

Indicator development programme
CPRD testing report
**Smoking: cessation success in people with bipolar,
schizophrenia and other psychoses**

This paper includes the results from using CPRD data to test the feasibility of the draft indicator on smoking cessation success in people with bipolar, schizophrenia and other psychoses.

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Objective

To use CPRD Aurum data¹ to test the feasibility of using primary care data to find smoking cessation success in people with severe mental illness (bipolar disorder, schizophrenia and other psychoses) and understand current performance.

Background

In 2022, the Indicator Advisory Committee (IAC) discussed health inequalities and it was agreed that indicators targeting the management of smoking in patients with severe mental illness (SMI) would be developed. An indicator was agreed at the IAC meeting in September 2023. The IAC agreed that this indicator would be progressed for consultation as a network/system level indicator:

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The percentage of patients with schizophrenia, bipolar affective disorder and other psychoses recorded as current smokers in the previous 1 to 3 years, who were recorded as ex-smokers in the preceding 12 months.

Methodology

Data was obtained on smoking status from 1 April 2020 to 31 March 2023 for all patients with a severe mental illness. Any patient recorded as a current smoker between 1 April 2020 – 31 March 2022 was then reviewed to identify whether they had an ex-smoker or non-smoker status recorded as their most recent smoking status, between 1 April 2022 – 31 March 2023.

¹ [Clinical Practice Research Datalink](#) (CPRD) is a real-world research service jointly sponsored by the Medicines and Healthcare products Regulatory Agency and the National Institute for Health Research (NIHR), as part of the Department of Health and Social Care. CPRD collects anonymised patient data from a network of GP practices across the UK to provide a longitudinal, representative UK population health dataset including 16 million currently registered patients. CPRD collects electronic health records in two separate databases depending on the practice software system, CPRD Aurum contains data from practices using EMIS and CPRD Gold contains data from practices using Vision.

Results

Table 1 CPRD data²: Patients with SMI smoking information including cessation rates at 31/03/2023

Population	Number of patients
Patients registered for at least 4 years with a record of SMI.	107,419
Patients with SMI with any smoking status recorded between 01/04/2019 and 31/03/2023	100,056
Patients with a record of being a current smoker between 01/04/2019 and 31/03/2022	39,462
Patients with a record of being an ex-smoker between 01/04/2022 and 31/03/2023	7,487

Key findings

- CPRD shows 0.6% prevalence of SMI (around 62 per 10,000). This appears similar to 2022/23 QOF data that showed 0.8% prevalence (84 per 10,000).
- CPRD shows that 93.1% of people with SMI had a smoking status recorded and 39.4% of people with SMI were current smokers (around 23 per 10,000). This correlates with [Office for Health Improvement and Disparities data](#) for England showing that, in 2014/15, 40.1% of adults with SMI were smokers. For comparison, 13.6% of all adults were current smokers.
- CPRD shows that 18.9% of people with SMI recorded as current smokers in the previous 3 years were recorded as ex-smokers in the most recent 12 months.

² Clinical Practice Research Datalink. (2024). CPRD Aurum March 2024 (Version 2024.03.001) [Data set]. Clinical Practice Research Datalink. <https://doi.org/10.48329/yxmq-vk87>

Appendix 1: CPRD data results table

Measure	Definition	N	%
A) All acceptable male or female patients in the population on 31/03/2023	(sex == 1 or sex == 2) AND accept ==1 AND not in duplicate practices AND regstartdate <= 31/03/2023 AND min(lcd,regenddate,cprd_ddate)> 31/03/2023	17,393,578	100%
B) Of A) patients with 4 years of prior registration	regstartdate + 1460 <= 31/03/2023	11,336,015	65.17
C) Of B), Patients with a record of SMI at any time prior to 31/03/2023	SMI_obsdate < 31/03/2023	107,419	0.95
Outputs including all smoking codes			
D) Of C), Patients with any smoking status recorded between 01/04/2019 and 31/03/2023	smokstatus_obsdate<=31/03/2023 AND smokstatus_obsdate>=01/04/2019	100,056	93.15
E) Of D), Patients with a record of being a current smoker between 01/04/2019 and 31/03/2022	smokstatus48_12 = 1	39,462	39.44
F) Of, E) Patients whose latest record between 01/04/2022 and 31/03/2023 indicates that they are a current-non-smoker	smokstatus12_0 = 2	7,487	18.97
Outputs excluding non-informative smoking codes			
D) Of C), Patients with any smoking status recorded between 01/04/2019 and 31/03/2023	smokstatus_obsdate<=31/03/2023 AND smokstatus_obsdate>=01/04/2019	100,001	93.09
E) Of D), Patients with a record of being a current smoker between 01/04/2019 and 31/03/2022	smokstatus48_12 = 1	39,462	39.46
F) Of, E) Patients whose latest record between 01/04/2022 and 31/03/2023 indicates that they are a current-non-smoker	smokstatus12_0 = 2	7,487	18.97
(Note: 23.3% of people had no smoking status recorded in the 12 months prior to index)			