

Journal Pre-proof

The evaluation of quality characteristics of the mental health services provided at the General Outpatient Psychiatry Clinic of the Eginition Hospital

Dimitra Bourazana, Ilias I. Vlachos, Maria Margariti

DOI: <https://doi.org/10.22365/jpsych.2025.014>

To appear in: Psychiatriki Journal

Received date: 15 January 2025

Accepted date: 28 July 2025

Please cite this article as: Dimitra Bourazana, Ilias I. Vlachos, Maria Margariti, The evaluation of quality characteristics of the mental health services provided at the General Outpatient Psychiatry Clinic of the Eginition Hospital, Psychiatriki (2025), doi: <https://doi.org/10.22365/jpsych.2025.014>

This is a PDF file of an article that has undergone enhancements after acceptance, such as adding a cover page and metadata, and formatting for readability. Still, it is not yet the definitive version of record. This version will undergo additional copyediting, typesetting, and review before it is published during the production process; errors may be discovered that could affect the content, and all legal disclaimers that apply to the journal pertain.

RESEARCH ARTICLE

The evaluation of quality characteristics of the mental health services provided at the General Outpatient Psychiatry Clinic of the Eginition Hospital

Dimitra Bourazana, Ilias I. Vlachos, Maria Margariti

1st Department of Psychiatry, National and Kapodistrian University of Athens, Eginition Hospital, General Outpatient Psychiatry Clinic, Athens, Greece

ARTICLE HISTORY: Received 15 January 2025 / Revised 12 June 2025/ Published Online 5 August 2025

ABSTRACT

This study aims to assess the quality characteristics of mental health services provided at the General Outpatient Psychiatry Clinic of the 1st Department of Psychiatry at Eginitio Hospital, with the objective of monitoring and improving care. It is a descriptive, cross-sectional study based on clinical records from 1,146 patients. From this total, a stratified random sample of 265 patients was selected and assessed using the Verona Service Satisfaction Scale (VSSS). Among the 1,146 patients, 52% were female. The most represented age group was 50–59 years. Additionally, 56% were unmarried, 47% were unemployed, and 42% lived with their parental family. Psychotic disorders were the most common diagnosis (38%). On average, patients attended three consultations annually, while 26% received more than four sessions per year. Increased visit frequency was significantly associated with both age ($p = 0.001$) and psychiatric diagnosis ($p < 0.001$). Regarding satisfaction, 84.2% of patients reported high satisfaction with services. Older age was positively associated with greater satisfaction levels ($p < 0.001$). Concerning suggestions for service improvement, 28.7% of patients expressed a desire for access to psychotherapy, 25.3% requested more assistance in obtaining social benefits, and 20.8% supported the introduction of home treatment services. These findings align with previous studies in Greece, confirming slightly higher service use by women and a predominance of psychotic spectrum disorders. While the average follow-up interval was 120 days, medically necessary cases were monitored more frequently (30-90 days). Patient satisfaction was generally high, and older individuals tended to report greater contentment. Reported needs for service enhancement centered on increased access to psychotherapeutic and psychosocial interventions, along with the development of home-based care options.

KEYWORDS: Quality, mental health, patients' satisfaction, mental health services.

Corresponding Author: Bourazana Dimitra, 1st Department of Psychiatry, National Kapodistrian University of Athens, Eginitio Hospital, 72-74 Vas. Sofias Avenue, 115 28, Athens, Greece, Email: dbouraza@eginitio.uoa.gr

Introduction

Mental disorders require prolonged treatment and continuous follow-up, making the provision of high-quality mental health services essential. Effective care is a fundamental patient right, contributing both to improved clinical outcomes and the overall credibility of the healthcare system.¹⁻³ Evaluation is intrinsically linked to quality and constitutes a prerequisite for improvement, as unmeasured aspects cannot be enhanced.⁴

International experience shows that evaluation criteria and indicators vary across countries due to structural differences in mental health systems. The OECD has developed mental health quality indicators based on international data collection.⁵ In Greece, despite long-standing recognition of its necessity, systematic implementation of evaluation frameworks in mental health has been limited. Law 4715/2020 introduced key indicators such as safety, efficiency, responsiveness, accessibility, good governance, and resource management.⁶ In alignment with the European Parliament's Report (A9-0367/2023) and Resolution (2023/2074(INI)), current policy emphasizes the use of evidence-based tools and validated indicators for monitoring mental health data.⁷ The *National Action Plan for Mental Health 2021–2030*, particularly Axis 6, outlines strategic actions for developing protocols, guidelines, and indicators to assess the quality and safety of mental health services.⁸

The concept of healthcare quality has long been subject to diverse and occasionally conflicting interpretations. Nevertheless, at its core, it denotes the attainment of optimal outcomes through the delivery of health services that are effective, equitable, efficient, and patient-centered. Avedis Donabedian was instrumental in establishing the evaluation of healthcare quality as a distinct scientific discipline. He conceptualized care quality through three foundational dimensions: technical quality (the accuracy of medical procedures), interpersonal quality (the nature of the patient-provider relationship), and organizational/infrastructural quality (encompassing administrative and environmental conditions).⁹

Building on Donabedian's model, the World Health Organization (WHO) adopted the triptych framework of Structure, Process, and Outcome for evaluating health systems.¹⁰ Within this framework, Structure pertains to the settings, qualifications, and resources available, Process involves the actual delivery of care, and Outcome captures the effects of care on patients' health status. Each domain can be assessed through qualitative and quantitative indicators, facilitating systematic evaluation. Examples include average waiting times, appointment adherence rates, patient-reported satisfaction, and experiential feedback, all of which are integral to continuous quality improvement.

In this context, the present study focuses on the General Psychiatry Outpatient Clinic (GPOC) of Eginition Hospital, which is affiliated with the First Department of Psychiatry of the National and Kapodistrian University of Athens (NKUA). Eginition Hospital, where the First Department of Psychiatry is situated, is a tertiary mental health institution with many intervention and treatment management options for emergency cases, hospitalization of patients with mental illness, as well as follow-up of ambulatory patients regularly. This study aims to systematically evaluate the quality of services provided at the GPOC, using well-established service evaluation indicators. It emphasizes both qualitative and quantitative metrics across the following key domains: Accessibility: e.g., waiting time for the initial appointment. Continuity of care: e.g., frequency of follow-up visits, percentage of patients attending consecutive appointments. Effectiveness: e.g., duration of sustained engagement in treatment, clinic utilization rates, patient satisfaction.

Data were collected through administrative records and standardized patient satisfaction tools. Indicators were selected based on relevance to international quality benchmarks and their applicability within the Greek healthcare context. The evaluation of these parameters is expected to yield critical insights into: patterns of service utilization, patient adherence and retention, efficiency of the service, and perceived by patients quality of care. The ultimate goal is to provide services in accordance with the real needs and expectations of patients, which is a basic principle of modern healthcare systems. Although self-evident in theory, this aim is not uniformly implemented across health systems globally, particularly in countries with resource constraints or limited infrastructure for quality monitoring, such as Greece.

This research contributes to the international discourse on healthcare quality by presenting a data-driven evaluation from a Greek public mental health setting. Its findings are

expected to highlight strengths and areas for improvement, provide a model for similar evaluations in other outpatient psychiatric services, and support evidence-informed policy decisions aimed at enhancing mental health care. Furthermore, the study underlines the ethical and institutional obligation of health services to implement quality assessment frameworks. Systematic evaluation based on transparent, evidence-based criteria not only enhances clinical outcomes but also fosters accountability, equity, and citizen trust in the health system. In conclusion, this research endeavors to demonstrate that: 1) Scientifically grounded quality assessment is feasible even in complex mental health settings. 2) Significant metrics can guide service development and resource allocation. 3) Greek mental health services have the willingness and capabilities to evaluate and improve the quality of their services. 4) National healthcare systems must institutionalize quality monitoring as a permanent function, and the state should evaluate them and pay them on the corresponding basis.

Materials and methods

Study design and procedures

The study type is descriptive, cross-sectional, and archival data-based. The population of reference consisted of patients registered and scheduled to visit the GPOC of the First Department of Psychiatry at Eginition Hospital between December 2022 and December 2023. All the above data were coded into an electronic file, along with data related to the frequency of sessions, attendance, and patients' absences over the last year. The study obtained permission from the hospital's Ethics Committee, permission to use the Greek-weighted questionnaire, and written informed consent was obtained from the respondent subjects for their participation in the study.

Research tools

Two tools were used for the research:

A) A structured data collection form was developed to record clinical, sociodemographic, and quality indicator variables, including gender, age, marital and employment status, diagnosis, treatment adherence, hospitalization history, and prescribed medication. An additional section captured accessibility and service responsiveness metrics (e.g., reason for attendance, number of visits, non-adherence).

B) The Greek-adapted version of the Verona Service Satisfaction Scale (VSSS-54),^{11,12} developed by the Medical School of the University of Ioannina¹², was used. Fourteen items not applicable to GPOC services were excluded. The scale assesses seven dimensions: Overall Satisfaction (3 items), Professional Skills and Behavior (19), Information (3), Accessibility (1), Effectiveness (8), Types of Intervention (11), and Family Involvement (5).

Survey population and selection process

The reference population of the study consisted of patients considered as active in 2023 - registered and scheduled to visit the outpatient clinic that year (N: 2,019). From this population, the sample of the study was drawn as follows:

1. Clinical, sociodemographic data, and quality indicators were collected for 1,146 individual patients (58% of the active patients) who attended the GPOC during the study period. Data were obtained over consecutive two-month rotations in each outpatient office, through collaboration with the clinical team and review of medical records, reminder cards, and direct patient contact. Thus, the sample reflects all patients attending scheduled appointments within each two-month observation period.

2. From the initial pool of 1,146 patients, a subsample of 265 was selected using systematic stratified random sampling based on gender, representing 20% of daily appointments from each outpatient office. Patient appointments were recorded in an Excel file, including gender

and registration number. The population was stratified by gender, and random numbers were generated to select 20% from each stratum. Selected patients were matched to registration numbers and recorded accordingly. In cases of non-attendance or refusal, the next eligible patient on the list was approached. The validated self-administered questionnaire "Verona Service Satisfaction Scale (VSSS-54)" was used to assess patient satisfaction.

Statistical analysis

For data analysis, the SPSS statistical application program version 26 was used. Normality testing was performed using the Kolmogorov-Smirnov method, skewness and kurtosis testing. Where the data followed a normal distribution, parametric tests such as Student's t-test and analysis of variance (ANOVA) were used, while where the distribution was non-normal, the non-parametric Mann-Whitney U and Kruskal-Wallis H tests were used. A 5% statistical significance level ($p < 0.05$) was maintained for all analyses.

Results

According to our data files, 2,019 patients had requested reexamination scheduling at least once in 2023. From this inclusion population, 1,146 separate patients participated in the survey.

For the last years, strict adherence to the ministry's recommendations for sectorization has been followed. GPOC is designated to offer services at the 8th mental health sector with a reference population of 291,000 (adult population according to the 2011 ELSTAT census). According to the service's statistical data, the average waiting time for new patients' entry in 2023 was 21 days. The entry of new cases, according to a previous survey (2021) was at 25 days of waiting.¹³

Patients' clinical and sociodemographic characteristics are presented in Table 1, and data on the frequency and characteristics of visits are presented in Table 2.

The majority of patients belonged to the age group 50-59 years N: 297 (26%), N: 424 (37%) were from the 8th Sector of Mental Health (to which Eginition hospital belongs), N: 1,074 (94%) were receiving medication, and N: 717 (62.5%) of patients had previously had regular follow-up at another service. Of these, N: 399 (55.5%) were followed up privately. It was also found that more than half of the patients were single, N: 646 (56%), and lived either with their paternal family, N: 483 (42%), or alone, N: 278 (24%), and that a large percentage, N: 542 (47%), were unemployed. The medium frequency of follow-up in the GPOC was 3 times/year. Table 3 presents data on the frequency of visits in the particular year. The results indicated that the frequency of patient attendance was associated with age ($\chi^2=17.786$, $p=0.001$) and diagnosis ($\chi^2=56.588$, $p<0.001$), while the number of absences from regular follow-up was related to the work situation ($\chi^2=9.987$, $p=0.019$) (Table 4).

A sample of 265 patients participated in the patient satisfaction survey of the services provided. The supplementary material file presents measures of centrality and dispersion of variables and the reliability index of the questionnaire. According to univariate analysis and exploration of differences between the questionnaire scales and the total questionnaire score concerning the clinical and sociodemographic characteristics of the sample, statistically significant differences were found in almost all scales. However, when linear regression was performed with the total questionnaire value as the dependent variable and all the patients' clinico-socio-demographic characteristics as the independent variable, it was found that the only statistically significant variable influencing the dependent variable at the level of statistical significance ($\beta = 0.150$, $p = 0.038$) was the age of the patients (Table 5).

Discussion

The research findings highlighted useful conclusions that can be associated with the quality services provided by GPOC of the Psychiatric Clinic at Eginiteio Hospital, and can also be utilized for the implementation of specific interventions to improve quality at the service level.

The slightly higher attendance of women in mental health services, as observed in the present study, is consistent with previous findings from the same organization,¹³ where women submitted more requests for initial psychiatric evaluation. Similar trends have been reported in other Greek studies,¹⁴⁻¹⁹ supporting the notion that women are more affected by psychosocial stressors. Notably, a ten-year study by Pantelidou et al. demonstrated a statistically significant increase in men's service utilization following the economic crisis (from 38.5% during 2003–2009 to 43.9% during 2010–2015 $p < 0.001$), potentially reflecting both the psychological impact of the crisis and a gradual shift in men's attitudes toward seeking mental health care.²⁰

The predominance of psychotic disorders in the current sample reflects the tertiary nature of the service, which primarily addresses severe and chronic psychiatric conditions. Similar patterns have been recorded in other tertiary psychiatric institutions in Greece¹⁸ and internationally, where schizophrenia is the most frequent diagnosis (40.6%), followed by bipolar disorder (21.2%) and depression (17.2%).²¹ In contrast, in primary mental health care settings such as the Vyronas–Kaisariani Community Mental Health Center, anxiety and depressive disorders are more common,¹⁴ a pattern likely associated with the community-based approach and the typically milder symptomatology of patients. Likewise, in emergency departments, such as that of the General Hospital of Corfu, individuals who were suffering mood disorders accounted for 32%, compared to 23.1% for psychotic disorders.²² Finally, in the Mobile Mental Health Unit serving the remote Cycladic islands, the most frequent diagnoses were intellectual disability (39.6%) and psychotic disorders (39.2%).¹⁵ This likely reflects limited access to specialized services and the accumulation of severe, untreated cases in geographically isolated areas with restricted mental health resources.

It was observed that a significant number of patients belonged to neighboring mental health sectors (32%), while 36% of the patients belonged to our mental health sector. In a previous survey,¹³ 3 years ago, requests from neighbouring sectors for a first psychiatric assessment reached 39%, while from our Sector (the 8th sector) requests accounted for 18.6%. These results reflected the inadequacy of implementation strategies in the national sectorization plan. Following the above survey, our department implemented specific strategies to gradually streamline the patient inflow.

The average number of visits per day to the outpatient clinic's medical office was 18, with follow-up examinations and two new entry cases. According to psychiatric literature, a reasonable aim is to have approximately 10 patients treated and no more than 20.⁴ The average frequency of reassessments in our GPOC was found to be 3 times per year. Our results confirm data from other countries, as well as from Greece.^{18,23,24}

In our survey, 29.5% of patients attended 4–10 follow-up sessions annually, predominantly those with severe psychopathology. This suggests that when medically necessary, the service is capable of providing more frequent visits, as it was previously reported (range of 14–20% for such follow-up rates).²⁵ Investigating the frequency of follow-up examinations concerning age, our data revealed that patients aged 40–59 years needed more mid-year follow-up sessions than other age groups, consistent with some other surveys.^{19,26-28} However, not all international data confirm the same results.^{25,29} Follow-up frequency was also found to be diagnosis-dependent, with individuals diagnosed with bipolar disorder requiring more sessions annually (mean 4.8) compared to other groups. This suggests that patients' maintenance phase of bipolar disorder may necessitate more intensive monitoring, potentially due to the need for regular clinical and biological assessments targeting depressive and manic symptoms, sleep disturbances, suicide risk, comorbid substance use, medical conditions, and overall health concerns.³⁰⁻³²

In the present study, 21.5% of patients failed to attend their scheduled psychiatric appointments, aligning with existing literature reporting non-attendance rates of approximately 20% in psychiatric settings—nearly twice that observed in other medical specialties.^{29,33-41} These rates vary widely depending on country, healthcare system, and service type, with some mental health services reporting non-attendance as high as 60%. Non-attendance is consistently identified as a clinical and systemic challenge, associated with increased hospitalizations and higher healthcare costs.^{39,41,42,43,44} A significant association was found between employment status and attendance: employed individuals had the lowest rates of missed appointments, while students had the highest. This may reflect either greater motivation for continuity of care among working individuals or unmet support needs. Targeted interventions, such as student-focused outpatient clinics with flexible scheduling and digital appointment reminders, may help address this issue.

Additionally, in 8.4% of cases, consultations occurred without access to the patient's medical file, highlighting administrative deficiencies in clinical documentation. This compromises both care quality and clinician efficiency. The continued reliance on paper-based records is a key contributing factor, underscoring the urgent need for electronic health record implementation to support continuity of care and system efficiency.

In our survey, 227 patients (19.5% of the total) had only one examination, with 53% of them having just one scheduled session for the entire year. This result differs from the results of Petritzakis et al research in 2022,¹⁸ who reported that the percentage of patients who visited only once the GPOC at Alexandroupoli University Hospital in northeastern Greece was more than 50%. The author suggests that administrative factors, such as visits primarily for medical certificates, may explain this finding. In our survey, 10% of scheduled appointments were related to obtaining psychiatric certificates for administrative purposes. This difference may be attributed to the greater availability of psychiatric services in the large region of Attica compared to Northeastern Greece.

The evaluation of patient satisfaction with the services provided by the GPOC of the Psychiatric Department at Aiginiteio Hospital revealed a high overall level of satisfaction, in line with previous research in mental health settings.^{19,45,46} The highest scores were recorded in the 'Professional Skills and Behaviour' subscale, suggesting that the quality of the therapeutic relationship plays a key role in patient satisfaction. In contrast, the lowest scores were recorded in the "Types of Intervention" subscale, a result attributed to the methodological structure of the VSSS tool, which includes both services provided and not provided by the institution, potentially reflecting users' perceptions of unmet care.¹¹ Participants' responses highlighted specific unmet needs, most commonly: assistance in finding employment (20.4%), access to psychotherapy programs (28.7%), and support at home (20.8%). Additionally, some patients reported not receiving services that are theoretically available, such as support with social and vocational integration (14.7%) and guidance on accessing social benefits (25.3%). Similar findings were reported in the study by Mavroeidi et al, which also used the VSSS tool and identified unmet needs in individual (27%) and family sessions (33%), home assistance (17.3%), and welfare benefits (16.4%). These findings underscore the need to re-evaluate the scope of services provided and to strengthen interventions that respond directly to patients' expressed needs.

Univariate analysis indicated that age, marital status, employment, hospitalization history, and diagnosis were significantly associated with patient satisfaction, in line with previous findings.^{19,46-48} Gender, however, showed no significant correlation, consistent with other studies.^{23,47-50} In multivariate analysis, age emerged as the sole statistically significant predictor of overall satisfaction. This positive association has also been confirmed by other researchers,^{45,47-53} suggesting that older patients tend to report higher satisfaction levels. This may reflect increased maturity, stabilized personal values, and greater familiarity with healthcare systems over time.⁵³

Conclusion

This study examined quality aspects of mental health services at the GPOC of the First Department of Psychiatry, NKUA. The average waiting time for a first visit was 21 days, with a mean attendance frequency of three times per year. More intensive follow-up (every 30–90 days) was offered to patients with complex clinical needs. Consistent with prior Greek studies, women had slightly higher attendance rates, and most patients were diagnosed with psychotic spectrum disorders.

Overall, patient satisfaction was high, particularly in domains such as clinician competence, information, accessibility, and family involvement. Age significantly influenced satisfaction levels, in line with existing evidence. Patients expressed unmet needs in psychotherapy, psychosocial support, and home-based care, highlighting areas for potential service development. Despite high satisfaction, ongoing evaluation remains essential. Regular monitoring of quality indicators can inform targeted improvements. Evidence consistently links patient satisfaction with perceived service quality, emphasizing its role as a key performance metric. Future research should further explore outcomes related to effectiveness, responsiveness, and access.

References

1. Chatzaki E. *Quality of service delivery in psychiatric clinics* [Master thesis]. Thessaloniki: University of Macedonia; 2022. [in Greek]. Available from: <https://dspace.lib.uom.gr/bitstream/2159/28551/1/ChatzakiEleniMsc2022.pdf>
2. Mayston R, Habtamu K, Medhin G, et al. Developing a measure of mental health service satisfaction for use in low income countries: a mixed methods study. *BMC Health Serv Res* 2017, 17:183, doi: 10.1186/s12913-017-2126-2
3. Mohammadi-Sardo MR, Salehi S. The Assessment of Patient Satisfaction using Modified Servqual Model; a Crosssectional Study in the Emergency Department. *Adv J Emerg Med* 2019, 3:3e, doi: 10.22114/AJEM.v0i0.107
4. Samartzis L, Talias M. Assessing and improving the quality in mental health services. *Int J Environ Res Public Health* 2020, 17:249, doi: <https://doi.org/10.3390/ijerph17010249>
5. Hermann R, Mattke S, OECD Mental Health Care Panel. *Selecting indicators for the quality of mental health care at the health systems level in OECD countries*. OECD Health Technical Papers No. 17. Paris: OECD; 2004 (Cited 10 Apr 2024). Available from: <https://www.oecd.org/els/health-systems/33865630.pdf>
6. Hellenic Republic. *Law 4715/2020 (Government Gazette of the Hellenic Republic, Issue A, No. 149). Article 8: Arrangements for ensuring access to quality health services – Establishment and statute of the Health Quality Assurance Organization S.A. (ODIPY S.A.), other urgent provisions within the competence of the Ministry of Health and other provisions* (in Greek). (Cited 10 Apr 2024). Available from: <https://www.e-nomothesia.gr>
7. European Parliament. *Report on mental health* [Internet]. Brussels: European Parliament; 2023 Nov 17. Report No.: A9-0367/2023. (Cited 5 Apr 2024). Available from: https://www.europarl.europa.eu/doceo/document/A-9-2023-0367_EL.html (in Greek)
8. Hellenic Republic, Ministry of Health. *National Action Plan for Mental Health 2021–2030*. 2023 (in Greek). (Cited 9 Apr 2024). Available from: <https://www.moh.gov.gr/articles/health/domes-kai-draseis-gia-thn-ygeia/c312-psyxikh-ygeia/>
9. Donabedian A. The quality of care. How can it be assessed? *JAMA* 1988, 260:1743–1748, doi: 10.1001/jama.260.12.1743
10. Ministry of Health & Social Solidarity, Directorate of Mental Health. *World Health Organization, Package of guidelines for health policy and services, improving the quality*

- of mental health services. 2003 (in Greek). (Cited 10 Apr 2024). Available from: <https://www.moh.gov.gr>
11. Ruggeri M, Dall'Agnola R. The development and use of the Verona Expectations for Care Scale (VECS) and the Verona Service Satisfaction Scale (VSSS) for measuring expectations and satisfaction with community-based psychiatric services in patients, relatives and professionals. *Psychol Med* 1993, 23:511–523, doi: 10.1017/s0033291700028609
 12. Kallinikou E. *The weighting of the Verona Service Satisfaction Scale-54 (VSSS-54) questionnaire in Greece* [doctoral thesis]. Ioannina: University of Ioannina; 2008 (in Greek). (Cited 2 Apr 2024). Available from: <https://thesis.ekt.gr/thesisBookReader/id/24619?lang=el#page/1/mode/2up>
 13. Mpourazana D, Vlachos I, Aristotelidis P, et al. New patients' access to psychiatric treatment services: Improving the quality indicators of mental health services. *Psychiatriki* 2021, 32:123–131 (in Greek), doi: 10.22365/jpsych.2021.021
 14. Pikouli A, Konstantakopoulos G, Kalampaka Spilioti P, et al. *The impact of the recent financial crisis on the users' profile of a community mental health unit*. *Psychiatriki* 2019, 30:97-107 (in Greek). (Cited 12 Jul 2024). Available from: <https://www.psychiatriki-journal.gr/documents/psychiatry/30.2-GR-2019-97.pdf>
 15. Lykomitrou A, Stylianidis S, Geitona M, et al. Assessment of the Mobile Mental Health Units' effectiveness in Cyclades islands. *Psychiatriki* 2021, 32:199-207, doi: 10.22365/jpsych.2021.031
 16. Pierrakos G, Sarris M, Soulis S, et al. *Comparative analysis of two studies of outpatient satisfaction in primary medical care*. *Arch Hellen Med* 2013, 30:316–324 (in Greek). (Cited 17 Feb 2024). Available from: <http://www.mednet.gr/archives/2013-3/pdf/316.pdf>
 17. Mavridis T. *Continuity of care for patients in the psychiatric department of a general hospital* [doctoral thesis]. Thessaloniki: Aristotle University of Thessaloniki; 2002 (in Greek). (Cited 26 Feb 2024). Available from: <https://www.didaktorika.gr/eadd/handle/10442/13404>
 18. Petritzakis E. *Operation of the outpatient clinics of the Psychiatry Department of the University General Hospital of Alexandroupolis: Reality, challenges, proposals* [master's thesis]. Alexandroupolis: Democritus University of Thrace; 2022 (in Greek). (Cited 26 Feb 2024). Available from: https://repo.lib.duth.gr/jspui/bitstream/123456789/15149/1/PetritzakisE_2022.pdf
 19. Kabadai M, Niakas D. *Patient satisfaction with services provided by a Community Mental Health Center in northern Greece*. *Arch Hellen Med* 2004, 21:354–362 (in Greek). (Cited 17 Feb 2024). Available from: <https://www.mednet.gr/archives/2004-4/354per.html>
 20. Pantelidou S, Stylianidis S, Martin-Fernandez J, et al. Psychosocial and health characteristics of mental health service users in a Greek rural area before and after the onset of economic crisis. *Journal of Rural Mental Health* 2023, 47: 232–239, <https://doi.org/10.1037/rmh0000238>
 21. Alemu WG, Mwanri L, Due C, et al. Mental health service satisfaction among adults with mental illness attending a psychiatric outpatient clinic: a cross-sectional study. *Front Public Health* 2025, 13:1471297, doi: 10.3389/fpubh.2025.1471297
 22. Botsari IA, Papatsoris A, Argitis P, et al. The impact of the COVID-19 pandemic on hospital admissions in a psychiatric ward in a general hospital in Greece *Psychiatriki* 2024, 35:269-281, doi: 10.22365/jpsych.2024.018
 23. Simoons M, Ruhé H, Van Roon E, et al. Design and methods of the 'monitoring outcomes of psychiatric pharmacotherapy' (MOPHAR) monitoring program – a study protocol. *BMC Health Serv Res* 2019, 19:125, doi: 10.1186/s12913-019-3951-2

24. Moldawsky RJ. Applying an Open-Access Model to a Psychiatric Practice. *Perm J* 2007, 11:33–36, doi: 10.7812/TPP/06-095
25. Singla M, Goyal SK, Sood A, et al. Profile and pattern of follow-ups of psychiatry outpatients at Christian Medical College, Ludhiana. *J Mental Health Hum Behav* 2015, 20:76–79, doi: 10.4103/0971-8990.174598
26. Tempier R, Bouattane El M, Tshiabo MD, Abdulnour J. Missed appointments in mental health care clinics: A retrospective study of patients' profile. *JHA* 2021, 10:41–44, doi: 10.5430/jha.v10n3p41
27. Fenger M, Mortensen EL, Poulsen S, Lau M. No-shows, drop-outs and completers in psychotherapeutic treatment: demographic and clinical predictors in a large sample of non-psychotic patients. *Nord J Psychiatry* 2011, 65:183–191, doi: 10.3109/08039488.2010.515687
28. Feitsma WN, Popping R, Jansen DE. No-show at a forensic psychiatric outpatient clinic: risk factors and reasons. *Int J Offender Ther Comp Criminol* 2012, 56:96–112, doi: 10.1177/0306624X1038943
29. Ramlucken L, Sibiya MN, Bimray PB. Frequency and reasons for missed appointments of outpatient mental health care users in the uMgungundlovu District. *Curationis* 2018, 41:e1–e4, doi: 10.4102/curationis.v41i1.1835
30. Marzani G, Neff AP, Fischer RL. Bipolar Disorders: Evaluation and Treatment. *Am Fam Physician* 2021, 103:227–239, PMID: 33587568
31. Ketter TA, Calabrese JR, Frye MA. Strategies for Monitoring Outcomes in Patients with Bipolar Disorder. *Prim Care Companion J Clin Psychiatry* 2010, 12:10–16, doi: 10.4088/PCC.9064su1c.02
32. Yatham LN, Kennedy SH, Parikh SV, et al. Canadian Network for Mood and Anxiety Treatments (CANMAT) and International Society for Bipolar Disorders (ISBD) 2018 guidelines for the management of patients with bipolar disorder. *Bipolar Disord* 2018, 20:97–170, doi: 10.1111/bdi.12609
33. Mitchell AJ, Selmes TA, Lewis R. Comparative survey of missed initial and follow-up appointments in psychiatric specialties in the United Kingdom. *Psychiatr Serv* 2007, 58:868–871, doi: 10.1176/ps.2007.58.6.868
34. Alawadhi A, Palin V, Van Staa T. Investigating the reasons for missing an outpatient appointment in Royal Hospital, Sultanate of Oman: Perspectives of patients and medical staff in a survey. *Health Sci Rep* 2022, 5:e470, doi: 10.1002/hsr2.470
35. Miller M, Ambrose DM, Warner J. The Problem of Missed Mental Healthcare Appointments. *Clin Schizophr Relat Psychoses* 2019, 12:177–184, doi: 10.3371/CSRP.MIAM.112316
36. Hashim MJ, Franks P, Fiscella K. Effectiveness of telephone reminders in improving rate of appointments kept at an outpatient clinic: a randomized controlled trial. *J Am Board Fam Pract* 2001, 14:193–196, PMID: 11355051
37. Thomas FI, Olotu SO, Omoaregba OJ. Prevalence, factors and reasons associated with missed first appointments among outpatients with schizophrenia at the Federal Neuro-Psychiatric Hospital, Benin City. *BJPsych Open* 2018, 4:49–54, doi: 10.1192/bjo.2017.11
38. Tsai WC, Lee WC, Chiang SC, et al. Factors of missed appointments at an academic medical center in Taiwan. *J Chin Med Assoc* 2019, 82:436–442, doi: 10.1097/JCMA.000000000000068
39. Coodin S, Staley D, Cortens B, et al. Patient factors associated with missed appointments in persons with schizophrenia. *Can J Psychiatry* 2004, 49:145–148, doi: 10.1177/070674370404900210
40. Sparr L, Moffitt M, Ward M. Missed psychiatric appointments: who returns and who stays away. *Am J Psychiatry* 1993, 150:801–805, doi: 10.1176/ajp.150.5.801

41. Killaspy H, Banerjee S, King M, Lloyd M. Prospective controlled study of psychiatric outpatient non-attendance. *Br J Psychiatry* 2000, 176:160–165, doi: 10.1192/bjp.176.2.160
42. DeFife JA, Conklin CZ, Smith JM, et al. Psychotherapy appointment no-shows: Rates and reason. *Psychotherapy (Chic)* 2010, 47:413–417, doi: 10.1037/a0021168
43. Cheng KD, Huang CJ, Tsang HY, Lin CH. Factors related to missed first appointments after discharge among patients with schizophrenia in Taiwan. *J Formos Med Assoc* 2014, 113:436–441, doi: 10.1016/j.jfma.2012.09.016
44. Branson CE, Clemmey P, Mukherjee P. Text message reminders to improve outpatient therapy attendance among adolescents: A pilot study. *Psychol Serv* 2013, 10:298–303, doi: 10.1037/a0026693
45. Mavroeidi N, Sifnaios C, Krikonis K, et al. *Users' Satisfaction in Community Based Mental Health Service Provider in Greece*. *J Psychiatr Behav Sci* 2023. (Cited 12 July 2024). Available from: <https://meddocsonline.org/journal-of-psychiatry-and-behavioral-sciences/users-satisfaction-in-a-community-based-mental-health-service-provider-in-greece.pdf>
46. Kareli K, Skitsou A, Charalambous G. *The assessment of the level of satisfaction of patients with mental illnesses from the use of Mental Health services of the Mental Health Center and the Psychiatric Clinic of the Psychiatric General Hospital of Katerini, regarding the general nature of the psychiatric services provided their effectiveness and the cooperation of patients with mental health professionals*. Scientific Journal Articles 2020 (in Greek). (Cited 26 February 2024). Available from: <http://scientific-journal-articles.org/greek/free-online-journals>
47. Quintana JM, González N, Bilbao A, et al. Predictors of patient satisfaction with hospital health care. *BMC Health Serv Res* 2006, 6:102, doi: 10.1186/1472-6963-6-102
48. Crow R, Gage H, Hampson S, et al. The measurement of satisfaction with health care: Implications for practice from a systematic review of the literature. *Health Technol Assess* 2002, 6:1–6, doi: 10.3310/hta6320
49. Kemp KA, Chan N, McCormack B, Douglas-England K. Drivers of inpatient hospital experience using the HCAHPS survey in a Canadian setting. *Health Serv Res* 2015, 50:982–997, doi: 10.1111/1475-6773.12271
50. Mitropoulos P, Vasileiou K, Mitropoulos I. Understanding quality and satisfaction in public hospital services: A nationwide inpatient survey in Greece. *J Retail Consum Serv* 2018, 40:270–275, doi: 10.1016/j.jretconser.2017.03.004
51. Xesfingi S, Karamanis D, Vozikis A. Patient satisfaction at tertiary level healthcare services in Greece: Inpatient vs outpatient healthcare services assessment. *Int J Health Econ Manag* 2017, 2:125–133, doi: 10.11648/j.hep.20170203.16
52. Andreou H. *Patient satisfaction and quality of health services: Socio-economic determinants and dimensions of satisfaction expression*. Cyprus Nursing Chronicles 2013, 13:24–35 (in Greek). (Cited 26 February 2024). Available from: <https://cncjournal.cyna.org/wp-content/uploads/2019/08/CNC-13.324-35.pdf>
53. Venetsanaki M, Kourmoulaki N. *Assessment of quality of mental health services from the perspective of the served, in primary health care: The Mental Health Center of Lassithi and the Mental Hygiene and Research Center Branch of Heraklion*. Diploma thesis, Hellenic Mediterranean University, 2022 (in Greek). (Cited 26 February 2024). Available from: <https://apothesis.lib.hmu.gr/handle/20.500.12688/10530>

Table 1: Patients' clinical and sociodemographic characteristics

		N	Percent %
Sex	Women	599	52%
Family status	Married	303	26%
	Unmarried	646	56%
	Divorced	145	13%
	Widowhood	52	5%
Working Status	Unemployed	542	47%
	Employed	226	20%
	Student - Undergrad	36	3%
	Pensioner	342	30%
Residence Status	Alone	278	24%
	Family	375	33%
	Paternal Family	483	42%
	In structure	10	1%
Diagnosis	Unemotional Psychosis	432	38%
	Affective Disorders	381	34%
	Anxiety Disorders	123	11%
	Other diagnoses	191	17%
Hospitalization in the Past	Yes	488	43%

Table 2. Data on the frequency and characteristics of visits

Total Visits	1419
Average visits / day	18 reviews + 2 new patients
They did not attend the session	240 unique patients (21.5%) ¹
Patient sample	1146
New incidents	99 (30%) ²
Reference for hospitalization	3 patients relapsed (medication interruption)

1 In total 298 visits (21%)

2 Out of a total of 326 new patients of the year

Table 3. Data associated with the frequency of visits in 2023

Frequency of attendance	Average Median Mode	} 3 times/year
Frequency of attendance 4 or more / year (min 4-max 10)	338 (29.5%)	
Patients who have never been absent during the year.	669 (59.7%)	

Patients who have been absent 1 time during the year.	335(29.9%)
Patients who have been absent more than 2 times during the year.	117 (10.2%)
Patients who have attended only once during the year.	223 (19.5%), 119 (53%) ¹ ,103 (47%) ²
Patients who have never come during the year.	56 (4,9%)

1 they only had 1 scheduled session

2 had more than 1 scheduled session

Table 4. Investigation of the frequency of attendance and absences /year of the patients concerning their demographic characteristics

<i>Frequency/year</i>	<i>1-3 Times % (N)</i>	<i>4-10 Times % (N)</i>	<i>0 Times % (N)</i>	χ^2	<i>p</i>
Age				17.786	0.001
<40	72.4% (160)	22.6%(50)	5.0% (11)		
40-59	60.0% (321)	35.5% (190)	4.5% (24)		
60+	69.3% (249)	25.3% (98)	5.4% (21)		
Diagnosis				56.588	<0.001
<i>Psychotic Disorder</i>	62.1% (266)	33.9% (145)	4.0% (17)		
<i>Anxiety & Depressing Disorder</i>	67.8% (251)	26.8% (99)	5.4% (20)		
<i>Dipolar Disorder</i>	48.6% (69)	47.9% (68)	3.5% (5)		
<i>Other</i>	80.4%(164)	12.7% (26)	6.9% (14)		
<i>Absences/year</i>	<i>0 to 1 time</i>	<i>≥2 times</i>		χ^2	<i>p</i>
Working Status				9.987	0.019
Unemployed	87.8% (469)	12.2% (65)			
Employed	95.4% (207)	4.6% (10)			
Student – Undergrad	87.5% (28)	12.5% (4)			

Pensioner 88.8% (300) 11.2% (38)

The values refer to absolute and relative frequencies (%), χ^2 tests, and corresponding p-value. Bold typeface statistically significant differences are noted at the 5% significance level.

Table 5. Linear regression of questionnaire VSSS total score and the patients' clinico-sociodemographic characteristics

<i>Variable</i>	β	<i>t</i>	<i>p</i>	<i>F</i>	<i>p</i>	R^2
				3.932	0.002	0.087
<i>(constant value)</i>	4.255	18.236	<0.001			
Hospitalization	-0.125	-1.585	0.115			
Age	0.150	2.085	0.038			
Working Status	-0.001	-0.012	0.991			
Residence Status	-0.097	-1.900	0.059			
Years of cooperation	0.031	0.635	0.526			

Statistically significant differences at the 5% significance level are marked in bold.

ΕΡΕΥΝΗΤΙΚΗ ΕΡΓΑΣΙΑ

Διερεύνηση ποιοτικών χαρακτηριστικών των προσφερόμενων υπηρεσιών στα Τακτικά Εξωτερικά Ιατρεία του Αιγινήτειου Νοσοκομείου

Μπουραζάνα Δήμητρα, Βλάχος Ι. Ηλίας, Μαργαρίτη Μαρία

Α' Ψυχιατρική Κλινική, Εθνικό & Καποδιστριακό Πανεπιστήμιο Αθηνών, Αιγινήτειο
Νοσοκομείο, Εξωτερικά Ιατρεία, Αθήνα

ΙΣΤΟΡΙΚΟ ΑΡΘΡΟΥ: Παραλήφθηκε 15 Ιανουαρίου 2024/ Αναθεωρήθηκε 12 Ιουνίου 2025 /
Δημοσιεύθηκε Διαδικτυακά 5 Αυγούστου 2025

ΠΕΡΙΛΗΨΗ

Διερεύνηση ποιοτικών χαρακτηριστικών των υπηρεσιών ψυχικής υγείας που παρέχονται στα Τακτικά Εξωτερικά Ιατρεία της Α' Ψυχιατρικής Κλινικής του Αιγινήτειου Νοσοκομείου, με στόχο την παρακολούθηση και τη βελτίωσή τους. Πρόκειται για περιγραφική, συγχρονική μελέτη με στοιχεία αρχειακής έρευνας καθώς αναλύθηκαν 1.146 ασθενείς. Από αυτό το δείγμα, επιλέχθηκαν 265 ασθενείς με στρωματοποιημένη τυχαία δειγματοληψία στους οποίους χορηγήθηκε η Ελληνική Έκδοση της κλίμακας Verona Service Satisfaction Scale (VSSS-54). Από το δείγμα 1.146 ασθενών, οι 599 (52%) ήταν γυναίκες, η κύρια ηλικιακή ομάδα ήταν μεταξύ 50-59 ετών, άγαμοι 646 (56%), άνεργοι 542 (47%), ζουν στην πατρική οικογένεια 483 (42%), με διάγνωση Ψυχωτική Διαταραχή 432 (38%). Η συχνότητα των επισκέψεων ήταν 3 φορές/έτος, ενώ το 26% των ασθενών είχαν περισσότερες από 4 συνεδρίες ετησίως. Η αυξημένη συχνότητα βρέθηκε να σχετίζεται με την ηλικία των ασθενών ($p=0,001$) και τη διάγνωση ($p<0,001$). Όσον αφορά την εμπειρία ικανοποίησης από τις παρεχόμενες υπηρεσίες, 223 (84,2%) από τους ασθενείς ανέφεραν υψηλή ικανοποίηση. Όσο μεγαλύτερη είναι η ηλικία του ατόμου, τόσο υψηλότερο είναι το επίπεδο ικανοποίησης ($p<0,001$). Στα αιτήματα των ασθενών σχετικά με τη βελτίωση των υπηρεσιών, 76 (28,7%) επιθυμούσαν να κάνουν συνεδρίες ψυχοθεραπείας, 67 (25,3%) θα ήθελαν περισσότερη υποστήριξη για την απόκτηση κοινωνικών παροχών ενώ 55 (20,8%) εξέφρασαν την επιθυμία για υπηρεσίες κατ' οίκον θεραπείας. Τα ευρήματα της μελέτης σε σχέση με τα κλινικοδημογραφικά χαρακτηριστικά επιβεβαιώνουν τα ευρήματα άλλων μελετών όπου η συμμετοχή των γυναικών ήταν ελαφρώς υψηλότερη ενώ η πλειονότητα έπασχε από Διαταραχές Ψυχωτικού Φάσματος. Αν και η μέση συχνότητα προσέλευσης ήταν 120 ημέρες, όταν ιατρικά απαιτούνταν, παρασχέθηκε πιο εντατική παρακολούθηση (30-90 ημερών). Σχετικά με την ικανοποίηση των ασθενών από τις παρεχόμενες υπηρεσίες, η πλειοψηφία ανέφερε υψηλή ικανοποίηση ενώ η ηλικία των ασθενών φάνηκε να επηρεάζει τον βαθμό ικανοποίησης. Σύμφωνα με τα αιτήματα των ασθενών περισσότερη ψυχοθεραπεία και ψυχοκοινωνική υποστήριξη καθώς και υπηρεσίες κατ' οίκον θεραπείας αναφέρθηκαν ως απαραίτητες.

ΛΕΞΕΙΣ ΕΥΡΕΤΗΡΙΟΥ: Ποιότητα, ψυχική υγεία, Ικανοποίηση ασθενών, παρεχόμενες υπηρεσίες.

Επιμελητής συγγραφέας: Μπουραζάνα Δήμητρα, Α΄ Ψυχιατρική Κλινική, Πανεπιστήμιο Αθηνών, Αιγινήτειο Νοσοκομείο, Λεωφ. Βασ. Σοφίας 72–74, 115 28, Αθήνα, Ελλάδα, Email: dbouraza@eginitio.uoa.gr

Journal Pre-proof