The ReCoN intervention: a co-created comprehensive intervention for primary mental health care aiming to prevent involuntary admissions

Irene Wormdahl1,2*, Trond Hatling1†, Tonje Lossius Husum3,4†, Solveig Helene Høymork Kjus1†, Jorun Rugkåsa5,6, Dorte Brodersen7, Signe Dahl Christensen8, Petter Sundt Nyborg9, Torstein Borch Skolseng10, Eva Irene Ødegård11, Anna Margrethe Andersen12, Espen Gundersen13 and Marit B. Rise2

Abstract

Background Reducing involuntary psychiatric admissions is a global concern. In Norway, the rate of involuntary admissions was 199 per 100,000 people 16 years and older in 2020. Individuals’ paths towards involuntary psychiatric admissions usually unfold when they live in the community and referrals to such admissions are often initiated by primary health care professionals. Interventions at the primary health care level can therefore have the potential to prevent such admissions. Interventions developed specifically for this care level are, however, lacking. To enhance the quality and development of services in a way that meets stakeholders’ needs and facilitates implementation to practice, involving both persons with lived experience and service providers in developing such interventions is requested.

Aim To develop a comprehensive intervention for primary mental health care aiming to prevent involuntary admissions of adults.

Methods This study had an action research approach with a participatory research design. Dialogue conferences with multiple stakeholders in five Norwegian municipalities, inductive thematic analysis of data material from the conferences, and a series of feedback meetings were conducted.

Results The co-creation process resulted in the development of the ReCoN (Reducing Coercion in Norway) intervention. This is a comprehensive intervention that includes six strategy areas: [1] Management, [2] Involving Persons with Lived Experience and Family Carers, [3] Competence Development, [4] Collaboration across Primary and Specialist Care Levels, [5] Collaboration within the Primary Care Level, and [6] Tailoring Individual Services. Each strategy area has two to four action areas with specified measures that constitute the practical actions or tasks that are believed to collectively impact the need for involuntary admissions.
Conclusions The ReCoN intervention has the potential for application to both national and international mental health services. The co-creation process with the full range of stakeholders ensures face validity, acceptability, and relevance. The effectiveness of the ReCoN intervention is currently being tested in a cluster randomised controlled trial. Given positive effects, the ReCoN intervention may impact individuals with a severe mental illness at risk of involuntary admissions, as more people may experience empowerment and autonomy instead of coercion in their recovery process.

Keywords Involuntary admission, Severe mental illness, Mental health services, Primary care, Mental health recovery, Co-creation, Participatory research

Background
Reducing involuntary psychiatric admission is a global concern. The latest years increasing rates of involuntary psychiatric admissions in several countries give rise to growing concern [1]. For instance, from 2008 to 2017, countries like Australia, the United Kingdom, and the Netherlands reported an average annual percentage increase in rates of involuntary admissions by 3.44, 4.13, 4.17, and 5.18, respectively [1]. Geographical variations in rates of involuntary admissions are reported within and across countries [1, 2], indicating more use than necessary in some areas [2]. For instance, the rate per 100,000 people was 14.5 in Italy and 282 in Austria in 2015 [1]. Norway is among the countries that report relatively high numbers with a rate of 199 per 100,000 people 16 years and older in 2020 [3]. Comparison between countries can be challenging due to differences in legislation, health service organisation, and sociodemographic characteristics. However, these factors are found not to explain the substantial variations in the rates of involuntary admissions [1]. Involuntary admissions contradict the medical ethical principle of respect for individuals’ autonomy [4]. Service user organisations, as well as many national governments and international organisations such as the United Nations, have called for reductions in the use of involuntary admissions [5, 6]. Despite these efforts, rates in several countries have not decreased [1].

Aiming to prevent involuntary psychiatric admissions does not necessarily include an aim to prevent general psychiatric admissions. In this case, it is primarily the coercion phenomenon that aims to be reduced, not voluntary psychiatric admissions. Knowledge specifically on how to prevent involuntary admissions is thus needed. Studies of initiatives to prevent and reduce coercive practices in mental health settings worldwide show that some measures are effective [7]. For outpatient settings, shared decision-making interventions, like joint crisis plans and integrated care interventions, are among the measures that have shown effectiveness in reducing involuntary admissions [8]. However, in keeping rates of involuntary admissions low, experiences from the Trieste model indicate that a ‘whole system’ approach is more effective than individual measures [9], and comprehensive approaches have been found more effective than less comprehensive approaches in reducing seclusion and restraint in inpatient settings [10]. Six Core Strategies [11] and the High and Intensive Care model [10] are examples of such comprehensive interventions developed for inpatient settings that have been found effective [7, 10, 12–14]. Mental health care and treatment of people with severe mental illness (SMI), like schizophrenia or other psychotic disorders, are increasingly provided outside hospitals while people live in the community [15]. For many individuals with an SMI, primary health care provides the majority of services and might thus be in a key position to facilitate less restrictive services and prevent involuntary admissions. In addition, although involuntary psychiatric admissions in Norway are, as in most jurisdictions, effectuated at the secondary health care level, referrals to such admissions typically come from primary healthcare GPs and medical emergency services. Nonetheless, most research on preventing involuntary admissions has been aimed at secondary health care [7, 8] and comprehensive interventions developed for primary mental health care to reduce involuntary admissions are lacking.

In the latest years, the values of recovery orientation have increasingly been adopted as the framework for mental health service provision in many countries [16, 17]. Recovery-oriented services have a comprehensive approach, promoting citizenship, supporting individuals with SMI towards meaningful and productive lives, fostering hope that recovery is possible, and valuing individual autonomy [17, 18]. In this perspective, solutions to prevent involuntary admissions should include personal, relational, social, and contextual aspects relevant to the persons and services affected by them [19, 20]. Involving both persons with lived experience and service providers in the research process can ensure such aspects. Furthermore, it can enhance the quality and development of services in a way that meets different stakeholders’ needs [21, 22] and facilitate the adaption and translation of research into practice and enable implementation [21]. Thus, for this study, an action research approach with a participatory design [23, 24] was selected. Theoretically,
the methodology relates to a systemic [21, 24] and social constructionist perspective [24], where knowledge generation is seen as context-sensitive and locally adaptive, and experiences and social relationships are central concerns [21, 24, 25]. In addition, dialogue, which acknowledges different forms of knowledge, is key to such action research [24].

Based on the lack of comprehensive interventions developed for primary mental health care, and in collaboration with multiple stakeholders, this study aimed to develop a comprehensive intervention for primary mental health care aiming to prevent involuntary admissions of adults.

**Method**

Our co-creation process consisted of five dialogue conferences [26, 27] with multiple stakeholders, inductive thematic analyses of the data material created in the conferences, and feedback loops from stakeholders in a series of digital meetings. Dialogue conferencing is a method within action research that facilitates democratic dialogues and collaboration between stakeholders aiming towards future solutions and developments [26, 27].

A participatory research design with multiple stakeholders contributing during different phases requires a comprehensive description of how the study was performed to enable readers, reviewers and other researchers to assess the information and increase the study's replicability [28]. Thus, to ensure the inclusion of all relevant information, our method description was guided by the “Template for Intervention Description and Replication” (TIDieR) checklist [28].

**Study setting**

Norway is a high-income country with extensive publicly funded welfare services. Health care is provided at two levels. The primary care level is the responsibility of the 356 municipalities and includes general practitioners (GPs), medical emergency services, primary mental health and addiction services, rehabilitation, social care, (un) employment services and social housing services. Primary mental health care often provides long-term follow-up to persons with SMI, commonly for years, and include services like sheltered housing, day-care facilities, therapeutic interventions, home nursing care, helping with practical tasks in the house, transport to doctor’s appointments, handling medications, and assisting with leisure activities. The secondary care level is the responsibility of the state. Here, four regional health trusts provide specialist health care through their regional psychiatric hospitals (inpatient treatment) and community mental health centres (community-based inpatient and outpatient treatment). There is a limited private sector with a few small institutions and some private practice psychiatrists/psychologists.

Regulated by the Norwegian Mental Health Act, the criteria for involuntary admissions are severe mental disorder, need for treatment, and/or risk to self or others [29]. Further, options for voluntary engagement should be exhausted or futile, and, unless there is a risk, a lack of the capacity to consent to treatment must be present [30]. Secondary mental health care holds the legal authority to decide and effectuate involuntary admissions.

This study forms part of the cluster randomised controlled trial (RCT) called Reducing Coercion in Norway (ReCoN), aimed at developing and testing a primary care level intervention to prevent involuntary admissions (ClinicalTrials.gov, NCT03989765). The present study was conducted in the five Norwegian municipalities constituting the intervention arm in the cluster RCT. To prepare for the co-creation of the intervention, qualitative interviews and focus groups were performed to explore individuals’ paths towards referral to involuntary admissions [31] and current practice in the municipalities [32]. The ReCoN trial did not provide finances to the participating municipalities. Thus, the measures to be included in the co-created intervention had to be feasible within current services’ existing resources.

**Design of the co-creation process**

Five municipalities had volunteered to take part in the development of the intervention and the subsequent effectiveness testing. Stakeholders from primary and secondary mental health services, primary medical services, police, and users and carers’ advocacy organisations from these municipalities were invited to participate in the co-creation process, which consisted of 1) five one-day dialogue conferences [26, 27], one in each municipality, where multiple stakeholders worked together to suggest, discuss, and prioritise measures for the intervention; 2) inductive thematic analysis [33] of the suggested and prioritised measures presented on posters from the five dialogue conferences; 3) a series of dialogue meetings with feedback loops and discussions concerning intervention drafts based on steps 1 and 2.

**The one-day dialogue conferences**

The one-day dialogue conferences were held in February and March 2020, and all followed the same structure with brief theoretical lectures and three group work sessions.

First, the overall research project and preliminary results from the mapping of practice were presented. The preliminary results comprised the main themes, 1) follow-up of individuals, including the use of plans/tools, 2) primary care service development, 3) housing/living conditions, 4) employment/activity, 5) social
Second, in the first group work session, as far as possible, stakeholders from the same service/organisation formed the groups to facilitate security and confidence for all participants to participate in the dialogue and share suggestions for measures. The groups were instructed to have a brainstorm, suggesting all potential measures and writing them on a piece of paper. They were given both blank Post-it notes, which they could fill in themselves and a set of pre-completed notes with suggestions from the preliminary results of the mapping of current practice. They were free to use or not to use the pre-completed notes. At the end of the session, the participants distributed all their suggested measures on posters representing the eight main themes from the preliminary results of the mapping of current practice.

Third, a brief theoretical lecture about Six Core Strategies [11] was given as an example of the implementation of complex interventions.

Fourth, for the second group work session, new groups were formed. Here, as far as possible, multiple stakeholder groups were represented in each group to ensure a broad perspective in the further dialogue and the prioritising of the measures from group work session one. Each group got posters of two main themes and collaborated on prioritising the suggested measures down to a maximum of ten. They were instructed to emphasise that the measures were feasible and realistic within current practice. In addition, they were asked to concretise measures that were not specific enough.

Fifth, in the third group work session, the group participants remained the same as in the second group work session while the main theme posters rotated between the groups. The groups were instructed to prioritise the ten remaining measures from one to ten, based on which measures they thought were most important to include in the intervention.

Sixth, all participants took part in what was called “the star round”. Here, the posters with the prioritised measures were hung on the wall for everyone to see. All participants got three stick-on stars that they were asked to place behind the measures they thought were the most important ones to include in an intervention for primary care level aimed to reduce the use of involuntary admissions. They could place each star at a different measure or use two or three stars for one measure they thought was particularly important.

Analysis

Inductive thematic analysis [33] of the prioritised measures across all five municipalities was performed by the research team in March 2020.

First, each measure was written on a piece of paper that physically was used to sort measures back and forth into emerging categories during the analytical process. This allowed the researchers to stay close to the data and facilitated an inductive development of the intervention.

Second, the measures in each category were sorted based on how they had been prioritised. Measures with high priority in several municipalities were kept, while others, which held high priority in one municipality and low priority or were not included in others, were removed.

Third, the remaining measures in each category were sorted into sub-categories, constituting strategy areas (categories) with action areas (sub-categories) and measures for the intervention.

Feedback from stakeholders

A total of eight two-hour digital video meetings with key stakeholders were held from May to September 2020. It was four meetings with managers from the municipalities and four meetings with persons with lived experience (two meetings) and family carers (two meetings). The feedback meetings had the following structure:

First, the research group prepared drafts of one or two strategy areas with their respective action areas and measures before each of the four feedback meetings with the managers. The drafts were e-mailed to the participants before the meetings. Relevant literature was incorporated into the description of the strategy areas.

Second, the participants gave oral feedback on the included measures. Some of the participants also gave written feedback after the meetings. In their feedback, the managers particularly emphasised whether the measures were specific and realistic to implement within the current practice during their first implementation year.

Third, in the feedback meetings with the representatives from the advocacy organisations, they gave feedback on drafts of all the strategy areas in the first meeting. In the second meeting, they gave feedback on the associated intervention tools, with particular emphasis on the measures being positive and not experienced as a violation, stigmatising, or having other potential adverse effects for individuals or their family carers, in the second meeting.

Finally, following the participants’ feedback, the research group revised the intervention and wrote a descriptive manual to inform implementation.

We originally planned for the feedback in the third phase of the process to occur in a sixth dialogue conference, in which participants from all five municipalities...
together determined the final intervention. Due to the Covid-19 pandemic and the lockdown in Norway in spring 2020, this had to be cancelled. Instead, in collaboration with stakeholders, the third phase was redesigned as four two-hour digital meetings with two or three key persons from each municipality. Also, two digital meetings each were held with representatives from the advocacy organisations of Mental Health Norway and Mental Health Carers Norway.

Participants and recruitment
A total of 117 persons from multiple stakeholder groups participated in five dialogue conferences, one in each municipality, with stakeholder groups and sample distribution shown in Table 1. With a resource limitation of fifty participants at each dialogue conference, the participants were strategically recruited to include multiple stakeholder groups representing experiences from various services, lived experience, and family carers. The distribution among stakeholder groups aimed for more than half of the participants to come from primary mental health care since they were the services to which the intervention was aimed to be adapted. Further, it was desired that approximately one-fifth of the participants represented persons with lived experience and family carers to get multiple experiences and empower them as stakeholder groups in the co-creation process. Inclusion criteria were 1) working in relevant services in the actual municipalities or collaborating specialist mental health services, 2) individuals with lived experience of SMI and/or involuntary admission, or 3) family carers of individuals with lived experience of SMI and/or involuntary admission. The professional participants were recruited through service managers. Persons with lived experience and family carers were recruited through the local groups of the advocacy organisations Mental Health Norway and Mental Health Carers Norway. All participants registered for the dialogue conferences digitally. The register form included a check box section where participants consented to participate in the study. Four or five of the researchers, who have various clinical and research backgrounds, including a peer researcher, participated in each dialogue conference as facilitators and lecturers.

A total of 12 persons from the primary mental health services – two or three from each municipality – participated in the digital meetings and provided feedback to the research group after analysis. Nine were primary mental health services managers, one was a psychologist, and two were project managers/service development managers. Four of the researchers participated in each meeting. We held a total of four digital meetings with persons with lived experience (two meetings) and family carers (two meetings). Four persons from the advocacy organisation Mental Health Norway and three from Mental Health Carers Norway participated, along with two of the researchers.

Results
The co-creation process resulted in an intervention with six strategy areas: 1) Management, 2) Involving Persons with Lived Experience and Family Carers, 3) Competence Development, 4) Collaboration across Primary and Specialist Care Levels, 5) Collaboration within the Primary Care Level, and 6) Tailoring Individual Services. The

| Municipality                      | A | B | C | D | E | Total |
|----------------------------------|---|---|---|---|---|-------|
| Stakeholder groups               |   |   |   |   |   |       |
| Managers primary mental health service | 4 | 2 | 7 | 2 | 4 | 19    |
| Staff primary mental health service | 13| 8 | 12| 7 | 5 | 45    |
| Secondary mental health service | 4 | 1 | 4 | 4 |   | 13    |
| Primary healthcare medical practitioners | 2 | 1 | 2 | 2 |   | 7     |
| Police                           | 2 | 2 | 1 |   |   | 5     |
| Other primary level servicesb |   |   | 2 | 5 |   | 7     |
| Persons with lived experience    | 1 | 1 | 4 | 3 |   | 9     |
| Family carers                    | 3 | 1 | 1 | 1 | 1 | 7     |
| Students in primary health services | 3 |   | 1 |   |   | 4     |
| Police student                   | 1 |   |   |   |   | 1     |
| Total                            | 33| 13c| 29| 24| 18c| 117   |

a Primary health care medical practitioners include chief municipal medical officers, general practitioners (GPs), and medical emergency services (doctors/nurses)
b Other primary level services include social welfare services, housing services and municipal purchaser offices
c Dialogue conferences in municipalities 2 and 5 were due just a few days before the Covid-19 pandemic lockdown in Norway in March 2020 and thus had some last-minute cancellations from health care staff redirected to crisis management and other clinical tasks
work associated with the strategy areas was intended to be concurrent, not sequential. Each strategy area has two to four action areas (see Fig. 1), which in turn have a number of measures that constitute the intervention’s practical actions or tasks, as listed in Tables 2, 3, 4, 5, 6 and 7. These figures and tables are translated from the manual, developed in Norwegian, to guide implementation [34]. We also developed an implementation workbook to note specifications and plans for the implementation of the different measures.

**Management**

Unless there was management ownership it was seen as unlikely that an intervention would succeed. Participants emphasised that management anchoring was crucial for services to be able to prioritise working with the measures as intended. Securing broad commitment within relevant services to prioritise resources, time and service development to support the intervention was seen as crucial. In addition, promoting collaborative agreements with other relevant services like GPs and specialist mental health services could contribute towards this strategy area. Data monitoring was considered an important management tool to detect progress. Since none of the municipalities routinely accessed or reviewed data on involuntary admissions or referrals, this action area included measures to collect and register data. Continuous quality improvement, which is also a management responsibility, was included to promote the structured use of experiences from practice to inform continuous quality improvement. Action areas and measures in this strategy area are listed in Table 2.

**Involving persons with lived experience and family carers**

Involving persons with lived experience and family carers in planning and implementing the intervention and individual service provision was seen as central. To achieve this at an organisational level, measures to promote participation in the decision-making, planning and implementation of the intervention were included. At an individual level, post-incident reviews after (referrals to) involuntary admissions and joint crisis plans might facilitate increased participation, in turn strengthening autonomy. Post-incident reviews, following all incidents of (referral to) involuntary admissions can establish individuals’ and family carers’ views and staffs’ experience of the situation and how one can do things differently in the future. Information from such reviews can also be part of the data to inform continuous service improvement under the previous strategy area. Joint crisis plans for those with SMI at risk of involuntary admissions can inform services to intervene early and provide less restrictive alternatives in accordance with individuals’ wishes in situations of mental health deterioration or crisis, and thus prevent involuntary admissions. Stakeholders requested tools/templates for the post-incident reviews and joint crisis plans to help implement these measures in practice. Templates were thus drawn up,
taken into the feedback loop, and provided as complementary material to the intervention. The last action area points to the potential of primary mental health services engaging peer workers to take part in the follow-up of persons at risk of involuntary admissions. This can be realised by engaging peer workers already working within

### Table 2: Strategy area 1: Management

| Strategy area 1: Management                                                                 | When                                      | Who            | Why                                                                 |
|------------------------------------------------------------------------------------------|-------------------------------------------|----------------|----------------------------------------------------------------------|
| **1.1 Management anchoring**                                                             |                                           |                |                                                                     |
| Management anchoring in relevant organisations and services in the municipality.         | Prior to the intervention period          | Manager(s)     | Management responsibility and decision-making authority            |
| Appoint a minimum of two project coordinators.                                          | Prior to the intervention period          | Manager(s)     | Due to a long implementation period, a minimum of two responsible coordinators can prevent the project being affected by potential staff turnover. |
| Collaboration agreements with relevant services at both primary and specialist care levels to support the primary mental health care’s implementation of the intervention. | Prior to the intervention period or within a month | Manager(s)/ coordinators | Important that the primary health care services’ relevant collaboration partners contribute. |
| Management support, facilitate, and prioritise implementation of measures in services. | Continuous                                 | Manager(s)     | Facilitate implementation and goal achievement.                     |
| **1.2 Data monitoring – use of data in service development**                           |                                           |                |                                                                     |
| Develop a plan on how to collect and use data: what should be collected, how should it be collected, who should collect it, how often should it be collected, and how should it be used? | Prior to the intervention period, or within a month | Manager(s)/ coordinators | To enable evaluation of intervention effect.                          |
| Establish routines for data registering based on the data monitoring plan (see above). | At start-up                               | Manager(s)     | Ensure data collection and documentation.                           |
| Establish routines for using the data based on the data monitoring plan (see above). E.g., every unit/service examines and evaluates the data for their unit/service on their staff meeting every x. week. | According to the data monitoring plan     | Manager(s)     | Ensure the use of data in service development and improvement.      |
| Evaluation                                                                             | 6 and 12 months after start-up            | Manager(s)/ coordinators | Evaluate if the activities have resulted in goal achievement, reduced numbers of involuntary admissions/readmissions/referrals to involuntary admissions etc. |
| **1.3 Continuous service improvement**                                                  |                                           |                |                                                                     |
| Establish routines to document situations that led to referrals to involuntary admissions and the “successful stories” where it was prevented. | Prior to the intervention period, or in a month | Manager(s)     | Secure use of experiences from practice in continuous service improvement and development. |
| Examine and evaluate all situations that lead to referrals to involuntary admissions and the “successful stories” where it was prevented. | Every third month | Manager(s)/ coordinators | Learning from and improving practice.                                |
| Communicate and apply the results from evaluations for service improvement.            | Every third month                         | Manager(s)     | Continuous service improvement and development                      |

This table is translated from the Norwegian manual (Hatling T, Husum TL, Kjus SHH, Wormdahl I. (2020). [The ReCoN intervention. Strategies to reduce involuntary admissions]. Trondheim: NAPHA - Norwegian Resource Centre for Community Mental Health.)
### Table 3  Strategy area 2: Involving Persons with Lived Experience and Family Carers

| What | When | Who | Why |
|------|------|-----|-----|
| **2.1 Involve persons with lived experience and family carers at an organisational level** | | | |
| Invite local user and carer organisations, public user boards, or other user representatives to participate in the intervention. | Prior to the intervention period | Manager(s) | Secure user representation in service development. |
| The user representatives participate in the evaluations | 6 and 12 months after start-up | Manager(s) | User involvement in the competence and service development |
| The user representatives participate in the evaluation and reflection of referrals to involuntary admissions every third month. | Every third month | Manager(s) | User involvement in the competence and service development |
| **2.2 Post-incident review** | | | |
| Establish routine descriptions to offer individuals post-incident review after an involuntary admission or referral to such admission. | Prior to the intervention period or within a month | Manager(s) | Systematic use of post-incident review. |
| Effectuate post-incident review after an involuntary admission. | Prior to discharge or within a week | Case manager in primary care and responsible therapist at specialist care | Learn from practice to prevent future involuntary admissions. |
| Effectuate post-incident review after a referral to involuntary admission. | Within a week after referral | Therapist or case manager in primary care | Learn from practice to prevent future involuntary admissions. |
| Establish routines for contacting family carers of individuals who have been involuntary admitted or referred to such admission to check if they want a post-incident review. | Prior to the intervention period or within a month | Manager(s) | Provide post-incident review to family carers. |
| Contact and implement post-incident review with family carers of individuals who have been involuntarily admitted or referred to such admissions if they did not participate in the post-incident review with the individual. | Prior to discharge or within a week after discharge/referral | Therapist or case manager in primary care | Include family carers’ voices. Learning from practice to prevent future involuntary admissions. |
| **2.3 Joint crisis plan** | | | |
| Examine whether all who were involuntarily admitted during the last year or who are assessed to be at risk for such admission, have a joint crisis plan and work out a joint crisis plan for those who do not have one. | Within a month | Manager(s) | To know if further actions are needed to increase the share of individuals having a joint crisis plan. |
| Establish routines to secure anchoring and availability of relevant joint crisis plans in involved services (NB: consent needed). | Within two months | Manager(s) | To secure that the joint crisis plan works according to purpose. |
| Prepare a joint crisis plan for all discharged from an involuntary admission. | Continuous | Therapist or case manager in primary care | To secure adequate support when needed and to prevent involuntary readmissions. |
| Revise joint crisis plans, together with the individual, at a minimum of every sixth month and always after a crisis or involuntary admission. | Continuous | Therapist or case manager in primary care | To secure the relevance of joint crisis plans according to present individual needs. |
| **2.4 Peer worker** | | | |
| Primary mental health care has peer worker(s) with relevant lived experience working closely with individuals at risk of involuntary admission. | Within three months after start-up | Manager(s) | Role model promoting hope. Contribute with specific suggestions for preventive actions instead of coercion. Contribute to a meaningful everyday life. |

This table is translated from the Norwegian manual (Hatling T, Husum TL, Kjus SHH, Wormdahl I. (2020). [The ReCoN intervention. Strategies to reduce involuntary admissions]. Trondheim: NAPHA - Norwegian Resource Centre for Community Mental Health.)
the primary mental health services, or the organisation can subsidise new positions. Measures in the strategy area are listed in Table 3.

**Competence development**

This strategy area addresses the need for enhanced competency among those working in primary care to better identify and meet the individual needs of those at risk of involuntary admission. Knowledge and increased competence in recovery orientation of services might be particularly important to facilitate the involvement of persons with lived experience and family carers and tailoring individual services as intended in strategy areas 2 and 6. Other areas pointed out as essential training needs included trauma-informed care, the legal framework regulating coercion, assessment of capacity to consent to treatment, knowledge about relevant mental health illnesses (including co-morbidities) and psychiatric medication. Furthermore, open dialogue, motivational interviews, suicide assessment, risk assessment, de-escalation techniques, post-incident reviews, and joint crisis plans also constitute skills and tools that participants perceived might help prevent involuntary admissions if applied by trained staff. Such training might constitute a place where professionals from both primary and specialist care, as well as people with lived experience and family carers, could participate together and facilitate shared understandings. To decide which measures to include in the action area competence-building programme, local needs should be assessed. For their first implementation year, the participants in the current study included measures to enhance competence in assessing capacity to consent to treatment, recovery orientation in mental health services, and trauma-informed care. Measures in the strategy area are listed in Table 4.

**Collaboration across primary and specialist care levels**

The strategy area of collaboration across primary and specialist care levels aims to improve collaboration and communication structurally and in individual

---

**Table 4** Strategy area 3: Competence Development

| What | When | Who | Why |
|------|------|-----|-----|
| **3.1 Recovery-oriented framework** | Continuous | Manager(s) | Recovery orientation has previously been shown to be helpful when reducing the use of coercive measures in hospitals. |
| Have an explicit basis of the principle that service provision is founded on recovery-oriented care. | | | |
| **3.2 Competence-building programme** | Within a month after start-up | Manager(s) | Increased competence among primary care staff might lead to improved assessments and decrease referrals to involuntary admissions. |
| All relevant services/staff in primary care will enrol in a three-hour digital course in assessing legal capacity. | | | |
| People with a mental illness and their family carers and network can also be encouraged to undertake the digital course in assessing legal capacity. | Continuous | Coordinators, GPs and case managers | Increased competence might give improved insight into own and health services’ role and promote collaboration towards voluntary initiatives. |
| A one-day seminar about recovery-oriented care | Within four months after start-up | Coordinators arrange; research team responsible for content | Recovery orientation has previously been shown to be helpful when reducing the use of coercive measures in hospitals. |
| Course in trauma-informed care | Within six months after start-up | Management arranges, research team responsible for content | Trauma-informed care has previously been shown to be helpful when reducing the use of coercive measures in hospitals. |

This table is translated from the Norwegian manual (Hatling T, Husum TL, Kjus SHH, Wormdahl I. (2020). [The ReCoN intervention. Strategies to reduce involuntary admissions]. Trondheim: NAPHA - Norwegian Resource Centre for Community Mental Health.)
### Strategy area 4: Collaboration across Primary and Specialist Care Levels

| What                                                                 | When                       | Who                        | Why                                                                 |
|----------------------------------------------------------------------|----------------------------|----------------------------|----------------------------------------------------------------------|
| **4.1 Collaboration when assessing involuntary admission**           |                            |                            |                                                                      |
| Support and collaboration from specialist mental health care when individuals’ capacity to consent to treatment is being assessed, especially in cases of doubt. | Continuous                  | GP/medical emergency service | Prevent individuals from experiencing unnecessary strain if the referral to involuntary admission is probable to be dismissed at the specialist service inpatient unit due to the individual having the capacity to consent to treatment. |
| Primary and specialist care collaborate on alternatives to involuntary admissions. | Continuous                  | Manager(s)                 | Enhance common understanding of the possibilities within primary and specialist care to be provided when individuals are in acute need of help but not eligible for involuntary admission. |
| Establish routines for primary mental health services to be notified when an individual was referred to involuntary admission but not involuntary admitted. | Within six months after start-up | Manager(s)                 | Secure that primary services can offer individuals follow-up and aid after a referral to involuntary admission if such help is wanted. |
| **4.2 Collaboration during and following involuntary admission**      |                            |                            |                                                                      |
| Collaborate with specialist mental health care on post-incident review after an involuntary admission. | Prior to discharge or within a week after discharge (see action module 2.2). | Therapist/case manager in primary care in collaboration with specialist care | Learn from practice to prevent future involuntary admissions (see action module 2.2). |
| Collaborate on preparing a joint crisis plan during an admission (see action module 2.3). (Can be done as part of the measure “discharge meeting” referred to below). | Continuous (see action module 2.3) | Therapist/case manager in primary care in collaboration with specialist care | Secure individually adapted and effective measures to prevent future involuntary admissions (see action module 2.3). |
| Relevant primary care services participate at the discharge meeting prior to discharge from an involuntary admission. | Continuous                  | Therapist/case manager in primary care in collaboration with specialist care | Secure provision of relevant services in the community at discharge. Better treatment and care coordination of primary and specialist services. Clarify responsibility and roles. |
| **4.3 Joint meeting points**                                         |                            |                            |                                                                      |
| Joint evaluation meetings at the management level. Can be implemented in already existing forums on the management level. | 4, 8 and 12 months after start-up | Manager(s)                 | Learning from practice. Continuous professional improvement and coordinated service development. |
| Both primary and specialist health care participate in responsibility groups for individuals at risk of involuntary admissions. | Continuous                  | Case manager in primary care and responsible therapist in specialist care | Coordinated and comprehensive service provision. Improved collaboration. |

This table is translated from the Norwegian manual (Hatling T, Husum TL, Kjus SHH, Wormdahl I. (2020). [The ReCoN intervention. Strategies to reduce involuntary admissions]. Trondheim: NAPHA - Norwegian Resource Centre for Community Mental Health.)
cases, both prior to, during and following an involuntary admission. Close collaboration between services when assessing the need for involuntary admissions might identify less restrictive alternatives or contribute to finding good solutions if a person is referred but not admitted. Collaboration when assessing an involuntary admission could thus include the assistance of specialist mental health professionals in assessing someone’s capacity to consent to treatment or whether they meet the criteria for admission. Collaboration during and following an involuntary admission includes the joint undertaking in post-incident reviews and the preparation of joint crisis plans described in strategy area 2.

In addition, primary mental health services participating in collaboration meetings before an individual is discharged from an involuntary admission can facilitate adequate and individually tailored services in the community at discharge. Joint meeting points, such as evaluation meetings at the management level and responsibility groups at the individual level, might encourage these forms of collaboration. Measures in this strategy area are listed in Table 5.

**Collaboration within the primary care level**

Improved collaboration within the primary care level might connect the services better and enhance their

---

**Table 6 Strategy area 5: Collaboration within the Primary Care Level**

| What | When | Who | Why |
|------|------|-----|-----|
| **5.1 Collaboration between GPs/medical emergency services and the primary mental health services** | | |
| In collaboration with the chief municipal medical officer, mental health services make GPs familiar with the intervention. | Prior to or within a month after start-up | Coordinators and chief municipal medical officer | GPs play a central role in treating individuals with severe mental illness and are thus essential stakeholders regarding intervention implementation. |
| Provide an overview of the primary services that can potentially be alternatives to involuntary admission. | Prior to or within a month after start-up | Coordinators | To convey knowledge about the different alternatives to other services. |
| Communicate/disseminate an overview of the primary services that can potentially be alternatives to involuntary admission to all the municipality’s GPs and emergency medical services. | Within a month after start-up | Chief municipal medical officer in collaboration with the coordinators | Increase GPs and emergency medical services’ knowledge of services in primary health that might be alternatives to involuntary admissions. |
| **5.2 Joint meeting points** | | |
| Establish responsibility groups for individuals at risk of involuntary admissions if such teams are not already established. | Continuous | Case manager in primary care | Improve collaboration, coordination, and comprehensive service provision. |
| Reducing involuntary admissions is on the agenda of meetings at the management level. | Continuous | Manager(s) and coordinators | Contribute to improved relationships, collaboration, and knowledge of each other across services regarding the prevention of involuntary admissions. |
| Arrange kick-off seminar with relevant services from primary care (and other stakeholders as user and carer organisations and specialist services). | Prior to or at start-up | Coordinators and the research team | Promote collaboration between primary care services. Contribute to motivation for the project throughout the intervention period. |
| A one-day seminar about recovery orientation (see action module 3.2). | Within four months after start-up | Coordinators | Shared professional development. Contribute to improved relationships, collaboration, and knowledge across services. |

This table is translated from the Norwegian manual (Hatling T, Husum TL, Kjus SHH, Wormdahl I. (2020). [The ReCoN intervention. Strategies to reduce involuntary admissions]. Trondheim: NAPHA - Norwegian Resource Centre for Community Mental Health.)
collective ability to support those at risk of involuntary admission. Enhanced collaboration between GPs/medical emergency services and the primary mental health services might improve GPs’ or the municipal’s emergency services’ knowledge about which services exist within the local care system. This might help them direct patients towards alternatives to involuntary admissions. Shared meeting points, such as responsibility groups, management meetings, and joint seminars and courses, might facilitate such collaboration, cement relationships and contribute to collective competence development (see strategy area 3). Measures in the strategy area Collaboration within the Primary Care Levels are listed in Table 6.

**Table 7** Strategy area 6: Tailoring Individual Services.

| What | When | Who | Why |
|------|------|-----|-----|
| **6.1 Individually tailored accommodation** | | | |
| Assess whether present accommodation is adequate and stable at discharge meeting/post-incident review. | Before discharge, when lengthy stay, or within a week after discharge | Case manager in primary care | Secure individually tailored accommodation and promote stable and secure living conditions. |
| **6.2 Primary care crisis retreat/sheltered housing** | | | |
| Establish primary crisis retreat/sheltered housing/short-term stay or evaluate actual use of such beds if already existing. | Within four months after start-up | Manager(s) | Prevent deterioration, crises, and involuntary admissions. |
| Utilise such service provision for individuals in the target group when the individual and the services assess it to be appropriate. | Continuous | Case manager in primary care /GP/medical emergency services | Prevent deterioration, crises, and involuntary admissions. |
| **6.3 Support towards a meaningful everyday life** | | | |
| Establish collaboration with the Labour and Welfare Organisation (NAV) for target group individuals with the privilege and desire to receive such services. | Within three months after start-up; then continuous | Case manager in primary care | Support towards a meaningful everyday life. |
| Assess the municipality’s need for support persons and leisure contacts. | Within three months after start-up | Case manager in primary care | Support meaningful leisure activities. Prevent inactivity and support a meaningful life. Strengthen social networks and prevent loneliness. |
| Assist individuals in the target group seeking support from the municipality/NAV to participate in activities if wished for and needed. | Continuous | Case manager in primary care | Aid in using existing activities offered in the community. Prevent inactivity and support a meaningful life. Strengthen social networks and prevent loneliness. |
| Assist individuals in the target group in getting to and from activities if wished for and needed. | Continuous | Case manager in primary care | Aid in using activities offered. Prevent inactivity and support a meaningful life. Strengthen social networks and prevent loneliness. |
| Map individual needs and consider actions to aid in sleep, diet, exercise, and economic management. | Continuous | Case manager in primary care | Prevent sleep deprivation and promote stability. Support good physical and mental health. Improve personal economy and independence. |
| The case manager participates in the individual’s collaboration with his/her GP in medication follow-up. | Continuous | Case manager in primary care | For mental health services to better assist the individual in issues regarding medication. |

This table is translated from the Norwegian manual (Hatling T, Husum TL, Kjus SHH, Wormdahl I. (2020). [The ReCoN intervention. Strategies to reduce involuntary admissions]. Trondheim: NAPHA - Norwegian Resource Centre for Community Mental Health.)
Tailoring individual services
In the palm of the hand depicted in Fig. 1, with all the other strategy areas surrounding it, is the Tailoring Individual Services (see Fig. 1). This strategy area aims to promote comprehensive individually tailored recovery-oriented services in close collaboration with the person him or herself by addressing the question “What is important to you?” For most people, a safe home environment is essential and individually tailored accommodation is thus a necessity, but it might also be important to provide a primary care crisis retreat or sheltered housing for those in the early phases of deterioration. Moreover, in order to thrive, support towards a meaningful everyday life might be crucial for many to focus on recovery. This includes finding suitable ways to support individuals to organise their finances, discover meaningful activities, and engage in social networks, as well as getting adequate sleep, a balanced diet, sufficient exercise, and a helpful medication regime. Measures in this strategy area are listed in Table 7.

Discussion
In this study, researchers and stakeholders developed the ReCoN intervention – a comprehensive intervention for primary mental health care with strategies to reduce involuntary admissions of adults. Dialogue conferences, analysis, and stakeholders’ feedback constituted the co-creation process that directed the ReCoN intervention towards the six strategy areas: 1) Management, 2) Involving Persons with Lived Experience and Family Carers, 3) Competence Development, 4) Collaboration across Primary and Specialist Care Levels, 5) Collaboration within the Primary Care Level, and 6) Tailoring Individual Services. Each strategy area has two to four action areas with measures that constitute the intervention’s practical actions or tasks.

In the discussion of the results, we will, in light of the current literature, address how the ReCoN intervention has the potential to prevent involuntary admissions through its strategies and measures aimed at strengthening individuals’ autonomy and participation, enhancing relevant competence in primary care, and increasing collaboration between services. Furthermore, as we followed a participatory research design with co-creation at its core, we discuss how power imbalances among participants and other aspects of the co-creation process might have influenced the intervention and strengthened or limited its relevance for practice.

Potential to enhance relevant competence in primary care
The third strategy area involves competence development in primary health care. Calling the secondary health care level specialist services implies that this is where specialised knowledge of SMI has traditionally been present. Primary health care has been more developed towards generalist knowledge. However, as more people with SMI are treated and cared for in the community [15], the need for specialised competence in primary health care increases, as do the public’s expectations of the treatment and care provided at this care level. That many professionals in primary mental health services still believe they need more competence [32] implies specialised knowledge has not been sufficiently provided among staff at this service level. Recovery-oriented and trauma-informed care was among the prioritised competence areas in the ReCoN intervention. These areas are also part of the competence framework in the Six Core
Strategies [11], which suggests that these might be essential skills to facilitate across health care levels when aiming to prevent coercive practices.

Potential to facilitate comprehensive and complementary service provision

The fourth and fifth strategy areas relate to collaboration between services both across care levels (Collaboration Across Primary and Specialist Care Levels) and within the primary care level (Collaboration within the Primary Care Level). Processes leading to involuntary admissions typically unfold in the community and involve multiple services from both primary and specialist care [31]. Poor collaboration and fragmented service provision are factors found both in Norway [41, 42] and other countries [43] that can affect the quality and coherence of service provision to people with SMIs in need of multiple services. Therefore, it was not surprising that the participants in the current study prioritised measures to improve and consolidate collaboration between primary mental health services and other relevant services at both the primary and specialist care levels. The extent of involuntary admissions in the municipality was unknown by professionals working within primary mental health services, suggesting that efforts to prevent such admissions have not been systematically addressed at this care level [32]. By promoting joint efforts and collaborating measures, the ReCoN intervention might facilitate shared focus and effort across services and care levels to prevent involuntary admissions and provide less restrictive alternatives.

The co-creation process

Relational power imbalances can affect stakeholders’ influence in co-creation processes [21, 44]. For instance, it might be difficult for staff to contradict managers or for people with lived experience to disagree with the psychiatrist from the acute ward at the hospital. The latter might even be difficult for professionals working in primary mental health services who sometimes experience a professional hierarchy where specialist care professionals’ competence is superior to those at primary care [32]. To avoid placing vulnerable individuals in such situations during the co-creation process in the current study, we recruited participants with lived experience and family carers from the local advocacy organisations. Such representation can give an element of empowerment [45]. In addition, in the first group work session, participants were, as far as possible, divided by service, organisation and role (staff/managers) for everybody to feel equal and comfortable to contribute to the dialogue and the brainstorming of measures. Moreover, everybody got the opportunity to individually prioritise the remaining measures with the “star round” at the end of the day.

Different numbers of participants from different stakeholder groups could have given some voices more power than others. For instance, primary mental health services had more participants than specialist mental health services. Similarly, we did not manage to recruit as many participants with lived experience and family carers as hoped. Some groups at the dialogue conferences did not have representatives from all stakeholder groups. Future similar intervention developments should strive to reflect an equal balance of stakeholder groups.

The changes in study design because of the Covid-19 pandemic precluded several stakeholder groups from participating in the feedback loop of the analysis. Instead, the finalisation was made in separate meetings with primary mental health managers, persons with lived experience, and family carers. With this design, the primary mental health managers could influence the last choices about included measures, whereas other professional stakeholder groups, like staff from primary mental health services, staff and managers from secondary mental health services, and primary healthcare medical practitioners, could not. Not gathering all stakeholder groups together might thus have given a result more limited by the primary mental health services’ resources. A sixth dialogue conference with discussions and reflections across stakeholder groups, including people with lived experience and family carers, might have given other perspectives and choices in finalising the intervention. Not including these voices in the finalising stage could have decreased the face validity and acceptability of the intervention result among these stakeholder groups, subsequently affecting implementation.

A participatory research design gives the researchers less control over the research outcome [21, 24]. Still, some choices made by the researchers impact the outcome. In the current study, the researchers defined the research aim and design, planned and facilitated the co-creation process, and gave theoretical input to the participants at the dialogue conferences. All of which affect the co-creation process and might have influenced the participants’ contributions. The researchers’ personal power to influence the results were minimised by having a research team of several researchers with a broad background, including a peer researcher.

Strengths and limitations

The ReCoN intervention includes measures considered by the participants to be feasible within the resources of current services. Hence, measures like increasing resources, staff, and new municipal housing were excluded during the co-creation process. That the intervention is realistic to carry out within existing resources can strengthen the chance of implementation, but it can
also be a potential limitation. McKeown et al. [46] found that insufficient staffing levels hampered efforts to reduce physical restraint. Limited resources, an insufficient staff level, and rigid service allocation in current primary mental health services were factors professionals identified as impeding the prevention of involuntary admissions [32]. Hence, one can assume that the time-consuming nature of the implementation and service development in a comprehensive intervention like the ReCoN intervention might be affected when increased staff level and resources were left out. This can be of particular concern in other contexts where primary mental health care is structured or funded differently than in Norwegian municipalities with publicly funded services with a relatively high staff ratio. The current study’s adaptive approach can, on the other hand, have increased face validity and acceptability, and might have made the intervention more likely to be transferable to practice by strengthening implementation [21] and increasing the facilitation of better service quality [22]. Furthermore, co-creation processes might have established a sense of ownership to the ReCoN intervention in the stakeholders, increasing the chances for implementation and utilisation of the results to practice in the participating municipalities.

The participants were strategically recruited and did not represent a random representative sample. Recruiting through service managers and other key stakeholders in the municipalities could have given a selection bias as they became gatekeepers for whom they wanted to include in the co-creation process. The high number of participants, and the inclusion of several study sites and multiple stakeholder groups and services, moderated these factors.

The co-creation of the ReCoN intervention was performed in the context of five Norwegian municipalities, and it is not necessarily directly transferable to other settings. However, many of the strategy areas, action areas and measures included in the intervention are related to factors known from the literature to potentially affect involuntary admissions [7, 8, 38]. To increase suitability for an upcoming cluster randomised controlled trial, we developed ReCoN as a consolidated intervention across the participating municipalities. Adapting the measures in the intervention to be eligible to multiple municipalities strengthened its external validity and increased the chances for feasibility elsewhere. However, for some measures, like the competence-building measures, other competency areas might match local needs better. To inform whether competence building measures need to be adapted or can be replicated elsewhere, it would be helpful to explore if workforce development needs are similar or different across different primary mental health care contexts.

The ReCoN intervention includes multiple elements to be implemented in complex contexts at different organisational levels and involving multiple stakeholders. Hence, it is a complex intervention [47, 48] and the assessment of implementation effects and which measures provide which effect is complicated [49]. To compensate for this complexity, we chose a cluster randomised trial design [47], where similar municipalities serve as controls, in an ongoing implementation and effect study (ClinicalTrials.gov, NCT03989765). This design will enable an outcome for the overall effect but still not assess whether single strategy areas or measures had a larger or smaller effect than others. In addition to testing the effect of the intervention, qualitative implementation monitoring is included. Such qualitative studies can add knowledge on implementation processes, consistency and barriers to change [48]. Developing a fidelity measure could further strengthen future effect assessments and advances.

Conclusion

There is a lack of comprehensive interventions developed for outpatient contexts aimed to prevent involuntary psychiatric admissions. Thus, the ReCoN intervention developed in the current study has the potential for application to both national and international mental health services. With its full range of stakeholders, the co-creation process strengthens the intervention’s face validity, acceptability, and relevance, making it more likely to be transferable to practice and implemented. Implementation of the ReCoN intervention can increase the focus on and competence in primary mental health care to prevent involuntary admissions and increase the use of less restrictive service alternatives. Furthermore, putting prevention of involuntary admissions on the agenda in primary health care settings has the potential to readress structurally embedded patterns and promote collaborative efforts to decrease the use of involuntary admissions across health care levels. For persons with SMI, implementing the ReCoN intervention can contribute to fewer experiences of involuntary admissions and that they receive comprehensive services that are recovery-oriented and individually tailored. The effectiveness of the ReCoN intervention is currently being tested in an ongoing cluster randomised controlled trial. Given positive effects, the ReCoN intervention may impact individuals with SMI at risk of involuntary admissions, as more people may experience empowerment and autonomy instead of coercion in their recovery process.

Abbreviations

SMI  Severe mental illness
ReCoN  Reducing Coercion in Norway
GP  General practitioner
RCT  Randomised controlled trial
Acknowledgements
The authors want to thank everybody who participated at the dialogue conferences and digital meetings for their significant contributions to the co-creation of the ReCoN intervention.

Authors’ contributions
IW, TLH, SHHK, TH, JR and MBR planned and designed the study. IW, TLH, SHHK and TH prepared and managed, and participated at all the dialogue conferences and digital meetings. DB, SDC, PSN, TBS and EIØ organised and recruited participants, and participated at the dialogue conference in their respective municipalities. JR, EG and AMA participated in one dialogue conference. IW, TLH, SHHK, TH and JR performed the analysis. IW, TLH, SHHK and TH wrote the intervention drafts, JR contributed with critical reviews. DB, SDC, PSN, TBS, EIØ, EG and AMA participated at digital meetings and gave feedback on intervention drafts. IW and TH translated the attached Tables. IW wrote the article manuscript; all remaining authors contributed with critical revisions. All authors approved the final manuscript.

Funding
N/A. This work was funded by the Research Council of Norway, Health, Care and Welfare Services Research (HELSEVEL project nr. 273546). The funder had no role in the study at any phase, nor in the decision of publication of the results. The views expressed are those of the authors and not the Council. Open access funding provided by Norwegian University of Science and Technology.

Availability of data and materials
Data material created in this participatory research study does not have a format suitable for data sharing. Further inquiries can be directed to the corresponding author.

Declarations

Ethics approval and consent to participate
All methods were carried out in accordance with relevant guidelines and regulations. The Regional Committees for Medical and Health Research Ethics in Norway (REC) considered the study outside their remit (REC reference number 2018/2382 C), and ethical approval in line with the Health Research Act was not applicable. The study protocol was approved by the Norwegian Centre for Research Data (NSD reference number 743386), which gives nationally valid judgements for studies within the Norwegian context. Informed written consent in accordance with the General Data Protection Regulation (GDPR) was obtained from all participants, and no personally identifiable information was registered in the data material from the dialogue conferences.

Consent for publication
Not applicable.

Competing interests
The authors declare that they have no conflicts of interest.

Author details
1 Norwegian Resource Centre for Community Mental Health, NTNU Social Research, Trondheim, Norway. 2 Department of Mental Health, Faculty of Medicine and Health Sciences, Norwegian University of Science and Technology, Trondheim, Norway. 3 Centre for Medical Ethics, Institute for Health & Society, University of Oslo, Oslo, Norway. 4 Faculty of Health Sciences, Oslo Metropolitan University, Oslo, Norway. 5 Health Service Research Unit, Akershus University Hospital, Lørenskog, Norway. 6 Centre for Care Research, University of South-Eastern Norway, Porsgrunn, Norway. 7 Department of Health Care, Ullensaker Municipality, Ullensaker, Norway. 8 Department of Mental Health and Addiction, Nittedal Municipality, Nittedal, Norway. 9 Department of Mental Health and Addiction, Porsgrunn Municipality, Porsgrunn, Norway. 10 Department of Mental Health Care, Grimstad Municipality, Grimstad, Norway. 11 Mental Health Careers Norway Grimstad and environs, Grimstad, Norway. 12 Mental Health Norway Nittedal, Nittedal, Norway.

References
1. Rains LS, Zenaia T, Dias MC, Jones R, Jeffreys S, Branthonne-Foster S, et al. Variations in patterns of involuntary hospitalisation and in legal frameworks: an international comparative study. Lancet Psychiatry. 2019;6(5):403–17.
2. Hofstad T, Rugkåsa J, Ose SO, Nytinggnes Q, Husum TL. Measuring the level of compulsory hospitalisation in mental health care: the performance of different measures across areas and over time. Int J Methods Psychiatr Res. 2021;30(3):e1881.
3. The Norwegian Directorate of Health. Tungent psykisk helsevern med diagnopphold [Compulsory inpatient mental health care].The Norwegian Directorate of Health, 2020. [Available from: https://statistik.helsedirektoratet.no/bx/Dashboard/028e6f20-6846-46df-93f3-bcf1e2cd01d8?e=faalse&oe=viewonly].
4. United Nations. Convention on the rights of persons with disabilities [a/ RES/61/106]. Geneva: United Nations; 2006.
5. Mezzina R, Rosen A, Amering M, Javed A. The Practice of Freedom: Human Rights and the Global Mental Health Agenda. In: Javed A, Fountoulakis KN, editors. Advances in Psychiatry. Springer; 2019. p. 483–515.
6. Zinkler M, von Peter S. End coercion in mental health services—toward a system based on support only. Laws. 2019;8(3):119.
7. Gooding P, McSherry B, Roper C. Preventing and reducing ‘coercion’ in mental health services: an international scoping review of English-language studies. Acta Psychiatr Scand. 2020;142(1):27–39.
8. Barbui C, Purgato M, Abdulmalik J, Caldas-de-Almeida JM, Eaton J, Gureje O, et al. Efficacy of interventions to reduce coercive treatment in mental health services: umbrella review of randomised evidence. Br J Psychiatry. 2021;218(4):185–95.
9. Mezzina R. Community mental health care in Trieste and beyond: an “open door-no restraint” system of care for recovery and citizenship. J Nerv Ment Dis. 2014;202(6):440–5.
10. Van Melle AL, Noorhoom EO, Widdershoven GAM, Mulder CL, Voskes Y. Does high and intensive care reduce coercion? Association of HC model fidelity to seclusion use in the Netherlands. BMC Psychiatry. 2020;20:469.
11. Huckshorn KA. Six Core Strategies for Reducing Seclusion and Restraint Use® National Association of State Mental Health Program Directors (NASMHPD): National Association of State Mental Health Program Directors (NASMHPD), 2011. Available from: www.NASMHPD.org. [updated 11/20/06].
12. Lebel JL, Duxbury JA, Putkonen A, Sprague T, Rae C, Sharpe J. Multinational experiences in reducing and preventing the use of restraint and seclusion. J Psychosoc Nurs Ment Health Serv. 2014;52(11):22–9.
13. Wieman DA, Camacho-Gonzalves T, Huckshorn KA, Left S. Multisite study of an evidence-based practice to reduce seclusion and restraint in psychiatric inpatient facilities. Psychiatr Serv. 2014;65(3):345–51.
14. Putkonen A, Kuvalainen S, Louheranta O, Repo-Tiihonen E, Ryynänen O-P, Kautainen H, et al. Cluster-randomized controlled trial of reducing seclusion and restraint in secured Care of men with Schizophrenia. Psychiatr Serv. 2013;64(9):850–5.
15. Claassen D, Priebe S. Ethics of Deinstitutionalization. In: Helmchen H, Sartorius N, editors. Ethics in Psychiatry. vol 45. Dordrecht: International Library of Ethics, Law, and the New Medicine: Springer; 2010.
16. Keet R, de Vetten-MM, Shields-Zeeman L, Ruud T, van Weeghel J, Bahler M, et al. Recovery for all in the community; position paper on principles and key elements of community-based mental health care. BMC Psychiatry. 2019;19(1):174.
17. Slade M, Wallace G. Recover and mental health. In: Slade M, Oades LG, Jarden A, editors. Wellbeing, recovery and mental health. Cambridge: Cambridge University Press; 2017. p. 24–34.
18. Le Boutillier C, Leamy M, Bird VJ, Davidson L, Williams J, Slade M. What does recovery mean in practice? A qualitative analysis of international recovery-oriented practice guidance. Psychiatr Serv. 2011;62(12):1470–6.
19. Ramon S. The place of social recovery in mental health and related services. Int J Environ Res Public Health. 2018;15(8):1052.
