

Blood Tests in Psychiatric Patients-Evaluation and Improving the Process

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Aims/background. The aim of this project is to assess which specific laboratory tests were being requested to psychiatric patients in our trust prior to developing a new local guideline to help standardise the blood testing to improve quality of patient care and reduce wastage in NHS due to inappropriate blood tests. It also assessed financial implication of unnecessary blood tests.

There are several reasons for the purpose of blood tests:

- To identify medical conditions that might be causing or contributing to a psychiatric presentation
- Provide baseline for safer initiation of psychotropic medication that can cause adverse effects
- To screen for medical problems who are less likely to attend primary care. Requesting blood tests is a clinical responsibility. Currently there is no formal guidance on which specific lab tests should be ordered for psychiatric patients and was felt a new local guideline was essential to rationalise blood testing

Methods. A survey was circulated to all wards and community mental health teams within our trust to get a clear insight about current practice.

The survey questions included:

- Place of work?
- What is included in routine blood tests list?
- Who created and approved the blood list?
- Where is the blood list kept?
- When was it reviewed?

Results. Results showed

- Significant variation in blood test requesting within our trust emphasising need for standardization using evidence based methods.
- Unnecessary repetition of blood tests like thyroid function and vitamin D levels against guidelines
- Unwarranted blood test request when clinically not indicated like including Troponin and Creatine kinase in routine tests. The results were shared to all staff through meetings.

Conclusion. Recommendations were drawn to improve optimisation of resource use, communication between health professionals and the need for standardisation in requesting blood tests.

Abstracts were reviewed by the RCPsych Academic Faculty rather than by the standard *BJPsych Open* peer review process and should not be quoted as peer-reviewed by *BJPsych Open* in any subsequent publication.

Prevalence and Outcomes of First-Episode Psychosis With Substance Misuse Within an Outpatient Setting

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Aims. Misuse of certain drugs is a common precipitant of first-episode psychosis (FEP). Substance misuse is known to exacerbate

psychotic symptoms, and it is unclear if substance misuse at the time of initial presentation impacts outcomes of care in FEP. Here, in this quality improvement project (QIP), we aimed to quantify the prevalence of drug misuse within an outpatient early intervention service (EIS) and determine the outcomes (in terms of time-to-discharge and discharge destination) of service users based on their substance misuse history.

Methods. In this QIP, we randomly sampled 100 patients referred to and discharged from an outpatient service for psychosis (Barnet EIS). We excluded patients who were referred to the service but were discharged due to referral rejection, non-attendance at psychiatry review and/or other reasons. Data regarding demographic and clinical information, the nature of substance misuse, and discharge destinations were obtained through a review of electronic health records, including GP letters and hospital notes. The time-to-discharge was defined as the time between referral acceptance and discharge from EIS. As this work is part of a QIP, written consent was not obtained to conduct this project.

Results. Of 100 patients obtained from the discharged caseload, 38 patients were accepted and reviewed in Barnet EIS. 24 patients (63.2%) had no substance misuse history at the time of initial FEP, while 14 patients (36.8%) had some substance misuse history. Of the 14 patients with substance misuse, cannabis was most frequently used. The average age of patients was 27.2 ± 1.4 years old. The age of onset of psychosis was similar between patients with and without substance misuse (two-sample t-test, $p = 0.74$).

In terms of discharge destination, patients with and without substance misuse were discharged back to their GPs at similar proportions (chi-square test, $p = 0.81$). Finally, the number of days patients spent under the care of Barnet EIS was similar between patients with and without substance misuse (two-sample t-test, $p = 0.54$).

Conclusion. In this QIP, over 30% of patients presenting with FEP reported substance misuse. The most common recreational drug used was cannabis. Discharge destinations and the time spent in EIS were broadly similar between patients with and without substance misuse. The relatively high rates of substance misuse in FEP found in this study have important implications for commissioning additional services – such as urine drug testing or drug liaison services – within EIS teams.

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Re-Audit of Physical Examination and Blood Tests Completed Within 24 Hours of Admission to Psychiatric Ward

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Aims. To establish if the creation of a checklist of examination and investigations required within 24 hours of admission to Psychiatric ward had improved practice and patient care.

Methods. This was a snapshot audit. On 7th August 2022 I carried out a retrospective review of the case notes & results on electronic recording system to ascertain which investigations had been completed for all current in-patients on Ward 4, Dr Gray's Hospital, Elgin. I noted how soon after admission these tests had been completed.

I compared these data with results from a previous audit in January 2022 which had highlighted failings in meeting the standards recommended by Royal College of Psychiatrists. The initial audit led to the creation of an Admission checklist to improve practice. The results from August 2022 demonstrated the impact of the checklist.

Results. On 7th August 2022, there were 18 inpatients in Ward 4. Duration of admission varied from 1 day to 1,259 days.

The 3 routine investigations of Physical Examination, ECG and Bloods were completed within 24 hours of admission much more reliably than the initial audit.

Bloods were completed in 100% of cases compared to 52.9% in January 2022. Physical Examination was completed in 94.4% compared to 76.4% in January 2022. ECG was also completed in 94.4% compared to 58.8% in previous audit.

Conclusion. There was a marked improvement in completion of examination, investigations and recording of the results since creation of a checklist. This could be due to increased awareness of the requirements aided by the visible prompt of the checklist on the ward.

Staff are recognizing that mental health cannot be viewed in isolation from physical health which improves the quality of care patients receive during admission. Any health needs can be identified early allowing time for referral if required.

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Reducing Restrictive Practice on a Medium Secure High Dependency Forensic Inpatient Unit

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Aims. Restrictive practice can include physical and chemical restraint and should be utilised as a last resort. It has been found to negatively impact patients causing psychological distress, re-traumatisation, and a sense of helplessness. Restrictive practice also negatively impacts staff, causing emotional distress, moral conflict and the risk of physical harm. Since 2018, there has been a drive to reduce restrictive practice in inpatient mental health wards across England by the National Collaborating Centre for Mental Health, which has been further developed by NHS England in 2021 within the Mental Health Safety Improvement Programme (MH-SIP). This study aims to reduce restrictive practice on a 10-bedded Medium Secure High Dependency Male Forensic Mental Health Unit over a 6-month period, incorporating staff and patient feedback and utilise QI methodology.

Methods. Number of total seclusion hours, seclusion episodes and secluded patients per day were measured at baseline utilising the Rio clinical system and continuously tracked during the study period. Interventions were discussed by a multi-disciplinary team including nurses, pharmacists, health care assistants, occupational therapists, psychologists, and doctors. Patients were invited to give feedback on restrictive practice during ward rounds. Potential interventions were then implemented utilising PDSA methodology with iterative changes tested and analysed. Staff and patients were also invited to complete surveys and semi-structured interviews to give further comments during the study.

Results. Baseline data of monthly activity showed 3,758 total seclusion hours, 10 seclusion episodes and 5.3 seclusions per day. Iterative interventions included; (i) MDT discussions to support positive risk

taking (ii) Improved collaborative care planning with patients (iii) Incident calendars for patients (iv) excel spreadsheet indicating progress towards leave / referral to stepdown ward and (v) improving transparency on impact of incidents on progress. Month 6 activity showed 174 total seclusion hours (95% reduction), 1 seclusion episode (90% reduction), and 1 average seclusion per day (82% reduction). A survey completed at the end of the study period showed all patients either strongly agreed or agreed that they understood the process for termination of seclusion, with 100% either responding between "neutral" to "strongly agree" that this had improved.

Conclusion. It was hypothesised that a more collaborative approach with positive risk taking could lead to the reduction of restrictive practice. The interventions enacted have significantly reduced the use of restrictive practice. Further study is recommended into these interventions to review if similar results can be replicated in other inpatient wards.

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An Audit of Information Provided to Paramedics / A&E Staff on Transfer to the Colchester General Hospital

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Aims. Following feedback from paramedics and staff, escorting patients to the A&E, concerns were raised when some information was missed during the verbal handover from patient/escorting staff to the ambulance/A&E staff. At times the purpose of the transfer was not clear. Essex Partnership University NHS Foundation Trust (EPUT) "Discharge and Transfer Clinical Guidelines" (CG24) provides clear guidelines to staff when a person is transferred while in the care of the Trust to another service such as another acute trust or, discharged from EPUT services completely. However, there are no current guidelines available for transferring patients for clinical reasons: in case of emergency or acute medical condition, for specialist treatment or investigation. The standard was used: the "Ambulance handover to emergency care standard V1.0" created by Professional Record Standards Body (PRSB). 100% of patients should have a support letter from doctors with relevant information shared with paramedics or the A&E department on transfer to a general hospital. The scope of the audit was Peter Bruff Mental Health Assessment Unit and Ardleigh Acute Inpatient Ward.

Methods. The data were collected retrospectively from notes available on the electronic health record database (Paris). The audit tool focused on quantitative and qualitative data collection on patient transfer.

Inclusion criteria: all patients admitted to the Peter Bruff MH Assessment Unit (male and female) and the Ardleigh Ward (female) over the period from 1 September to 15 September 2022. All data were anonymised. Results were tabulated and presented in statistical form back to the clinical teams.

Results. There were identified 18 male and 33 female patients on the Peter Bruff MH Assessment Unit. 2 patients were sent to the A&E via ambulance and 4 patients attended the A&E with staff escort. A support letter was available on one occasion. Compliance 17%.