

Business Rules for Vaccination and Immunisation Programmes 2017/18

Meningococcal ACWY (MenACWY)

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1. Amendment History

Version	Date	Amendment history
1.0	03 July 2015	New 2015/16 service (incorporating October 2014 code release and provisional codes requested by the HSCIC clinical advisor to be released in April 2015) following review and negotiations.
2.0	18 April 2016	New 2016/17 service (incorporating April 2015 and October 2015 code release) following review and negotiations.
3.0	23 December 2016	2017/18 service updated to incorporate April 2016 Read code release following review and negotiations. Note: there was no Read code release in October 2016 for Read V2 or CTV3.

2. Background

2.1. Document Purpose

The dataset and business rules documents produced by the NHS Digital Primary Care Domain Specification Development Service are created primarily for the uses of GPES and GP system suppliers. These documents contain specifications to communicate technical details of extracts from Primary Care systems which may be used to provide Practice-level information regarding services and/or allocate rewards, such as payments or QOF points.

This document is **not** intended to be used in place of clinical guidelines, but may be referred to by any individual or organisation to aid understanding of which patients and/or activity are included in each population or output. Non-technical, textual descriptions of business rules can be found in the table columns highlighted in pale blue throughout the document.

The business rules registers for QOF and Enhanced Services are constructed solely for the purpose of supporting the practice, GP Suppliers, and NHS England in fulfilling the claims and audit requirements for the indicators. Therefore, while a register may carry the name of a particular disorder for business rules purposes, it may well not be sufficiently precise to encompass all of those patients who might be clinically assessed as requiring follow-up or clinical intervention. It is advised that where a practice wishes to construct a register for the purposes of call, recall and clinical management that it is patient based rather than solely 'disorder' based.

2.2. Business Rules Supporting Information

Further information regarding the setup of the business rules, terminology used and the calculation methods can be found in version 1.2 of the supporting information document which can be accessed here:

<http://www.digital.nhs.uk/qofextractspecs>
<http://content.digital.nhs.uk/qofextractspecs/>

Please note: both hyperlinks above have been provided whilst the NHS Digital website is being updated and these both link to the same location.

2.3. Clinical Codes

Any part of the dataset specification which uses clinical codes will have the relevant code cluster ID and version specified. The expanded code lists for each cluster can be accessed from the following location:

<http://www.digital.nhs.uk/esbrv7>

<http://content.digital.nhs.uk/esbrv7>

Please note: both hyperlinks above have been provided whilst the NHS Digital website is being updated and these both link to the same location.

Clinical code clusters are applied to the **April 2016** release of Read codes version 2 and clinical terms version 3 (CTV3) for this ruleset.

2.4. Guidance

Guidance for all Quality Services can be found on the NHS Employers website through the following links:

<http://www.nhsemployers.org/your-workforce/primary-care-contacts/general-medical-services/vaccination-and-immunisation>

<http://www.nhsemployers.org/your-workforce/primary-care-contacts/general-medical-services>

<http://www.nhsemployers.org/VandI201718>

<https://www.england.nhs.uk/commissioning/gp-contract/>

3. Dataset specification

3.1 Qualifying Dates

The dataset and rules in this document refer to various dates, which may include any number of the dates from the table below. Further information regarding how to use these dates within calculations can be found in the supporting information document (see section 2.2).

Term	Definition	Timeframe for this Service
Quality Service Start Date (QSSD)	The first day of the period during which a GP Practice provides the Quality Service	01/04/2017
Quality Service End Date (QSED)	The last day of the period during which a GP Practice provides the Quality Service	31/03/2018
Quality Service Period	The period during which a GP Practice provides the Quality Service specified in this document.	The time period between the QSSD and the QSED
Quality Service Data Extract Frequency	The frequency of data extracts associated with the Quality Service	Monthly
Quality Service Payment Period	The frequency of payments associated with the Quality Service. In any given Quality Service Period there may be one, multiple or no payment periods.	Monthly
Payment Period Start Date (PPSD)	The first day of each period for which payments are made for the Quality Service. (i.e. for monthly payment periods, the PPSD will be the 1 st of the month in question). Where there are no payment periods (e.g. where payments are made as part of core contract) the PPSD denotes the first day of the extract period in question.	Date not used in this ruleset
Payment Period End Date (PPED)	The last day of each period for which payments are made for the Quality Service. (i.e. for monthly payment periods, the PPED will be the last day of the month in question). Where there are no payment periods (e.g. where payments are made as part of core contract) the PPED denotes the last day of the extract period in question.	The last day of each Month
Achievement Date (ACHV_DAT)	The date up to which patient information is considered when determining the output for each extraction. This is usually the same as the RPED; however, where interim extracts are made the achievement date will vary for each extraction.	The last day of each Month

Term	Definition	Timeframe for this Service
Reporting Period	The full period which data is being extracted for.	The time period between the RPSD and the ACHV_DAT
Reporting Period Start Date (RPSD)	The date from which pertinent patient information is considered for the reporting period in question <ul style="list-style-type: none"> For <i>non-cumulative</i>* data extracts this relates to the extract frequency (e.g. for a monthly data extract the RPSD will be the 1st of the month in question). For <i>cumulative</i>* data extracts the time period will usually equal the QSSD or PPSD (e.g. for a <i>within quarter cumulative count</i> the RPSD is the first day of the quarter, for an <i>annual cumulative count</i> the RPSD is the QSSD) 	<ul style="list-style-type: none"> The first day of each Quality Service Data Extract Frequency period, OR The first day of the period over which data is cumulatively collected.
Reporting Period End Date (RPED)	The last date of the period the extract relates to (usually the last day of a month e.g. 30 th April, 31 st May, etc).	The last day of each Month

* For the purposes of the business rules 'Cumulative' data collections are extracts which have varying incremental end dates but where groups of extracts or all extracts have a single start date e.g. each extract across the year starts at the QSSD and is taken up the achievement date. Due to the fact that patients may change practice during the year this is not a true cumulative data collection as patients may drop out of counts or enter counts at a later stage; however, this is the terminology used in this document to describe these kinds of counts. 'Non-cumulative' refers to data collections which are discrete extracts between two dates. These non-cumulative data collections do not overlap.

3.2 Patient selection criteria

All [Populations](#) and [Outputs](#) are to be returned at **Practice-level** for this service.

3.2.1 GMS registration status

Qualifying criteria	Action if true	Action if false	Non-technical Description
(If REG_DAT ≠ Null AND If DEREG_DAT = Null) OR (If REG_DAT ≠ Null AND If DEREG_DAT > ACHV_DAT)	Select	Reject	Select patients who meet either of the criteria below <ul style="list-style-type: none"> registered for GMS prior to or on the achievement date and did not subsequently deregister from GMS (Currently registered for GMS) registered for GMS prior to or on the achievement date and subsequently deregistered from GMS after the achievement date (Previously registered for GMS) (i.e. patients who were registered for GMS on the achievement date) Reject the remaining patients.
<i>End of rules</i>			

3.2.2 Populations

3.2.2.1 Case registers

N/A - there are no registers for this service.

3.2.2.2 Cohorts

Each patient can only be included once per cohort.

Cohort Count ID	Description	Applied to patients defined in:
ACWYCC001	The number of registered patients aged 18 years on 31 August 2017.	GMS registration status

Rule number	Rule	Action if true	Action if false	Rule description or comments
1	If PAT1_AGE = 18 years	Select	Reject	Select patients from the specified population who are aged 18 years on 31 August 2017. Reject the remaining patients.
<i>End of rules</i>				

Cohort Count ID	Description	Applied to patients defined in:
ACWYCC002	The number of registered patients aged at least 19 years on 31 August 2017 and aged less than 25 years at the start of the reporting period.	GMS registration status

Rule number	Rule	Action if true	Action if false	Rule description or comments
1	If PAT1_AGE >= 19 years AND If PATRPSD_AGE < 25 years	Select	Reject	Select patients from the specified population who meet both of the criteria below <ul style="list-style-type: none"> Aged 19 years or over on 31 August 2017 Aged less than 25 years old on the reporting period start date. Reject the remaining patients.
<i>End of rules</i>				

3.2.3 Clinical Code Clusters

The dataset may include dates and values associated with the presence of clinical codes in a patient's record. All clinical code clusters referred to in the clinical data extraction criteria are detailed below. The expanded cluster lists for each cluster can be found on the NHS Digital website (see section 2.3).

Cluster Name	Description	Read V2	CTV3	Cluster Version
MENACWYGP_COD	MenACWY GP vaccination codes	657J. , 657J0 , 657J1 , 657J2 , 657J3 , n4I9. , n4IA.	XaIQX , XacK1 , XacK2 , XacK3 , XacK4 , n4I9. , n4IA. , x0553	100
MENACWYOHP_COD	MenACWY other healthcare provider vaccination codes	657J4	XacK5	100
MENACWYDEC_COD	MenACWY declined codes	657J5	XacK7	100
<i>End of clusters</i>				

3.2.4 Clinical Data Extraction Criteria

Field number	Field name	Code cluster (if applicable)	Qualifying criteria	Non-technical Description
1	PAT_ID	n/a	Unconditional	<i>The patients unique ID number for the practice in question</i>
2	REG_DAT	n/a	Latest <= ACHV_DAT	<i>The most recent date that the patient registered for GMS, where this registration occurred on or before the achievement date</i>
3	DEREG_DAT	n/a	Earliest > REG_DAT	<i>The first occurrence of the patient deregistering from GMS following REG_DAT</i>
4	PAT_DOB	n/a	Unconditional	<i>The patient's date of birth</i>
5	PAT1_AGE	n/a	Patient age (years) at (QSSD + 152 days)	<i>The age of the patient in full years on 31 August 2017</i>
6	PATRPSD_AGE	n/a	Patient age (years) at RPSD	<i>The age of the patient in full years on the reporting period start date</i>
7	MENACWYGP_DAT	MENACWYGP_COD	Earliest <= ACHV_DAT	<i>The date of the first MenACWY vaccination given to the patient by the GP practice on or before the achievement date.</i>
8	MENACWYOHP_DAT	MENACWYOHP_COD	Earliest <= ACHV_DAT	<i>The date of the first MenACWY vaccination given to the patient by another healthcare provider on or before the achievement date.</i>
9	MENACWYVAC_DAT	n/a	Earliest of (MENACWYGP_DAT , MENACWYOHP_DAT)	<i>The date of the first MenACWY vaccination given to the patient on or before the achievement date, either by the GP practice or another healthcare provider.</i>
10	MENACWYDEC_DAT	MENACWYDEC_COD	Earliest (>= QSSD AND <= ACHV_DAT)	<i>The date of the first MenACWY vaccination declined by the patient between the quality service start date and the achievement date.</i>
<i>End of fields</i>				

4. Outputs

4.1. Indicator(s)

N/A - there are no indicators for this service.

4.2. Payment Count(s)

These counts will be used to determine payment.

Payment Count ID	Description	Applied to population:
ACWY001	Monthly count of the number of patients aged 18 years on 31 August 2017 who received their earliest MenACWY vaccination administered by the GP practice within the reporting period	ACWYCC001

Rule number	Rule	Action if true	Action if false	Rule description or comments
1	If MENACWYGP_DAT = MENACWYVAC_DAT AND If MENACWYGP_DAT > (PPED – 1 month) AND If MENACWYGP_DAT <= PPED	Select	Reject	Select patients from the specified population whose earliest MenACWY vaccine was administered by the GP practice within the reporting period. Reject the remaining patients.
<i>End of rules</i>				

Payment Count ID	Description	Applied to population:
ACWY002	Monthly count of the number of patients who received their earliest MenACWY vaccination whilst aged at least 19 years on 31 August 2017 and before attaining 25 years of age, administered by the GP practice within the reporting period	ACWYCC002

Rule number	Rule	Action if true	Action if false	Rule description or comments
1	If MENACWYGP_DAT = MENACWYVAC_DAT AND If MENACWYGP_DAT > (PPED – 1 month) AND If MENACWYGP_DAT <= PPED AND If MENACWYGP_DAT < (PAT_DOB + 25 years)	Select	Reject	Select patients from the specified population who meet the criteria below <ul style="list-style-type: none"> The earliest MenACWY vaccine was administered by the GP practice within the reporting period The patient received the vaccination whilst they were aged less than 25 years old. Reject the remaining patients.
<i>End of rules</i>				

4.3. Management Information Count(s)

These counts will be used to support management information reporting and will not be used for payment.

MI Count ID	Description	Applied to population:
ACWYMI001	Monthly count of the number of patients aged 18 years on 31 August 2017 who declined a MenACWY vaccination within the reporting period.	ACWYCC001

Rule number	Rule	Action if true	Action if false	Rule description or comments
1	If MENACWYVAC_DAT <= PPED	Reject	Next rule	Reject patients from the specified population who received a MenACWY vaccination up to and including the payment period end date. Pass all remaining patients to the next rule.
2	If MENACWYDEC_DAT > (PPED – 1 month) AND If MENACWYDEC_DAT <= PPED	Select	Reject	Select patients passed to this rule who declined the MenACWY vaccine within the reporting period. Reject the remaining patients.
<i>End of rules</i>				

MI Count ID	Description	Applied to population:
ACWYMI002	Monthly count of the number of patients aged at least 19 years on 31 August 2017 who declined a MenACWY vaccination within the reporting period before attaining 25 years of age.	ACWYCC002

Rule number	Rule	Action if true	Action if false	Rule description or comments
1	If MENACWYVAC_DAT <= PPED	Reject	Next rule	Reject patients from the specified population who received a MenACWY vaccination up to and including the payment period end date. Pass all remaining patients to the next rule.
2	If MENACWYDEC_DAT > (PPED – 1 month) AND If MENACWYDEC_DAT <= PPED AND If MENACWYDEC_DAT < (PAT_DOB + 25 years)	Select	Reject	Select patients passed to this rule who meet the criteria below: <ul style="list-style-type: none"> Declined the MenACWY vaccine within the reporting period Declined the vaccination whilst they were aged less than 25 years old. Reject the remaining patients.
<i>End of rules</i>				

MI Count ID	Description	Applied to population:
ACWYMI003	Monthly count of the number of patients aged 18 years on 31 August 2017 who received their earliest MenACWY vaccination administered by another healthcare provider up to the end of the reporting period.	ACWYCC001

Rule number	Rule	Action if true	Action if false	Rule description or comments
1	If MENACWYVAC_DAT < QSSD	Reject	Next rule	Reject patients from the specified population who received a MenACWY vaccination, from the GP practice or another healthcare provider, up to the quality service start date. Pass all remaining patients to the next rule.
2	If MENACWYOHP_DAT = MENACWYVAC_DAT AND If MENACWYOHP_DAT <= PPED	Select	Reject	Select patients passed to this rule whose earliest MenACWY vaccine was administered by another healthcare provider up to and including the payment period end date. Reject the remaining patients.
<i>End of rules</i>				

MI Count ID	Description	Applied to population:
ACWYMI004	Monthly count of the number of patients who received their earliest MenACWY vaccination whilst aged at least 19 years on 31 August 2017 and before attaining 25 years of age, administered by another healthcare provider up to the end of the reporting period.	ACWYCC002

Rule number	Rule	Action if true	Action if false	Rule description or comments
1	If MENACWYVAC_DAT < QSSD	Reject	Next rule	Reject patients from the specified population who received a MenACWY vaccination, from the GP practice or another healthcare provider, up to the quality service start date. Pass all remaining patients to the next rule.
2	If MENACWYOHP_DAT = MENACWYVAC_DAT AND If MENACWYOHP_DAT <= PPED AND If MENACWYOHP_DAT < (PAT_DOB + 25 years)	Select	Reject	Select patients passed to this rule who meet all of the criteria below: <ul style="list-style-type: none"> The patients earliest MenACWY vaccine was administered by another healthcare provider The vaccine was given up to and including the payment period end date The vaccine was given when the patient was aged less than 25 years old. Reject the remaining patients.
<i>End of rules</i>				

MI Count ID	Description	Applied to population:
ACWYMI005	Monthly count of the number of patients who are aged 18 years on 31 August 2017 who did not receive a MenACWY vaccination and have no recorded reason for not receiving it, up to the end of the reporting period.	ACWYCC001

Rule number	Rule	Action if true	Action if false	Rule description or comments
1	If MENACWYVAC_DAT ≠ Null OR If MENACWYDEC_DAT ≠ Null	Reject	Select	Reject patients from the specified population who meet either of the criteria below <ul style="list-style-type: none"> • Patient received a MenACWY vaccine from any healthcare provider up to and including the achievement date • Patient declined a MenACWY vaccination from the start of the quality service up to and including the achievement date Select the remaining patients.
<i>End of rules</i>				

4.4. Patient-level Extract(s)

N/A - Not applicable for this service.

5. Appendix - Supporting data for NHS Digital SDS

Category	Database value
TRUD version	V21_0_0
Document version	3.0
Ruleset Database ID	MenACWY
Database Service ID	V&I
QSR Reference	QSR1718010