**Clinical and demographic differences between patients with manic, depressive, and schizophrenia-spectrum psychoses presenting to Early Intervention Services in London**

Adisha Kapila¹, Helen L. Fisher2, Sonia Johnson3,4, Barnaby Major5,6, Nikola Rahaman7, John Joyce8, Nick Chamberlain-Kent9, Jo Lawrence10, Allan H Young2, James M Stone\*2

¹ Faculty of Life Sciences & Medicine, King’s College London, London, UK.

2 Institute of Psychiatry, Psychology & Neuroscience, King’s College London, London, UK.

3 Division of Psychiatry, University College London, London, UK.

4 Camden and Islington NHS Foundation Trust, London, UK.

5 EQUIP, Hackney,East London NHS Foundation Trust, London, UK.

6 Herefordshire Early Intervention Service, 2gether NHS Foundation Trust, Herefordshire, UK.

7 Kensington, Chelsea, Westminster and Brent Early Intervention Service, Central & North West London NHS Foundation Trust, London, UK.

8 Lewisham Early Intervention Service,South London and Maudsley NHS Foundation Trust, London, UK.

9 Wandsworth Early Intervention Service, South West London & St Georges’ Mental Health NHS Trust, London, UK.

10 STEP, Southwark, South London and Maudsley NHS Foundation Trust, London, UK.

\* Address correspondence to: Dr James Stone, Centre for Neuroimaging Sciences, Institute of Psychiatry Psychology & Neuroscience, 16 De Crespigny Park, London SE5 8AF, UK. Tel: +44 2032283053. Email: james.m.stone@kcl.ac.uk.

Abstract word count: 229 words

Main text word count: 2675 words

**Acknowledgements**

This work was supported by the NIHR Biomedical Research Centre for Mental Health at the South London and Maudsley NHS Foundation Trust and Institute of Psychiatry, King’s College London. The research received no specific grant from any funding agency, commercial or not for profit sectors. Initial pilot work on the MiData package within Camden & Islington Early Intervention Services was supported by Islington Primary Care Trust. We are extremely grateful to clinicians and patients from the participating teams for their time and enthusiasm. We would particularly like to acknowledge the contributions of Kate Theodore, Tom Grange, Katharine McLoughlin, Lorna Hobbs, Peggy Papada, Sally Bloy, Kelso Cratsley, Laurence Church, Rhianne Doherty, Sharif Ghali, Sasha Gold, Farhana Mann, Andrew Tapfumaneyi, Denise Bevan, Lisa Gaiotto, Peter Bailey, Jana Advani, Teuta Rexhepi, Charlie Heriot-Maitland, Mima Simic and Sujata Soni to collection of data in the individual sites. Thanks also to members of LEIRN, especially Paddy Power, Swaran Singh, Aurelie Freeman, Maxine Sacks, Gillian Paul, Brock Chisholm, Emma Stinton and Jim O’Donnell for their contributions to the development and implementation of the package.

**Abstract**

**Aim:** To investigate the relationship between the presenting clinical and demographic characteristics in first episode psychosis patients with their clinical diagnostic grouping 1 year later.

**Methods:** Data from 1014 first-presentation psychosis patients from seven London-based Early Intervention Services were extracted from the MiData audit database. Associations between clinical and demographic measures at presentation and clinical diagnosis made at 1 year were assessed with ANOVA and Chi-square tests.

**Results:** The sample comprised 76% of patients with schizophrenia-spectrum diagnoses, 9% with manic psychoses, and 6% with depressive psychoses. Compared to the other two groups, patients who were diagnosed as having manic psychosis were younger, with higher education and shorter duration of untreated psychosis, and had higher Young Mania Rating Scale scores at presentation and lower Positive and Negative Syndrome Scale (PANSS) negative scores. Patients diagnosed at 1 year as having depressive psychosis were older and more likely to be white, with the lowest PANSS positive scores at baseline. Patients diagnosed at 1 year as having schizophrenia spectrum diagnoses were more likely to be males. Patients in the 3 diagnostic subgroups of psychosis differed on both clinical and demographic characteristics at presentation.

**Conclusions:** There were significant clinical and demographic differences at presentation between first episode psychosis patients who received different clinical diagnoses at 1 year. Future work should determine the extent to which these differences can be used to guide clinical care.

**Key words:** Schizophrenia, Manic Psychosis, Bipolar Affective Disorder, Depressive Psychosis, Major Depressive Disorder, First Episode Psychosis, Diagnosis

**Introduction**

Clinical diagnosis is integral to optimal patient care,1 but in psychiatry the establishment of a clear diagnosis may be difficult.2 One reason for this is the fact that many conditions can present with similar and overlapping symptoms.3 Psychotic symptoms, notably hallucinations and delusions, are experienced in both affective and non-affective conditions, but differentiating between these subtypes in first-episode psychosis (FEP) patients is often problematic at presentation.4 Although schizophrenia spectrum (SZ) and affective psychoses have different genetic risk factors, as well as distinct symptomatic profiles,5 there remains no standard clinical test to differentiate these conditions.6 Currently, the Diagnostic and Statistical Manual of Mental Disorders (DSM) recognises five key domains of schizophrenia: delusions, hallucinations, disordered thinking, abnormal motor behaviour and negative symptoms. The affective psychoses are built on a foundation of mood instability associated with specific behavioural changes.7 These are difficult to identify and tease apart at first presentation. However, the high prospective diagnostic stability of SZ-spectrum psychoses (0.93) and affective psychoses (0.84) at first presentation affirms the value of early diagnostic precision.

Psychosocial risk factors have long been suggested to play an important role in the development of psychotic illness,8-11 and it is possible that different risk factors might underlie affective and SZ psychoses, and that these could be used to improve diagnostic accuracy at first presentation in psychosis patients. This has the potential to significantly improve long-term management.12 Most research to date on the association of psychosocial risk factors with psychosis has focused on SZ psychoses.13-16 There have, in addition, been several studies comparing psychosocial factors in SZ, manic (MP) and schizoaffective (SA) psychoses in FEP; the results of these studies identify SA psychosis as an intermediate phenotype between SZ and bipolar disorder (BD), including on psychosocial variables such as age, education and marital status.17-25

There are a relatively small number of studies examining psychosocial factors in FEP patients with depressive psychosis (DP).26-29 Interestingly, two of these studies found that there were more overlapping features between patients with depressive psychosis (DP) and SZ than with BD.28, 29 This is somewhat at odds with the hypothesis that patients with DP are often in the early stages of bipolar disorder.30 Understanding the differences in presentation may enable clinicians to recognise and differentiate between MP, SZ and DP at an earlier stage, ultimately influencing future management and recovery. In this study, we aimed to test the hypothesis that different clinical diagnoses at 1 year in FEP patients taken on by Early Intervention in psychosis Services (EIS) in London were associated with distinct sociodemographic and clinical features at first presentation.

**Method**

Data were drawn from MiData, a computerized audit tool based within Microsoft Access which was developed by the London Early Intervention Research Network.31 Baseline measures were completed by clinicians based on their routine comprehensive assessments within 1 month of entry to EIS (baseline) and then 1 year later (follow-up). All clinicians were trained and were expected to reach at least 85% concordance with expert raters and other team members before being allowed to complete the measures on their patients.31

The MiData database comprises a naturalistic cohort of patients consecutively accepted onto the caseloads of seven inner-city EIS between 2003 and 2010 from the following NHS (National Health Service) Mental Health Trusts in England: Camden and Islington (C&I EIS); South London and Maudsley (Lewisham EIS and STEP); South West London and St. George’s (Wandsworth); East London and the City (EQUIP); and Central and North West London (Brent and Kensington, Chelsea & Westminster EIS). Service eligibility criteria were: (i) aged between 18 and 35 years old; (ii) presenting to the EIS for the first time with a psychotic episode lasting at least 7 days; and (iii) resident within the EIS catchment area. Patients with psychotic symptoms as a direct result of acute drug intoxication were excluded from the database. There were 1108 patients in total in the MiData database.

Basic demographic data were obtained at baseline, including gender, age at entry to EIS, educational level, employment status, whether born in the UK, and ethnicity based on the 2001 UK national census categories. Participants were assessed for the presence or absence of: (i) family history of psychosis or any other mental illness in a first-degree relative; (ii) any incidents of violence towards others in their lifetime.

The degree of hostility in the preceding 2 weeks before presentation was assessed using the Brief Psychiatric Rating Scale.32 This variable was quantitatively rated from 1 (none) to 7 (extremely severe). Substance use was measured with the combined alcohol use and drug use scale.33 The lifetime use of *Alcohol, Nicotine* and *Cannabis* ('yes'/'no' for each) was recorded at presentation.

Duration of Untreated Psychosis (DUP) was assessed with a revised version of the Nottingham Onset Schedule.34 DUP was defined as: the number of days between the appearance of the first positive psychotic symptom (hallucination, delusion or thought disorder) and the date that antipsychotic medication was initiated and thereafter reported to have been taken for at least 75% of the subsequent month.

The Positive and Negative Syndrome Scale (PANSS)35 was completed by clinicians at baseline to assess positive (PANSS-P) and negative (PANSS-N) psychotic symptoms. The Young Mania Rating Scale (YMRS)36 was completed to assess manic symptoms. The Global Assessment of Functioning Scale disability subscale (GAF-d)37 was also completed at baseline.

ICD-10 (International Classification of Diseases-10)38 diagnosis was recorded at 1-year follow up and was extracted from clinical records and confirmed with EIS consultant psychiatrists. These were grouped into schizophrenia-spectrum disorders (SZ) (ICD-10 codes F20-29), manic psychoses (MP) (F30.2, F31.2 or F31.5), depressive psychoses (DP) (F32.3, F33.3 or F39), and other disorders (OD) (all other codes).

***Ethical Approval***

Data were collected by each EIS in accordance with local audit procedures, which did not require patients to consent to collection of the data. Multi-centre ethical permission for secondary research use of anonymized versions of these datasets was provided by the Wandsworth Research Ethics Committee. HLF merged together the anonymized data supplied by each EIS following written consent from the team managers.

***Missing Data***

The supplementary tables reveal the distribution of missing data for each variable between the diagnostic categories. Any variable with greater than 50% missing data was not included in the subsequent analyses. Chi-square tests were performed to reveal any variables with statistically significant differences in missing data between the diagnostic subgroups; any such variables were also excluded from the subsequent analyses.

***Data Analysis***

The clinical diagnosis at follow-up remained the independent variable throughout. The subgroups were initially compared using standard baseline demographic variables: age, gender and ethnicity. Additional baseline variables were selected for further subgroup comparison. These variables were selected as they either a) presented significant results based on a preliminary comparison of all 148 baseline variables or b) were comparable factors used in prior studies comparing FEP patients with SZ, DP and MP. A final evaluation by Team was conducted to check for bias in the audit data collection.

Analysis for this paper was conducted using SPSS version 22 for Windows. Results are expressed as: mean (standard deviation) for continuous variables and as frequency *n* (%) for categorical variables. The *p* value was calculated for each dependent variable using standard procedures; statistical significance was set at p < 0.05. Histogram, box plots and QQ plots were used to assess for normality and outliers. For continuous variables, a one-way analysis of variance (ANOVA) test was used. The effect size was measured with the omega-squared measure (*ѡ²*), rather than eta-squared, to reduce bias.39 For categorical variables, the Pearson chi-square test for association (*χ2*) was used. Column proportions were compared using z-tests. *Post-hoc analysis* using Tukey’s honestly significant difference (HSD) test was performed on variables with statistically significant ANOVA values and a Bonferroni correction was used to account for multiple testing. Missing cases were automatically excluded by SPSS for each analysis.

**Results**

In total, 1014 patients in the MiData database had a diagnosis recorded at 1 year (92% of patients in database). Of these, 76% were categorised as SZ (N = 770), 9% as MP (N = 93), 6% as DP (N = 60) and 9% as OD (N = 91). As the heterogeneous nature of the OD subgroup would prevent any robust interpretation of the results, these patients were excluded to allow for a clearer comparison of the remaining three subgroups (N = 923). The majority of the remaining cohort was male (*n* = 598, 65%), and the mean age at presentation was 23 years old (SD = 4.7). The only significant difference between different EIS was that the Camden and Islington service had a lower proportion of SZ patients than the Wandsworth (ETHOS) and Hackney (EQUIP) services (Table 1).

There were significant differences between the diagnostic subgroups for age, gender and ethnicity at presentation (Table 2). Patients with a diagnosis at 1 year of MP were the youngest at presentation (mean [SD] = 22.4 [4.6]), with a greater proportion of female patients (46% male). SZ patients were predominantly male (68%) and DP patients were the oldest. DP patients were more likely to be from a White Other ethnic background than SZ patients.

There were significant distinctions at presentation for a number of other variables. Level of hostility was higher in SZ than DP (p<0.05), although there was also a non-significant trend for hostility in MP to be higher than in DP (p<0.1). DUP was lower in MP than SZ or DP (p<0.05). Level of education was higher in MP than DP (p<0.05). SZ patients presented with a significantly higher incidence of violence in lifetime than DP patients (p<0.05).

The three diagnostic subgroups did not differ on country of birth, family history of psychosis or any mental illness, employment status, alcohol use, cannabis use and nicotine use (Table 2).

Table 3 shows a breakdown of the clinical measures at baseline. There was a significant difference in baseline PANSS-P scores (F(2, 535) = 5.27, p = 0.005, *ѡ* = 0.13), PANSS negative scores (F(2, 514) = 6.73, p = 0.001, *ѡ* = 0.15) and YMRS scores (F(2, 532) = 24.24, p < 0.001, *ѡ* = 0.28) between diagnostic groups at 1 year. There were no significant baseline differences between the subgroups in GAF-d score.

Post-hoc analysis revealed that MP patients had a lower PANSS-N score (mean (SD) = 12.7 (5.55)) than SZ (mean (SD) = 17.0 (8.21), *p* = 0.001) and DP patients (mean (SD) = 17.3 (8.15), *p* = 0.019). They also had a greater YMRS score than DP and SZ patients (mean (SD) = 17.8 (14.04), *both p’s* < 0.001), and a greater PANSS-P score (mean (SD) = 20.9 (8.86)) than DP patients (mean (SD) = 15.7 (5.31), *p* = 0.004).

**Discussion**

This is the largest study to date investigating the sociodemographic and clinical features of MP, DP and SZ patients at first presentation to EIS in London. A key proportion of patients were differentiated from SZ patients as MP (9%), DP (6%) and OD (9%) at 1 year. The proportion of patients with each diagnosis did not differ significantly between any of the EIS apart from Camden and Islington, most likely due to a difference in referral pattern or acceptance thresholds.

We found that MP patients differed most markedly from the SZ and DP subgroups, having shorter DUP, higher ratings on the YMRS, and lower negative symptoms (as measured by PANSS-N). The use of DUP as a measure of time should be interpreted with caution as it excludes any change in mood symptoms, which may present months before an acute manic episode.40 Our finding that DP and SZ patients were more similar to each other than to MP patients is in keeping with earlier reports comparing psychosocial risk factors and psychopathology in FEP patients.28, 29 It is important, however, to appreciate the potential limitations of using the PANSS to assess negative symptoms in patients with depression. Confounding features shared between depression and negative symptoms diminish its specificity, especially as other key domains of negative symptomatology are absent.41 Thus the relatively higher PANSS-N scores in the DP group in this study may have been due, at least in part, to depressive rather than negative symptoms.

In this study, the baseline demographics of each diagnostic subgroup were generally in keeping with previous reports: the majority of patients with SZ were male;3, 17, 19, 20, 24-27, 29 MP patients were youngest at presentation but had achieved the highest level of education;17, 19, 24, 27 MP patients had shorter DUP, a critical factor associated with better long term outcomes and quality of life.26, 42, 43

The number of baseline variables producing a statistically significant difference involving all three diagnostic subgroups was limited. Furthermore, the calculated effect size of these differentiating variables was often small. These results underscore the multifaceted aetiology of these conditions and demonstrate the degree of overlap between the subgroups. In this study, SZ patients often occupied an intermediate level between DP and MP patients, and previous research has already proposed schizoaffective disorder as the intermediate between SZ and MP.20, 23-25 These findings contribute to the ongoing discussion concerning the existence of a psychosis spectrum.10, 15

The idea of the psychosis continuum has been developed as an alternative approach to categorical diagnosis in psychotic illness. It argues that the psychopathological profile at presentation is a better predictor of outcome than diagnostic subgroup,44-46 and highlights a subset of the population with psychotic symptoms below the DSM criteria.10 The diagnostic stability of the subgroups has also previously been questioned,3 although a recent study reaffirmed the high diagnostic stability of SZ and affective psychoses.47 Furthermore, patients with first-episode psychosis generally prefer to be told their diagnosis.48 Nonetheless, it is worth remembering that future work will possibly redefine diagnostic categories in psychiatry based on underlying biological processes rather than superficial psychopathology.49 This will ensure a better understanding of the distinct symptomatic profiles, and provide clues to earlier prevention strategies in primary care.50

Although this study illustrates the potential overlap in psychosocial variables, there were significant differences at presentation between the subgroups, supporting a more categorical distinction.51 These distinctions could aid clinicians in their diagnostic accuracy at initial assessment; in practice, taking a detailed collateral history would be important to ascertain these psychosocial variables. Ultimately, the critical objective is optimal treatment management. Studies have already illustrated the variable response to Lithium as a sole treatment by SZ patients, who show no significant improvement, compared to bipolar patients.52 Therefore, an inaccurate preliminary diagnosis may delay effective interventions. In particular, early and accurate diagnosis of DP patients is critical; this condition is often underreported and undertreated.53 Further evaluation of the diagnostic stability, reliability and prognostic value of the diagnostic subgroups is required to determine the best outcome of this debate.

Although this naturalistic study design contained a large cohort, and was therefore reasonably representative of the study population, there were a number of limitations which deserve attention. The first set of limitations relate to the collection of the primary data used. The audit data was compiled by clinicians, not researchers. The current study centres around the clinical diagnosis at follow-up, however the factors employed to determine this outcome are largely unknown. For example, it would have also been interesting to note any changes to the preliminary working diagnosis. Additionally, the relatively small sample size of MP and DP patients warrants replication of these results using larger cohorts of patients with these diagnoses. Finally, the dataset contained a large amount of missing data; it is possible that a number of variables were not representative of the population. However, this bias was minimised as (i) the key demographics of the missing data did not vary from those of the whole cohort, (ii) no more than 50% of data was missing for any variable and (iii) there were no significant differences in missing data between the diagnostic subgroups. Missing data is common for audit data, especially in those of longitudinal design.

**Conclusion**

Patients presenting to EIS in London show distinct differences in both demographic variables and psychopathology at presentation between those who are eventually diagnosed with DP, MP and SZ. These findings may assist clinicians in improving the accuracy of diagnosis in patients with first episode psychosis at initial presentation, and to design appropriate packages of care, although more accurate biomarkers would extend the usefulness of this approach. Further work to elucidate distinctions in the pathogenesis and aetiology of each disorder is vital to our understanding of these complex conditions.

**Ethical Standards**

The authors assert that all procedures contributing to this work comply with the ethical standards of the relevant national and institutional committees on human experimentation and with the Helsinki Declaration of 1975, as revised in 2008.

**Table 1: The diagnostic outcomes allocated from each of the seven London-based EIS teams**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **Clinical diagnosis at 1 year** |  |
|  | *n* | **SZ****N=770** | **MP****N=93** | **DP****N=60** |  *χ2* (df)  |
| **EIS, *n* (%)** | 27.60 (12)\* |
| C&I  | *232* | 177 (76.3) | 29 (12.5) | 26 (11.2) |  |
| EQUIP  | *140* | 125 (89.3) | 10 (7.1) | 5 (3.6) |
| ETHOS | *107* | 98 (91.6) | 5 (4.7) | 4 (3.7) |
| KCW | *101* | 78 (77.2) | 14 (13.9) | 9 (8.9) |
| Lewisham | *239* | 202 (84.5) | 27 (11.3) | 10 (4.2) |
| STEP | *79* | 70 (88.6) | 6 (7.6) | 3 (3.8) |
| Brent  | *25* | 20 (80.0) | 2 (8.0) | 3 (12.0) |
| *Significant differences between groups* |  | *ETHOS, EQUIP > C&I* |  |  |  |

*n, frequency; P, P-value (\* < 0.05, \*\* < 0.005, \*\*\* < 0.001); SZ, schizophrenia-spectrum; MP, manic psychosis; DP, depressive psychosis; EIS, Early Intervention Service; C&I, Camden & Islington EIS; EQUIP, Hackney EIS; ETHOS, Wandsworth EIS; KCW, Kensington, Chelsea & Westminster EIS; STEP, Southwark EIS; Brent, London borough of Brent EIS.*

**Table 2: Sociodemographic characteristics at baseline for cases based on follow-up diagnosis**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | *n* | **Clinical diagnosis at 1 year****N = 923** |  |  |
| **SZ****N=770** | **MP****N=93** | **DP****N=60** | *F/χ2* (df) | *Significant differences between groups* |
| **Age, years, mean (SD)** | *922* | 23.3 (4.7) | 22.4 (4.6) | 24.7 (5.4) | 4.47 (2)\* | DP > MP |
| **Gender, *n* (%)** |  |  |  |  | χ*2* =25.34 (2)\*\*\* |  |
| Male  | *598* | 526 (68.3) | 43 (46.2) | 29 (48.3) |  | SZ > MP, DP |
| Female  | *325* | 224 (31.7) | 50 (53.8) | 31 (51.7) |  | MP, DP > SZ |
| **Ethnicity, *n* (%)** |  |  |  |  | *χ2* = 25.68 (14)\* |  |
| White British  | *187* | 157 (20.4) | 14 (15.1) | 16 (26.7) |  |  |
| White Other  | *104* | 76 (9.9) | 13 (14.0) | 15 (25.0) |  | DP > SZ |
| Mixed | *82* | 68 (8.9) | 11 (11.8) | 3 (5.0) |  |  |
| Asian | *103* | 90 (11.7) | 9 (9.7) | 4 (6.7) |  |  |
| Black Caribbean  | *94* | 80 (10.4) | 10 (10.8) | 4 (6.7) |  |  |
| Black African | *246* | 213 (27.7) | 20 (21.5) |  13 (21.7) |  |  |
| Black Other  | *74* | 60 (7.8) | 12 (12.9) | 2 (3.3) |  |  |
| Other  | *31* | 24 (3.1) | 4 (4.3) | 3 (5.0) |  |  |
| **DUP, days, mean (SD)** | *615* | 104.8 (113.1) | 31.3 (38.1) | 116.1 (120.0) | 13.72 (2)\*\*\* | MP < SZ, DP |
| **Hostility, mean (SD)¹** | *648* | 2.3 (1.8) | 2.3 (1.9) | 1.6 (0.9) | 4.14 (2)\* | SZ > DP |
| **Education², mean (SD)** | *794* | 2.9 (1.8) | 3.2 (1.9) | 2.5 (1.5) | 2.82 (2) | MP > DP |
| **Born in UK, *n* (%)** |  |  |  |  | *χ2* = 4.03 (2) |  |
| Yes | *527* | 446 (60.8) | 53 (60.2) | 28 (47.5) |  |  |
| No | *354* | 288 (39.2) | 35 (39.8) | 31 (52.5) |  |  |
| **FH of Psychosis, *n* (%)** |  |  |  |  | *χ2* = 0.54 (2) |  |
| Yes | *176* | 148 (22.0) | 18 (24.3) | 10 (18.9) |  |  |
| No | *623* | 524 (78) | 56 (75.7) | 43 (81.1) |  |  |
| **FH of any mental illness, *n* (%)** |  |  | *χ2* = 1.71 (2) |  |
| Yes | *170* | 140 (20.9) | 20 (27.0) | 10 (18.9) |  |  |
| No | *628* | 531 (79.1) | 54 (73.0) | 43 (81.1) |  |  |
| **Employment status, *n* (%)** |  |  | *χ2* = 3.15 (4) |  |
| Employed | *121* | 100 (14.2) | 11 (13.8) | 10 (17.5) |  |  |
| Unemployed | *537* | 456 (64.9) | 46 (57.5) | 35 (61.4) |  |  |
| Other | *182* | 147 (20.9) | 23 (28.7) | 12 (21.1) |  |  |
| **Violence in lifetime, *n* (%)** |  |  | *χ2* = 6.63 (2)\* |  |
| Yes  | *249* | 219 (40.9) | 21 (38.9) | 9 (20.9) |  | SZ > DP |
| No  | *384* | 317 (59.1) | 33 (61.1) | 34 (79.1) |  | DP > SZ |
| **Alcohol use, *n* (%)** |  |  | *χ2* = 3.71 (2) |  |
| Yes  | *333* | 275 (57.5) | 36 (67.9) | 22 (48.9) |  |  |
| No  | *243* | 203 (42.5) | 17 (32.1) | 23 (51.1) |  |  |
| **Nicotine use, *n* (%)** |  |  | *χ2* = 1.42 (2) |  |
| Yes  | *210* | 179 (37.5) | 18 (34.6) | 13 (28.9) |  |  |
| No  | *364* | 298 (62.5) | 34 (65.4) | 32 (71.1) |  |  |
| **Cannabis use, *n* (%)** |  |  | *χ2* = 3.35 (2) |  |
| Yes | *330* | 279 (58.5) | 31 (58.5) | 20 (44.4) |  |  |
| No | *245* | 198 (41.5) | 22 (41.5) | 25 (55.6) |  |  |

*n, frequency; SZ, schizophrenia-spectrum; MP, manic psychosis; DP, depressive psychosis; GAF-d, Global Assessment of Functioning Scale–disability subscale; PANSS, Positive and Negative Syndrome Scale; YMRS, Young Mania Rating Scale; DUP, Duration of Untreated Psychosis (time between first psychotic symptom and compliance with medication); P, p-value (\* < 0.05, \*\* < 0.005, \*\*\* < 0.001); df, degrees of freedom; SD, standard deviation;* *¹, degree of symptom in preceding 2 weeks (0-7);* ²*, highest level of qualification scale (1-7): no qualifications (1), GCSES (2), A-levels (3), professional qualification/Higher National Diploma (4), degree incomplete (5), degree complete (6), post-grad training (7); FH, family history.*

**Table 3: Clinical measures breakdown at baseline based on clinical diagnosis at 1 year.**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **Clinical diagnosis at 1 year****N = 923** |  |
|  |
|  | *n* | **SZ****N=770** | **MP****N=93** | **DP****N=60** | *F* (df = 2) | *Significant differences between groups* |
| **PANSS-P, mean (SD)** |  |  |
| Baseline | *538* | 18.4 (7.7) | 20.9 (8.9) | 15.7 (5.3) | 5.27\*\* | DP < MP |
| **PANSS-N, mean (SD)** |  |  |
| Baseline | *517* | 17.0 (8.2) | 12.7 (5.6) | 17.3 (8.1) | 6.73\*\*\* | MP < SZ, DP |
| **YMRS, mean (SD)** |  |  |
| Baseline | *535* | 9.2 (8.5) | 17.8 (14.0) | 6.0 (5.3) | 24.24\*\*\* | MP > SZ, DP |
| **GAF-d, mean (SD)** |  |  |
| Baseline | *537* | 49.9 (17.7) | 52.2 (18.9) | 47.1 (16.2) | 0.96 |  |

*n, frequency; SZ, schizophrenia-spectrum; MP, manic psychosis; DP, depressive psychosis; PANSS, Positive and Negative Syndrome Scale; YMRS, Young Mania Rating Scale; GAF-d, Global Assessment of Functioning Scale disability subscale; P, p-value (\* < 0.05, \*\* < 0.005, \*\*\* < 0.001); SD, standard deviation; df, degrees of freedom.*

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