINE ULTRASONOGRAPHY IN UTERO AND DEVELOPMENT IN CHILDHOOD.
- 1994
92. Nina-Beate Liabakk: DEVELOPMENT OF IMMUNOASSAYS FOR TNF AND ITS SOLUBLE RECEPTORS.
 93. Sverre Helge Torp: *erbB* ONCOGENES IN HUMAN GLIOMAS AND MENINGIOMAS.
 94. Olav M. Linaker: MENTAL RETARDATION AND PSYCHIATRY. Past and present.
 95. Per Oscar Feet: INCREASED ANTIDEPRESSANT AND ANTIPANIC EFFECT IN COMBINED TREATMENT WITH DIXYRAZINE AND TRICYCLIC ANTIDEPRESSANTS.
 96. Stein Olav Samstad: CROSS SECTIONAL FLOW VELOCITY PROFILES FROM TWO-DIMENSIONAL DOPPLER ULTRASOUND: Studies on early mitral blood flow.
 97. Bjørn Backe: STUDIES IN ANTENATAL CARE.
 98. Gerd Inger Ringdal: QUALITY OF LIFE IN CANCER PATIENTS.
 99. Torvid Kiserud: THE DUCTUS VENOSUS IN THE HUMAN FETUS.
 100. Hans E. Fjøsne: HORMONAL REGULATION OF PROSTATIC METABOLISM.
 101. Eylert Brodtkorb: CLINICAL ASPECTS OF EPILEPSY IN THE MENTALLY RETARDED.
 102. Roar Juul: PEPTIDERGIC MECHANISMS IN HUMAN SUBARACHNOID HEMORRHAGE.
 103. Unni Syversen: CHROMOGRANIN A. Physiological and Clinical Role.
- 1995
104. Odd Gunnar Brakstad: THERMOSTABLE NUCLEASE AND THE *nuc* GENE IN THE DIAGNOSIS OF *Staphylococcus aureus* INFECTIONS.
 105. Terje Egan: NUCLEAR MAGNETIC RESONANCE (NMR) SPECTROSCOPY OF PLASMA IN MALIGNANT DISEASE.
 106. Kirsten Rasmussen: VIOLENCE IN THE MENTALLY DISORDERED.
 107. Finn Egil Skjeldstad: INDUCED ABORTION: Timetrends and Determinants.
 108. Roar Stenseth: THORACIC EPIDURAL ANALGESIA IN AORTOCORONARY BYPASS SURGERY.

109. Arild Faxvaag: STUDIES OF IMMUNE CELL FUNCTION *in mice infected with MURINE RETROVIRUS*.
1996
110. Svend Aakhus: NONINVASIVE COMPUTERIZED ASSESSMENT OF LEFT VENTRICULAR FUNCTION AND SYSTEMIC ARTERIAL PROPERTIES. Methodology and some clinical applications.
111. Klaus-Dieter Bolz: INTRAVASCULAR ULTRASONOGRAPHY.
112. Petter Aadahl: CARDIOVASCULAR EFFECTS OF THORACIC AORTIC CROSS-CLAMPING.
113. Sigurd Steinshamn: CYTOKINE MEDIATORS DURING GRANULOCYTOPENIC INFECTIONS.
114. Hans Stifoss-Hanssen: SEEKING MEANING OR HAPPINESS?
115. Anne Kvikstad: LIFE CHANGE EVENTS AND MARITAL STATUS IN RELATION TO RISK AND PROGNOSIS OF CANCER.
116. Torbjørn Grøntvedt: TREATMENT OF ACUTE AND CHRONIC ANTERIOR CRUCIATE LIGAMENT INJURIES. A clinical and biomechanical study.
117. Sigrid Hørven Wigors: CLINICAL STUDIES OF FIBROMYALGIA WITH FOCUS ON ETIOLOGY, TREATMENT AND OUTCOME.
118. Jan Schjøtt: MYOCARDIAL PROTECTION: Functional and Metabolic Characteristics of Two Endogenous Protective Principles.
119. Marit Martinussen: STUDIES OF INTESTINAL BLOOD FLOW AND ITS RELATION TO TRANSITIONAL CIRCULATORY ADAPATION IN NEWBORN INFANTS.
120. Tomm B. Müller: MAGNETIC RESONANCE IMAGING IN FOCAL CEREBRAL ISCHEMIA.
121. Rune Haaverstad: OEDEMA FORMATION OF THE LOWER EXTREMITIES.
122. Magne Børset: THE ROLE OF CYTOKINES IN MULTIPLE MYELOMA, WITH SPECIAL REFERENCE TO HEPATOCYTE GROWTH FACTOR.
123. Geir Smedslund: A THEORETICAL AND EMPIRICAL INVESTIGATION OF SMOKING, STRESS AND DISEASE: RESULTS FROM A POPULATION SURVEY.
1997
124. Torstein Vik: GROWTH, MORBIDITY, AND PSYCHOMOTOR DEVELOPMENT IN INFANTS WHO WERE GROWTH RETARDED *IN UTERO*.
125. Siri Forsmo: ASPECTS AND CONSEQUENCES OF OPPORTUNISTIC SCREENING FOR CERVICAL CANCER. Results based on data from three Norwegian counties.
126. Jon S. Skranes: CEREBRAL MRI AND NEURODEVELOPMENTAL OUTCOME IN VERY LOW BIRTH WEIGHT (VLBW) CHILDREN. A follow-up study of a geographically based year cohort of VLBW children at ages one and six years.
127. Knut Bjørnstad: COMPUTERIZED ECHOCARDIOGRAPHY FOR EVALUTION OF CORONARY ARTERY DISEASE.
128. Grethe Elisabeth Borchgrevink: DIAGNOSIS AND TREATMENT OF WHIPLASH/NECK SPRAIN INJURIES CAUSED BY CAR ACCIDENTS.
129. Tor Elsås: NEUROPEPTIDES AND NITRIC OXIDE SYNTHASE IN OCULAR AUTONOMIC AND SENSORY NERVES.
130. Rolf W. Gråwe: EPIDEMIOLOGICAL AND NEUROPSYCHOLOGICAL PERSPECTIVES ON SCHIZOPHRENIA.
131. Tonje Strømholm: CEREBRAL HAEMODYNAMICS DURING THORACIC AORTIC CROSSCLAMPING. An experimental study in pigs.
1998
132. Martinus Bråten: STUDIES ON SOME PROBLEMS REALTED TO INTRAMEDULLARY NAILING OF FEMORAL FRACTURES.
133. Ståle Nordgård: PROLIFERATIVE ACTIVITY AND DNA CONTENT AS PROGNOSTIC INDICATORS IN ADENOID CYSTIC CARCINOMA OF THE HEAD AND NECK.
134. Egil Lien: SOLUBLE RECEPTORS FOR TNF AND LPS: RELEASE PATTERN AND POSSIBLE SIGNIFICANCE IN DISEASE.
135. Marit Bjørngaas: HYPOGLYCAEMIA IN CHILDREN WITH DIABETES MELLITUS
136. Frank Skorpen: GENETIC AND FUNCTIONAL ANALYSES OF DNA REPAIR IN HUMAN CELLS.
137. Juan A. Pareja: SUNCT SYNDROME. ON THE CLINICAL PICTURE. ITS DISTINCTION FROM OTHER, SIMILAR HEADACHES.
138. Anders Angelsen: NEUROENDOCRINE CELLS IN HUMAN PROSTATIC CARCINOMAS AND THE PROSTATIC COMPLEX OF RAT, GUINEA PIG, CAT AND DOG.

139. Fabio Antonaci: CHRONIC PAROXYSMAL HEMICRANIA AND HEMICRANIA CONTINUA: TWO DIFFERENT ENTITIES?
140. Sven M. Carlsen: ENDOCRINE AND METABOLIC EFFECTS OF METFORMIN WITH SPECIAL EMPHASIS ON CARDIOVASCULAR RISK FACTORES.
1999
141. Terje A. Murberg: DEPRESSIVE SYMPTOMS AND COPING AMONG PATIENTS WITH CONGESTIVE HEART FAILURE.
142. Harm-Gerd Karl Blaas: THE EMBRYONIC EXAMINATION. Ultrasound studies on the development of the human embryo.
143. Noèmi Becser Andersen: THE CEPHALIC SENSORY NERVES IN UNILATERAL HEADACHES. Anatomical background and neurophysiological evaluation.
144. Eli-Janne Fiskerstrand: LASER TREATMENT OF PORT WINE STAINS. A study of the efficacy and limitations of the pulsed dye laser. Clinical and morfological analyses aimed at improving the therapeutic outcome.
145. Bård Kulseng: A STUDY OF ALGINATE CAPSULE PROPERTIES AND CYTOKINES IN RELATION TO INSULIN DEPENDENT DIABETES MELLITUS.
146. Terje Haug: STRUCTURE AND REGULATION OF THE HUMAN UNG GENE ENCODING URACIL-DNA GLYCOSYLASE.
147. Heidi Brurok: MANGANESE AND THE HEART. A Magic Metal with Diagnostic and Therapeutic Possibilites.
148. Agnes Kathrine Lie: DIAGNOSIS AND PREVALENCE OF HUMAN PAPILLOMAVIRUS INFECTION IN CERVICAL INTRAEPITELIAL NEOPLASIA. Relationship to Cell Cycle Regulatory Proteins and HLA DQBI Genes.
149. Ronald Mårvik: PHARMACOLOGICAL, PHYSIOLOGICAL AND PATHOPHYSIOLOGICAL STUDIES ON ISOLATED STOMACS.
150. Ketil Jarl Holen: THE ROLE OF ULTRASONOGRAPHY IN THE DIAGNOSIS AND TREATMENT OF HIP DYSPLASIA IN NEWBORNS.
151. Irene Hetlevik: THE ROLE OF CLINICAL GUIDELINES IN CARDIOVASCULAR RISK INTERVENTION IN GENERAL PRACTICE.
152. Katarina Tunòn: ULTRASOUND AND PREDICTION OF GESTATIONAL AGE.
153. Johannes Soma: INTERACTION BETWEEN THE LEFT VENTRICLE AND THE SYSTEMIC ARTERIES.
154. Arild Aamodt: DEVELOPMENT AND PRE-CLINICAL EVALUATION OF A CUSTOM-MADE FEMORAL STEM.
155. Agnar Tegnander: DIAGNOSIS AND FOLLOW-UP OF CHILDREN WITH SUSPECTED OR KNOWN HIP DYSPLASIA.
156. Bent Indredavik: STROKE UNIT TREATMENT: SHORT AND LONG-TERM EFFECTS
157. Jolanta Vanagaite Vingen: PHOTOPHOBIA AND PHONOPHOBIA IN PRIMARY HEADACHES
- 2000
158. Ola Dalsegg Sæther: PATHOPHYSIOLOGY DURING PROXIMAL AORTIC CROSS-CLAMPING CLINICAL AND EXPERIMENTAL STUDIES
159. xxxxxxxxx (blind number)
160. Christina Vogt Isaksen: PRENATAL ULTRASOUND AND POSTMORTEM FINDINGS – A TEN YEAR CORRELATIVE STUDY OF FETUSES AND INFANTS WITH DEVELOPMENTAL ANOMALIES.
161. Holger Seidel: HIGH-DOSE METHOTREXATE THERAPY IN CHILDREN WITH ACUTE LYMPHOCYTIC LEUKEMIA: DOSE, CONCENTRATION, AND EFFECT CONSIDERATIONS.
162. Stein Hallan: IMPLEMENTATION OF MODERN MEDICAL DECISION ANALYSIS INTO CLINICAL DIAGNOSIS AND TREATMENT.
163. Malcolm Sue-Chu: INVASIVE AND NON-INVASIVE STUDIES IN CROSS-COUNTRY SKIERS WITH ASTHMA-LIKE SYMPTOMS.
164. Ole-Lars Brekke: EFFECTS OF ANTIOXIDANTS AND FATTY ACIDS ON TUMOR NECROSIS FACTOR-INDUCED CYTOTOXICITY.
165. Jan Lundbom: AORTOCORONARY BYPASS SURGERY: CLINICAL ASPECTS, COST CONSIDERATIONS AND WORKING ABILITY.
166. John-Anker Zwart: LUMBAR NERVE ROOT COMPRESSION, BIOCHEMICAL AND NEUROPHYSIOLOGICAL ASPECTS.
167. Geir Falck: HYPEROSMOLALITY AND THE HEART.

168. Eirik Skogvoll: CARDIAC ARREST Incidence, Intervention and Outcome.
169. Dalius Bansevicius: SHOULDER-NECK REGION IN CERTAIN HEADACHES AND CHRONIC PAIN SYNDROMES.
170. Bettina Kinge: REFRACTIVE ERRORS AND BIOMETRIC CHANGES AMONG UNIVERSITY STUDENTS IN NORWAY.
171. Gunnar Qvigstad: CONSEQUENCES OF HYPERGASTRINEMIA IN MAN
172. Hanne Ellekjær: EPIDEMIOLOGICAL STUDIES OF STROKE IN A NORWEGIAN POPULATION. INCIDENCE, RISK FACTORS AND PROGNOSIS
173. Hilde Grimstad: VIOLENCE AGAINST WOMEN AND PREGNANCY OUTCOME.
174. Astrid Hjelde: SURFACE TENSION AND COMPLEMENT ACTIVATION: Factors influencing bubble formation and bubble effects after decompression.
175. Kjell A. Kvistad: MR IN BREAST CANCER – A CLINICAL STUDY.
176. Ivar Rossvoll: ELECTIVE ORTHOPAEDIC SURGERY IN A DEFINED POPULATION. Studies on demand, waiting time for treatment and incapacity for work.
177. Carina Seidel: PROGNOSTIC VALUE AND BIOLOGICAL EFFECTS OF HEPATOCYTE GROWTH FACTOR AND SYNDECAN-1 IN MULTIPLE MYELOMA.
- 2001
178. Alexander Wahba: THE INFLUENCE OF CARDIOPULMONARY BYPASS ON PLATELET FUNCTION AND BLOOD COAGULATION – DETERMINANTS AND CLINICAL CONSEQUENCES
179. Marcus Schmitt-Egenolf: THE RELEVANCE OF THE MAJOR HISTOCOMPATIBILITY COMPLEX FOR THE GENETICS OF PSORIASIS
180. Odrun Arna Gederaas: BIOLOGICAL MECHANISMS INVOLVED IN 5-AMINOLEVULINIC ACID BASED PHOTODYNAMIC THERAPY
181. Pål Richard Romundstad: CANCER INCIDENCE AMONG NORWEGIAN ALUMINIUM WORKERS
182. Henrik Hjorth-Hansen: NOVEL CYTOKINES IN GROWTH CONTROL AND BONE DISEASE OF MULTIPLE MYELOMA
183. Gunnar Morken: SEASONAL VARIATION OF HUMAN MOOD AND BEHAVIOUR
184. Bjørn Olav Haugen: MEASUREMENT OF CARDIAC OUTPUT AND STUDIES OF VELOCITY PROFILES IN AORTIC AND MITRAL FLOW USING TWO- AND THREE-DIMENSIONAL COLOUR FLOW IMAGING
185. Geir Bråthen: THE CLASSIFICATION AND CLINICAL DIAGNOSIS OF ALCOHOL-RELATED SEIZURES
186. Knut Ivar Aasarød: RENAL INVOLVEMENT IN INFLAMMATORY RHEUMATIC DISEASE. A Study of Renal Disease in Wegener's Granulomatosis and in Primary Sjögren's Syndrome
187. Trude Helen Flo: RECEPTORS INVOLVED IN CELL ACTIVATION BY DEFINED URONIC ACID POLYMERS AND BACTERIAL COMPONENTS
188. Bodil Kavli: HUMAN URACIL-DNA GLYCOSYLASES FROM THE UNG GENE: STRUCTURAL BASIS FOR SUBSTRATE SPECIFICITY AND REPAIR
189. Liv Thommesen: MOLECULAR MECHANISMS INVOLVED IN TNF- AND GASTRIN-MEDIATED GENE REGULATION
190. Turid Lingaas Holmen: SMOKING AND HEALTH IN ADOLESCENCE; THE NORD-TRØNDELAGE HEALTH STUDY, 1995-97
191. Øyvind Hjertner: MULTIPLE MYELOMA: INTERACTIONS BETWEEN MALIGNANT PLASMA CELLS AND THE BONE MICROENVIRONMENT
192. Asbjørn Støylen: STRAIN RATE IMAGING OF THE LEFT VENTRICLE BY ULTRASOUND. FEASIBILITY, CLINICAL VALIDATION AND PHYSIOLOGICAL ASPECTS
193. Kristian Midthjell: DIABETES IN ADULTS IN NORD-TRØNDELAGE. PUBLIC HEALTH ASPECTS OF DIABETES MELLITUS IN A LARGE, NON-SELECTED NORWEGIAN POPULATION.
194. Guanglin Cui: FUNCTIONAL ASPECTS OF THE ECL CELL IN RODENTS
195. Ulrik Wisløff: CARDIAC EFFECTS OF AEROBIC ENDURANCE TRAINING: HYPERTROPHY, CONTRACTILITY AND CALCIUM HANDLING IN NORMAL AND FAILING HEART
196. Øyvind Halaas: MECHANISMS OF IMMUNOMODULATION AND CELL-MEDIATED CYTOTOXICITY INDUCED BY BACTERIAL PRODUCTS
197. Tore Amundsen: PERFUSION MR IMAGING IN THE DIAGNOSIS OF PULMONARY EMBOLISM

198. Nanna Kurtze: THE SIGNIFICANCE OF ANXIETY AND DEPRESSION IN FATIGUE AND PATTERNS OF PAIN AMONG INDIVIDUALS DIAGNOSED WITH FIBROMYALGIA: RELATIONS WITH QUALITY OF LIFE, FUNCTIONAL DISABILITY, LIFESTYLE, EMPLOYMENT STATUS, CO-MORBIDITY AND GENDER
199. Tom Ivar Lund Nilsen: PROSPECTIVE STUDIES OF CANCER RISK IN NORD-TRØNDELAGE: THE HUNT STUDY. Associations with anthropometric, socioeconomic, and lifestyle risk factors
200. Asta Kristine Håberg: A NEW APPROACH TO THE STUDY OF MIDDLE CEREBRAL ARTERY OCCLUSION IN THE RAT USING MAGNETIC RESONANCE TECHNIQUES
2002
201. Knut Jørgen Arntzen: PREGNANCY AND CYTOKINES
202. Henrik Døllner: INFLAMMATORY MEDIATORS IN PERINATAL INFECTIONS
203. Asta Bye: LOW FAT, LOW LACTOSE DIET USED AS PROPHYLACTIC TREATMENT OF ACUTE INTESTINAL REACTIONS DURING PELVIC RADIOTHERAPY. A PROSPECTIVE RANDOMISED STUDY.
204. Sylvester Moyo: STUDIES ON STREPTOCOCCUS AGALACTIAE (GROUP B STREPTOCOCCUS) SURFACE-ANCHORED MARKERS WITH EMPHASIS ON STRAINS AND HUMAN SERA FROM ZIMBABWE.
205. Knut Hagen: HEAD-HUNT: THE EPIDEMIOLOGY OF HEADACHE IN NORD-TRØNDELAGE
206. Li Lixin: ON THE REGULATION AND ROLE OF UNCOUPLING PROTEIN-2 IN INSULIN PRODUCING β -CELLS
207. Anne Hildur Henriksen: SYMPTOMS OF ALLERGY AND ASTHMA VERSUS MARKERS OF LOWER AIRWAY INFLAMMATION AMONG ADOLESCENTS
208. Egil Andreas Fors: NON-MALIGNANT PAIN IN RELATION TO PSYCHOLOGICAL AND ENVIRONMENTAL FACTORS. EXPERIMENTAL AND CLINICAL STUDIES OF PAIN WITH FOCUS ON FIBROMYALGIA
209. Pål Klepstad: MORPHINE FOR CANCER PAIN
210. Ingunn Bakke: MECHANISMS AND CONSEQUENCES OF PEROXISOME PROLIFERATOR-INDUCED HYPERFUNCTION OF THE RAT GASTRIN PRODUCING CELL
211. Ingrid Susann Gribbestad: MAGNETIC RESONANCE IMAGING AND SPECTROSCOPY OF BREAST CANCER
212. Rønnaug Astri Ødegård: PREECLAMPSIA – MATERNAL RISK FACTORS AND FETAL GROWTH
213. Johan Haux: STUDIES ON CYTOTOXICITY INDUCED BY HUMAN NATURAL KILLER CELLS AND DIGITOXIN
214. Turid Suzanne Berg-Nielsen: PARENTING PRACTICES AND MENTALLY DISORDERED ADOLESCENTS
215. Astrid Rydning: BLOOD FLOW AS A PROTECTIVE FACTOR FOR THE STOMACH MUCOSA. AN EXPERIMENTAL STUDY ON THE ROLE OF MAST CELLS AND SENSORY AFFERENT NEURONS
2003
216. Jan Pål Loennechen: HEART FAILURE AFTER MYOCARDIAL INFARCTION. Regional Differences, Myocyte Function, Gene Expression, and Response to Cariporide, Losartan, and Exercise Training.
217. Elisabeth Qvigstad: EFFECTS OF FATTY ACIDS AND OVER-STIMULATION ON INSULIN SECRETION IN MAN
218. Arne Åsberg: EPIDEMIOLOGICAL STUDIES IN HEREDITARY HEMOCHROMATOSIS: PREVALENCE, MORBIDITY AND BENEFIT OF SCREENING.
219. Johan Fredrik Skomsvoll: REPRODUCTIVE OUTCOME IN WOMEN WITH RHEUMATIC DISEASE. A population registry based study of the effects of inflammatory rheumatic disease and connective tissue disease on reproductive outcome in Norwegian women in 1967-1995.
220. Siv Mørkved: URINARY INCONTINENCE DURING PREGNANCY AND AFTER DELIVERY: EFFECT OF PELVIC FLOOR MUSCLE TRAINING IN PREVENTION AND TREATMENT
221. Marit S. Jordhøy: THE IMPACT OF COMPREHENSIVE PALLIATIVE CARE
222. Tom Christian Martinsen: HYPERGASTRINEMIA AND HYPOACIDITY IN RODENTS – CAUSES AND CONSEQUENCES
223. Solveig Tingulstad: CENTRALIZATION OF PRIMARY SURGERY FOR OVARIAN CANCER. FEASIBILITY AND IMPACT ON SURVIVAL

224. Haytham Eloqayli: METABOLIC CHANGES IN THE BRAIN CAUSED BY EPILEPTIC SEIZURES
225. Torunn Bruland: STUDIES OF EARLY RETROVIRUS-HOST INTERACTIONS – VIRAL DETERMINANTS FOR PATHOGENESIS AND THE INFLUENCE OF SEX ON THE SUSCEPTIBILITY TO FRIEND MURINE LEUKAEMIA VIRUS INFECTION
226. Torstein Hole: DOPPLER ECHOCARDIOGRAPHIC EVALUATION OF LEFT VENTRICULAR FUNCTION IN PATIENTS WITH ACUTE MYOCARDIAL INFARCTION
227. Vibeke Nossum: THE EFFECT OF VASCULAR BUBBLES ON ENDOTHELIAL FUNCTION
228. Sigurd Fasting: ROUTINE BASED RECORDING OF ADVERSE EVENTS DURING ANAESTHESIA – APPLICATION IN QUALITY IMPROVEMENT AND SAFETY
229. Solfrid Romundstad: EPIDEMIOLOGICAL STUDIES OF MICROALBUMINURIA. THE NORD-TRØNDELAGE HEALTH STUDY 1995-97 (HUNT 2)
230. Geir Torheim: PROCESSING OF DYNAMIC DATA SETS IN MAGNETIC RESONANCE IMAGING
231. Catrine Ahlén: SKIN INFECTIONS IN OCCUPATIONAL SATURATION DIVERS IN THE NORTH SEA AND THE IMPACT OF THE ENVIRONMENT
232. Arnulf Langhammer: RESPIRATORY SYMPTOMS, LUNG FUNCTION AND BONE MINERAL DENSITY IN A COMPREHENSIVE POPULATION SURVEY. THE NORD-TRØNDELAGE HEALTH STUDY 1995-97. THE BRONCHIAL OBSTRUCTION IN NORD-TRØNDELAGE STUDY
233. Einar Kjelsås: EATING DISORDERS AND PHYSICAL ACTIVITY IN NON-CLINICAL SAMPLES
234. Arne Wibe: RECTAL CANCER TREATMENT IN NORWAY – STANDARDISATION OF SURGERY AND QUALITY ASSURANCE
- 2004
235. Eivind Witsø: BONE GRAFT AS AN ANTIBIOTIC CARRIER
236. Anne Mari Sund: DEVELOPMENT OF DEPRESSIVE SYMPTOMS IN EARLY ADOLESCENCE
237. Hallvard Lærum: EVALUATION OF ELECTRONIC MEDICAL RECORDS – A CLINICAL TASK PERSPECTIVE
238. Gustav Mikkelsen: ACCESSIBILITY OF INFORMATION IN ELECTRONIC PATIENT RECORDS; AN EVALUATION OF THE ROLE OF DATA QUALITY
239. Steinar Krokstad: SOCIOECONOMIC INEQUALITIES IN HEALTH AND DISABILITY. SOCIAL EPIDEMIOLOGY IN THE NORD-TRØNDELAGE HEALTH STUDY (HUNT), NORWAY
240. Arne Kristian Myhre: NORMAL VARIATION IN ANOGENITAL ANATOMY AND MICROBIOLOGY IN NON-ABUSED PRESCHOOL CHILDREN
241. Ingunn Dybedal: NEGATIVE REGULATORS OF HEMATOPOIETIC STEM AND PROGENITOR CELLS
242. Beate Sitter: TISSUE CHARACTERIZATION BY HIGH RESOLUTION MAGIC ANGLE SPINNING MR SPECTROSCOPY
243. Per Arne Aas: MACROMOLECULAR MAINTENANCE IN HUMAN CELLS – REPAIR OF URACIL IN DNA AND METHYLATIONS IN DNA AND RNA
244. Anna Bofin: FINE NEEDLE ASPIRATION CYTOLOGY IN THE PRIMARY INVESTIGATION OF BREAST TUMOURS AND IN THE DETERMINATION OF TREATMENT STRATEGIES
245. Jim Aage Nøttestad: DEINSTITUTIONALIZATION AND MENTAL HEALTH CHANGES AMONG PEOPLE WITH MENTAL RETARDATION
246. Reidar Fossmark: GASTRIC CANCER IN JAPANESE COTTON RATS
247. Wibeke Nordhøy: MANGANESE AND THE HEART, INTRACELLULAR MR RELAXATION AND WATER EXCHANGE ACROSS THE CARDIAC CELL MEMBRANE
- 2005
248. Sturla Molden: QUANTITATIVE ANALYSES OF SINGLE UNITS RECORDED FROM THE HIPPOCAMPUS AND ENTORHINAL CORTEX OF BEHAVING RATS
249. Wenche Brenne Drøyvold: EPIDEMIOLOGICAL STUDIES ON WEIGHT CHANGE AND HEALTH IN A LARGE POPULATION. THE NORD-TRØNDELAGE HEALTH STUDY (HUNT)
250. Ragnhild Støen: ENDOTHELIUM-DEPENDENT VASODILATION IN THE FEMORAL ARTERY OF DEVELOPING PIGLETS

251. Aslak Steinsbekk: HOMEOPATHY IN THE PREVENTION OF UPPER RESPIRATORY TRACT INFECTIONS IN CHILDREN
252. Hill-Aina Steffenach: MEMORY IN HIPPOCAMPAL AND CORTICO-HIPPOCAMPAL CIRCUITS
253. Eystein Stordal: ASPECTS OF THE EPIDEMIOLOGY OF DEPRESSIONS BASED ON SELF-RATING IN A LARGE GENERAL HEALTH STUDY (THE HUNT-2 STUDY)
254. Viggo Pettersen: FROM MUSCLES TO SINGING: THE ACTIVITY OF ACCESSORY BREATHING MUSCLES AND THORAX MOVEMENT IN CLASSICAL SINGING
255. Marianne Fyhn: SPATIAL MAPS IN THE HIPPOCAMPUS AND ENTORHINAL CORTEX
256. Robert Valderhaug: OBSESSIVE-COMPULSIVE DISORDER AMONG CHILDREN AND ADOLESCENTS: CHARACTERISTICS AND PSYCHOLOGICAL MANAGEMENT OF PATIENTS IN OUTPATIENT PSYCHIATRIC CLINICS
257. Erik Skaaheim Haug: INFRARENAL ABDOMINAL AORTIC ANEURYSMS – COMORBIDITY AND RESULTS FOLLOWING OPEN SURGERY
258. Daniel Kondziella: GLIAL-NEURONAL INTERACTIONS IN EXPERIMENTAL BRAIN DISORDERS
259. Vegard Heimly Brun: ROUTES TO SPATIAL MEMORY IN HIPPOCAMPAL PLACE CELLS
260. Kenneth McMillan: PHYSIOLOGICAL ASSESSMENT AND TRAINING OF ENDURANCE AND STRENGTH IN PROFESSIONAL YOUTH SOCCER PLAYERS
261. Marit Sæbø Indredavik: MENTAL HEALTH AND CEREBRAL MAGNETIC RESONANCE IMAGING IN ADOLESCENTS WITH LOW BIRTH WEIGHT
262. Ole Johan Kemi: ON THE CELLULAR BASIS OF AEROBIC FITNESS, INTENSITY-DEPENDENCE AND TIME-COURSE OF CARDIOMYOCYTE AND ENDOTHELIAL ADAPTATIONS TO EXERCISE TRAINING
263. Eszter Vanky: POLYCYSTIC OVARY SYNDROME – METFORMIN TREATMENT IN PREGNANCY
264. Hild Fjærtøft: EXTENDED STROKE UNIT SERVICE AND EARLY SUPPORTED DISCHARGE. SHORT AND LONG-TERM EFFECTS
265. Grete Dyb: POSTTRAUMATIC STRESS REACTIONS IN CHILDREN AND ADOLESCENTS
266. Vidar Fykse: SOMATOSTATIN AND THE STOMACH
267. Kirsti Berg: OXIDATIVE STRESS AND THE ISCHEMIC HEART: A STUDY IN PATIENTS UNDERGOING CORONARY REVASCULARIZATION
268. Björn Inge Gustafsson: THE SEROTONIN PRODUCING ENTEROCHROMAFFIN CELL, AND EFFECTS OF HYPERSEROTONINEMIA ON HEART AND BONE
- 2006
269. Torstein Baade Rø: EFFECTS OF BONE MORPHOGENETIC PROTEINS, HEPATOCYTE GROWTH FACTOR AND INTERLEUKIN-21 IN MULTIPLE MYELOMA
270. May-Britt Tessem: METABOLIC EFFECTS OF ULTRAVIOLET RADIATION ON THE ANTERIOR PART OF THE EYE
271. Anne-Sofie Helvik: COPING AND EVERYDAY LIFE IN A POPULATION OF ADULTS WITH HEARING IMPAIRMENT
272. Therese Standal: MULTIPLE MYELOMA: THE INTERPLAY BETWEEN MALIGNANT PLASMA CELLS AND THE BONE MARROW MICROENVIRONMENT
273. Ingvild Saltvedt: TREATMENT OF ACUTELY SICK, FRAIL ELDERLY PATIENTS IN A GERIATRIC EVALUATION AND MANAGEMENT UNIT – RESULTS FROM A PROSPECTIVE RANDOMISED TRIAL
274. Birger Henning Endreseth: STRATEGIES IN RECTAL CANCER TREATMENT – FOCUS ON EARLY RECTAL CANCER AND THE INFLUENCE OF AGE ON PROGNOSIS
275. Anne Mari Aukan Rokstad: ALGINATE CAPSULES AS BIOREACTORS FOR CELL THERAPY
276. Mansour Akbari: HUMAN BASE EXCISION REPAIR FOR PRESERVATION OF GENOMIC STABILITY
277. Stein Sundstrøm: IMPROVING TREATMENT IN PATIENTS WITH LUNG CANCER – RESULTS FROM TWO MULTICENTRE RANDOMISED STUDIES
278. Hilde Pleym: BLEEDING AFTER CORONARY ARTERY BYPASS SURGERY - STUDIES ON HEMOSTATIC MECHANISMS, PROPHYLACTIC DRUG TREATMENT AND EFFECTS OF AUTOTRANSFUSION
279. Line Merethe Oldervoll: PHYSICAL ACTIVITY AND EXERCISE INTERVENTIONS IN CANCER PATIENTS

- 280.Boye Welde: THE SIGNIFICANCE OF ENDURANCE TRAINING, RESISTANCE TRAINING AND MOTIVATIONAL STYLES IN ATHLETIC PERFORMANCE AMONG ELITE JUNIOR CROSS-COUNTRY SKIERS
- 281.Per Olav Vandvik: IRRITABLE BOWEL SYNDROME IN NORWAY, STUDIES OF PREVALENCE, DIAGNOSIS AND CHARACTERISTICS IN GENERAL PRACTICE AND IN THE POPULATION
- 282.Idar Kirkeby-Garstad: CLINICAL PHYSIOLOGY OF EARLY MOBILIZATION AFTER CARDIAC SURGERY
- 283.Linn Getz: SUSTAINABLE AND RESPONSIBLE PREVENTIVE MEDICINE. CONCEPTUALISING ETHICAL DILEMMAS ARISING FROM CLINICAL IMPLEMENTATION OF ADVANCING MEDICAL TECHNOLOGY
- 284.Eva Tegnander: DETECTION OF CONGENITAL HEART DEFECTS IN A NON-SELECTED POPULATION OF 42,381 FETUSES
- 285.Kristin Gabestad Nørsett: GENE EXPRESSION STUDIES IN GASTROINTESTINAL PATHOPHYSIOLOGY AND NEOPLASIA
- 286.Per Magnus Haram: GENETIC VS. ACQUIRED FITNESS: METABOLIC, VASCULAR AND CARDIOMYOCYTE ADAPTATIONS
- 287.Agnetta Johansson: GENERAL RISK FACTORS FOR GAMBLING PROBLEMS AND THE PREVALENCE OF PATHOLOGICAL GAMBLING IN NORWAY
- 288.Svein Artur Jensen: THE PREVALENCE OF SYMPTOMATIC ARTERIAL DISEASE OF THE LOWER LIMB
- 289.Charlotte Björk Ingul: QUANTIFICATION OF REGIONAL MYOCARDIAL FUNCTION BY STRAIN RATE AND STRAIN FOR EVALUATION OF CORONARY ARTERY DISEASE. AUTOMATED VERSUS MANUAL ANALYSIS DURING ACUTE MYOCARDIAL INFARCTION AND DOBUTAMINE STRESS ECHOCARDIOGRAPHY
- 290.Jakob Nakling: RESULTS AND CONSEQUENCES OF ROUTINE ULTRASOUND SCREENING IN PREGNANCY – A GEOGRAPHIC BASED POPULATION STUDY
- 291.Anne Engum: DEPRESSION AND ANXIETY – THEIR RELATIONS TO THYROID DYSFUNCTION AND DIABETES IN A LARGE EPIDEMIOLOGICAL STUDY
- 292.Ottar Bjerkeset: ANXIETY AND DEPRESSION IN THE GENERAL POPULATION: RISK FACTORS, INTERVENTION AND OUTCOME – THE NORD-TRØNDELAGE HEALTH STUDY (HUNT)
- 293.Jon Olav Drogset: RESULTS AFTER SURGICAL TREATMENT OF ANTERIOR CRUCIATE LIGAMENT INJURIES – A CLINICAL STUDY
- 294.Lars Fosse: MECHANICAL BEHAVIOUR OF COMPACTED MORSELLISED BONE – AN EXPERIMENTAL IN VITRO STUDY
- 295.Gunilla Klensmeden Fosse: MENTAL HEALTH OF PSYCHIATRIC OUTPATIENTS BULLIED IN CHILDHOOD
- 296.Paul Jarle Mork: MUSCLE ACTIVITY IN WORK AND LEISURE AND ITS ASSOCIATION TO MUSCULOSKELETAL PAIN
- 297.Björn Stenström: LESSONS FROM RODENTS: I: MECHANISMS OF OBESITY SURGERY – ROLE OF STOMACH. II: CARCINOGENIC EFFECTS OF *HELICOBACTER PYLORI* AND SNUS IN THE STOMACH
- 2007
- 298.Haakon R. Skogseth: INVASIVE PROPERTIES OF CANCER – A TREATMENT TARGET ? IN VITRO STUDIES IN HUMAN PROSTATE CANCER CELL LINES
- 299.Janniche Hammer: GLUTAMATE METABOLISM AND CYCLING IN MESIAL TEMPORAL LOBE EPILEPSY
- 300.May Britt Drugli: YOUNG CHILDREN TREATED BECAUSE OF ODD/CD: CONDUCT PROBLEMS AND SOCIAL COMPETENCIES IN DAY-CARE AND SCHOOL SETTINGS
- 301.Arne Skjold: MAGNETIC RESONANCE KINETICS OF MANGANESE DIPYRIDOXYL DIPHOSPHATE (MnDPDP) IN HUMAN MYOCARDIUM. STUDIES IN HEALTHY VOLUNTEERS AND IN PATIENTS WITH RECENT MYOCARDIAL INFARCTION
- 302.Siri Malm: LEFT VENTRICULAR SYSTOLIC FUNCTION AND MYOCARDIAL PERFUSION ASSESSED BY CONTRAST ECHOCARDIOGRAPHY
- 303.Valentina Maria do Rosario Cabral Iversen: MENTAL HEALTH AND PSYCHOLOGICAL ADAPTATION OF CLINICAL AND NON-CLINICAL MIGRANT GROUPS
- 304.Lasse Løpvstakken: SIGNAL PROCESSING IN DIAGNOSTIC ULTRASOUND: ALGORITHMS FOR REAL-TIME ESTIMATION AND VISUALIZATION OF BLOOD FLOW VELOCITY

305. Elisabeth Olstad: GLUTAMATE AND GABA: MAJOR PLAYERS IN NEURONAL METABOLISM
306. Lilian Leistad: THE ROLE OF CYTOKINES AND PHOSPHOLIPASE A₂s IN ARTICULAR CARTILAGE CHONDROCYTES IN RHEUMATOID ARTHRITIS AND OSTEOARTHRITIS
307. Arne Vaaler: EFFECTS OF PSYCHIATRIC INTENSIVE CARE UNIT IN AN ACUTE PSYCHIATRIC WARD
308. Mathias Toft: GENETIC STUDIES OF LRRK2 AND PINK1 IN PARKINSON'S DISEASE
309. Ingrid Løvold Mostad: IMPACT OF DIETARY FAT QUANTITY AND QUALITY IN TYPE 2 DIABETES WITH EMPHASIS ON MARINE N-3 FATTY ACIDS
310. Torill Eidhammer Sjøbakk: MR DETERMINED BRAIN METABOLIC PATTERN IN PATIENTS WITH BRAIN METASTASES AND ADOLESCENTS WITH LOW BIRTH WEIGHT
311. Vidar Beisvåg: PHYSIOLOGICAL GENOMICS OF HEART FAILURE: FROM TECHNOLOGY TO PHYSIOLOGY
312. Olav Magnus Søndena Fredheim: HEALTH RELATED QUALITY OF LIFE ASSESSMENT AND ASPECTS OF THE CLINICAL PHARMACOLOGY OF METHADONE IN PATIENTS WITH CHRONIC NON-MALIGNANT PAIN
313. Anne Brantberg: FETAL AND PERINATAL IMPLICATIONS OF ANOMALIES IN THE GASTROINTESTINAL TRACT AND THE ABDOMINAL WALL
314. Erik Solligård: GUT LUMINAL MICRODIALYSIS
315. Elin Tollefsen: RESPIRATORY SYMPTOMS IN A COMPREHENSIVE POPULATION BASED STUDY AMONG ADOLESCENTS 13-19 YEARS. YOUNG-HUNT 1995-97 AND 2000-01; THE NORD-TRØNDELAG HEALTH STUDIES (HUNT)
316. Anne-Tove Brenne: GROWTH REGULATION OF MYELOMA CELLS
317. Heidi Knobel: FATIGUE IN CANCER TREATMENT – ASSESSMENT, COURSE AND ETIOLOGY
318. Torbjørn Dahl: CAROTID ARTERY STENOSIS. DIAGNOSTIC AND THERAPEUTIC ASPECTS
319. Inge-Andre Rasmussen jr.: FUNCTIONAL AND DIFFUSION TENSOR MAGNETIC RESONANCE IMAGING IN NEUROSURGICAL PATIENTS
320. Grete Helen Bratberg: PUBERTAL TIMING – ANTECEDENT TO RISK OR RESILIENCE ? EPIDEMIOLOGICAL STUDIES ON GROWTH, MATURATION AND HEALTH RISK BEHAVIOURS; THE YOUNG HUNT STUDY, NORD-TRØNDELAG, NORWAY
321. Sveinung Sørhaug: THE PULMONARY NEUROENDOCRINE SYSTEM. PHYSIOLOGICAL, PATHOLOGICAL AND TUMOURIGENIC ASPECTS
322. Olav Sande Eftedal: ULTRASONIC DETECTION OF DECOMPRESSION INDUCED VASCULAR MICROBUBBLES
323. Rune Bang Leistad: PAIN, AUTONOMIC ACTIVATION AND MUSCULAR ACTIVITY RELATED TO EXPERIMENTALLY-INDUCED COGNITIVE STRESS IN HEADACHE PATIENTS
324. Svein Brekke: TECHNIQUES FOR ENHANCEMENT OF TEMPORAL RESOLUTION IN THREE-DIMENSIONAL ECHOCARDIOGRAPHY
325. Kristian Bernhard Nilsen: AUTONOMIC ACTIVATION AND MUSCLE ACTIVITY IN RELATION TO MUSCULOSKELETAL PAIN
326. Anne Irene Hagen: HEREDITARY BREAST CANCER IN NORWAY. DETECTION AND PROGNOSIS OF BREAST CANCER IN FAMILIES WITH *BRCA1* GENE MUTATION
327. Ingebjørg S. Juel : INTESTINAL INJURY AND RECOVERY AFTER ISCHEMIA. AN EXPERIMENTAL STUDY ON RESTITUTION OF THE SURFACE EPITHELIUM, INTESTINAL PERMEABILITY, AND RELEASE OF BIOMARKERS FROM THE MUCOSA
328. Runa Heimstad: POST-TERM PREGNANCY
329. Jan Egil Afset: ROLE OF ENTEROPATHOGENIC *ESCHERICHIA COLI* IN CHILDHOOD DIARRHOEA IN NORWAY
330. Bent Håvard Hellum: *IN VITRO* INTERACTIONS BETWEEN MEDICINAL DRUGS AND HERBS ON CYTOCHROME P-450 METABOLISM AND P-GLYCOPROTEIN TRANSPORT
331. Morten André Høydal: CARDIAC DYSFUNCTION AND MAXIMAL OXYGEN UPTAKE MYOCARDIAL ADAPTATION TO ENDURANCE TRAINING
- 2008
332. Andreas Møllerløkken: REDUCTION OF VASCULAR BUBBLES: METHODS TO PREVENT THE ADVERSE EFFECTS OF DECOMPRESSION

333. Anne Hege Aamodt: COMORBIDITY OF HEADACHE AND MIGRAINE IN THE NORD-TRØNDELAGE HEALTH STUDY 1995-97
334. Brage Høyem Amundsen: MYOCARDIAL FUNCTION QUANTIFIED BY SPECKLE TRACKING AND TISSUE DOPPLER ECHOCARDIOGRAPHY – VALIDATION AND APPLICATION IN EXERCISE TESTING AND TRAINING
335. Inger Anne Næss: INCIDENCE, MORTALITY AND RISK FACTORS OF FIRST VENOUS THROMBOSIS IN A GENERAL POPULATION. RESULTS FROM THE SECOND NORD-TRØNDELAGE HEALTH STUDY (HUNT2)
336. Vegard Bugten: EFFECTS OF POSTOPERATIVE MEASURES AFTER FUNCTIONAL ENDOSCOPIC SINUS SURGERY
337. Morten Bruvold: MANGANESE AND WATER IN CARDIAC MAGNETIC RESONANCE IMAGING
338. Miroslav Fris: THE EFFECT OF SINGLE AND REPEATED ULTRAVIOLET RADIATION ON THE ANTERIOR SEGMENT OF THE RABBIT EYE
339. Svein Arne Aase: METHODS FOR IMPROVING QUALITY AND EFFICIENCY IN QUANTITATIVE ECHOCARDIOGRAPHY – ASPECTS OF USING HIGH FRAME RATE
340. Roger Almvik: ASSESSING THE RISK OF VIOLENCE: DEVELOPMENT AND VALIDATION OF THE BRØSET VIOLENCE CHECKLIST
341. Ottar Sundheim: STRUCTURE-FUNCTION ANALYSIS OF HUMAN ENZYMES INITIATING NUCLEOBASE REPAIR IN DNA AND RNA
342. Anne Mari Undheim: SHORT AND LONG-TERM OUTCOME OF EMOTIONAL AND BEHAVIOURAL PROBLEMS IN YOUNG ADOLESCENTS WITH AND WITHOUT READING DIFFICULTIES
343. Helge Garåsen: THE TRONDHEIM MODEL. IMPROVING THE PROFESSIONAL COMMUNICATION BETWEEN THE VARIOUS LEVELS OF HEALTH CARE SERVICES AND IMPLEMENTATION OF INTERMEDIATE CARE AT A COMMUNITY HOSPITAL COULD PROVIDE BETTER CARE FOR OLDER PATIENTS. SHORT AND LONG TERM EFFECTS
344. Olav A. Foss: “THE ROTATION RATIOS METHOD”. A METHOD TO DESCRIBE ALTERED SPATIAL ORIENTATION IN SEQUENTIAL RADIOGRAPHS FROM ONE PELVIS
345. Bjørn Olav Åsvold: THYROID FUNCTION AND CARDIOVASCULAR HEALTH
346. Torun Margareta Melø: NEURONAL GLIAL INTERACTIONS IN EPILEPSY
347. Irina Poliakova Eide: FETAL GROWTH RESTRICTION AND PRE-ECLAMPSIA: SOME CHARACTERISTICS OF FETO-MATERNAL INTERACTIONS IN DECIDUA BASALIS
348. Torunn Askim: RECOVERY AFTER STROKE. ASSESSMENT AND TREATMENT; WITH FOCUS ON MOTOR FUNCTION
349. Ann Elisabeth Åsberg: NEUTROPHIL ACTIVATION IN A ROLLER PUMP MODEL OF CARDIOPULMONARY BYPASS. INFLUENCE ON BIOMATERIAL, PLATELETS AND COMPLEMENT
350. Lars Hagen: REGULATION OF DNA BASE EXCISION REPAIR BY PROTEIN INTERACTIONS AND POST TRANSLATIONAL MODIFICATIONS
351. Sigrun Beate Kjotrød: POLYCYSTIC OVARY SYNDROME – METFORMIN TREATMENT IN ASSISTED REPRODUCTION
352. Steven Keita Nishiyama: PERSPECTIVES ON LIMB-VASCULAR HETEROGENEITY: IMPLICATIONS FOR HUMAN AGING, SEX, AND EXERCISE
353. Sven Peter Näsholm: ULTRASOUND BEAMS FOR ENHANCED IMAGE QUALITY
354. Jon Ståle Ritland: PRIMARY OPEN-ANGLE GLAUCOMA & EXFOLIATIVE GLAUCOMA. SURVIVAL, COMORBIDITY AND GENETICS
355. Sigrid Botne Sando: ALZHEIMER’S DISEASE IN CENTRAL NORWAY. GENETIC AND EDUCATIONAL ASPECTS
356. Parvinder Kaur: CELLULAR AND MOLECULAR MECHANISMS BEHIND METHYLMERCURY-INDUCED NEUROTOXICITY
357. Ismail Cüneyt Güzey: DOPAMINE AND SEROTONIN RECEPTOR AND TRANSPORTER GENE POLYMORPHISMS AND EXTRAPYRAMIDAL SYMPTOMS. STUDIES IN PARKINSON’S DISEASE AND IN PATIENTS TREATED WITH ANTIPSYCHOTIC OR ANTIDEPRESSANT DRUGS
358. Brit Dybdahl: EXTRA-CELLULAR INDUCIBLE HEAT-SHOCK PROTEIN 70 (Hsp70) – A ROLE IN THE INFLAMMATORY RESPONSE ?

359. Kristoffer Haugarvoll: IDENTIFYING GENETIC CAUSES OF PARKINSON'S DISEASE IN NORWAY
360. Nadra Nilsen: TOLL-LIKE RECEPTOR – EXPRESSION, REGULATION AND SIGNALING
361. Johan Håkon Bjørngaard: PATIENT SATISFACTION WITH OUTPATIENT MENTAL HEALTH SERVICES – THE INFLUENCE OF ORGANIZATIONAL FACTORS.