



Unrestricted					
Data and Business Rules – Mental Health Indicator Set					
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## **New GMS Contract QOF Implementation**

### **Dataset and Business Rules**

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### **Mental Health Indicator Set**

**Amendment History:**

<b>Version</b>	<b>Date</b>	<b>Amendment History</b>
Draft 0.3	21-Jun-2003	From Peter Horsfield
1.0	24-Sep-2003	Standard Headers and footers Applied and set to approved.
1.1	03-Nov-2003	Added headers and footers to Version 0.4 received from Pete Horsfield on 03/11/03.
2.0	12-Nov-2003	Amended following 4 Country review
3.0	20-Jan-2004	Amended following January READ Code Release
4.0	04-Feb-2004	Amended following 4 Country, GPSS and internal review
4.1	09-Apr-2004	SNOMED-CT codes added, 4-byte Read codes removed
4.2	09-Jul-2004	Amended following July READ code release
5.0	27-Sep-2004	Amended following 4 Country Review
5.1	18-Jan-2005	Amended following January READ Code Release
5.2	21-Jun-2005	Amended following 4 Country Review
6.0	21-July-2005	Signed off following 4 Country review
6.1	21-July-2005	Amended following July 2005 Read Code release and January 2005 SNOMED CT release
6.2	21-Aug-2005	Amended following 4 Country review
7.0	23-Sep-2005	Signed off following 4 Country review
7.1	21-Nov-2005	From Phil Brown <b>NB Renamed document as "Mental health Indicator Set"</b>
7.2	22-Nov-2005	Amended following review by Peter Horsfield
7.3	3-Dec-2005	Draft revised for internal review
7.4	28-Feb-2006	Amended following internal & 4 Countries review
8.0	15-Mar-2006	Signed off following 4 Country review
8.1	20-Apr-2006	Responding to queries raised a) Amend wording for Note 3 b) Correct typo in MHRFUP_COD description c) Amend Denominator Rule 1, splitting into TWO rules (1 & 2) for MH9, MH6 & MH7 d) Amend rules 3 & 4 for MH7 e) Remove EU33% from MH_COD (5-Byte) f) Introduce new cluster DNAREV_COD/DAT and add to MH7 g) Amend criteria for MHRFUP to the earliest after the DNAREV_DAT
8.5	18-May-2006	Approved by NHSE
8.6	20-Oct-2006	April Read Code Release April SNOMED CT Release October Read Code Release Corrections and amendments following feedback Changes to MH9, MH6 & MH7 to check for recent diagnosis (against diagnosis codes AND framework register) Changes to MH7 (and supporting clusters) to improve handling of 'Did Not Attend' and associated 'Follow Up' activities
8.7	09-Nov-2006	Following 4-Country Review: MH6: Make the Numerator Rule 1 reflect the Denominator Rule 3

		MH7: Correct typo in wording of the indicator. Correct typo to DEP_COD cluster Remove the 'on MH framework register' from the document
9.0	30-Nov-2006	Approved by NHSE
9.1	11-Apr-2007	April 2007 Read Code Release
9.2	08-June-2007	Following 4-Country Review: Correction in Rule 5 (MH7) to standardise date check Change to MH5 (and supporting TLIT cluster) for simplification of understanding.
10.0	18-Jun-2007	Signed off following 4 Country review
10.1	29-Aug-2007	April 2007 SNOMED CT Release
10.2	23-Sep-2007	October 2007 Read Code Release October 2007 SNOMED CT Release
10.3	27-Nov-2007	Following 4-Country Review: Add 'X00SL' (CTV3) and '231496004' (SNOMED_CT) to qualifying diagnostic codes and MH_COD
11.0	28-Nov-2007	Signed off following 4 Country review
11.1	30-Jun-2008	April 2008 Read Code Release April 2008 SNOMED CT Release QOF Review 2007
12.0	24-Jul-2008	Signed off following 4 Country review
12.1	06-Oct-2008	October 2008 Read Code Release October 2008 SNOMED CT Release
12.2	25-Nov-2008	Following 4-Country Review: Correction to description field 15 (MHRFUP1_DAT)
13.0	05-Dec-2008	Signed off following 4 Country review
13.2	09-Mar-2009	QOF Review 2008
14.0	01-May-2009	Signed off following 4 Country review
14.1	25-June-2009	April 2009 Read Code Release
14.2	14-August-2009	Amendment following 4 Country review
15.0	17-August-2009	Signed off following 4 Country review
15.1	12-October-2009	October 2009 Clinical Codes Release
15.2	28-October-2009	October 2009 Clinical Codes Release review
16.0	02-December-2009	Sign off following 4 Country review
17.0	07-May-2010	April 2010 Read Code Release following NHS IC review.
18.0	29-October-2010	October 2010 Read Code Release following NHS IC review.
19.0	08-February-2011	Signed off following 4 Country review and further negotiations
20.0	13-May-2011	April 2011 Read Code Release following NHS IC review.
21.0	10-November-2011	October 2011 Read Code Release following NHS IC review.

## **New GMS contract Q&O framework implementation**

### Dataset and business rules – Mental illness indicator set

#### Notes

- 1) The specified dataset and rulesets are to support analysis of extracted data to reflect the status at a specified point in time of patient records held by the practice. In the context of this document that specified time point is designated the 'Reference date' and identified by the abbreviation 'REF\_DAT'. In interpreting the specification REF\_DAT should be taken to mean midnight of the preceding day (i.e. a REF\_DAT of 01.04.2003 equates to midnight on 31.03.2003).
- 2) To support accurate determination of the population of patients to which the indicators should relate (the denominator population) these rulesets have been compiled with a prior assumption that the reference date is specified prior to extraction of data and is available for computation in the data extraction routine. The reference date will also be required to be included in the data extraction to support processing of rules that are dependent upon it. It is possible that an alternative approach could be adopted in which rules to determine the denominator population by registration status would be applied as a component of rule processing. If this second approach were to be adopted it would be essential to specify default time criteria for determining the registration characteristics of the denominator population during the data extraction process. Additionally there would be a requirement to supplement the dataset and rulesets to support identification of the appropriate denominator population.
- 3) Clinical codes quoted are (where known) from the October 2011 release of Read codes version 2 and clinical terms version 3 (CTV3). The codes are shown within the document as a 5 character value to show that the Read Code is for a 5-Byte system.
  - i) Where a '%' wildcard is displayed, the Read Code is filled to 5 characters with full-stops. When implementing a search for the Read Code, only the non full-stop values should be used in the search, For example, a displayed Read Code of c1...% should be implemented as a search for c1%, i.e. should find c1 and any of its children.
  - ii) Where a range of read codes are displayed, the Read Code is filled to 5 characters with full-stops. When implementing the search, only the non full-stop values should be used in the search, For example, a displayed Read Code range of G342. – G3z.. should find all codes between G342 and G3z (including any children where applicable).

This ruleset has been changed from April 2006 to be limited to patients with psychoses, bipolar disorders etc. as other specific areas of the QOF deal with other mental health problems e.g. dementia.

- 4) Datasets comprise a specification of two elements:
  - a) Patient selection criteria. These are the criteria used to determine the patient population against whom the indicators are to be applied.
    - i) Registration status. This determines the current patient population at the practice
    - ii) Diagnostic code status. This determines the current patient population (register size) for a given clinical condition

There are three scenarios within the diagnostic code status, these are where

- There is a single morbidity patient population (disease register) required (e.g. within CHD). Where this occurs, a single set of rules for identifying the patient population is provided.
- There is a single co-morbidity patient population (disease register) required (e.g. within Smoking). Where this occurs, a set of rules for *each* morbidity is provided. A patient *must* only be included in the patient population (register size) *once*.
- There are multiple patient populations (disease registers) required (e.g. within Heart Failure). Where this occurs, a single set of rules for *each* patient population is provided.  
N.B. where there are multiple patient populations (disease registers), it is possible that one or more will also be a co-morbidity patient population (e.g. within Depression)

Where this occurs, details of which register population applies to which indicator(s) are provided. Where the register size applies to an indicator, this is the base denominator population for that indicator.

- b) Clinical data extraction criteria. These are the data items to be exported from the clinical system for subsequent processing to calculate points allocations. They are expressed in the form of a MIQUEST 'Report-style' extract of data.

The record of each patient that satisfies the appropriate selection criteria for a given indicator will be interrogated against the clinical data criteria (also appropriate to that indicator). A report of the data contained in the selected records will be exported in the form of a fixed-format tabular report. Each selected patient will be represented by a single row in the report. Rows will contain a fixed number of fields each containing a single data item. The number of fields in each row and their data content will be determined by the clinical data criteria. Data items that match the clinical data criteria will be exported in the relevant field of the report. Where there is no data to match a specific clinical criterion a null field will be exported.

- 5) Rulesets are specified as multiple rules to be processed sequentially. Processing of rules should terminate as soon as a 'Reject' or 'Select' condition is encountered
- 6) Rules are expressed as logical statements that evaluate as either 'true' or 'false'. The following operators are required to be supported:

- |                     |        |
|---------------------|--------|
| a) > (greater than) | e) AND |
| b) < (less than)    | f) OR  |
| c) = (equal to)     | g) NOT |
| d) ≠ (not equal to) |        |

- 7) Where date criteria are specified with intervals of multiples of months or years these should be interpreted as calendar months or calendar years.
- 8) The new GMS contract requires that influenza vaccinations should be given between 1<sup>st</sup> September and 31<sup>st</sup> March of any given contract year in order to qualify for the relevant indicators. Hence in the contract year 2004 – 2005 the relevant dates will be 1<sup>st</sup> September 2004 and 31<sup>st</sup> March 2005 inclusive. In this document these dates are expressed as variable parameters FLU\_COM and FLU\_END respectively. For the purposes of data extraction these variables will be required to be specified prior to processing the relevant rules.

**Dataset Specification****1) Patient selection criteria:**

## a) Registration status

<i><u>Current registration status</u></i>	<i><u>Qualifying criteria</u></i>
Currently registered for GMS	Most recent registration date < (REF_DAT)
Previously registered for GMS	Any sequential pairing of registration date and deregistration date where both of the following conditions are met: registration date < (REF_DAT); and deregistration date >= (REF_DAT)

b) Diagnostic code status

i) Group 1 criteria

<i>Code criteria</i>	<i>Qualifying diagnostic codes</i>		<i>Time criteria</i>
<i>Included</i>	<i>Read codes v2</i>	<i>CTV3</i>	<i>Earliest &lt; (REF_DAT)</i>
	E10..%, E110.%,E111.%, E1124 E1134 E114. - E117z E11y.% (excluding E11y2) E11z., E11z0, E11zz, E12..%, E13..% (excluding E135.) E2122, Eu2..% Eu30.% Eu31.% Eu323, Eu328, Eu333 Eu32A Eu329	X00S6% (excluding Xa9B0%, E14..%) X00SL X00SM% X00SJ% XSGon E11z., E11z0, E11zz XE1ZZ, XE1Ze XaX54 XaX53	
	<i>(Psychosis, schizophrenia + bipolar affective disease codes)</i>		

## ii) Group 2 criteria

<i>Included</i>	Read codes v2	<i>CTV3</i>	<i>Latest &gt;= (REF_DAT - 6/12) AND &lt; REF_DAT</i>
	d6...%	d6...%	
	<i>(Lithium prescription codes)</i>		
<i>Excluded</i>	Read codes v2	<i>CTV3</i>	<i>Latest &lt; (REF_DAT) AND subsequent to above date</i>
	665B.	665B.	
	<i>Code for 'Stopped lithium'</i>		

**\*\* N.B. Patients meeting any group of criteria to be included**

**2) Clinical data extraction criteria**

<u>Field Number</u>	<u>Field name</u>	<u>Data item</u>		<u>Qualifying criteria</u>
1	PAT_ID	Patient ID number		Unconditional
2	REG_DAT	Date of patient registration		Latest < (REF_DAT)
3	PAT_AGE	Patients age (years) at REF_DAT		Unconditional
4	PAT_SEX	Patients sex (gender) at REF_DAT		Unconditional
5	MHEXC_COD	<i>Read codes v2</i>	<i>CTV3</i>	Latest < (REF_DAT)
		9h9..%	XaJ4V%	
		<i>(Mental health exception reporting codes)</i>		
6	MHEXC_DAT	Date of MHEXC_COD		Chosen record
7	MH_COD	<i>Read codes v2</i>	<i>CTV3</i>	Earliest < (REF_DAT)
		E10..%, E110.%, E111.%, E1124 E1134 E114. - E117z E11y.% (excluding E11y2) E11z., E11z0, E11zz, E12..%, E13..% (excluding E135.) E2122, Eu2..% Eu30.% Eu31.% Eu323, Eu328, Eu333 Eu32A Eu329	X00S6% (excluding Xa9B0%, E14..%) X00SL X00SM% X00SJ% XSGon E11z., E11z0, E11zz XE1ZZ, XE1Ze XaX54 XaX53	
		<i>(Psychosis, schizophrenia + bipolar affective disease codes)</i>		

8	MH_DAT	Date of MH_COD		Chosen record
9	MHP_COD	<i>Read codes v2</i>	<i>CTV3</i>	Latest < (REF_DAT)
		8CM2. 8CR7.	XaK70 XaK5Y	
		<i>(Code for Mental health care plan)</i>		
10	MHP_DAT	Date of MHP_COD		Chosen record
11	LIT_COD	<i>Read codes v2</i>	<i>CTV3</i>	Latest < (REF_DAT)
		d6...%	d6...%	
		<i>(Code for Lithium prescription)</i>		
12	LIT_DAT	Date of LIT_COD		Chosen record
13	ELIT_COD	<i>Read codes v2</i>	<i>CTV3</i>	Earliest < (REF_DAT)
		d6...%	d6...%	
		<i>(Code for Lithium prescription)</i>		
14	ELIT_DAT	Date of ELIT_COD		Chosen record
15	SLIT_COD	<i>Read codes v2</i>	<i>CTV3</i>	Latest < (REF_DAT)
		44W8.% 44vE. R1053	X770u% 44W80 44W81 44W82 R1053	
		<i>(Code for serum lithium)</i>		
16	SLIT_VAL	Value 1 of SLIT_COD		Chosen record

17	SLIT_DAT	Date of SLIT_COD		Chosen record
18	TLIT_COD	<i>Read codes v2</i>	<i>CTV3</i>	Latest < (REF_DAT)
		44W80 44vE.	44W80	
		<i>(Code for serum lithium therapeutic)</i>		
19	TLIT_DAT	Date of TLIT_COD		Chosen record
20	CRE_COD	<i>Read codes v2</i>	<i>CTV3</i>	Latest < (REF_DAT)
		44J3.% 44JC. 44JD. 44JF.	XE2q5% XaETQ, XaERX 44J30, 44J31, 44J32 44J33	
		<i>(Codes for serum creatinine)</i>		
21	CRE_DAT	Date of CRE_COD		Chosen record
22	TSH_COD	<i>Read codes v2</i>	<i>CTV3</i>	Latest < (REF_DAT)
		442A.% 442K. - 442T. 442W. 442X. 442e.	XE2wy% 442A0 442A1	
		<i>(Codes for TSH recording)</i>		
23	TSH_DAT	Date of TSH_COD		Chosen record

24	MH2_COD	<i>Read codes v2</i>	<i>CTV3</i>	Latest < (REF_DAT)
		E10..%, E110.%, E111.%, E1124 E1134 E114. - E117z E11y.% (excluding E11y2) E11z., E11z0, E11zz, E12..%, E13..% (excluding E135.) E2122, Eu2..% Eu30.% Eu31.% Eu323, Eu328, Eu333, Eu329, Eu32A	X00S6% (excluding Xa9B0%, E14..%) X00SL X00SM% X00SJ% XSGon E11z., E11z0, E11zz XE1ZZ, XE1Ze, XaX53, XaX54	
		<i>(‘Psychosis, schizophrenia + bipolar affective disease codes)</i>		
25	MH2_DAT	Date of MH2_COD		Chosen record
26	MHREM_COD	<i>Read codes v2</i>	<i>CTV3</i>	Latest < (REF_DAT) AND > = MH2_DAT
		E1005, E1015, E1025 E1035, E1055, E1075 E1106, E1116, E1146 E1156, Eu317, E1166 E1176, Eu329, Eu32A, Eu26., Eu223	E1005, E1015, E1025 E1035, E1055, E1075 E1106, E1116, E1146 E1156, Eu317, E1166 E1176, XaX51, XaX52, XaX53, XaX54	
		<i>(Code for in remission from serious mental illness)</i>		
27	MHREM_DAT	Date of MHREM_COD		Chosen record
28	MHREM2_COD	<i>Read codes v2</i>	<i>CTV3</i>	Latest < (REF_DAT)
		E1005, E1015, E1025 E1035, E1055, E1075 E1106, E1116, E1146 E1156, Eu317, E1166	E1005, E1015, E1025 E1035, E1055, E1075 E1106, E1116, E1146 E1156, Eu317, E1166	

		E1176 Eu329, Eu32A, Eu26., Eu223	E1176, XaX51, XaX52, XaX53, XaX54	
		<i>(Code for in remission from serious mental illness)</i>		
29	MHREM2_DAT	Date of MHREM2_COD		Chosen record
30	ALC_COD	<i>Read codes v2</i>	<i>CTV3</i>	Latest < (REF_DAT)
		136..% (excluding 1368.,1369.,136M., 136W., 136Y., 136b.)	1361.% (excluding 136M.) Ub0IJ%, 136..% (excluding 1368.,1369.) Ub0Iy% XaXjd, XaXje, XaXjf	
		<i>(Alcohol consumption codes)</i>		
31	ALC_DAT	Date of ALC_COD		Chosen record
32	ALCEX_COD	<i>Read codes v2</i>	<i>CTV3</i>	Latest < (REF_DAT)
		8IA7. 8IAt.	XaNOA XaX4S	
		<i>(Alcohol consumption screening refused codes)</i>		
33	ALCEX_DAT	Date of ALCEX_COD		Chosen record
34	BMI_COD	<i>Read codes v2</i>	<i>CTV3</i>	Latest < (REF_DAT)
		22K..% (excluding 22K9.)	22K..% (excluding XaVWA) Xa7wG%	
		<i>(BMI Codes)</i>		
35	BMI_DAT	Date of BMI_COD		Chosen record
36	BP_COD	<i>Read codes v2</i>	<i>CTV3</i>	Latest < REF_DAT

		246..% (excluding 2460., 2468. 246H., 246I., 246K., 246L., 246M.)	X773t% (excluding XaI9f, XaI9g) 246..% (excluding 2460., 2468., XaCFN, XaCFO)	
		<i>(BP recording codes)</i>		
37	BP_DAT	Date of BP_COD		Chosen record
38	BPEX_COD	<i>Read codes v2</i>	<i>CTV3</i>	Latest < REF_DAT
		8I3Y.	XaJkR	
		<i>(BP recording exception codes)</i>		
39	BPEX_DAT	Date of BPEX_COD		Chosen record
40	TCHOLHDL_COD	<i>Read codes v2</i>	<i>CTV3</i>	Latest < REF_DAT
		44PF. 44I2. 44IF. 44IG.	44PF. XaERR XaEUq XaEUr	
		<i>(Total cholesterol:HDL codes)</i>		
41	TCHOLHDL_DAT	Date of TCHOLHDL_COD		Chosen record
42	GLUC_COD	<i>Read codes v2</i>	<i>CTV3</i>	Latest < (REF_DAT)
		44TM. 44f..% 44g..% 44T1. – 44T3. 44TA. 44TE. – 44TK. 44U..% (Excluding 44Uz.) 44V.. – 44V3. 44V6.	XaJmX X772z% (excluding Xa974%, XE2mr, XE2ms, XE2mt, XaXcx, XaXdZ, XaXda, XaXdX, XaXdW, XaXdY, XaXee, XaXcf) 44f..% XM0ly% 44T10 44T11 44T12	

		R102. R10D. R1057	44U8. 44U9. XE25Z 44V1. 44V2. 44V3. XaMLQ R102. XaFxf XS7Nb	
		<i>(Blood Glucose Level codes)</i>		
43	GLUC_DAT	Date of GLUC_COD		Chosen record
44	HYST_COD	<i>Read codes v2</i>	<i>CTV3</i>	Earliest < (REF_DAT)
		685H. 685I. 685K. 908Y. 7E05.% 7E040, 7E042 7E043 7E046 7E049 7E04B 7E04G 7L0A.% 26L3.	XE1TV 685I. 685K. XaKbV XE06Z% XaC3i% XE06b% 7E046% X403D% (excluding X403F) 7L0A.% (excluding Xa3sF) X76P0	
		<i>(Hysterectomy and equivalent codes)</i>		
45	HYST_DAT	Date of HYST_COD		Chosen record
46	SMEAR_COD	<i>Read codes v2</i>	<i>CTV3</i>	Latest < (REF_DAT)

		<p>4K22.-4K29.                  4K2C.                  4KA1.                  4KA3.                  4KA4.                  6856.                  6859.                  685B. - 685D.                  685R.                  7E2A2                  7E2A3                  ZV762                  7E2A0</p>	<p>Xa8PI%                  7E2A3%                  XE278%                  XE279                  XE27A                  XE27B                  4K25.                  4K26.                  4K27.                  4K29.                  4KA1.                  4KA3.                  4KA4.                  6856.                  XaKTi                  XE1TU                  685B.                  685C.                  685D.                  X76zx                  XM1C9                  ZV762                  7E2A0</p>	
		<i>(Cervical smear codes)</i>		
47	SMEAR_DAT	Date of SMEAR_COD		Chosen record
48	CYTEXC_COD	<i>Read codes v2</i>	<i>CTV3</i>	Latest < (REF_DAT)
		<p>6853., 685L.                  8I6K.                  9O8Q.</p>	<p>6853.                  XaFs3                  XaK29                  9O8Q.</p>	
		<i>(Cervical cytology exception reporting codes)</i>		

49	CYTEXC_DAT	Date of CYTEXC_COD		Chosen record
50	DM_COD	<i>Read codes v2</i>	<i>CTV3</i>	Earliest < (REF_DAT)
		C10E.% C10F.% (excluding C10F8)	X40J4% X40J5% X40J6	
		<i>(Codes for diabetes)</i>		
51	DM_DAT	Date of DM_COD		Chosen record
52	DM2_COD	<i>Read codes v2</i>	<i>CTV3</i>	Latest < (REF_DAT)
		C10E.% C10F.% (excluding C10F8)	X40J4% X40J5% X40J6	
		<i>(Codes for diabetes)</i>		
53	DM2_DAT	Date of DM2_COD		Chosen record
54	DMRES_COD	<i>Read codes v2</i>	<i>CTV3</i>	Latest < (REF_DAT) AND > (DM2_DAT)
		21263 212H.	XaFsp	
		<i>(Codes for diabetes resolved)</i>		
55	DMRES_DAT	Date of DMRES_COD		Chosen record

### **Indicator rulesets**

- 1 **Indicator MH 8:** The practice can produce a register of people with schizophrenia, bipolar affective disorder and other psychoses.

The terms of this indicator will be satisfied if the practice is able to produce a data extraction according to the above criteria.

No numerator or denominator determination is required.

- 2 **Indicator MH11:** The percentage of patients with schizophrenia, bipolar affective disorder and other psychoses who have a record of alcohol consumption in the preceding 15 months.

### Overview

This indicator has been developed to measure the effectiveness of the provision of a clinical care component for patients with a specific set of defined mental health problems. The aspect that is being measured is that relating to alcohol consumption.

### Disease register

The disease register is made up of patients who are eligible to receive the required care component. In this case, patients who have a diagnosis of schizophrenia, bipolar affective disorder or other psychoses (i.e. there is a evidence in the patient's electronic health record of a schizophrenia, bipolar affective disorder or other psychoses diagnosis code)

### Numerator and Denominator

The success criteria for this indicator (**numerator**) are achieved for those patients in the denominator who have a record of alcohol consumption screening in the previous 15 months.

The patients that make up the **denominator** for this indicator are those patients where it is appropriate for the care component to be carried out. This is the relevant disease register adjusted for exclusions and exceptions.

### Exclusions

For this indicator there are two exclusions

- Consideration has to be made for those patients QOF MH Register for whom this indicator should not be measured. Any patients who are on the QOF MH Register solely due to being on/having been on Lithium treatment are excluded.
- Consideration has to be made for those patients diagnosed as in remission. Any patients whose latest mental health diagnosis is in remission are excluded.

### Exceptions

Patients that don't achieve the success criteria of the indicator are checked for valid exceptions.

For this indicator the exceptions are:

- any patient that has a valid alcohol consumption screening exception code recorded within the previous 15 months.
- any patient who has been registered within the last 3 months of the qualifying year (new patient). New patients may be regarded as exceptions if they fulfil the criteria of the indicator but have not yet had alcohol consumption screening - maybe because there hasn't been an opportunity in the qualifying year to arrange it.
- any patient that has a relevant mental health exception code recorded within the previous 15 months.
- any patient that has been diagnosed with schizophrenia, bipolar affective disorder or other psychoses within the last 3 months of the year (new diagnosis of mental

health). Newly diagnosed patients may be regarded as exceptions if they fulfil the criteria of the indicator but have not yet had alcohol consumption screening - maybe because there hasn't been an opportunity in the qualifying year to arrange it.

Note: For the 'new' mental health patient exception, this is only applicable for the first 'ever' diagnosis of schizophrenia, bipolar affective disorder or other psychoses for the patient. For subsequent diagnosis, this exception rule is not considered.

**Indicator MH11:** The percentage of patients with schizophrenia, bipolar affective disorder and other psychoses who have a record of alcohol consumption in the preceding 15 months.

a) Denominator ruleset

<i>Rule number</i>	<i>Rule</i>	<i>Action if true</i>	<i>Action if false</i>
1	If <u>MH_DAT</u> = Null	Reject	Next Rule
2	If <u>MHREM_DAT</u> = Null	Next Rule	Reject
3	If <u>ALC_DAT</u> >= ( <u>REF_DAT</u> – 15 months)	Select	Next rule
4	If <u>ALCEX_DAT</u> >= ( <u>REF_DAT</u> – 15 months)	Reject	Next rule
5	If <u>REG_DAT</u> >= ( <u>REF_DAT</u> – 3 months)	Reject	Next rule
6	If <u>MHEXC_DAT</u> >= ( <u>REF_DAT</u> – 15 months)	Reject	Next rule
7	If <u>MH_DAT</u> >= ( <u>REF_DAT</u> – 3 months))	Reject	Select

b) Numerator ruleset: To be applied to the above denominator population

<i>Rule number</i>	<i>Rule</i>	<i>Action if true</i>	<i>Action if false</i>
1	If <u>ALC_DAT</u> >= ( <u>REF_DAT</u> – 15 months)	Select	Reject

**Additional Notes:**

**Denominator**

**Exclusions**

**Rule 1:** The aim of this rule is to reject any patient who is on the QOF MH Register solely due to being on/having been on Lithium treatment (i.e. LIT\_COD) from this indicator.

Any patient that does not have a read code defined in the MH\_COD cluster (i.e. the patient is only in the QOF MH Register because of a read code in LIT\_COD cluster) should not be considered for this indicator and therefore should be rejected.

After following the logic of Rule 1, any patient that has not been rejected will therefore be on the QOF MH Register because the patient has been diagnosed with a valid MH read code (i.e. MH\_COD).

**Rule 2:** The aim of this rule is to reject any patient whose latest mental health diagnosis is in remission i.e. there is a date where a remission code is recorded after their latest diagnosis (but before the REF\_DAT). Any patient that is in remission should not be considered for this indicator and therefore should be rejected. If a patient does not have a remission code after their latest diagnosis then they are passed on to the next rule.

**Success**

**Rule 3:** The objective of this rule is to identify patients who have a recording of alcohol consumption screening within the previous 15 months.

If alcohol consumption screening has been recorded within the appropriate time frame the patient is selected into the denominator.

If the patient does not have alcohol consumption screening recorded within the appropriate time frame they are passed on to the next rule.

### **Exceptions**

It is worth remembering at this point that if a patient has a recording of alcohol consumption screening within the previous 15 months they will already have been selected into the denominator in Rule 3.

**Rule 4:** The aim of this rule is to identify any patient that has a valid alcohol consumption screening exception code recorded in the previous 15 months. If an exception code has been recorded in the last 15 months, the patient can be excepted and is not included in the denominator. Otherwise they are passed on to the next rule.

**Rule 5:** The aim of this rule is to identify any patient that 'recently registered' at the practice. If the patient has registered at the practice in the last 3 months, the patient should not be included in the denominator. If the patient was not registered in the last 3 months they are passed on to the next rule.

**Rule 6:** The aim of this rule is to identify any patient that has a relevant mental health exception code recorded. If this has been recorded in the previous 15 months, the patient can be excepted and is not included in the denominator. Otherwise they are passed on to the next rule.

**Rule 7:** The aim of this rule is to identify any patient that has been 'recently diagnosed' with schizophrenia, bipolar affective disorder or other psychoses. If the patient has been diagnosed in the last 3 months, the patient can be excepted and the patient should not be included in the denominator. Otherwise the patient is selected into the denominator.

### **Numerator**

The success criterion for this indicator is as per denominator Rule 3.

- 3 Indicator MH12: The percentage of patients with schizophrenia, bipolar affective disorder and other psychoses who have a record of BMI in the preceding 15 months.

### Overview

This indicator has been developed to measure the effectiveness of the provision of a clinical care component for patients with a specific set of defined mental health problems. The aspect that is being measured is that relating to recording of a BMI.

### Disease register

The disease register is made up of patients who are eligible to receive the required care component. In this case, patients who have a diagnosis of schizophrenia, bipolar affective disorder or other psychoses (i.e. there is a evidence in the patient's electronic health record of a schizophrenia, bipolar affective disorder or other psychoses diagnosis code)

### Numerator and Denominator

The success criteria for this indicator (**numerator**) are achieved for those patients in the denominator who have a record of a BMI in the preceding 15 months.

The patients that make up the **denominator** for this indicator are those patients where it is appropriate for the care component to be carried out. This is the relevant disease register adjusted for exclusions and exceptions.

### Exclusions

For this indicator there are two exclusions

- Consideration has to be made for those patients QOF MH Register for whom this indicator should not be measured. Any patients who are on the QOF MH Register solely due to being on/having been on Lithium treatment are excluded.
- Consideration has to be made for those patients diagnosed as in remission. Any patients whose latest mental health diagnosis is in remission are excluded.

### Exceptions

Patients that don't achieve the success criteria of the indicator are checked for valid exceptions.

For this indicator the exceptions are:

- any patient who has been registered within the last 3 months of the qualifying year (new patient). New patients may be regarded as exceptions if they fulfil the criteria of the indicator but have not yet had a BMI recorded - maybe because there hasn't been an opportunity in the qualifying year to arrange it.
- any patient that has a relevant mental health exception code recorded within the previous 15 months.
- any patient that has been diagnosed with schizophrenia, bipolar affective disorder or other psychoses within the last 3 months of the year (new diagnosis of mental health). Newly diagnosed patients may be regarded as exceptions if they fulfil the criteria of the indicator but have not yet had a BMI recorded - maybe because there hasn't been an opportunity in the qualifying year to arrange it.

Note: For the 'new' mental health patient exception, this is only applicable for the first 'ever' diagnosis of schizophrenia, bipolar affective disorder or other psychoses for the patient. For subsequent diagnosis, this exception rule is not considered.

**Indicator MH12:** The percentage of patients with schizophrenia, bipolar affective disorder and other psychoses who have a record of BMI in the preceding 15 months.

a) Denominator ruleset

<i>Rule number</i>	<i>Rule</i>	<i>Action if true</i>	<i>Action if false</i>
1	If <u>MH_DAT</u> = Null	Reject	Next Rule
2	If <u>MHREM_DAT</u> = Null	Next Rule	Reject
3	If <u>BMI_DAT</u> >= ( <u>REF_DAT</u> – 15 months)	Select	Next rule
4	If <u>REG_DAT</u> >= ( <u>REF_DAT</u> – 3 months)	Reject	Next rule
5	If <u>MHEXC_DAT</u> >= ( <u>REF_DAT</u> – 15 months)	Reject	Next rule
6	If <u>MH_DAT</u> >= ( <u>REF_DAT</u> – 3 months)	Reject	Select

b) Numerator ruleset: To be applied to the above denominator population

<i>Rule number</i>	<i>Rule</i>	<i>Action if true</i>	<i>Action if false</i>
1	If <u>BMI_DAT</u> >= ( <u>REF_DAT</u> – 15 months)	Select	Reject

**Additional Notes:**

**Denominator**

**Exclusions**

**Rule 1:** The aim of this rule is to reject any patient who is on the QOF MH Register solely due to being on/having been on Lithium treatment (i.e. LIT\_COD) from this indicator.

Any patient that does not have a read code defined in the MH\_COD cluster (i.e. the patient is only in the QOF MH Register because of a read code in LIT\_COD cluster) should not be considered for this indicator and therefore should be rejected.

After following the logic of Rule 1, any patient that has not been rejected will therefore be on the QOF MH Register because the patient has been diagnosed with a valid MH read code (i.e. MH\_COD).

**Rule 2:** The aim of this rule is to reject any patient whose latest mental health diagnosis is in remission i.e. there is a date where a remission code is recorded after their latest diagnosis (but before the REF\_DAT). Any patient that is in remission should not be considered for this indicator and therefore should be rejected. If a patient does not have a remission code after their latest diagnosis then they are passed on to the next rule.

**Success**

**Rule 3:** The objective of this rule is to identify patients who have a recording of a BMI within the previous 15 months.

If a BMI has been recorded within the appropriate time frame the patient is selected into the denominator.

If the patient does not have a BMI recorded within the appropriate time frame they are passed on to the next rule.

### **Exceptions**

It is worth remembering at this point that if a patient has a recording of a BMI within the previous 15 months they will already have been selected into the denominator in Rule 3.

**Rule 4:** The aim of this rule is to identify any patient that 'recently registered' at the practice. If the patient has registered at the practice in the last 3 months, the patient should not be included in the denominator. If the patient was not registered in the last 3 months they are passed on to the next rule.

**Rule 5:** The aim of this rule is to identify any patient that has a relevant mental health exception code recorded. If this has been recorded in the previous 15 months, the patient can be excepted and is not included in the denominator. Otherwise they are passed on to the next rule.

**Rule 6:** The aim of this rule is to identify any patient that has been 'recently diagnosed' with schizophrenia, bipolar affective disorder or other psychoses. If the patient has been diagnosed in the last 3 months, the patient can be excepted and the patient should not be included in the denominator. Otherwise the patient is selected into the denominator.

### **Numerator**

The success criterion for this indicator is as per Denominator Rule 3.

- 4 Indicator MH13: The percentage of patients with schizophrenia, bipolar affective disorder and other psychoses who have a record of blood pressure in the preceding 15 months.

### Overview

This indicator has been developed to measure the effectiveness of the provision of a clinical care component for patients with a specific set of defined mental health problems. The aspect that is being measured is that relating to recording of a blood pressure.

### Disease register

The disease register is made up of patients who are eligible to receive the required care component. In this case, patients who have a diagnosis of schizophrenia, bipolar affective disorder or other psychoses (i.e. there is a evidence in the patient's electronic health record of a schizophrenia, bipolar affective disorder or other psychoses diagnosis code)

### Numerator and Denominator

The success criteria for this indicator (**numerator**) are achieved for those patients in the denominator who have a record of a blood pressure in the preceding 15 months.

The patients that make up the **denominator** for this indicator are those patients where it is appropriate for the care component to be carried out. This is the relevant disease register adjusted for exclusions and exceptions.

### Exclusions

For this indicator there are two exclusions:

- Consideration has to be made for those patients QOF MH Register for whom this indicator should not be measured. Any patients who are on the QOF MH Register solely due to being on/having been on Lithium treatment are excluded.
- Consideration has to be made for those patients diagnosed as in remission. Any patients whose latest mental health diagnosis is in remission are excluded.

### Exceptions

Patients that don't achieve the success criteria of the indicator are checked for valid exceptions.

For this indicator the exceptions are:

- any patient that has a valid blood pressure recording exception code recorded within the previous 15 months.
- any patient who has been registered within the last 3 months of the qualifying year (new patient). New patients may be regarded as exceptions if they fulfil the criteria of the indicator but have not yet had a blood pressure recorded - maybe because there hasn't been an opportunity in the qualifying year to arrange it.
- any patient that has a relevant mental health exception code recorded within the previous 15 months.
- any patient that has been diagnosed with schizophrenia, bipolar affective disorder or other psychoses within the last 3 months of the year (new diagnosis of mental health). Newly diagnosed patients may be regarded as exceptions if they fulfil the

criteria of the indicator but have not yet had a blood pressure recorded - maybe because there hasn't been an opportunity in the qualifying year to arrange it.

Note: For the 'new' mental health patient exception, this is only applicable for the first 'ever' diagnosis of schizophrenia, bipolar affective disorder or other psychoses for the patient. For subsequent diagnosis, this exception rule is not considered.

**Indicator MH13:** The percentage of patients with schizophrenia, bipolar affective disorder and other psychoses who have a record of blood pressure in the preceding 15 months.

a) Denominator ruleset

<i>Rule number</i>	<i>Rule</i>	<i>Action if true</i>	<i>Action if false</i>
1	If <u>MH_DAT</u> = Null	Reject	Next Rule
2	If <u>MHREM_DAT</u> = Null	Next Rule	Reject
3	If <u>BP_DAT</u> >= ( <u>REF_DAT</u> – 15 months)	Select	Next rule
4	If <u>BPEX_DAT</u> >= ( <u>REF_DAT</u> – 15 months)	Reject	Next rule
5	If <u>REG_DAT</u> >= ( <u>REF_DAT</u> – 3 months)	Reject	Next rule
6	If <u>MHEXC_DAT</u> >= ( <u>REF_DAT</u> – 15 months)	Reject	Next rule
7	If <u>MH_DAT</u> >= ( <u>REF_DAT</u> – 3 months)	Reject	Select

b) Numerator ruleset: To be applied to the above denominator population

<i>Rule number</i>	<i>Rule</i>	<i>Action if true</i>	<i>Action if false</i>
1	If <u>BP_DAT</u> >= ( <u>REF_DAT</u> – 15 months)	Select	Reject

**Additional Notes:**

**Denominator**

**Exclusions**

**Rule 1:** The aim of this rule is to reject any patient who is on the QOF MH Register solely due to being on/having been on Lithium treatment (i.e. LIT\_COD) from this indicator.

Any patient that does not have a read code defined in the MH\_COD cluster (i.e. the patient is only in the QOF MH Register because of a read code in LIT\_COD cluster) should not be considered for this indicator and therefore should be rejected.

After following the logic of Rule 1, any patient that has not been rejected will therefore be on the QOF MH Register because the patient has been diagnosed with a valid MH read code (i.e. MH\_COD).

**Rule 2:** The aim of this rule is to reject any patient whose latest mental health diagnosis is in remission i.e. there is a date where a remission code is recorded after their latest diagnosis (but before the REF\_DAT). Any patient that is in remission should not be considered for this indicator and therefore should be rejected. If a patient does not have a remission code after their latest diagnosis then they are passed on to the next rule.

**Success**

**Rule 3:** The objective of this rule is to identify patients who have a blood pressure recorded within the previous 15 months.

If a blood pressure has been recorded within the appropriate time frame the patient is selected into the denominator.

If the patient does not have a blood pressure recorded within the appropriate time frame they are passed on to the next rule.

### **Exceptions**

It is worth remembering at this point that if a patient has a blood pressure recorded within the previous 15 months they will already have been selected into the denominator in Rule 3.

**Rule 4:** The aim of this rule is to identify any patient that has a valid blood pressure recording exception code recorded in the previous 15 months. If an exception code has been recorded in the last 15 months, the patient can be excepted and is not included in the denominator. Otherwise they are passed on to the next rule.

**Rule 5:** The aim of this rule is to identify any patient that 'recently registered' at the practice. If the patient has registered at the practice in the last 3 months, the patient should not be included in the denominator. If the patient was not registered in the last 3 months they are passed on to the next rule.

**Rule 6:** The aim of this rule is to identify any patient that has a valid mental health exception code recorded. If this has been recorded in the previous 15 months, the patient can be excepted and is not included in the denominator. Otherwise they are passed on to the next rule.

**Rule 7:** The aim of this rule is to identify any patient that has been 'recently diagnosed' with schizophrenia, bipolar affective disorder or other psychoses. If the patient has been diagnosed in the last 3 months, the patient can be excepted and the patient should not be included in the denominator. Otherwise the patient is selected into the denominator

### **Numerator**

The success criterion for this indicator is as per Denominator Rule 3.

- 5 Indicator MH14. The percentage of patients aged 40 years and over with schizophrenia, bipolar affective disorder and other psychoses who have a record of total cholesterol:hdl ratio in the preceding 15 months

### Overview

This indicator has been developed to measure the effectiveness of the provision of a clinical care component for patients with a specific set of defined mental health problems. The aspect that is being measured is that relating to recording of total cholesterol: hdl ratio level.

### Disease register

The disease register is made up of patients who are eligible to receive the required care component. In this case, patients who have a diagnosis of schizophrenia, bipolar affective disorder or other psychoses (i.e. there is a evidence in the patient's electronic health record of a schizophrenia, bipolar affective disorder or other psychoses diagnosis code)

### Numerator and Denominator

The success criteria for this indicator (**numerator**) are achieved for those patients in the denominator who have a record of total cholesterol: hdl ratio level in the preceding 15 months.

The patients that make up the **denominator** for this indicator are those patients where it is appropriate for the care component to be carried out. This is the relevant disease register adjusted for exclusions and exceptions.

### Exclusions

For this indicator there are three exclusions:

- Consideration has to be made for those patients QOF MH Register for whom this indicator should not be measured. Any patients who are on the QOF MH Register solely due to being on/having been on Lithium treatment are excluded.
- The indicator is specifically looking at patients aged 40 years and over. Any patients aged under 40 years old are excluded
- Consideration has to be made for those patients diagnosed as in remission. Any patients whose latest mental health diagnosis is in remission are excluded.

### Exceptions

Patients that don't achieve the success criteria of the indicator are checked for valid exceptions.

For this indicator the exceptions are:

- any patient who has been registered within the last 3 months of the qualifying year (new patient). New patients may be regarded as exceptions if they fulfil the criteria of the indicator but have not yet had their total cholesterol: hdl ratio level recorded - maybe because there hasn't been an opportunity in the qualifying year to arrange it.
- any patient that has a valid mental health exception code recorded within the previous 15 months.

- any patient that has been diagnosed with schizophrenia, bipolar affective disorder or other psychoses within the last 3 months of the year (new diagnosis of mental health). Newly diagnosed patients may be regarded as exceptions if they fulfil the criteria of the indicator but have not yet had their total cholesterol: hdl ratio level recorded - maybe because there hasn't been an opportunity in the qualifying year to arrange it.

Note: For the 'new' mental health patient exception, this is only applicable for the first 'ever' diagnosis of schizophrenia, bipolar affective disorder or other psychoses for the patient. For subsequent diagnosis, this exception rule is not considered.

**Indicator MH14.** The percentage of patients aged 40 years and over with schizophrenia, bipolar affective disorder and other psychoses who have a record of total cholesterol:hdl ratio in the preceding 15 months

a) Denominator ruleset

<i>Rule number</i>	<i>Rule</i>	<i>Action if true</i>	<i>Action if false</i>
1	If <u>MH_DAT</u> = Null	Reject	Next Rule
2	If <u>PAT_AGE</u> < 40	Reject	Next rule
3	If <u>MHREM_DAT</u> = Null	Next Rule	Reject
4	If <u>TCHOLHDL_DAT</u> >= ( <u>REF_DAT</u> – 15 months)	Select	Next rule
5	If <u>REG_DAT</u> >= ( <u>REF_DAT</u> – 3 months)	Reject	Next rule
6	If <u>MHEXC_DAT</u> >= ( <u>REF_DAT</u> – 15 months)	Reject	Next rule
7	If <u>MH_DAT</u> >= ( <u>REF_DAT</u> – 3 months)	Reject	Select

b) Numerator ruleset: To be applied to the above denominator population

<i>Rule number</i>	<i>Rule</i>	<i>Action if true</i>	<i>Action if false</i>
1	If <u>TCHOLHDL_DAT</u> >= ( <u>REF_DAT</u> – 15 months)	Select	Reject

**Additional Notes:**

**Denominator**

**Exclusions**

**Rule 1:** The aim of this rule is to reject any patient who is on the QOF MH Register solely due to being on/having been on Lithium treatment (i.e. LIT\_COD) from this indicator.

Any patient that does not have a read code defined in the MH\_COD cluster (i.e. the patient is only in the QOF MH Register because of a read code in LIT\_COD cluster) should not be considered for this indicator and therefore should be rejected.

After following the logic of Rule 1, any patient that has not been rejected will therefore be on the QOF MH Register because the patient has been diagnosed with a valid MH read code (i.e. MH\_COD).

**Rule 2:** The aim of this rule is to identify if the patient is aged less than 40 years old. Any patient that is aged less than 40 should not be considered for this indicator and therefore should be rejected. If a patient is aged 40 or over then they are passed on to the next rule.

**Rule 3:** The aim of this rule is to reject any patient whose latest mental health diagnosis is in remission i.e. there is a date where a remission code is recorded after their latest diagnosis (but before the REF\_DAT). Any patient that is in remission should not be considered for this indicator and therefore should be rejected. If a patient does not have a remission code after their latest diagnosis then they are passed on to the next rule.

## Success

**Rule 4:** The objective of this rule is to identify patients who have a recording of total cholesterol:hdl within the previous 15 months.

If a total cholesterol:hdl has been recorded within the appropriate time frame the patient is selected into the denominator.

If the patient does not have a total cholesterol:hdl recorded within the appropriate time frame they are passed on to the next rule.

## Exceptions

It is worth remembering at this point that if a patient has a recording of total cholesterol:hdl within the previous 15 months they will already have been selected into the denominator in Rule 4.

**Rule 5:** The aim of this rule is to identify any patient that 'recently registered' at the practice. If the patient has registered at the practice in the last 3 months, the patient should not be included in the denominator. If the patient was not registered in the last 3 months they are passed on to the next rule.

**Rule 6:** The aim of this rule is to identify any patient that has a valid mental health exception code recorded. If this has been recorded in the previous 15 months, the patient can be excepted and is not included in the denominator. Otherwise they are passed on to the next rule.

**Rule 7:** The aim of this rule is to identify any patient that has been 'recently diagnosed' with schizophrenia, bipolar affective disorder or other psychoses. If the patient has been diagnosed in the last 3 months, the patient can be excepted and the patient should not be included in the denominator. Otherwise the patient is selected into the denominator.

## Numerator

The success criterion for this indicator is as per Denominator Rule 4.

- 6 Indicator MH15: The percentage of patients aged 40 years and over with schizophrenia, bipolar affective disorder and other psychoses who have a record of blood glucose in the preceding 15 months.

### Overview

This indicator has been developed to measure the effectiveness of the provision of a clinical care component for patients with a specific set of defined mental health problems. The aspect that is being measured is that relating to recording of blood glucose level.

### Disease register

The disease register is made up of patients who are eligible to receive the required care component. In this case, patients who have a diagnosis of schizophrenia, bipolar affective disorder or other psychoses (i.e. there is a evidence in the patient's electronic health record of a schizophrenia, bipolar affective disorder or other psychoses diagnosis code)

### Numerator and Denominator

The success criteria for this indicator (**numerator**) are achieved for those patients in the denominator who have a record of blood glucose level in the preceding 15 months.

The patients that make up the **denominator** for this indicator are those patients where it is appropriate for the care component to be carried out. This is the relevant disease register adjusted for exclusions and exceptions.

### Exclusions

For this indicator there are four exclusions:

- Consideration has to be made for those patients QOF MH Register for whom this indicator should not be measured. Any patients who are on the QOF MH Register solely due to being on/having been on Lithium treatment are excluded.
- The indicator is specifically looking at patients aged 40 years and over. Any patients aged under 40 years old are excluded
- Consideration has to be made for those patients diagnosed as in remission. Any patients whose latest mental health diagnosis is in remission are excluded.
- Consideration has to be made for patients with a current diagnosis of diabetes because they are already managed in the diabetes domain. Patient's whose earliest diagnosis of diabetes is prior to the last 12 months and has not been resolved are excluded.

### Exceptions

Patients that don't achieve the success criteria of the indicator are checked for valid exceptions.

For this indicator the exceptions are:

- any patient who has been registered within the last 3 months of the qualifying year (new patient). New patients may be regarded as exceptions if they fulfil the criteria of the indicator but have not yet had a blood glucose level recorded - maybe because there hasn't been an opportunity in the qualifying year to arrange it.

- any patient that has a relevant mental health exception code recorded within the previous 15 months.
- any patient that has been diagnosed with schizophrenia, bipolar affective disorder or other psychoses within the last 3 months of the year (new diagnosis of mental health). Newly diagnosed patients may be regarded as exceptions if they fulfil the criteria of the indicator but have not yet had a blood glucose level recorded - maybe because there hasn't been an opportunity in the qualifying year to arrange it.

Note: For the 'new' mental health patient exception, this is only applicable for the first 'ever' diagnosis of schizophrenia, bipolar affective disorder or other psychoses for the patient. For subsequent diagnosis, this exception rule is not considered.

**Indicator MH15:** The percentage of patients aged 40 years and over with schizophrenia, bipolar affective disorder and other psychoses who have a record of blood glucose in the preceding 15 months.

a) Denominator ruleset

<i>Rule number</i>	<i>Rule</i>	<i>Action if true</i>	<i>Action if false</i>
1	If <u>MH_DAT</u> = Null	Reject	Next Rule
2	If <u>PAT_AGE</u> < 40	Reject	Next rule
3	If <u>MHREM_DAT</u> = Null	Next Rule	Reject
4	If <u>DM_DAT</u> < ( <u>REF_DAT</u> – 12 months) AND IF <u>DMRES_DAT</u> = Null	Reject	Next rule
5	If <u>GLUC_DAT</u> >= ( <u>REF_DAT</u> – 15 months)	Select	Next rule
6	If <u>REG_DAT</u> >= ( <u>REF_DAT</u> – 3 months)	Reject	Next rule
7	If <u>MHEXC_DAT</u> >= ( <u>REF_DAT</u> – 15 months)	Reject	Next rule
8	If <u>MH_DAT</u> >= ( <u>REF_DAT</u> – 3 months)	Reject	Select

b) Numerator ruleset: To be applied to the above denominator population

<i>Rule number</i>	<i>Rule</i>	<i>Action if true</i>	<i>Action if false</i>
1	If <u>GLUC_DAT</u> >= ( <u>REF_DAT</u> – 15 months)	Select	Reject

**Additional Notes:**

**Denominator**

**Exclusions**

**Rule 1:** The aim of this rule is to reject any patient who is on the QOF MH Register solely due to being on/having been on Lithium treatment (i.e. LIT\_COD) from this indicator.

Any patient that does not have a read code defined in the MH\_COD cluster (i.e. the patient is only in the QOF MH Register because of a read code in LIT\_COD cluster) should not be considered for this indicator and therefore should be rejected.

After following the logic of Rule 1, any patient that has not been rejected will therefore be on the QOF MH Register because the patient has been diagnosed with a valid MH read code (i.e. MH\_COD).

**Rule 2:** The aim of this rule is to identify if the patient is aged less than 40 years old. Any patient that is aged less than 40 should not be considered for this indicator and therefore should be rejected. If a patient is aged 40 or over then they are passed on to the next rule.

**Rule 3:** The aim of this rule is to reject any patient whose latest mental health diagnosis is in remission i.e. there is a date where a remission code is recorded after their latest diagnosis (but before the REF\_DAT). Any patient that is in remission should not be considered for this indicator and therefore should be rejected. If a patient does not have a remission code after their latest diagnosis then they are passed on to the next rule.

**Rule 4:** The aim of this rule is to reject any patient with a diagnosis of diabetes made more than 12 months ago that has not been resolved.

If the patient has a diagnosis of diabetes prior to 12 months before the reference date AND there is a no record of diabetes resolved the outcome of the rule is true and the patient is rejected from the denominator.

If the patient does not have a diagnosis of diabetes prior to 12 months before the reference date OR the patient has a diagnosis of diabetes prior to 12 months before the reference date and their diabetes has been resolved the outcome of the rule is false and the patient will be passed onto next rule.

### Success

**Rule 5:** The objective of this rule is to identify patients who have a recording of blood glucose level within the previous 15 months.

If a blood glucose level has been recorded within the appropriate time frame the patient is selected into the denominator.

If the patient does not have a of blood glucose level recorded within the appropriate time frame they are passed on to the next rule.

### Exceptions

It is worth remembering at this point that if a patient has a recording of blood glucose within the previous 15 months they will already have been selected into the denominator in Rule 5.

**Rule 6:** The aim of this rule is to identify any patient that 'recently registered' at the practice. If the patient has registered at the practice in the last 3 months, the patient should not be included in the denominator. If the patient was not registered in the last 3 months they are passed on to the next rule.

**Rule 7:** The aim of this rule is to identify any patient that has a relevant mental health exception code recorded. If this has been recorded in the previous 15 months, the patient can be excepted and is not included in the denominator. Otherwise they are passed on to the next rule.

**Rule 8:** The aim of this rule is to identify any patient that has been 'recently diagnosed' with schizophrenia, bipolar affective disorder or other psychoses. If the patient has been diagnosed in the last 3 months, the patient can be excepted and the patient should not be included in the denominator. Otherwise the patient is selected into the denominator.

### Numerator

The success criterion for this indicator is as per Denominator Rule 5.

- 7 Indicator MH16: The percentage of patients (aged from 25 to 64 in England and Northern Ireland, from 20 to 60 in Scotland and from 20 to 64 in Wales) with schizophrenia, bipolar affective disorder and other psychoses whose notes record that a cervical screening test has been performed in the preceding 5 years.

### Overview

This indicator has been developed to measure the effectiveness of the provision of a clinical care component for patients with a specific set of defined mental health problems. The aspect that is being measured is that relating to recording of cervical screening.

### Disease register

The disease register is made up of patients who are eligible to receive the required care component. In this case, patients who have a diagnosis of schizophrenia, bipolar affective disorder or other psychoses (i.e. there is a evidence in the patient's electronic health record of a schizophrenia, bipolar affective disorder or other psychoses diagnosis code)

### Numerator and Denominator

The success criteria for this indicator (**numerator**) are achieved for those patients in the denominator who have a record of cervical screening in the preceding 5 years.

The patients that make up the **denominator** for this indicator are those patients where it is appropriate for the care component to be carried out. This is the relevant disease register adjusted for exclusions and exceptions.

### Exclusions

For this indicator there are five exclusions:

- Consideration has to be made for those patients QOF MH Register for whom this indicator should not be measured. Any patients who are on the QOF MH Register solely due to being on/having been on Lithium treatment are excluded.
- The indicator is specifically looking at female patients. Any male patients are excluded
- The indicator is specifically looking at patients aged less than 65 years old. Any patients aged 65 and over are excluded.
- The indicator is specifically looking at patients aged 25 years and over. Any patients aged under 25 years old are excluded.
- Consideration has to be made for those patients who don't require cervical screening because they have a record of hysterectomy or equivalent. Any patients with a record of hysterectomy or equivalent are excluded.
- Consideration has to be made for those patients diagnosed as in remission. Any patients whose latest mental health diagnosis is in remission are excluded.

### Exceptions

Patients that don't achieve the success criteria of the indicator are checked for valid exceptions.

For this indicator the exceptions are:

- any patient that has a valid cervical cytology exception code recorded within the previous 15 months.
- any patient who has been registered within the last 3 months of the qualifying year (new patient). New patients may be regarded as exceptions if they fulfil the criteria of the indicator but have not yet had cervical screening recorded - maybe because there hasn't been an opportunity in the qualifying year to arrange it.
- any patient that has a relevant mental health exception code recorded within the previous 15 months.
- any patient that has been diagnosed with schizophrenia, bipolar affective disorder or other psychoses within the last 3 months of the year (new diagnosis of mental health). Newly diagnosed patients may be regarded as exceptions if they fulfil the criteria of the indicator but have not yet had cervical screening recorded - maybe because there hasn't been an opportunity in the qualifying year to arrange it.

Note: For the 'new' mental health patient exception, this is only applicable for the first 'ever' diagnosis of schizophrenia, bipolar affective disorder or other psychoses for the patient. For subsequent diagnosis, this exception rule is not considered.

**Indicator MH16:** The percentage of patients (aged from 25 to 64 in England and Northern Ireland, from 20 to 60 in Scotland and from 20 to 64 in Wales) with schizophrenia, bipolar affective disorder and other psychoses whose notes record that a cervical screening test has been performed in the preceding 5 years.

a) Denominator ruleset

<i>Rule number</i>	<i>Rule</i>	<i>Action if true</i>	<i>Action if false</i>
1	If <u>MH_DAT</u> = Null	Reject	Next Rule
2	If <u>PAT_SEX</u> ≠ 'F'	Reject	Next rule
3	If <u>PAT_AGE</u> ≥ 65	Reject	Next rule
4	If <u>PAT_AGE</u> < 25	Reject	Next rule
5	If <u>HYST_COD</u> ≠ Null	Reject	Next rule
6	If <u>MHREM_DAT</u> = Null	Next Rule	Reject
7	If <u>SMEAR_DAT</u> ≥ ( <u>REF_DAT</u> – 5 years)	Select	Next rule
8	If <u>CYTEXC_DAT</u> ≥ ( <u>REF_DAT</u> – 5 years)	Reject	Next rule
9	If <u>REG_DAT</u> ≥ ( <u>REF_DAT</u> – 3 months)	Reject	Next rule
10	If <u>MHEXC_DAT</u> ≥ ( <u>REF_DAT</u> – 15 months)	Reject	Next rule
11	If <u>MH_DAT</u> ≥ ( <u>REF_DAT</u> – 3 months)	Reject	Select

b) Numerator ruleset: To be applied to the above denominator population

<i>Rule number</i>	<i>Rule</i>	<i>Action if true</i>	<i>Action if false</i>
1	If <u>SMEAR_DAT</u> ≥ ( <u>REF_DAT</u> – 5 years)	Select	Reject

**Additional Notes:**

**Denominator**

**Exclusions**

**Rule 1:** The aim of this rule is to reject any patient who is on the QOF MH Register solely due to being on/having been on Lithium treatment (i.e. LIT\_COD) from this indicator.

Any patient that does not have a read code defined in the MH\_COD cluster (i.e. the patient is only in the QOF MH Register because of a read code in LIT\_COD cluster) should not be considered for this indicator and therefore should be rejected.

After following the logic of Rule 1, any patient that has not been rejected will therefore be on the QOF MH Register because the patient has been diagnosed with a valid MH read code (i.e. MH\_COD).

**Rule 2:** The aim of this rule is to identify if the patient is female. Male patients should not be considered for this indicator. If a patient is female then they are passed on to the next rule.

**Rule 3:** The aim of this rule is to identify if the patient is aged 65 and over. Any patient aged 65 and over should not be considered for this indicator and therefore should be rejected. If a patient is aged less than 65 years old then they are passed on to the next rule.

**Rule 4:** The aim of this rule is to identify if the patient is aged less than 25 years old. Any patient aged less than 25 years old should not be considered for this indicator and therefore should be rejected. If a patient is aged 25 or over they are passed on to the next rule.

**Rule 5:** The aim of this rule is to identify if a patient has a hysterectomy or equivalent recorded anywhere in their record. Any patient with a record of hysterectomy or equivalent should not be considered for this indicator and therefore should be rejected. If a patient does not have a record of hysterectomy or equivalent then they are passed on to the next rule.

**Rule 6:** The aim of this rule is to reject any patient whose latest mental health diagnosis is in remission i.e. there is a date where a remission code is recorded after their latest diagnosis (but before the REF\_DAT). Any patient that is in remission should not be considered for this indicator and therefore should be rejected. If a patient does not have a remission code after their latest diagnosis then they are passed on to the next rule.

#### Success

**Rule 7:** The objective of this rule is to identify patients who have a record of cervical screening within the last 5 years.

If cervical screening has been recorded within the appropriate time frame the patient is selected into the denominator.

If the patient does not have cervical screening recorded within the appropriate time frame they are passed on to the next rule.

#### Exceptions

It is worth remembering at this point that if a patient has a record of cervical screening within the last 5 years they will already have been selected into the denominator in Rule 7.

**Rule 8:** The aim of this rule is to identify any patient that has a valid cervical cytology exception code recorded in the previous 5 years. If an exception code has been recorded in the previous 15 months, the patient can be excepted and is not included in the denominator. Otherwise they are passed on to the next rule.

**Rule 9:** The aim of this rule is to identify any patient that 'recently registered' at the practice. If the patient has registered at the practice in the last 3 months, the patient should not be included in the denominator. If the patient was not registered in the last 3 months they are passed on to the next rule.

**Rule 10:** The aim of this rule is to identify any patient that has a relevant mental health exception code recorded. If this has been recorded in the previous 15 months, the patient can be excepted and is not included in the denominator. Otherwise they are passed on to the next rule.

**Rule 11:** The aim of this rule is to identify any patient that has been 'recently diagnosed' with schizophrenia, bipolar affective disorder or other psychoses. If the patient has been

diagnosed in the last 3 months, the patient can be excepted and the patient should not be included in the denominator. Otherwise the patient is selected into the denominator.

**Numerator**

The success criterion for this indicator is as per Denominator Rule 7.

- 8 Indicator MH17: The percentage of patients on lithium therapy with a record of serum creatinine and TSH in the preceding 9 months.

a) Denominator ruleset

<u>Rule number</u>	<u>Rule</u>	<u>Action if true</u>	<u>Action if false</u>
1	If <u>LIT_DAT</u> >= ( <u>REF_DAT</u> – 6 months)	Next rule	Reject
2	If <u>CRE_DAT</u> >= ( <u>REF_DAT</u> – 9 months) AND If <u>TSH_DAT</u> >= ( <u>REF_DAT</u> – 9 months)	Select	Next rule
3	If <u>REG_DAT</u> >= ( <u>REF_DAT</u> – 3 months)	Reject	Next rule
4	If <u>MHEXC_DAT</u> >= ( <u>REF_DAT</u> – 15 months)	Reject	Next rule
5	If <u>ELIT_DAT</u> >= ( <u>REF_DAT</u> – 3 months)	Reject	Select

b) Numerator ruleset: To be applied to the above denominator population

<u>Rule number</u>	<u>Rule</u>	<u>Action if true</u>	<u>Action if false</u>
1	If <u>CRE_DAT</u> >= ( <u>REF_DAT</u> – 9 months) AND If <u>TSH_DAT</u> >= ( <u>REF_DAT</u> – 9 months)	Select	Reject

- 9 **Indicator MH18:** The percentage of patients on lithium therapy with a record of lithium levels in the therapeutic range in the preceding 4 months.

a) Denominator ruleset

<i>Rule number</i>	<i>Rule</i>	<i>Action if true</i>	<i>Action if false</i>
1	If <u>LIT_DAT</u> >= ( <u>REF_DAT</u> – 6 months)	Next rule	Reject
2	If <u>SLIT_DAT</u> >= ( <u>REF_DAT</u> – 4 months) AND If <u>SLIT_VAL</u> <= 1.0 AND If <u>SLIT_VAL</u> >= 0.4	Select	Next rule
3	If ( <u>TLIT_DAT</u> = <u>SLIT_DAT</u> ) AND If ( <u>TLIT_DAT</u> >= ( <u>REF_DAT</u> – 4 months))	Select	Next rule
4	If <u>REG_DAT</u> >= ( <u>REF_DAT</u> – 9 months)	Reject	Next rule
5	If <u>MHEXC_DAT</u> >= ( <u>REF_DAT</u> – 15 months)	Reject	Next rule
6	If <u>ELIT_DAT</u> >= ( <u>REF_DAT</u> – 9 months)	Reject	Select

b) Numerator ruleset: To be applied to the above denominator population

<i>Rule number</i>	<i>Rule</i>	<i>Action if true</i>	<i>Action if false</i>
1	If <u>SLIT_DAT</u> >= ( <u>REF_DAT</u> – 4 months) AND If <u>SLIT_VAL</u> <= 1.0 AND If <u>SLIT_VAL</u> >= 0.4	Select	Next rule
2	If ( <u>TLIT_DAT</u> = <u>SLIT_DAT</u> ) AND If ( <u>TLIT_DAT</u> >= ( <u>REF_DAT</u> – 4 months))	Select	Reject

**Additional Notes:**

The first rule for this indicator is to reject patients on the QOF MH Register for whom this indicator should not be measured.

**Rule 1:** The aim of this rule is to reject any patient who is on the QOF MH Register not currently on Lithium treatment (i.e. LIT\_COD) from this indicator. Any patient that does not have a read code defined in the LIT\_COD cluster (i.e. the patient is only in the QOF MH Register because of a read code in MH\_COD cluster) should not be considered for this indicator and therefore should be rejected.

After following the logic of Rules 1, any patient that has not been rejected will therefore be considered for this indicator as the patient is on Lithium treatment within the last six months.

**Rule 2:** The aim of this rule is to identify any patient that has a latest recording of Lithium treatment in the last four months that has a level that falls within the national agreement levels for Lithium.

Where there is no Lithium level or where the level is not within the nationally agreed levels for Lithium, then the patient records should be further examined.

**Rule 3:** The aim of this rule is to identify any patient that has a latest recording of Lithium treatment in the last four months that is marked as therapeutic, i.e. has a level that falls within the local agreement levels for Lithium.

Where NO acceptable Lithium level is discovered, then the patient records should be further examined to see if there are any 'exceptions' (Rules 4 to 6) that apply before including/excluding the patient in/from the denominator.

**Rule 4:** The aim of this rule is to identify any patient that 'recently registered' at the practice. If the patient has registered at the practice in the last 9 months, the patient should not be included in the denominator.

**Rule 5:** The aim of this rule is to identify any patient that has an accepted 'Mental Health Exception read code' recorded. If the patient has an accepted 'Mental Health Exception read code' recorded in the last 15 months, the patient should not be included in the denominator.

**Rule 6:** The aim of this rule is to identify any patient that has 'recently commenced Lithium treatment'. If the patient commenced Lithium treatment in the last 9 months, the patient should not be included in the denominator.

- 10 **Indicator MH10:** The percentage of patients on the register who have a comprehensive care plan documented in the records agreed between individuals, their family and/or carers as appropriate

a) Denominator ruleset

<i>Rule number</i>	Rule	<i>Action if true</i>	<i>Action if false</i>
1	If <u>MH_DAT</u> = Null	Reject	Next Rule
2	If <u>MHREM_DAT</u> = Null	Next Rule	Reject
3	[If <u>MHREM2_DAT</u> = Null AND If <u>MHP_DAT</u> >= <u>MH_DAT</u> ]  OR  [(If <u>MHREM2_DAT</u> ≠ Null) AND (If <u>MHP_DAT</u> >= <u>MH_DAT</u> AND If <u>MHP_DAT</u> >= <u>MHREM2_DAT</u> )]	Select	Next rule
4	If <u>REG_DAT</u> >= ( <u>REF_DAT</u> – 3 months)	Reject	Next rule
5	If <u>MHEXC_DAT</u> >= ( <u>REF_DAT</u> – 15 months)	Reject	Next rule
6	If ( <u>MH_DAT</u> ≠ Null AND If <u>MH_DAT</u> >= ( <u>REF_DAT</u> – 3 months))	Reject	Select

b) Numerator ruleset: To be applied to the above denominator population

<i>Rule number</i>	Rule	<i>Action if true</i>	<i>Action if false</i>
1	[If <u>MHREM2_DAT</u> = Null AND If <u>MHP_DAT</u> >= <u>MH_DAT</u> ]  OR  [(If <u>MHREM2_DAT</u> ≠ Null) AND (If <u>MHP_DAT</u> >= <u>MH_DAT</u> AND If <u>MHP_DAT</u> >= <u>MHREM2_DAT</u> )]	Select	Reject

**Additional Notes:**

The first rule for this indicator is to reject patients on the QOF MH Register for whom this indicator should not be measured.

**Rule 1:** The aim of this rule is to reject any patient who is on the QOF MH Register solely due to being on/having been on Lithium treatment (i.e. LIT\_COD) from this indicator.

Any patient that does not have a read code defined in the MH\_COD cluster (i.e. the patient is only in the QOF MH Register because of a read code in LIT\_COD cluster) should not be considered for this indicator and therefore should be rejected.

After following the logic of Rule 1, any patient that has not been rejected will therefore be on the QOF MH Register because the patient has either been diagnosed with a MH read code (i.e. MH\_COD).

**Rule 2:** The aim of this rule is to reject any patient whose latest mental health diagnosis is in remission i.e. there is a date where a remission code is recorded after their latest diagnosis (but before the REF\_DAT). Any patient that is in remission should not be considered for this indicator and therefore should be rejected. If a patient does not have a remission code after their latest diagnosis then they should be considered further.

**Rule 3:** The aim of this rule is to identify any patient who has a 'care plan' in place.

If a patient has no previous history of remission then the rule checks if their 'care plan' was in place after the date of inclusion on the QOF MH register.

If a patient has relapsed after a period of remission then the rule checks their 'care plan' has been reviewed following this remission.

Where a 'care plan' is in place within the correct time period the patient should be selected (as this is a positive result, i.e. will be included in the numerator).

Where NO 'care plan' is in place then the patient records should be further examined to see if there are any 'exceptions' (Rules 4 to 6) that apply before including/excluding the patient in/from the denominator.

**Rule 4:** The aim of this rule is to identify any patient that 'recently registered' at the practice. If the patient has registered at the practice in the last 3 months, the patient should not be included in the denominator.

**Rule 5:** The aim of this rule is to identify any patient that has an accepted 'Mental Health Exception read code' recorded. If the patient has an accepted 'Mental Health Exception read code' recorded in the last 15 months, the patient should not be included in the denominator.

**Rule 6:** The aim of this rule is to identify any patient that has been 'recently diagnosed' as an MH patient. If the patient has been diagnosed in the last 3 months, the patient should not be included in the denominator.