

Business Rules for Patient-level Data Extracts 2017/18

National Diabetes Audit

Author: Primary Care Domain Specification Development Service (SDS), NHS Digital

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1. Amendment History

Version	Date	Amendment history
1.0	11 August 2017	New 2017/18 service (incorporating April 2017 code release) following review and negotiations.
1.1	10 January 2018	Height and weight have been added to the service following initial review by National Diabetes Audit Team.
1.2	23 January 2018	Changes made to HEIGHT_COD and WEIGHT_COD following feedback.

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 2017** release of clinical terms version 3 (CTV3) for this ruleset. As of April 2016 there were no further releases of Read V2 codes therefore Read V2 codes are as at April 2016.

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/enhanced-services>

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

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

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
Audit Period Start Date (APSD)	The first day of the audit period.	01/01/2017
Audit Period End Date (APED)	The last day of the audit period.	31/03/2018
Audit Period	The period during which a GP Practice provides data for the audit.	The time period between the APSD and the APED (inclusive).
Audit Data Extract Frequency	The frequency of data extracts associated with the audit.	Quarterly
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 Audit Data Extract Frequency period.
Reporting Period	The full period which data is being extracted for.	The time period between the APSD and the RPED (inclusive).

** 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 APSD 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 **Patient-level** for this service.

3.2.1 GMS registration status

Qualifying criteria		Action if true	Action if false	Non-technical Description
1	(If REG_DAT ≠ Null AND If DEREG_DAT = Null) OR (If REG_DAT ≠ Null AND If DEREG_DAT > RPED)	Next rule	Reject	Pass to the next rule all patients who meet either of the criteria below: <ul style="list-style-type: none"> Registered for GMS prior to or on the reporting period end date and did not subsequently deregister from GMS (Currently registered for GMS). Registered for GMS prior to or on the reporting period end date and subsequently deregistered from GMS after the reporting period end date. (Previously registered for GMS). (i.e. patients who were registered for GMS on the reporting period end date) Reject the remaining patients.
2	(If POBJEC_DAT ≠ Null AND If POBJECW_DAT = Null) OR (If POBJECW_DAT ≠ Null AND If POBJEC_DAT >= POBJECW_DAT)	Reject	Select	Reject patients passed to this rule who dissent from secondary use of GP patient identifiable data (type 1 objection code) which has not been subsequently withdrawn up to the reporting period end date. Select 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:
NDACC001	The number of patients with diabetes mellitus diagnosed up to and including 31 March 2018 who have not dissented to their data being used for the National Diabetes Audit.	GMS registration status

Rule number	Rule	Action if true	Action if false	Rule description or comments
1	If NDADM_DAT ≠ Null	Next rule	Reject	Pass to the next rule all patients from the specified population who had a diagnosis of diabetes mellitus up to and including the reporting period end date. Reject the remaining patients.
2	(If NDAOBJEC_DAT ≠ Null AND If NDACONS_DAT = Null) OR (If NDACONS_DAT ≠ Null AND If NDAOBJEC_DAT >= NDACONS_DAT)	Reject	Select	Reject patients passed to this rule who dissent/object from the use of their GP patient identifiable data within the National Diabetes Audit (NDA) and who have not subsequently consented, up to and including the reporting period end date. Select the remaining patients.
<i>End of rules</i>				

Cohort Count ID	Description	Applied to patients defined in:
NDACC002	The number of patients with non-diabetic hyperglycaemia diagnosed up to and including 31 March 2018, who do not have a diagnosis of diabetes mellitus and who have not dissented to their data being used for the National Diabetes Audit.	GMS registration status

Rule number	Rule	Action if true	Action if false	Rule description or comments
1	If NDADM_DAT = Null	Next rule	Reject	Pass to the next rule all patients from the specified population who did not have a diagnosis of diabetes mellitus up to and including the reporting period end date. Reject the remaining patients.
2	If NDAPRDC_DAT = Null	Reject	Next rule	Reject patients passed to this rule who have not been diagnosed with pre-diabetes. Pass all remaining patients to the next rule.
3	(If NDAOBJEC_DAT ≠ Null AND If NDACONS_DAT = Null) OR (If NDACONS_DAT ≠ Null AND If NDAOBJEC_DAT >= NDACONS_DAT)	Reject	Select	Reject patients passed to this rule who dissent/object from the use of their GP patient identifiable data within the NDA and who have not subsequently consented, up to and including the reporting period end date. Select 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
POBJEC_COD	Dissent from secondary use of GP patient identifiable data	9Nu0.	XaZ89	100
POBJECW_COD	Dissent withdrawn from secondary use of GP patient identifiable data	9Nu1.	XaZ8A	100
NDAOBJEC_COD	National Diabetes Audit and Audit specific dissent codes	9M1.. , 9M10.	XaJrC , XaJrE	100
NDACONS_COD	National Diabetes Audit and Audit specific dissent withdrawn codes via consent	9M0.. , 9M00.	XaJrB , XaJrD	100
NDAETHNICITY_COD	Ethnicity codes	9S...% (excluding 9S... , 9SZ..) , 9T...% (excluding 9T... , 9TC..%) , 9t...% (excluding 9t0.. , 9t... , 9t1.. , 9t2..) , 9i...% (excluding 9i...)	XaBEN% THEN EXCLUDE XaBEN , XactF , XactG , 9T... , XactE , XaJQu , XactD , 9S... , XaedV%	100

Cluster Name	Description	Read V2	CTV3	Cluster Version
NDADM_COD	National Diabetes Audit Diabetes Mellitus diagnosis codes	C10..% (excluding C1098 , C10F8 , C10K. , C10K0) , Cyu2.% , L1805-L1807 , L180X , PKyP.	C10..% , XaJUH% , X008t THEN EXCLUDE C1001% , C1000% , XE128% , C107.% , XE12A% , XE12C% , C104.% , L1808% , X40JE% , Xa08X% , L180.% , Q441.	100
CRE_COD	Codes for serum creatinine	44J3.% , 44JC. , 44JD. , 44JF.	XE2q5% , XaETQ , XaERX , 44J30 , 44J31 , 44J32 , 44J33	100
NDAALB_COD	Urine Albumin codes	44J6. , 44J7. , 44ID. , 467A. , 46N4.-46N6. , 44JG. , 46TC. , 46TD.	XaEMU% , XaENw% , XaBLI% , X773Y% , X77Y0% , 46N4.% , XE2eI , XaEMS%	100
NDAPRT_COD	Persistent Proteinuria codes	1Z17. , 1Z19. , 1Z1B. , 1Z1D. , 1Z1F. , 1Z1H. , 1Z1K. , 1Z1N. , 1Z1P. , 1Z1R. , 1Z1S. , 1Z1V. , 1Z1W. , 1Z1Y. , 1Z1Z. , 1Z1b. , 1Z1c. , 1Z1e. , 1Z1f. , C10EK , C10EL , C10FL , C10FM , K08yA , K190X , Kyu5G , R110.% (excluding R1101 , R1102)	R1100% , XaE6q% , R110. , R110z% , Kyu5G% , X30Q2 , Xac9z% , XacA2% , XacA6% , XacA9% , XacAN% , XacAO% , XacAW% , XacAX% , XacAd% , XacAe% , XacAh% , XacAi% , XaO3p% , XaO3r% , XaO3t% , XaO3v% , XaO3x% , XaO3z% , XaO41% , XaE6p , X30KI% , XC0sw% , X30Q1 , X30Km% , XaIzN% , XaIzM% , XaIzR% , XaIzQ%	100
RETSCREN_COD	Retinal Screening codes	31283 , 3129. , 312F. , 58C1. , 68A7. , 68A8. , 9N2f.	XaFrO% , XaXfs% , XaIIj% , Xa1zl% , Ua1qM% , XaIPm% , 3129.	100

Cluster Name	Description	Read V2	CTV3	Cluster Version
FOOTEXAM_COD	Feet examination (neuropathy testing or peripheral pulses) codes	24E..% (excluding 24E2.-24E5. , 24EG. , 24E. , 24EZ.) , 24F..% (excluding 24F2.-24F5. , 24FG. , 24F. , 24FZ.) , 29B..% (excluding 29B. , 29B4. , 29B5. , 29B50 , 29B6. , 29BZ.) , 29H..% (excluding 29H. , 29HZ.) , 2G5A. , 2G5B. , 2G5d. , 2G5E. , 2G5e. , 2G5F. , 2G5G. , 2G5H. , 2G5I. , 2G5J. , 2G5K. , 2G5L. , 311A. , 585a.-585e. , 585V.-585Y. , 66Ab. , 66Ac. , 66AE. , 66Aq. , 66AW. , 8H7r. , 9NND.	XaIup , XaIuE% , XaIeT% , XaPQH% , XaIyt% , 66AE.% , XaIul% , XaIuq% , XaIun% , XaIus% , XaIId% , XaBL9% , XaBL8% , XE1hu% , XM1Mo% , XM1Mj% , XaIeK% , XaIeM% , XaX6K% , XaIeL% , XaIeR% , 24F1.% , XaIQQ% , XaNdQ% , XM1Mr% , XM1Mm% , XaIeJ% , XaIeI% , XaX6J% , XaIeH% , XaIeS% , XaIQR% , XaNdT% , 29B..% , 29H..% , 24E1.% , XaBLg% , XaBLf% , Xa7sa% , Xa6Zz% , XaIQS% , 66Aq.% , XaIur% , XaIum% , XaIuo% , XaIut% , XaJO9% THEN EXCLUDE 29B. , 29H. , Xa7sa , Xa6Zz , 29B4.% , 29B5.% , 29BZ.% , 29HZ.%	100
NDASMOK_COD	NDA Smoking habit codes	137..% (excluding 137E. , 137I. , 137I0 , 137U. , 137W. , 137g. , 137i. , 137k. , 137n.)	1371. , 1372. , 1373. , 1374. , 1375. , 1376. , 1377. , 1378. , 1379. , 137A. , 137B. , 137C. , 137D. , 137F. , 137G. , 137H. , 137J. , 137K. , 137L. , 137M. , 137N. , 137O. , 137P. , 137Q. , 137R. , 137T. , 137Z. , Ub0oq , Ub0p1 , Ub1na , Ub1tI , Ub1tJ , Ub1tK , Ub1tR , Ub1tS , Ub1tT , Ub1tU , Ub1tV , Ub1tW , Xa1bv , XaBSp , XaIIu , XaIkW , XaIkX , XaIkY , XaItg , XaJX2 , XaLQh , XaQ8V , XaQzw , XaWNE , XaXP6 , XaXP8 , XaZIE , XE0og , XE0oh , XE0oi , XE0oj , XE0ok , XE0ol , XE0om , XE0on , XE0op , XE0oq , XE0or	100

Cluster Name	Description	Read V2	CTV3	Cluster Version
NDASEPREV_COD	Diabetes education review codes	66Af. , 679L. , 679L0 , 661M4 , 661N4	XaYbB% , XaYZP% , XaR8L% , XaJ7D , XaKGs%	100
NDASEPOFF_COD	Offered diabetes structured education programme codes	679R. , 8Hj..% (excluding 8Hj.. , 8Hj1. , 8Hj2.) , 9OLM. , 9NiA. , 9NiC.-9NiE. , 8I81.-8I84. , 8IE9. , 8IEa.	XaNTH% , XaNTd% , XaNtA% , XaKSp% , XaZuQ% , XaXkZ% , XaKGy% THEN EXCLUDE XaeCw%	100
NDASEPATT_COD	Attended diabetes structured education programme codes	9OLB. , 9OLE.-9OLH. , 9OLJ.-9OLL.	XaKH0% , XaNTB% , XaNTC% , XaNHW% , XaX5D , XaNTD%	100
CHD_COD	Coronary heart disease codes	G3...-G309. , G30B.-G330z (excluding G310.) , G33z.-G3401 , G342.-G35X. , G38.-G3z.. , Gyu3.% (excluding Gyu31)	XE2uV% , Ua1eH , Xa1dP% , XaYYq , XM0rN THEN EXCLUDE Xa07j% , G341.% , X200B% , X200c , G363. , Gyu31 , X200d , X200e	100
LD_COD	Learning Disability codes	E3...% , Eu7..% , Eu814 , Eu815 , Eu816 , Eu817 , Eu81z , 918e. , Eu818	E3...% , XaQZ4 , XaQZ3 , XaKYb , XaREt , XaREu , Eu81z , XaaiS , Xabk1	101
MH_COD	Psychosis, schizophrenia + bipolar affective disease codes	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% , X00SL , X00SM% , X00SJ% , XSGon , E11z. , E11z0 , E11zz , XE1ZZ , XE1Ze , XaX54 , XaX53 , E130. , E1124 , E1134 THEN EXCLUDE Xa9B0% , E14..%	100
IFCCHBAM_COD	IFCC HbA1c Monitoring range codes	42W5. , 42W51	XaPbt , Xaeze	100

Cluster Name	Description	Read V2	CTV3	Cluster Version
NDABP_COD	NDA BP recording codes	246..% (excluding 246n.% , 246o.% , 246h.-246k. , 2460. , 2468. , 246H. , 246I. , 246K. , 246L. , 246M.)	XaF4c , XaF4e , XaF4d , XaKjG% , XaKjF% , XaF4S% , XaF4F% , XM02Y , X779T% , X779R% , 246C.% , XaJ2H% , XaJ2G% , Xaedn , X779S% , X779Q% , 246..% , XaOQP% , 246E.% , XaJ2F% , XaJ2E% , 246D.% , XaIwk% , XaIwj% , XM02X THEN EXCLUDE XaCFO% , XaCFN% , 2468.% , 2460.% , 662C.% , 662B.%	100
NDABMI_COD	NDA BMI codes	22K..% (excluding 22KA.)	22K..% , Xa7wG% THEN EXCLUDE XaZMj% , X76CN%	100
HEIGHT_COD	Height measured or declined	229..% (excluding 2296.) , 9NSZ. , 8IHM.	229..% (excluding 2296.) , XaesF , Xaef4	101
WEIGHT_COD	Weight measured or declined	22A..% (excluding 22A7.-22A9.) , 9NSa. , 8IAH.	22A..% , 22AA. , X76C3 , XaesG , XaQ7T	101
NDACHOLEST_COD	NDA Cholesterol recorded	44P.. , 44P1.-44P4. , 44PH. , 44PJ. , 44PK. , 44PZ. , 44OE.	XaFs9% , XaIRd% , 44P2.% , XE2eD% , 44P1.% , 44P3.% , 44P4.% , XSK14%	100
IGT_COD	Impaired glucose tolerance codes	C11y2 , C11y3 , C11y4 , R10E. , R10D0	XaIRY , X40Jh , XaIRK , XaZfW , XaIRK , XaInl , X40Jh	100
FASPLASGLUC_COD	Fasting plasma glucose codes	44g1.	44g1.	100
NDH_COD	Non-diabetic hyperglycaemia codes	C317.	XaaeP	100
NDAPRD_COD	NDA Pre-Diabetes codes	C11y5	XaZq8	100
DPPOFF_COD	Referral to NHS Diabetes Prevention Programme Offered/Declined	679m3 , 679m4	XaeDH , XaeDG	100

Cluster Name	Description	Read V2	CTV3	Cluster Version
DPPATT_COD	Referral to NHS Diabetes Prevention Programme Attended	679m0 , 679m2	XaeD0 , XaeCw	100
DPPCOMP_COD	Referral to NHS Diabetes Prevention Programme Completed	679m1	XaeCz	100
DMTRTATRISK1_COD	Diabetes mellitus drugs codes	f1...% , f2...% , f3...% , f4...% , ft...% , fw...%	x006f% , ftb..% , x008T% , ft...% , ft8..% , fta..%	102
METFORMIN_COD	Metformin drug codes	f41.. , f41s. , f41t. , f41u. , f41v. , f41w. , f41x. , f41y. , f41z. , ft7.. , ft7z. , ftb.. , ftby. , ftbz. , fte.. , ftez. , ftg.. , ftg2. , ftg4. , fti.. , fti2. , fti4. , ftl.. , ftl2. , ftm.. , ftm2. , ftm4. , ftp.. , ftp2. , ftp4. , ftr.. , ftr2. , ftr4. , ftr6. , ftr8.	ftl2.% , ftp4.% , ftp2.% , ftm2.% , ftm4.% , ftr8.% , ftr4.% , ftr2.% , ftr6.% , ftg2.% , ftg4.% , ft7z. , x01Li , ftl.. , ftp.. , ftm.. , ftr.. , ftg.. , ft7.. , fti.. , fte.. , ftb.. , f41w. , f41u.% , f41s.% , f41x. , f41y. , f41t.% , f41v.% , f41z. , f41.. , fti2.% , fti4.% , ftez.% , ftby. , ftbz.	100
STAT_COD	Statin Codes	bxi..% , bxg..% , bxe..% , bxk..% , bxd..%	bxi..% , x01R2% , x01R3% , bxk..% , bxd..%	102
ANTIHYPER_COD	Antihypertensive medications	b2...% , b3...% , b4...% , b5...% , b9...% , bA...% , bb3..% , bd...% , be...% , bf...% , bg...% , bh...% , bi...% , bk...% (excluding bkG..% , bkA..% , bkK..%) , bI5..% , bI7..% , bI8..% , bla..% , blb..% , blc..% , ble..% , blg..% , blh..% , bli..% , blj..% , bli..%	bd...% , x001i% , x01QX% , x0039% , be...% THEN EXCLUDE bkG..% , bkA..% , bkK..% , gh5..% , b6...% , b7...% , x02LF%	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_NHSNUMBER	n/a	Unconditional	<i>The patients NHS number.</i>
2	PAT_DOB	n/a	Unconditional	<i>The date of birth of the patient.</i>
3	PAT_POSTCODE	n/a	Unconditional	<i>The post code of the patients current address.</i>
4	PRACTICE_CODE	n/a	Unconditional	<i>The national practice code for the practice.</i>
5	PAT_SEX	n/a	Unconditional	<i>The patients gender.</i>
6	REG_DAT	n/a	Latest <= RPED	<i>The most recent date that the patient registered for GMS, where this registration occurred on or before the reporting period end date.</i>
7	DEREG_DAT	n/a	Earliest > REG_DAT	<i>The first occurrence of the patient deregistering from GMS following the latest GMS registration.</i>
8	NDAETHNICITY_DAT	NDAETHNICITY_COD	Latest <= RPED	<i>The date of the latest ethnicity of the patient.</i>
9	NDAETHNICITY_COD	NDAETHNICITY_COD	Latest <= RPED	<i>The latest 'ethnicity code' recorded on the same date as the latest recorded ethnicity (i.e. on the date returned in the NDAETHNICITY_DAT field).</i>
10	POBJECW_DAT	POBJECW_COD	Latest <= RPED	<i>The date of the most recent patient dissent from secondary use of GP patient identifiable data withdrawn code up to the reporting period end date.</i>
11	POBJEC_DAT	POBJEC_COD	Latest <= RPED	<i>The date of the most recent patient dissent from secondary use of GP patient identifiable data up to the reporting period end date.</i>

Field number	Field name	Code cluster (if applicable)	Qualifying criteria	Non-technical Description
12	NDAOBJEC_DAT	NDAOBJEC_COD	Latest <= RPED	<i>The date of the most recent patient objection for the use of GP patient identifiable data to be used as part of the NDA or National Audits up to and including the reporting period end date.</i>
13	NDACONS_DAT	NDACONS_COD	Latest <= RPED	<i>The date of the most recent patient consent for the use of GP patient identifiable data to be used as part of the NDA or National Audits up to and including the reporting period end date.</i>
14	NDADM_DAT	NDADM_COD	Earliest <= RPED	<i>The date of the earliest diagnosis of diabetes mellitus up to and including the reporting period end date.</i>
15	NDADM_COD	NDADM_COD	Earliest <= RPED	<i>The earliest 'diabetes mellitus diagnosis code' recorded on the same date as the earliest recorded diabetes mellitus diagnosis (i.e. on the date returned in the NDADM_DAT field).</i>
16	NDADMLAT_DAT	NDADM_COD	Latest <= RPED	<i>The date of the latest diagnosis of diabetes mellitus up to and including reporting period end date.</i>
17	NDADMLAT_COD	NDADM_COD	Latest <= RPED	<i>The latest 'diabetes mellitus diagnosis code' recorded on the same date as the latest recorded diabetes mellitus diagnosis (i.e. on the date returned in the NDADMLAT_DAT field).</i>
18	CRE_DAT	CRE_COD	Latest <= RPED AND >= APSD	<i>The date of the latest serum creatinine result from the audit period start date up to and including the reporting period end date.</i>
19	CRE_COD	CRE_COD	Latest <= RPED AND >= APSD	<i>The latest 'creatinine result code' recorded on the same date as the latest recorded creatinine result (i.e. on the date returned in the CRE_DAT field).</i>
20	CRE_VAL1	CRE_COD	Latest <= RPED AND >= APSD	<i>The latest 'creatinine result value 1' recorded on the same date as the latest recorded creatinine result (i.e. on the date returned in the CRE_DAT field).</i>

Field number	Field name	Code cluster (if applicable)	Qualifying criteria	Non-technical Description
21	CRE_VAL2	CRE_COD	Latest <= RPED AND >= APSD	<i>The latest 'creatinine result value 2' recorded on the same date as the latest recorded creatinine result (i.e. on the date returned in the CRE_DAT field).</i>
22	NDAALB_DAT	NDAALB_COD	Latest <= RPED AND >= APSD	<i>The date of the latest urine albumin/creatinine ratio result from the audit period start date up to and including the reporting period end date.</i>
23	NDAALB_COD	NDAALB_COD	Latest <= RPED AND >= APSD	<i>The latest 'albumin result code' recorded on the same date as the latest recorded albumin result (i.e. on the date returned in the NDAALB_DAT field).</i>
24	NDAALB_VAL1	NDAALB_COD	Latest <= RPED AND >= APSD	<i>The latest 'albumin result value 1' recorded on the same date as the latest recorded albumin result (i.e. on the date returned in the NDAALB_DAT field).</i>
25	NDAALB_VAL2	NDAALB_COD	Latest <= RPED AND >= APSD	<i>The latest 'albumin result value 2' recorded on the same date as the latest recorded albumin result (i.e. on the date returned in the NDAALB_DAT field).</i>
26	NDAPRT_DAT	NDAPRT_COD	Earliest <= RPED	<i>The date of the earliest persistent proteinuria diagnosis ever, up to and including the reporting period end date.</i>
27	NDAPRT_COD	NDAPRT_COD	Earliest <= RPED	<i>The earliest 'persistent proteinuria diagnosis code' recorded on the same date as the earliest recorded persistent proteinuria diagnosis (i.e. on the date returned in the NDAPRT_DAT field).</i>
28	RETSCREN_DAT	RETSCREN_COD	Latest <= RPED AND >= APSD	<i>The date of the latest retinopathy screening record from the audit period start date up to and including the reporting period end date.</i>
29	RETSCREN_COD	RETSCREN_COD	Latest <= RPED AND >= APSD	<i>The latest 'retinopathy screening code' recorded on the same date as the latest recorded retinopathy screening (i.e. on the date returned in the RETSCREN_DAT field).</i>

Field number	Field name	Code cluster (if applicable)	Qualifying criteria	Non-technical Description
30	FOOTEXAM_DAT	FOOTEXAM_COD	Latest <= RPED AND >= APSD	<i>The date of the latest foot examination (neuropathy testing or peripheral pulses) recorded from the audit period start date up to and including the reporting period end date.</i>
31	FOOTEXAM_COD	FOOTEXAM_COD	Latest <= RPED AND >= APSD	<i>The latest 'foot examination code' recorded on the same date as the latest recorded foot examination (i.e. on the date returned in the FOOTEXAM_DAT field).</i>
32	NDASMOK_DAT	NDASMOK_COD	Latest <= RPED	<i>The date of the latest smoking status recorded up to and including the reporting period end date.</i>
33	NDASMOK_COD	NDASMOK_COD	Latest <= RPED	<i>The latest 'smoking status code' recorded on the same date as the latest recorded smoking status (i.e. on the date returned in the NDASMOK_DAT field).</i>
34	NDASEPREV_DAT	NDASEPREV_COD	Latest <= RPED	<i>The date of the latest diabetes education review recorded up to and including the reporting period end date.</i>
35	NDASEPREV_COD	NDASEPREV_COD	Latest <= RPED	<i>The latest 'diabetes education review code' recorded on the same date as the latest recorded diabetes education review (i.e. on the date returned in the NDASEPREV_DAT field).</i>
36	NDASEPOFF_DAT	NDASEPOFF_COD	Latest <= RPED	<i>The date of the latest referral to a diabetes structured education programme recorded where the event occurred up to and including the reporting period end date.</i>
37	NDASEPOFF_COD	NDASEPOFF_COD	Latest <= RPED	<i>The latest 'referral to diabetes structured education programme code' recorded on the same date as the latest referral to diabetes structured education programme (i.e. on the date returned in the NDASEPOFF_DAT field).</i>
38	NDASEPATT_DAT	NDASEPATT_COD	Latest <= RPED	<i>The date of the latest attendance or completion of a diabetes structured education programme recorded up to and including the reporting period end date.</i>

Field number	Field name	Code cluster (if applicable)	Qualifying criteria	Non-technical Description
39	NDASEPATT_COD	NDASEPATT_COD	Latest <= RPED	<i>The latest 'attendance or completion of a diabetes structured education programme code' recorded on the same date as the latest attendance or completion of a diabetes structured education programme (i.e. on the date returned in the NDASEPATT_DAT field).</i>
40	CHD_DAT	CHD_COD	Earliest <= RPED	<i>The date of the earliest chronic heart disease diagnosis up to and including the reporting period end date.</i>
41	CHD_COD	CHD_COD	Earliest <= RPED	<i>The earliest 'chronic heart disease diagnosis code' recorded on the same date as the earliest chronic heart disease diagnosis (i.e. on the date returned in the CHD_DAT field).</i>
42	LD_DAT	LD_COD	Latest <= RPED	<i>The date of the latest learning disability diagnosis recorded up to and including the reporting period end date.</i>
43	LD_COD	LD_COD	Latest <= RPED	<i>The latest 'learning disability diagnosis code' recorded on the same date as the latest learning disability diagnosis (i.e. on the date returned in the LD_DAT field).</i>
44	MH_DAT	MH_COD	Latest <= RPED	<i>The date of the latest mental health diagnosis recorded up to and including the reporting period end date.</i>
45	MH_COD	MH_COD	Latest <= RPED	<i>The latest 'mental health diagnosis code' recorded on the same date as the latest mental health diagnosis (i.e. on the date returned in the MH_DAT field).</i>
46	{IFCCHBAM_DAT}	IFCCHBAM_COD	ALL >= APSD AND <= RPED	<i>All dates associated with the HbA1c recordings from the audit period start date up to and including the reporting period end date.</i>
47	{IFCCHBAM_COD}	IFCCHBAM_COD	ALL >= APSD AND <= RPED	<i>All HbA1c codes recorded from the audit period start date up to and including the reporting period end date (i.e. All codes on the dates returned in the {IFCCHBAM_DAT} field).</i>

Field number	Field name	Code cluster (if applicable)	Qualifying criteria	Non-technical Description
48	{IFCCHBAM_VAL1}	IFCCHBAM_COD	ALL >= APSD AND <= RPED	All HbA1c value 1 recorded from the audit period start date up to and including the reporting period end date (i.e. All values on the dates returned in the {IFCCHBAM_DAT} field).
49	{IFCCHBAM_VAL2}	IFCCHBAM_COD	ALL >= APSD AND <= RPED	All HbA1c value 2 recorded from the audit period start date up to and including the reporting period end date (i.e. All values on the dates returned in the {IFCCHBAM_DAT} field).
50	{NDABP_DAT}	NDABP_COD	ALL >= APSD AND <= RPED	All dates associated with the blood pressure recordings from the audit period start date up to and including the reporting period end date.
51	{NDABP_COD}	NDABP_COD	ALL >= APSD AND <= RPED	All blood pressure codes recorded from the audit period start date up to and including the reporting period end date (i.e. All codes on the dates returned in the {NDABP_DAT} field).
52	{NDABP_VAL1}	NDABP_COD	ALL >= APSD AND <= RPED	All blood pressure value 1 recorded from the audit period start date up to and including the reporting period end date (i.e. All values on the dates returned in the {NDABP_DAT} field).
53	{NDABP_VAL2}	NDABP_COD	ALL >= APSD AND <= RPED	All blood pressure value 2 recorded from the audit period start date up to and including the reporting period end date (i.e. All values on the dates returned in the {NDABP_DAT} field).
54	{NDABMI_DAT}	NDABMI_COD	ALL >= APSD AND <= RPED	All dates associated with the BMI recordings from the audit period start date up to and including the reporting period end date.
55	{NDABMI_COD}	NDABMI_COD	ALL >= APSD AND <= RPED	All BMI recording codes from the audit period start date up to and including the reporting period end date (i.e. All codes on the dates returned in the {NDABMI_DAT} field).

Field number	Field name	Code cluster (if applicable)	Qualifying criteria	Non-technical Description
56	{NDABMI_VAL1}	NDABMI_COD	ALL >= APSD AND <= RPED	All BMI value 1 recorded from the audit period start date up to and including the reporting period end date (i.e. All values on the dates returned in the {NDABMI_DAT} field).
57	{NDABMI_VAL2}	NDABMI_COD	ALL >= APSD AND <= RPED	All BMI value 2 recorded from the audit period start date up to and including the reporting period end date (i.e. All values on the dates returned in the {NDABMI_DAT} field).
58	{HEIGHT_DAT}	HEIGHT_COD	ALL >= APSD AND <= RPED	All dates associated with the height recordings from the audit period start date up to and including the reporting period end date.
59	{HEIGHT_COD}	HEIGHT_COD	ALL >= APSD AND <= RPED	All height recording codes from the audit period start date up to and including the reporting period end date (i.e. All codes on the dates returned in the {HEIGHT_DAT} field).
60	{HEIGHT_VAL1}	HEIGHT_COD	ALL >= APSD AND <= RPED	All height value 1 recorded from the audit period start date up to and including the reporting period end date (i.e. All values on the dates returned in the {HEIGHT_DAT} field).
61	{HEIGHT_VAL2}	HEIGHT_COD	ALL >= APSD AND <= RPED	All height value 2 recorded from the audit period start date up to and including the reporting period end date (i.e. All values on the dates returned in the {HEIGHT_DAT} field).
62	{WEIGHT_DAT}	WEIGHT_COD	ALL >= APSD AND <= RPED	All dates associated with the weight recordings from the audit period start date up to and including the reporting period end date.
63	{WEIGHT_COD}	WEIGHT_COD	ALL >= APSD AND <= RPED	All weight recording codes from the audit period start date up to and including the reporting period end date (i.e. All codes on the dates returned in the {WEIGHT_DAT} field).

Field number	Field name	Code cluster (if applicable)	Qualifying criteria	Non-technical Description
64	{WEIGHT_VAL1}	WEIGHT_COD	ALL >= APSD AND <= RPED	All weight value 1 recorded from the audit period start date up to and including the reporting period end date (i.e. All values on the dates returned in the {WEIGHT_DAT} field).
65	{WEIGHT_VAL2}	WEIGHT_COD	ALL >= APSD AND <= RPED	All weight value 2 recorded from the audit period start date up to and including the reporting period end date (i.e. All values on the dates returned in the {WEIGHT_DAT} field).
66	{NDACHOLEST_DAT}	NDACHOLEST_COD	ALL >= APSD AND <= RPED	All dates associated with cholesterol recordings from the audit period start date up to and including the reporting period end date.
67	{NDACHOLEST_COD}	NDACHOLEST_COD	ALL >= APSD AND <= RPED	All cholesterol recording codes from the audit period start date up to and including the reporting period end date (i.e. All codes on the dates returned in the {NDACHOLEST_DAT} field).
68	{NDACHOLEST_VAL1}	NDACHOLEST_COD	ALL >= APSD AND <= RPED	All cholesterol value 1 recorded from the audit period start date up to and including the reporting period end date (i.e. All values on the dates returned in the {NDACHOLEST_DAT} field).
69	{NDACHOLEST_VAL2}	NDACHOLEST_COD	ALL >= APSD AND <= RPED	All cholesterol value 2 recorded from the audit period start date up to and including the reporting period end date (i.e. All values on the dates returned in the {NDACHOLEST_DAT} field).
70	{IGT_DAT}	IGT_COD	ALL <= RPED	All dates associated with the impaired glucose tolerance recorded up to and including the reporting period end date.
71	{FASPLASGLUC_DAT}	FASPLASGLUC_COD	ALL >= APSD AND <= RPED	All dates associated with the fasting plasma glucose recordings from the audit period start date up to and including the reporting period end date.

Field number	Field name	Code cluster (if applicable)	Qualifying criteria	Non-technical Description
72	{FASPLASGLUC_COD}	FASPLASGLUC_COD	ALL >= APSD AND <= RPED	All fasting plasma glucose recording codes from the audit period start date up to and including the reporting period end date (i.e. All codes on the dates returned in the {FASPLASGLUC_DAT} field).
73	{FASPLASGLUC_VAL1}	FASPLASGLUC_COD	ALL >= APSD AND <= RPED	All fasting plasma glucose value 1 recorded from the audit period start date up to and including the reporting period end date (i.e. All values on the dates returned in the {FASPLASGLUC_DAT} field).
74	{FASPLASGLUC_VAL2}	FASPLASGLUC_COD	ALL >= APSD AND <= RPED	All fasting plasma glucose value 2 recorded from the audit period start date up to and including the reporting period end date (i.e. All values on the dates returned in the {FASPLASGLUC_DAT} field).
75	{NDH_DAT}	NDH_COD	ALL <= RPED	All dates associated with Non-Diabetic or Induced Hyperglycaemia recorded up to and including the reporting period end date.
76	{NDAPRD_DAT}	NDAPRD_COD	ALL <= RPED	All dates associated with pre-diabetes diagnosis recorded up to and including the reporting period end date.
77	NDAPRDC_DAT	n/a	Earliest of (IGT_DAT , NDH_DAT , NDAPRD_DAT)	The earliest date that the patient was first diagnosed with pre-diabetes up to and including the reporting period end date.
78	NDAPRDC_ALL	Combination of IGT_COD , NDH_COD , NDAPRD_COD	The corresponding IGT_COD or NDH_COD or NDAPRD_COD recorded on NDAPRDC_DAT	The earliest diagnosis code of any IGT_COD , NHD_COD or NDAPRD_COD returned on the NDAPRDC_DAT .
79	NDAPRDCLAT_DAT	n/a	Latest of (IGT_DAT , NDH_DAT , NDAPRD_DAT)	The latest date that the patient was diagnosed with pre-diabetes up to and including the reporting period end date.

Field number	Field name	Code cluster (if applicable)	Qualifying criteria	Non-technical Description
80	NDAPRDCLAT_ALL	Combination of IGT_COD , NDH_COD or NDAPRD_COD	The corresponding IGT_COD or NDH_COD or NDAPRD_COD recorded on NDAPRDCLAT_DAT	<i>The latest diagnosis code of any IGT_COD, NHD_COD or NDAPRD_COD returned on the NDAPRDC_DAT.</i>
81	DPPOFF_DAT	DPPOFF_COD	Latest <= RPED	<i>The date of the latest offer of a pre-diabetes intervention recorded up to and including the reporting period end date.</i>
82	DPPOFF_COD	DPPOFF_COD	Latest <= RPED	<i>The latest 'offer of a pre-diabetes intervention code' recorded on the same date as the latest offer of a pre-diabetes intervention (i.e. on the date returned in the DPPOFF_DAT field).</i>
83	DPPATT_DAT	DPPATT_COD	Latest <= RPED	<i>The date of the latest attendance of a pre-diabetes intervention recorded up to and including the reporting period end date.</i>
84	DPPATT_COD	DPPATT_COD	Latest <= RPED	<i>The latest 'attendance of a pre-diabetes intervention code' recorded on the same date as the latest attendance of a pre-diabetes intervention (i.e. on the date returned in the DPPATT_DAT field).</i>
85	DPPCOMP_DAT	DPPCOMP_COD	Latest <= RPED	<i>The date of the latest completion of a pre-diabetes intervention recorded up to and including the reporting period end date.</i>
86	DPPCOMP_COD	DPPCOMP_COD	Latest <= RPED	<i>The latest 'completion of a pre-diabetes intervention code' recorded on the same date as the latest completion of a pre-diabetes intervention (i.e. on the date returned in the DPPCOMP_DAT field).</i>
87	{DMTRTATRISK1_DAT}	DMTRTATRISK1_COD	ALL >= APSD AND <= RPED	<i>All dates associated with the diabetes prescriptions from the audit period start date up to and including the reporting period end date.</i>
88	{DMTRTATRISK1_COD}	DMTRTATRISK1_COD	ALL >= APSD AND <= RPED	<i>All diabetes prescriptions codes from the audit period start date up to and including the reporting period end date (i.e. All codes on the dates returned in the DMTRTATRISK1_DAT field).</i>

Field number	Field name	Code cluster (if applicable)	Qualifying criteria	Non-technical Description
89	{DMTRTATRISK1_PRE1}	DMTRTATRISK1_COD	ALL >= APSD AND <= RPED	All diabetes prescription value 1 from the audit period start date up to and including the reporting period end date (i.e. All prescriptions on the dates returned in the {DMTRTATRISK1_DAT} field).
90	{DMTRTATRISK1_PRE2}	DMTRTATRISK1_COD	ALL >= APSD AND <= RPED	All diabetes prescription value 2 from the audit period start date up to and including the reporting period end date (i.e. All prescriptions on the dates returned in the {DMTRTATRISK1_DAT} field).
91	{METFORMIN_DAT}	METFORMIN_COD	ALL >= APSD AND <= RPED	All dates associated with metformin prescriptions from the audit period start date up to and including the reporting period end date.
92	{METFORMIN_COD}	METFORMIN_COD	ALL >= APSD AND <= RPED	All metformin prescriptions codes from the audit period start date up to and including the reporting period end date (i.e. All codes on the dates returned in the {METFORMIN_DAT} field).
93	{METFORMIN_PRE1}	METFORMIN_COD	ALL >= APSD AND <= RPED	All metformin prescription value 1 from the audit period start date up to and including the reporting period end date (i.e. All prescriptions on the dates returned in the {METFORMIN_DAT} field).
94	{METFORMIN_PRE2}	METFORMIN_COD	ALL >= APSD AND <= RPED	All metformin prescription value 2 from the audit period start date up to and including the reporting period end date (i.e. All prescriptions on the dates returned in the {METFORMIN_DAT} field).
95	{STAT_DAT}	STAT_COD	ALL >= APSD AND <= RPED	All dates associated with statin prescriptions from the audit period start date up to and including the reporting period end date.
96	{STAT_COD}	STAT_COD	ALL >= APSD AND <= RPED	All statin prescriptions codes from the audit period start date up to and including the reporting period end date (i.e. All codes on the dates returned in the {STAT_DAT} field).

Field number	Field name	Code cluster (if applicable)	Qualifying criteria	Non-technical Description
97	{STAT_PRE1}	STAT_COD	ALL >= APSD AND <= RPED	<i>All statin prescription value 1 from the audit period start date up to and including the reporting period end date (i.e. All prescriptions on the dates returned in the {STAT_DAT} field).</i>
98	{STAT_PRE2}	STAT_COD	ALL >= APSD AND <= RPED	<i>All statin prescription value 2 from the audit period start date up to and including the reporting period end date (i.e. All prescriptions on the dates returned in the {STAT_DAT} field).</i>
99	{ANTIHYPER_DAT}	ANTIHYPER_COD	ALL >= APSD AND <= RPED	<i>All dates associated with anti-hypertensive prescriptions from the audit period start date up to and including the reporting period end date.</i>
100	{ANTIHYPER_COD}	ANTIHYPER_COD	ALL >= APSD AND <= RPED	<i>All anti-hypertensive prescriptions codes from the audit period start date up to and including the reporting period end date (i.e. All codes on the dates returned in the {ANTIHYPER_DAT} field).</i>
101	{ANTIHYPER_PRE1}	ANTIHYPER_COD	ALL >= APSD AND <= RPED	<i>All anti-hypertensive prescription value 1 from the audit period start date up to and including the reporting period end date (i.e. All prescriptions on the dates returned in the {ANTIHYPER_DAT} field).</i>
102	{ANTIHYPER_PRE2}	ANTIHYPER_COD	ALL >= APSD AND <= RPED	<i>All anti-hypertensive prescription value 2 from the audit period start date up to and including the reporting period end date (i.e. All prescriptions on the dates returned in the {ANTIHYPER_DAT} field).</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)

N/A - there are no payment counts for this service.

4.3. Management Information Count(s)

N/A - there are no management information counts for this service.

4.4. Patient-level Extract(s)

Extract ID	Description	Applied to population:
NDA001	National Diabetes Audit primary care extraction specification 2017/18 for patients with diabetes mellitus.	NDACC001

For every data item listed in the journals table below, bring back all the following fields where present.

<u>Item Number</u>	<u>Table name</u>	<u>Data item</u>	<u>Description</u>
1	Patients Table	PatientTable.Date of Birth	Patient's date of birth.
2	Patients Table	PatientTable.NHS Number	Patient's NHS number.
3	Patients Table	PatientTable.Postcode	Postcode of patient's CURRENT address only.
4	Patients Table	PatientTable.Practice	The national practice code for the practice.
5	Patients Table	PatientTable.Sex	Patient's gender.
6	Journals Table	NDAETHNICITY_DAT NDAETHNICITY_COD	See Non-technical Description column in Clinical Data Extraction Criteria table.
7	Journals Table	NDADM_DAT NDADM_COD	See Non-technical Description column in Clinical Data Extraction Criteria table.
8	Journals Table	NDADMLAT_DAT NDADMLAT_COD	See Non-technical Description column in Clinical Data Extraction Criteria table.

<i>Item Number</i>	<i>Table name</i>	<i>Data item</i>	<i>Description</i>
9	Journals Table	CRE_DAT CRE_COD CRE_VAL1 CRE_VAL2	See Non-technical Description column in Clinical Data Extraction Criteria table.
10	Journals Table	NDAALB_DAT NDAALB_COD NDAALB_VAL1 NDAALB_VAL2	See Non-technical Description column in Clinical Data Extraction Criteria table.
11	Journals Table	NDAPRT_DAT NDAPRT_COD	See Non-technical Description column in Clinical Data Extraction Criteria table.
12	Journals Table	RETSCHEN_DAT RETSCHEN_COD	See Non-technical Description column in Clinical Data Extraction Criteria table.
13	Journals Table	FOOTEXAM_DAT FOOTEXAM_COD	See Non-technical Description column in Clinical Data Extraction Criteria table.
14	Journals Table	NDASMOK_DAT NDASMOK_COD	See Non-technical Description column in Clinical Data Extraction Criteria table.
15	Journals Table	NDASEPREV_DAT NDASEPREV_COD	See Non-technical Description column in Clinical Data Extraction Criteria table.
16	Journals Table	NDASEPOFF_DAT NDASEPOFF_COD	See Non-technical Description column in Clinical Data Extraction Criteria table.

<i>Item Number</i>	<i>Table name</i>	<i>Data item</i>	<i>Description</i>
17	Journals Table	NDASEPATT_DAT NDASEPATT_COD	See Non-technical Description column in Clinical Data Extraction Criteria table.
18	Journals Table	CHD_DAT CHD_COD	See Non-technical Description column in Clinical Data Extraction Criteria table.
19	Journals Table	LD_DAT LD_COD	See Non-technical Description column in Clinical Data Extraction Criteria table.
20	Journals Table	MH_DAT MH_COD	See Non-technical Description column in Clinical Data Extraction Criteria table.
21	Journals Table	{IFCCHBAM_DAT} {IFCCHBAM_COD} {IFCCHBAM_VAL1} {IFCCHBAM_VAL2}	See Non-technical Description column in Clinical Data Extraction Criteria table.
22	Journals Table	{NDABP_DAT} {NDABP_COD} {NDABP_VAL1} {NDABP_VAL2}	See Non-technical Description column in Clinical Data Extraction Criteria table.
23	Journals Table	{NDABMI_DAT} {NDABMI_COD} {NDABMI_VAL1} {NDABMI_VAL2}	See Non-technical Description column in Clinical Data Extraction Criteria table.

<i>Item Number</i>	<i>Table name</i>	<i>Data item</i>	<i>Description</i>
24	Journals Table	{HEIGHT_DAT} {HEIGHT_COD} {HEIGHT_VAL1} {HEIGHT_VAL2}	See Non-technical Description column in Clinical Data Extraction Criteria table.
25	Journals Table	{WEIGHT_DAT} {WEIGHT_COD} {WEIGHT_VAL1} {WEIGHT_VAL2}	See Non-technical Description column in Clinical Data Extraction Criteria table.
26	Journals Table	{NDACHOLEST_DAT} {NDACHOLEST_COD} {NDACHOLEST_VAL1} {NDACHOLEST_VAL2}	See Non-technical Description column in Clinical Data Extraction Criteria table.
27	Journals Table	{DMTRTATRISK1_DAT} {DMTRTATRISK1_COD} {DMTRTATRISK1_PRE1} {DMTRTATRISK1_PRE2}	See Non-technical Description column in Clinical Data Extraction Criteria table.

<i>Item Number</i>	<i>Table name</i>	<i>Data item</i>	<i>Description</i>
28	Journals Table	{STAT_DAT} {STAT_COD} {STAT_PRE1} {STAT_PRE2}	See Non-technical Description column in Clinical Data Extraction Criteria table.
29	Journals Table	{ANTIHYD_DAT} {ANTIHYD_COD} {ANTIHYD_PRE1} {ANTIHYD_PRE2}	See Non-technical Description column in Clinical Data Extraction Criteria table.

Extract ID	Description	Applied to population:
NDA002	National Diabetes Audit primary care extraction specification 2017/18 for patients with non-diabetic hyperglycaemia.	NDACC002

For every data item listed in the journals table below, bring back all the following fields where present.

<i>Item Number</i>	<i>Table name</i>	<i>Data item</i>	<i>Description</i>
1	Patients Table	PatientTable.Date of Birth	Patient's date of birth.
2	Patients Table	PatientTable.NHS Number	Patient's NHS number
3	Patients Table	PatientTable.Postcode	Postcode of patient's CURRENT address only.
4	Patients Table	PatientTable.Practice	The national practice code for the practice.
5	Patients Table	PatientTable.Sex	Patient's gender.
6	Patients Table	NDAETHNICITY_DAT NDAETHNICITY_COD	See Non-technical Description column in Clinical Data Extraction Criteria table.
7	Journals Table	NDAPRDC_DAT NDAPRDC_ALL	See Non-technical Description column in Clinical Data Extraction Criteria table.
8	Journals Table	NDAPRDCLAT_DAT NDAPRDCLAT_ALL	See Non-technical Description column in Clinical Data Extraction Criteria table.
9	Journals Table	{FASPLASGLUC_DAT} {FASPLASGLUC_COD} {FASPLASGLUC_VAL1} {FASPLASGLUC_VAL2}	See Non-technical Description column in Clinical Data Extraction Criteria table.

<i>Item Number</i>	<i>Table name</i>	<i>Data item</i>	<i>Description</i>
10	Journals Table	NDASMOK_DAT NDASMOK_COD	See Non-technical Description column in Clinical Data Extraction Criteria table.
11	Journals Table	DPPOFF_DAT DPPOFF_COD	See Non-technical Description column in Clinical Data Extraction Criteria table.
12	Journals Table	DPPATT_DAT DPPATT_COD	See Non-technical Description column in Clinical Data Extraction Criteria table.
13	Journals Table	DPPCOMP_DAT DPPCOMP_COD	See Non-technical Description column in Clinical Data Extraction Criteria table.
14	Journals Table	CHD_DAT CHD_COD	See Non-technical Description column in Clinical Data Extraction Criteria table.
15	Journals Table	LD_DAT LD_COD	See Non-technical Description column in Clinical Data Extraction Criteria table.
16	Journals Table	MH_DAT MH_COD	See Non-technical Description column in Clinical Data Extraction Criteria table.
17	Journals Table	{IFCCHBAM_DAT} {IFCCHBAM_COD} {IFCCHBAM_VAL1} {IFCCHBAM_VAL2}	See Non-technical Description column in Clinical Data Extraction Criteria table.

<i>Item Number</i>	<i>Table name</i>	<i>Data item</i>	<i>Description</i>
18	Journals Table	{NDABP_DAT} {NDABP_COD} {NDABP_VAL1} {NDABP_VAL2}	See Non-technical Description column in Clinical Data Extraction Criteria table.
19	Journals Table	{NDABMI_DAT} {NDABMI_COD} {NDABMI_VAL1} {NDABMI_VAL2}	See Non-technical Description column in Clinical Data Extraction Criteria table.
20	Journals Table	{HEIGHT_DAT} {HEIGHT_COD} {HEIGHT_VAL1} {HEIGHT_VAL2}	See Non-technical Description column in Clinical Data Extraction Criteria table.
21	Journals Table	{WEIGHT_DAT} {WEIGHT_COD} {WEIGHT_VAL1} {WEIGHT_VAL2}	See Non-technical Description column in Clinical Data Extraction Criteria table.

<i>Item Number</i>	<i>Table name</i>	<i>Data item</i>	<i>Description</i>
22	Journals Table	{NDACHOLEST_DAT} {NDACHOLEST_COD} {NDACHOLEST_VAL1} {NDACHOLEST_VAL2}	See Non-technical Description column in Clinical Data Extraction Criteria table.
23	Journals Table	{METFORMIN_DAT} {METFORMIN_COD} {METFORMIN_PRE1} {METFORMIN_PRE2}	See Non-technical Description column in Clinical Data Extraction Criteria table.
24	Journals Table	{STAT_DAT} {STAT_COD} {STAT_PRE1} {STAT_PRE2}	See Non-technical Description column in Clinical Data Extraction Criteria table.

5. Appendix - Supporting data for NHS Digital SDS

Category	Database value
TRUD version	V23_0_0
Document version	1.2
Ruleset Database ID	NDA
Database Service ID	PLE
QSR Reference if applicable	QSR1718020