The individual experience of ageing patients and the current service

2 provision in the context of Italian forensic psychiatry: A case-study

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Abstract

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Introduction. Following the recent development of residential units for the execution of 33 security measures (REMS) managed by the National Health Service and the closing down of 34 35 forensic psychiatric hospitals, no study has been conducted to investigate the individual experience of ageing patients and to assess whether the new service is adequately meeting 36 their needs. We aim to explore the experience of the service of a sample of patients aged 50 37 38 years old and above living in one of the Italian REMS. Methods. We adopted a case-study design and included a sample of five patients. We 39 40 collected their basic demographic data, administered the Camberwell Assessment Need Forensic Short Version (CANFOR-S) and carried out in-depth qualitative semi-structured 41 interviews. 42 43 Results. Results from the CANFOR-S evidenced that met needs were more prevalent than unmet needs. The qualitative interviews evidenced high levels of satisfaction around 44

- accommodation, health care provision, activities, availability of benefits and company and
- lower levels of satisfaction around psychological and practical support.
- 47 Discussion. This study gave voice to aging forensic psychiatric patients and provided through
- 48 personal accounts based on their lived experience, preliminary evidence around the benefits
- and limitations of the Italian residential forensic psychiatric system for this age group.
- 50 Implications for clinical nursing forensic practitioners operating within different service
- 51 frameworks are discussed.

Introduction

- Research around ageing forensic psychiatric patients shows that they present with unique
- 54 psychosocial and treatment needs, given the high rates of chronic mental and physical health
- conditions, organic disorders, mobility issues, sensory impairment, risk of victimisation,

- social withdrawal and reduced activity participation (Yorston & Taylor, 2009; McLeod,
- Yorston, & Gibb 2008; O'Sullivan & Chesterman, 2007; Shah, 2006; Tomar, Treasaden, &
- 58 Shah, 2005; Curtice, Parker, Wismayer, & Tomison, 2003; Coid, Fazel, & Kahtan 2002).
- 59 Ageing forensic patients remain in secure settings longer than younger patients (Lightbody,
- 60 Gow, & Gibb, 2010), ageing prisoners sentenced for similar offences and patients in general
- psychiatric services (Völlm, Bartlett, & McDonald, 2016). The difference could be due to (i)
- 62 possibly receiving less attention from staff, (ii) a lack of alternative suitable accommodation
- to be discharged to, or (iii) barriers to meeting their treatment and care needs.
- Within the context of Italian forensic psychiatry, these questions remain unanswered, given
- 65 the lack of empirical research around ageing patients living in the Residential units for the
- 66 Execution of Security Measures (Residenze per l'Esecuzione delle Misure di Sicurezza -
- REMS), which are small residential units managed by the National Health Service dedicated
- to the treatment and rehabilitation of offenders with psychiatric disorder. REMS were
- 69 established after the complete closure of Forensic Psychiatric hospitals (Ospedali Psichiatrici
- 70 Giudiziari OPG) managed by the Justice System, following a parliamentary investigation
- and a warning of violations of human rights issued by the European Council, which
- denounced their systematic failure to provide treatment to mentally ill offenders (Barbui &
- Saraceno, 2015). The process began in April 2015 and ended in January 2017, during which
- 74 period all 500 patients of the six OPG were either moved into REMS or discharged to
- 75 community mental health services.
- 76 In contrast with the emphasis on risk-reduction and restrictiveness typical of the old forensic
- 77 psychiatric hospitals, the new service draws inspiration from the philosophy of recovery of
- mentally ill offenders (Drennan et al., 2014). This philosophy aims at successful re-
- 79 introduction into the community through addressing the patients' individual psychosocial and
- treatment needs. In contrast to the OPG, which operated at the national level, REMS have

- regional catchment areas, to facilitate visits from family and friends and continuity with local
- mental health services on discharge.
- 83 To ensure high-quality standards and to prevent adverse events (e.g. security incidents), each
- REMS offers a maximum of 20 beds and a staff-to-patient ratio of 0.9:1 (Scarpa, Castelletti,
- & Lega, 2017). Only clinical personnel are present within the premises and security
- personnel can gain access only in the presence of a safety emergency. Normally, security
- 87 measures are limited to fenced perimeters, CCTV and airlocked doors (Scarpa, Castelletti, &
- Lega, 2017). A small number of REMS, however, have radically interpreted the new
- 89 philosophy and leave the units unlocked, as it is occurring in the very small REMS of in
- 90 Trieste, which provides two-to-four beds.
- 91 REMS employ risk assessment/management strategies which are commensurate with the
- 92 patient's level of symptoms. Thus, on admission patients undergo a multiaxial assessment
- 93 and risk assessment using the HCR-20 (Historical Clinical Risk Management Version 20)
- 94 (Douglas, Hart, Webster, & Belfrage, 2013), the PCL-R (Psychopathy Checklist Revised)
- 95 (Hare, 2003), and the VRAG (Violence Risk Appraisal Guide) (Rossegger, Urbaniok,
- Danielsson, & Endrass, 2009). This enables the development of a provisional risk
- 97 formulation for each case, which is regularly updated, based on the evolving needs of the
- 98 patients.
- 99 Ageing patients currently represent a significant proportion of the total population in the
- 100 REMS. At the REMS in Castiglione delle Stiviere (Lombardy Region), one-fifth of the
- patients are over the age of 50. Despite this, there has been no research investigating their
- experience of the service and whether it adequately responds to their daily needs. This study
- aims to bridge this gap by investigating the experience of a sample of ageing patients living
- in the REMS of Castiglione delle Stiviere. The objectives were: (i) To assess the needs of

patients aged 50 and over in relation to key areas of daily living; (ii) to gather their experience and views on the current service provision and to explore their ideas on how to improve the system. **Methods** Setting The REMS in Castiglione delle Stiviere has a catchment area of almost 11 million residents in northern Italy. The personnel includes clinical, administrative and maintenence staff. Study design This investigation adopted a case-study design, which was deemed ideal to record 'lived reality' and capture more of the 'noise' of real life compared to other research methodologies (Hodkinson & Hodkinson, 2001). Understanding the individual perspectives of the patients' experiences has become deeply enrooted in forensic research, along with increasing emphasis on the Recovery Model (Drennan et al., 2014). Accordingly, we gave emphasis to the individual 'voices' of the patients. Ethical approval and risk management As per Italian legal requirements, we obtained full ethical approval from the Directorate of the REMS Castiglione delle Stiviere to conduct the study. During the process of study set-up and ethical approval, we considered issues which could arise during the study. These included the potential reluctance of patients to comment on service quality for fear of reprisal from the staff, the risk of challenging behaviour, any cognitive challenges and/or fatigue related to age and the sensitivity of some questions included in the needs' assessment scale (e.g. continence or sexuality). We minimised these risks by: (i) Clearly stating during the process of obtaining informed

consent that the participant could refuse to answer questions or withdraw from the study at

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any time; (ii) adopting a flexible approach to interviewing, through active monitoring of any signs of stress, discomfort, fatigue or cognitive difficulty in the participant; (iii) ensuring the availability of emotional/psychological support for the participant, should the need arise.

Selection of participants

We selected participants who: (i) Were aged 50 years old or above (the usual cut-off age for inclusion in the "ageing" category in forensic research (Moll, 2013)); (ii) had been staying in the REMS for at least one year, to ensure that the patient had an established routine; (iii) gave full consent to participate, capacity being assessed by the primary investigator; and (iv) were deemed suitable for interview by the clinical team at the REMS.

The process of selection was based on purposive sampling and we relied on the judgment of the clinical team in the REMS to identify the most suitable cases. Despite the risk of potential selection bias, we deemed this strategy would be the best way to identify the patients who were articulate enough to be able to provide enriched narratives of their experience. During recruitment, we took into account variables such as socio-demographics, clinical characteristics and index offence, in trying to obtain as diverse a sample as possible. We stopped recruitment once we reached data saturation.

Enrolment and data anonymity

Once the patients were identified, the primary investigator met with them to explain the purpose and procedure of the study and answer any questions. After the patients confirmed their interest to participate, the primary investigator arranged a date for the interview no sooner than 48 hours, to allow for adequate time to re-consider. On the day of the interview, the participants were invited to read, date and sign two consent forms, one copy of which was left with the patient and one retained by the primary investigator. To ensure the full

152 anonymity of data, each patient was assigned a number (P01 to P05) for use on all study documents and dissemination material. 153 Data Collection 154 Participants' basic demographics (age, marital status, index offence and data on admission) 155 were provided in fully anonymised form to the primary investigator by the clinical staff. 156 Objective 1 157 The patients were administered the CANFOR-S (Camberwell Assessment Needs Forensic 158 version – Short Italian version), a tool which has been validated across different clinical 159 settings (Castelletti, Lasalvia, Molinari, Thomas, Stratico', & Bonetto, 2015). The CANFOR-160 S investigates needs related to areas of daily living which may impact on the patient's 161 wellbeing. We added four items (eyesight/hearing, mobility, risk of abuse/neglect, and 162 163 incontinence) from the CANE-S (Camberwell Assessment Needs for the elderly – Short) (Orrell & Hancock, 2004) to tailor our assessment to ageing patients. This process did not 164 165 impact on scoring, as both scales share the same scoring system. The presence of needs and the quality of support received was assessed for each domain by two independent raters to 166 avoid single-researcher-bias. A scoring of 2 was attributed for unmet needs, of 1 for met 167 needs (i.e. the need was present but help was given) and of 0 when there was no problem. 168 Objective 2 169 The primary investigator undertook and audio-recorded a semi-structured interview with the 170 participants around their experience and potential improvements in the service to enhance 171 their recovery journey. 172 The themes included support, wellbeing, control, activities and improvement of the service 173 and were identified through: (i) Review of policy around promoting the wellbeing of ageing 174

people; (ii) review of the prison literature (Di Lorito, Völlm, & Dening, 2016), which was

deemed appropriate given the limited research around ageing forensic psychiatric patients, that most of them are referred from prison and the shared element of restrictiveness; and (iii) liaison with forensic psychiatrists. Data analysis The demographic data were transferred onto SPSS 22 (IBM, 2013). Cross-tabulation established absolute and relative frequencies for categorical variables. Means were calculated for continuous variables. Objective 1 Data from the CANFOR-S were transferred onto SPSS 22 (IBM, 2013). For each patient, we computed the number and percentage of met needs (i.e. items rated as 1) and unmet needs (i.e. items rated as 2) and the number of needs present (items rated as either 1 or 2). We further determined the areas with the highest (i.e. with the fewest 0 scores) and lowest (i.e. with the most 0 scores) percentage of present needs and those with the most (i.e. with the most 1 scores) and least (i.e. with the most 2 scores) met needs. Objective 2 The primary investigator transcribed the interviews and imported them onto NVivo 11 (QSR International Pty Ltd., 2012). We undertook a procedure of back-translation to ensure the integrity of the patients' quotes during translation from Italian to English. We adopted a directed approach to content analysis, which is most suitable when preliminary evidence about a phenomenon requires further research (Hsieh & Shannon, 2005). We used the five themes of the interview (support, wellbeing, control, activities and improvement of the service) as initial key coding categories. We read the transcripts fully and coded quotes relevant to the five categories. At this stage, any quotes that did not fit in this scheme but which were still considered relevant were attributed a tentative new theme. We

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then restructured/merged the preliminary themes and worked on the tentative new themes.

We gave the final themes titles describing their content.

Results

We included five patients, age range 51-77 years old (\overline{x} =66) on the census date (23.09.2016). Two of the patients were divorced, one separated, one married and one single. Index offences included robbery, kidnapping, domestic violence, attempted murder and manslaughter. Four patients had sentences lasting from two to ten years (\overline{x} =6), while one had an 'indeterminate' sentence with no fixed length of time.

Objective 1

The number of identified needs among the patients ranged from 14 to 21 out of a highest possible score of 28 (Table 1). Needs were met from 60% to 92.8% of the cases, while unmet needs ranged from 7.2% to 40%. Overall, the maximum number of present needs (n=5) was found for accommodation, food, daytime activities, physical health, information about condition and treatment, psychological distress, basic education, telephone, money, benefits and treatment. This means that all five participants had a need in each of these areas.

The minimum number of present needs (n=0) was found for incontinence (item of the CANE), sexual expression and child care. The highest percentage of met needs was found for money and accommodation arrangement (100%), followed by physical health (80%), basic education (80%), benefits (80%) and company (80%). The lowest percentage of met needs was found for sexual expression (0%) and psychological distress (40%). [Table 1 near here]

Objective 2

We obtained four final themes.

- 222 Happiness and self-determination
- The question "How happy do you feel overall?" received mostly negative responses. Only
- one patient reported feeling happy enough. The reason often reflected their mental health
- condition, as highlighted through one patient's comment:
- "There is always a dark side in me" (P01)
- 227 It was living in a forensic psychiatric setting, including the deprivation of basic freedom and
- 228 the lack of prospects about the future, that most impacted on wellbeing:
- "It is simply being here. The system makes it difficult" (P02)
- "The absolute lack of certainties prevents me to plan my future. Because I do not know
- whether I will be here one month, one year..." (P02)
- Despite these difficulties, when prompted to reflect on self-determination through the
- question "Do you feel you have control over your life?", one patient stated:
- "Absolutely. I am the master of my choices, the centre of my life. I am driving change" (P01)
- However, the other patients reported a perceived lack of control:
- "My destiny is not in my hands. It is in the hands of others" (P05)
- "The restrictions are such that there is very little I can do" (P02)
- This perceived loss of control led in one case to pessimistic views about the future:
- "I will be disabled and destitute because I will not have my driving license, my home" (P05)
- 240 Coping strategies
- Further prompted on how they best cope with these emotional difficulties, the patients
- reported several strategies, such as reminiscing:
- 243 "I live on the memories of my nice past. In my own way, I was fully realised" (P04)

- Others reported finding comfort in their family:
- "I find strength in knowing that my children come to visit me every week" (P03)
- Spirituality also played a central role in promoting the patients' wellbeing. Some resorted to
- prayers to gain inner peace:
- 248 "Every night I listen to the rosary on the radio and say my prayers" (P03)
- However, the patients lamented that the REMS are not supportive enough of religious needs:
- 250 "There is a mass on Saturday and that is it. If I wanted to confess, I would not know how to
- 251 *do it. There should be daily availability of a priest" (P02)*
- 252 Another frequent coping strategy was bonding with fellow patients:
- 253 "I am happier on the days I know I will be going to the library and when I am with my
- 254 friends and we play cards or bowling" (P03)
- 255 Most of the interviewees reported having a special friend or a small group of friends, with
- 256 whom to spend quality time and receive support:
- "We have come together in a small group and we talk with each other" (P03)
- 258 "My friend is happy to help. He is not in my room but he is available. I trust in him" (P04)
- Other patients instead reported that friendship within the REMS was difficult, given the
- differences in background, interests and lack of trust towards other patients:
- "I find it very difficult to talk with other patients about things that interest me" (P02)
- "I am not looking for friends. People take advantage of you if they have the opportunity"
- 263 *(P05)*

- In terms of social networking, the patients complained about gender separation, the lack of social opportunities with women and the barriers to sexual expression:

 "I do not see why we cannot have social contacts, talk and discuss with women too" (P03)
- "I would love to have contact with a woman but it is forbidden here. For me it is quite
- 268 important. My sexual life does not exist" (P03)
- We also asked the participants their views on potential REMS for ageing patients, offering
- 270 dedicated activities and programmes. Some preferred the prospect of a mixed environment:
- 271 "In my opinion a mix is better. It is good to have contacts with people of different ages. It is
- 272 *nice to live among young people" (P01)*
- 273 "If there is an older patient in need, you usually find someone younger helping him" (P05)
- When asked about potential risk of victimisation in a mixed environment, these patients did
- 275 not show concerns:
- 276 "If they threw words at me, I would ignore them and if they harassed me, I would refer to my
- 277 *doctor*" (*P04*)
- 278 Others acknowledged irreconcilable differences between younger and older patients and
- voiced their preference for dedicated REMS for ageing patients:
- "There should be [REMS for ageing patients], because we have different mentalities" (P03)
- 281 Support from members of staff
- Feedback around staff support was generally positive, as summarised by one patient:
- 283 "I see there is an interest in my wellbeing. When I am sad, they invite me to talk" (P01)
- Most, however, felt that that despite the extensive support, the patient is ultimately alone
- during the recovery journey:

286 "I can talk to the volunteer or an empathic nurse, but eventually I must do the work" (P01) These positive views on support extended to physical health care: 287 "I'm very well taken care of. When I experienced pain in my lower abdomen, they 288 immediately took me to the hospital" (P01) 289 When asked to nominate the elements of the REMS that work best, physical health care 290 ranked consistently highly (Table 2). This was despite the lack of a general practitioner: 291 "From a medical point of view, the situation is quite peculiar, as there are only psychiatrists 292 293 who know very little of general medicine" (P02) The feedback on the nursing staff was variable, depending on the quality of the relationships 294 they had established with the patient: 295 "Some nurses are great; some pretend they don't see. It depends on who is on duty" (P04) 296 The same applied to other professional figures. Overall, the doctors and the nurses received 297 positive feedback. The director was ranked highly among those aspects of the system that 298 seemed to work best (Table 2). The psychologists and health care assistants (Operatori Socio-299 300 Sanitari) received less positive comments: "Health care assistants cannot attend to our emotional needs and the presence of 301 psychologists is very limited. Psychological support should be provided at least once a week. 302 A 40-minute session every 15 days is insufficient" (P02) 303 The patients were mostly satisfied with the medical treatment they were receiving. One 304 patient reported: 305 "My relationship with doctors and nurses has been good. If I needed it, they would be ready 306

to prescribe painkillers for my knee pain" (P03)

308 Satisfaction was expressed with some other aspects of care. For example, mobility aids such as walking sticks/frames or wheelchairs provided to patients in need gave the impression that: 309 "The staff are attentive toward those with mobility issues" (P01) 310 The participants also greatly appreciated the staff's flexibility in applying rules to meet their 311 312 needs: "They allow me not to queue for food. They bring it to my table" (P02) 313 Practical aspects of everyday life 314 315 The patients appreciated activities such as watching movies, reading and discussing books and newspapers, going to the gym, bowling and playing cards. Less accessible activities for 316 those with limited mobility, such as swimming and volleyball, ranked lower in preference. 317 They praised the efforts of volunteers to develop and coordinate the activities: 318 "They do things despite their limited capacity" (P04) 319 320 The existing activity programme was frequently mentioned in the question "What works best 321 within the REMS?" (Table 2) but the patients wished further implementation of cultural activities: 322 "Newspaper reading is an interesting activity but we only do it once a week" (P03) 323 The patients also strongly wished that their views be more heard when designing new 324 activities and proposed potential ways of addressing this issue: 325 "A survey among patients would identify which activities could be offered" (P03) 326 327 Nonetheless, they acknowledged the difficulties in developing age-friendly activities. In relation to meals, the patients commented on the lack of variety and the excessive use of 328 329 processed food and carbohydrates:

"It is not only about taste, but about nutrition. The diet is full of carbs and the patients tend 330 to put on weight" (P02) 331 Indeed, food ranked highest among the improvable aspects of the REMS (table 2). 332 Dissatisfaction was also reported with the limited frequency of phone use and the limited 333 length allowed for phone conversations: 334 "We should be able to use the phone more. Once a week for ten minutes is too little" (P04) 335 [Table 2 near here] 336 **Discussion** 337 Here we present the first study of ageing patients in the recently established Italian residential 338 units for the execution of security measures. Given the prevalence of ageing patients in 339 REMS, it is important to report on their experiences, identify their needs and assess whether 340 these are currently met. Although we are aware that our findings have little generalisability, 341 342 this fell beyond the remit of our study, which was to give voice to the individual patients by reporting rich narratives of their experience. 343 Despite the limited number of participants, we included a diverse group of patients in terms 344 of socio-demographics, clinical characteristics and index offences. Regrettably, we did not 345 include female patients, as only men agreed to participate. Research has evidenced that 346 347 women living in restrictive settings have specific gender-related health needs and poorer health status compared to men (Williams, Stern, Mellow, Safer, & Greifinger, 2012; Reviere 348 & Young, 2004; Kratcoski & Babb, 1990). We therefore recommend inclusion of female 349 350 participants in future studies. 351 Findings from the needs assessment indicated that these were mostly met. Overall, the lowest number of present needs was reported for child care, incontinence and sexual expression. 352

However, given the sensitivity of these topics, the patients may have been reluctant to discuss them fully. Results from the qualitative interviews provided information from the patients' accounts of their life in the REMS. Some patients complained about inconsistent practical and psychological support and limited programme of activities, which expose them to potential apathy and social withdrawal. Nonetheless, the patients reported overall positive experience of the service, especially around accommodation, health care provision, availability of benefits and company.

Although we cannot really generalise from our small sample, our findings have allowed us to derive some preliminary considerations that are likely to be salient to forensic psychiatric

derive some preliminary considerations that are likely to be salient to forensic psychiatric professionals working elsewhere. The Italian reform is revolutionary, in that it identified the community as the primary place for treating mentally ill offenders. Social inclusion, rather than containment, has become the chosen means to achieve recovery. Following through this philosophy, the Italian reformers did not merely convert OPG into new smaller and better "forensic" units/judicial residencies. They instead have implemented a comprehensive plan through which every patient in the old OPG was discharged into community mental health services, if deemed suitable. Alternatively, if security measures were required, the patient was admitted into the new REMS, which are conceived of only as a purely transitory solution aiming at full discharge.

At this stage, given that REMS have only been recently established, the long-term effectiveness and sustainability of the visionary Italian reform cannot be fully determined. However, when the system has become more embedded, there will be the opportunity to assess the impact of the reform, and there may be much to be learned from the Italian forensic experience.

Implications for Clinical Forensic Nursing Practice

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Our study adds to the existing evidence around the potential benefits of recovery-based approaches to care (Drennan et al., 2014), which contends that by nurturing the patients' personhood and reducing restrictive practices, recovery is more likely to be achieved. Although the ethos of recovery has gained increasing recognition, the treatment and care of mentally ill offenders worldwide is still largely founded upon restrictive practices, which are justified in terms of incident prevention and patient and staff welfare. While a correlation between restrictiveness and patients' recovery outcomes remains to be ascertained, our findings suggest a potential link between reducing restrictiveness and patients' enhanced experience of the service. Although we did not gather feedback from members of staff, we suggest that a less restrictive regime may also benefit them, while overemphasis on relational security may create greater tension between duties of "care" and "control" among members of staff and generate stress in the workplace. Similarly, overly strict policies may constrain staff within the boundaries of their professional duties and leave very little room to take personal initiative in supporting the patient. We argue that a better balance between recovery-oriented practices and security, which does not compromise on the safety of patients and staff, can be obtained. In this regard, Italy represents a pioneering and (and so far) apparently successful experiment, given the positive feedback of ageing patients around service provision and that no serious security incidents have occurred at the REMS Castiglione delle Stiviere (as reported by the clinical directorate). We therefore encourage staff working with ageing forensic psychiatric patients in countries which adopt more restrictive regulations to consider challenging traditional practices and experimenting with new approaches to care. This might enhance their work experience, promote personal growth and add to their professional skillset, while providing the patients with an enhanced therapeutic journey.

In practical terms, we advocate that nurses adopt a more holistic approach to care, adding elements derived from the recovery model to the traditional nursing duties. For example, the recovery model suggests that a truly therapeutic milieu develops when all professionals involved in the caring process create an emotionally supportive infrastructure (Drennan et al., 2014). Nurses can actively contribute to this endeavour by going beyond basic nursing and care duties to nurture human connectedness with their patients. An essential tool that nurses can resort to is effective communication with patients, as confirmed in a recent study around the experience of nursing in forensic psychiatric settings (Dutta, Majid, & Völlm, 2016). Current evidence suggests that older people in restrictive environments experience greater neglect of their needs for human relatedness compared to younger age groups (Doron, 2007). In response, nurses should work to foster truly genuine social interactions and enhanced rapport with older patients, as this creates equal opportunities for recovery (Dutta, Majid, & Völlm, 2016). Nurses can also contribute to recovery within the multidisciplinary team by creating opportunities for social inclusion and re-integration in the community. Our study participants reported that the activities organised through the clinical team, including bocce (bowls) games in the town community centre or periods of temporary leave from REMS (around 40% of patients have at least one leave of a few hours per month) boosted their emotional wellbeing. Given the extended periods of time they spend with patients, nurses have been recognised as the members of staff that are most involved in caring interactions with the patients (Dutta, Majid, & Völlm, 2016). Thus, they can play a contributing role in identifying the patients' needs/preferences and in developing tailored activity plans.

Conclusions

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The development of Italian REMS is very recent. Therefore, the service is still trying to establish ways of more consistent emotional and practical support and developing a varied

programme of age-friendly activities, which hopefully will be achieved once the system reaches a more mature stage. Notwithstanding, the patients reported receiving adequate healthcare and service and an overall positive experience of the service. Given the limitations of our study in terms of generalisability, further research is crucial to confirm our preliminary findings on the effectiveness of the Italian recovery-based model to forensic psychiatric care.

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Table 1. Results from needs assessment

Patient	Met needs (n; %)	Unmet needs (n; %)	Needs present
P01	(15; 71.4)	(6; 28.6)	21
P02	(11; 64.7)	(6; 35.3)	17
P03	(13; 92.8)	(1; 7.2)	14
P04	(14; 77.7)	(4; 22.3)	18
P05	(12; 60)	(8; 40)	20

$Table\ 2.\ Patients'\ nomination\ of\ what\ works\ best\ and\ what\ is\ improvable\ within\ the\ REMS$

What works best at the REMS	What is improvable at the REMS	
Recreational activities	Implementation of more recreational activities	
Health care provision	Hearing the preferences of patients	
Managerial staff	Telephone allowance and food	