|  |  |
| --- | --- |
|  | All District Health Boards |
| DIABETES ANNUAL REVIEW -DIAbETES SERVICES -SPECIALIST MEDICAL AND SURGICAL SERVICES –**Tier LEVEL THREE****Service Specification** |
| Status: | **OPTIONAL 🗹** |
| Review History | Date |
| Published on NSFL | October 2011 |
| Working Party Review of: Free Annual Review for People with Diabetes (Dec 2003) Amendments: removed introduction, edited content, updated Service Definition, Access, Key Inputs, Purchase Unit Code table and Additional Reporting Requirements. | August 2011 |
| Amendments: removed references to “Free” in title and purchase unit code, changed status of the service specification from Mandatory, added reference to the Diabetes Care Improvement Packages. | April 2013 |
| Consideration for next Service Specification Review | **within five years** |

**Note:** Contact the Service Specification Programme Manager, National Health Board Business Unit, Ministry of Health to discuss the process and guidance available in developing new or updating and revising existing service specifications. Web site address Nationwide Service Framework Library: http://www.nsfl.health.govt.nz/

DIABETES ANNUAL REVIEW -

**DIABETES SERVICE –**

**SPECIALIST MEDICAL AND SURGICAL SERVICES -**

**TIER LEVEL THREE**

**SERVICE SPECIFICATION**

**COGP0006**

The tier three service specification for Diabetes Annual Review (the Service) must be used in conjunction with the tier one Specialist Medical and Surgical Services service specification and the tier two Diabetes Services service specification.

If this service is delivered as part of component of the Diabetes Care Improvement Package (COGP0051) then the COGP0006 purchase unit code must be used for counting purposes.

# 1. Service Definition

This service specification describes the Annual Review and defines the information to be collected from the Annual Review, specifies how that information will be managed and to which organisations it will be reported. The information collected during the Annual Review is provided in Appendix A.

The purpose of the Service is to:

* provide an opportunity for a diabetes-specific review and management plan for individuals with diabetes (the Individual), supported by electronic collection of clinical data to encourage the optimal evidence-based management of patients with diabetes[[1]](#footnote-1)
* encourage self-management[[2]](#footnote-2) for Individuals through the use of a care plan, with the support of their families and whānau (where desired), and in partnership with health professionals and community resources[[3]](#footnote-3)
* General Practice is responsible for ensuring that the Individual has had their Annual Review completed and that the reporting data has been transferred to the Primary Health Organisation (PHO) / District Health Board (DHB).

The Individual may receive the majority of their care in the primary health care setting and/ or as appropriate, some care / treatment in a DHB’s specialist diabetes service.Note that some Individuals may choose not to participate in the Annual Review.

The Annual Review:

* ensures that each Individual (who is enrolled with a PHO) has received during the preceding 12 months, all tests / examinations indicated by clinical guidelines
* systematically screens for the risk factors and complications of diabetes and cardiovascular disease
* promotes early detection and intervention, during the following 12 months
* coordinates:
	+ any indicated tests or examinations that have not been undertaken, to be completed within the recommended timeframe in the clinical guidelines
	+ and refers the Individual into specialist care or to other services (if required)
* ensures the Individual’s care plan is updated and sets goals for the Individual for the following 12 months
* provides information to the PHO to collate electronically
* undertakes a cardiovascular risk assessment annually for all at risk[[4]](#footnote-4) Individuals to assist them and their families to self-manage their disease. The risk assessment commences from the date of the Individual being diagnosed of diabetes and is undertaken at the time of the Annual Review.

**2. Exclusions**

People who do not have a confirmed clinical diagnosis of diabetes.

**2. Service Objectives**

The objectives of this Service are to:

* improve the quality of diabetes healthcare for the Individual with diabetes and their ability to self-manage their condition
* decrease the barriers for Individuals to accessing high quality care for Māori, Pacific people and other high risk groups.
* ensure high quality of diabetes services for the population through the collection of information in the diabetes register to support analysis to monitor, evaluate and improve the quality of diabetes services.
* collect and collate information in the diabetes register to ensure ongoing monitoring, evaluation and the subsequent improvement in the quality of diabetes healthcare services for populations across a variety of delivery settings.

**2.2 Māori Health**

Refer to the tier two Diabetes Services service specification.

**3. Service Users**

All Individuals who are eligible for public funding[[5]](#footnote-5) and who have a confirmed clinical diagnosis of diabetes.

**4. Access**

The Service will seek to address identified barriers to accessing diabetes services by facilitating transport or other support services as required. Service staff may accompany Individuals and their family and whānau to appointments with other services.

**4.1 Entry Criteria**

All Individuals with a confirmed diagnosis of diabetes who agree to participate in their Annual Review.

When an Individual moves / changes domicile the Service provider will refer the Individual, with a management plan to their new diabetes Annual Review Provider on request by the new medical practitioner. They will ensure, by the timeliness of referral and the information provided, that the Individual’s Annual Review ‘pattern’ and quality of care are maintained

* 1. **Exit Criteria**

Refer to the tier two Diabetes Services service specification.

**4.3 Time**

The Annual Review will ensure that:

* tests and examinations for risk factors and complications of diabetes and accompanying cardiovascular disease have been undertaken within the timeframes specified in clinical guidelines[[6]](#footnote-6) and
* an agreed care plan has been developed with the Individual for treatment and self-management for the coming 12 months.

**5. Service Components**

**5.1 Processes**

The role of the PHO primary care team (PHCT), including Māori Service Providers, is to undertake an Annual Review that includes the provision of, and coordination of tests and examinations for Individuals.

The PHCT is responsible for collecting the required Annual Review information. If an Annual Review is completed at an outpatient clinic located within a DHB (or the equivalent), then the information (including the minimum data set), is to be sent to the Individual’s General Practitioner, as agreed with the DHB.

The health professional completing the Annual Review will provide the Individual with advice on diabetes management, update their treatment plan, and counsel the Individual where appropriate, eg, about smoking cessation.

The aspects of the Service to be delivered at PHCT level are as follows:

**5.1.2 Annual Review**

Not all tests and examinations will be undertaken at the time of the Annual Review. The indicated tests and examinations need to have been undertaken within the timeframes indicated in the clinical guidelines 5, and for arrangements to be made for any outstanding tests to be completed. The results recorded in the dataset must be the most recent results and must be from tests / examinations undertaken within the timeframe(s) indicated in the clinical guidelines. The agreed minimum dataset (refer Appendix A) is sent to the PHO for analysis, reporting, monitoring and evaluation.

The Annual Review must include:

* information about the Service that is provided to the Individual 6 , to forward identifiable clinical information to their PHO, DHB (and possibly other service providers) for the purpose set out in this service specification
* a review of the Individual’s current achievement against their previous care plan
* undertaking a comprehensive assessment of the Individual including a review of current diabetes and cardiovascular status (Appendix A)
* ensuring that the Individual has been referred for retinopathy screening within recommended timeframes (as indicated in the *National Diabetes Retinal Screening Grading System and Referral Guidelines [2006])*
* ensuring that when the Individual has been referred to another service, as part of a comprehensive multi-disciplinary team approach, that the Individual receives care and support that best meets their diabetes-related needs. In this case, the health service should ensure, through the timeliness of referral and the information provided, that the individual’s Annual Review ‘pattern’ is maintained

the following must be considered during the Annual Review:

– adequate time should be allowed for explanations and discussion

– cultural needs of the Individuals will be recognised especially for Individuals whose first language is other than English.

**5.1.3 Care Plan**

Following the review of care received by the Individual during the previous 12 months, an updated care plan will be developed with the Individual to set their personal goals for the next 12 months for enhanced self-care, including their care and treatment.

The care plan is completed in a manner appropriate to the needs, skills, resources and priorities of the Individual that optimises the Individual’s ability to self-manage in order to gain good clinical outcomes. Copies of this care plan are to be provided to the Individual and recorded in their clinical notes as described in section 9.2.

The care plan will also include as appropriate:

* feedback on the Annual Review of test results to the Individual (and their family and whānau, if appropriate) that reflect the Individual’s diabetes management, eg, HbA1c blood test for blood sugar profiling
* updated prescriptions to reflect any treatment changes indicated by the Annual Review
* plans for referral to specialist services and / or other treatment providers eg, podiatry, dietary, renal, retinal or support services
* the provision of adequate information about diabetes and its treatment, including a list of any medication changes, if appropriate[[7]](#footnote-7)
* information on cardiovascular risk
* agreed, culturally appropriate self-management plan
* green prescriptions referral
* smoking status assessed using the ABC tool. If the person identifies as currently smoking, information is provided on cessation treatment options, including nicotine replacement therapy.
* **5.2 Settings**

Staff may work with patients, whānau, iwi, and other members of the community in private homes, marae, and other community settings as appropriate. The Service may be provided in an appropriate DHB setting / site or be provided through primary health care organisation (PHO) practices.

**5.3 Key Inputs**

An Annual Review of care received during the preceding 12 months for all Individuals will be provided by a General Practitioner, Registered Primary Health Care Nurse or Nurse Practitioner. Health professionals employed to implement the Service are regulated by the Health Practitioners Competence Assurance Act 2003.

In addition; staff employed to implement this Service should have access to clinical peer review (where necessary).

For other requirements for clinical and support health care personnel refer section 6.5 tier two Diabetes Services service specification.

1. **Service Linkages**

Refer to the tier two Diabetes Services service specification.

**7. Quality Requirements**

**7.1 General**

The Service must comply with the Provider Quality Standards described in the Operational Policy Framework or, as applicable, Crown Funding Agreement Variations, contracts or service level agreements.

**7.2 Effectiveness**

Where appropriate, and within a primary health care setting, an Individual’s family members deemed at high risk of developing type 2 diabetes should be entered onto a screening recall system with appointments at recall intervals as indicated by the NZGG guidelines for type 2 diabetes management[[8]](#footnote-8). They should also be offered risk reduction and health promotion interventions and information aimed at reducing their risk of developing diabetes or pre diabetes.

**8. Purchase Units and Reporting Requirements**

Purchase Units are defined in the joint DHB and Ministry’s Nationwide Service Framework Purchase Unit Data Dictionary. The following Purchase Unit applies to the Service.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Purchase Code**  | **PU Description** | **PU Definition** | **PU Measure**  | **PU Measure Definition** | **National Collections** |
| COGP0006 | Annual Diabetes Check Review  | Diabetes annual review check available to all individuals with a diagnosis of type 1 or type 2 or another specific type of diabetes (no copayment may be charged to the patient) | Attendance | Number of attendances to a clinic/department/ acute assessment unit or domiciliary. | Get Checked version 2. |

The PHOs use ‘Get Checked’ version 2 for their data collection.

**9.1 Additional Reporting Requirements**

|  |  |  |  |
| --- | --- | --- | --- |
| **Reporting by PHO** | **Reporting by DHB** | **Reporting to LDT, or equivalent service****Frequency**  | **Reporting to LDT, or equivalent service****Date** |
| * Primary Health Care (PHC) practices to Primary Health organisation (PHO) Monthly
* PHO to PHC practices 6 Monthly
 | All reporting as detailed in the contract Appendix A and B. | Annually | by 20th July |

The Service provider will monitor and report, annually or as required, to the DHBs on the ongoing development and efficacy of the Services. This will include detailed assessments of Service delivery and the impact the Services have in achieving its goals, objectives, and functions.

The primary care Service Provider must be able to demonstrate how the analysis of the information contained in the diabetes database is used to encourage continuous quality improvement.

Note: PHOs may require aligned practices to provide more information than is defined in Appendix A. This specification defines the minimum information requirements.

**9.2 Primary Care Practice Reporting to Primary Health Organisation**

Monthly, primary health care practices are required to report the non-identifiable information electronically, (defined in the minimum dataset in Appendix A) to the PHO to which they are aligned, for each non-identifiable Individual that has received this Service. The information is to be stored electronically using the data definitions in appendix A, as agreed with the DHB.

If an Annual Review is done by a health professional at an outpatient clinic, located within a DHB (or the equivalent), then the information (including the minimum data set), is to be sent to the individual’s General Practitioner, as agreed with the DHB.

**Primary Health Organisation Reporting to Primary Care Practice**

PHOs must undertake an analysis of the information contained in the diabetes database as a part of quality improvement processes and provide feedback to their primary health care practices six-monthly. This analysis may be facilitated by the DHB.

**9.4 District Health Boards Information provided to the Local Diabetes Team or equivalent service**

The DHB must provide an aggregated non-identifiable dataset to Local Diabetes Team (or an equivalent service) annually, as locally agreed by the DHB, by the 20th July to enable them to analyse population health information and recommend strategies to improve the quality of diabetes services. The aggregated dataset is defined in Appendix B.

**APPENDIX A: MINIMUM DIABETES / CVD DATA SET[[9]](#footnote-9)**

These items should be recorded in the Primary Health Organisation (PHO) database

## 1. Provider Details Type Element

### 1.1 Provider Identifier

|  |  |
| --- | --- |
| **Definition:** | Code for provider (GP or Nurse) doing annual check. Initially the Registration number for the GP or nurse.  |
| **Requirement:** | Required |

### 1.2 Provider Identifier Type

|  |  |
| --- | --- |
| **Definition:** | The Identifier Type links the Provider Identifier to the specific register or numbering system that an organisation uses to identify its members. An organisation may have a number of registers and each is required to have a unique Identifier Type. It is the register from which the person identifier number is allocated. |
| **Requirement:** | Required |

### 1.3 NameTitle

|  |  |
| --- | --- |
| **Definition:** | Title is an honorific form of address preceding a name, used when addressing a person. This may include Mr, Mrs, Miss, Dr, Professor etc.  |
| **Requirement:** | Optional |

### 1.4 GivenName

|  |  |
| --- | --- |
| **Definition:** | The provider’s GIVEN identifying name. |
| **Requirement:** | Required |

### 1.5 MiddleNames

|  |  |
| --- | --- |
| **Definition:** | The provider’s second and further given names or initials thereof. |
| **Requirement:** | Optional |

### 1.6 Surname

|  |  |
| --- | --- |
| **Definition:** | The provider’s Family Name as distinguished from her/his given and second and subsequent name(s). |
| **Requirement:** | Required |

### 1.7 Locum

|  |  |
| --- | --- |
| **Definition:** | Is the Provider a locum? |
| **Requirement:** | Optional |

## 2. Patient Identification Type Element

### 2.1 Patient External ID

|  |  |
| --- | --- |
| **Definition:** | This must be a valid NZHIS HCU number (NHI) |
| **Requirement:** | Required |

### 2.2 Surname

|  |  |
| --- | --- |
| **Definition:** | The patient’s family name as distinguished from her/his given and second and subsequent names. |
| **Requirement:** | Required |

### 2.3 Given Name

|  |  |
| --- | --- |
| **Definition:** | The patient’s first GIVEN identifying name. |
| **Requirement:** | Required |

### 2.4 Second Name or Initials

|  |  |
| --- | --- |
| **Definition:** | The patient’s second and further given names or initials thereof. |
| **Requirement:** | Optional |

### 2.5 Date of Birth

|  |  |
| --- | --- |
| **Definition:** | Used to confirm ID, and calculate age |
| **Requirement:** | Required |

### 2.6 Gender

|  |  |
| --- | --- |
| **Definition:** | Required for CVD risk |
| **Requirement:** | Required |
| **Verification rules:** | "F" = Female"M" = Male"U" = Unknown/other |

### 2.7 PHO Registration Status

|  |  |
| --- | --- |
| **Definition:** | Patient's current enrolment status with the PHO at the time of the review. |
| **Requirement:** | Required |
| **Verification rules:** | "E" = Enrolled"R" =Registered"C" =Casual |

### 2.8 Permanent Address Line 1

|  |  |
| --- | --- |
| **Definition:** | First line of the patient’s address |
| **Requirement:** | Optional |

### 2.9 Permanent Address Line 2

|  |  |
| --- | --- |
| **Definition:** | Second line of the patient’s address |
| **Requirement:** | Optional |

### 2.10 Permanent Address Suburb

|  |  |
| --- | --- |
| **Definition:** | Suburb of the Patient’s address |
| **Requirement:** | Optional |

### 2.11 Permanent Address City

|  |  |
| --- | --- |
| **Definition:** | City of the Patient’s address |
| **Requirement:** | Optional |

### 2.12 Permanent Address Post Code

|  |  |
| --- | --- |
| **Definition:** | The numeric descriptor for a postal delivery area, aligned with the locality, suburb or place for the address. |
| **Requirement:** | Optional |

### 2.13 Permanent Address Country

|  |  |
| --- | --- |
| **Definition:** | Country of the Patient’s address |
| **Requirement** | If blank, New Zealand will be assumed value |

### 2.14 Contact Phone

|  |  |
| --- | --- |
| **Definition:** | Area code and phone number |
| **Requirement:** | Optional |

### 2.15 Prioritised Ethnicity

|  |  |
| --- | --- |
| **Definition:** | Use PMS systems for recording ethnicity. If only one ethnicity code is provided it should be prioritised ethnicity. Ethnicity must be provided to 2 digits, with 5 digit ethnicity recorded only if already implemented in the PMS system. |
| **Verification rules:** | 11=New Zealand European/Pakeha12=Other European21=New Zealand Maori31=Samoan32=Cook Island Maori33=Tongan34=Niuean35=Tokelauan36=Fijian37=Other Pacific Islands (not listed)30=Pacific Island not further defined43=Indian43112=Fijian Indian441=Sri Lankan44414=Pakistani44412=Bangladeshi44411=Afghani44413=Nepalese44415=Tibetan42=Chinese442=Japanese443=Korean41=Southeast Asian40=Asian not further defined51=Middle Eastern52=Latin American / Hispanic53=African54=Other10=European Not Further Defined44=Other Asian (Code 44)444=Other Asian (Code 444) |

### 2.16 Ethnicity2

|  |  |
| --- | --- |
| **Definition:** | As above. Only included if present in PMS data tables. |
| **Requirement:** | Optional |

### 2.17 Ethnicity3

|  |  |
| --- | --- |
| **Definition:** | As above |
| **Requirement:** | Optional |

### 2.18 Healthcare District

|  |  |
| --- | --- |
| **Definition:** | Code for patient’s District Health Board. PMS will only include this if already present in PMS data tables. Same format and content as in HL7 Standard Capitation-Based Funding Electronic Registers v3.09 |
| **Verification rules:** | NLD NorthlandNWA WaitemataCAK AucklandSAK Counties ManukauWKO WaikatoLKS LakesBOP Bay of PlentyTRW TairawhitiHWB Hawkes BayTKI TaranakiMWU MidCentralWNI WhanganuiCAP Capital and CoastHUT HuttWRP WairarapaNLM Nelson MarlboroughWCO West CoastCTY CanterburySCY South CanterburyOTA OtagoSLD Southland |

### 2.19 Geo Code

|  |  |
| --- | --- |
| **Definition:** | Geographical Code for the meshblock of the patient’s usual residential address, in the format defined by Statistics New Zealand and used by Primary Health Organisations. Nillable (*see Introduction, page 4*) if not already present in PMS data tables. |
| **Requirement:** | Required |

### 2.20 Deprivation Quintile

|  |  |
| --- | --- |
| **Definition:** | Deprivation Quintile for geocoded meshblock of patient at time of annual review. Nillable *(see Introducti*on*, page 4*) if not already present in PMS data tables. |
| **Requirement:** | Required |

### 2.21 PHO ID

|  |  |
| --- | --- |
| **Definition:** | PerOrg ID. |
| **Requirement:** | Optional |
| **Verification rules:** | 6 digit PerOrg numberIf patient is not enrolled at PHO themselves, please default the PHOID the practice is part of. |

### 2.22 Care Plus Enrolment Status

|  |  |
| --- | --- |
| **Definition:** | Records if patient is enrolled in “Care Plus” or not.  |
| **Requirement:** | Required |

### 2.23 Care Plus Enrolment Start Date

|  |  |
| --- | --- |
| **Definition:** | The date upon which a particular person becomes eligible for Care Plus.  |
| **Requirement:** | Required |

### 2.24 Care Plus Enrolment End Date

|  |  |
| --- | --- |
| **Definition:** | This is the expiry date of Care Plus eligibility for that particular person as submitted by the Provider.  |
| **Requirement:** | Required |

## 3. Patient Consent Type Element

### 3.1 Sequence Number

|  |  |
| --- | --- |
| **Definition:** | Number of repeats of this segment  |
| **Requirement:** | Required |

### 3.2 Sharing of Information Consent

|  |  |
| --- | --- |
| **Definition:** | Consent confirming the patient’s wish to be included in the service or have information forwarded as in data element 6.3 below (TypeOfConsent). |
| **Requirement:** | Optional |

### 3.3 Type of Consent

|  |  |
| --- | --- |
| **Definition:** | For people to request that a copy of their information is sent to another service or a mailing list. |
| **Requirement:** | Optional |

## 4. Clinical Data Cardiovascular Element

### 4.1 Date of Review

|  |  |
| --- | --- |
| **Definition:** | Default is day of data entry |
| **Requirement:** | Required |

### 4.2 Height

|  |  |
| --- | --- |
| **Definition:** | Height of patient without shoes (cm). |
| **Requirement:** | Required |

### 4.3 Weight

|  |  |
| --- | --- |
| **Definition:** | Weight of patient dressed without shoes (kg) |
| **Requirement:** | Required |

### 4.4 Waist Circumference

|  |  |
| --- | --- |
| **Definition:** | Taken midway between lower rib margin and the iliac creat to the nearest 1 cm |
| **Requirement:** | Optional |

### 4.5 Smoking History

|  |  |
| --- | --- |
| **Definition:** | Is the patient a smoker? |
| **Requirement:** | Required |
| **Verification rules:** | 0 = No - never (default)1 = No - quit over 12 months ago2 = No - quit within 12 months3 = Yes - up to 10 / day4 = Yes - 10-19 / day5 = Yes - 20+ / day |

### 4.6 Type Of Diabetes

|  |  |
| --- | --- |
| **Definition:** | Type of Diabetes |
| **Requirement:** | Required |
| **Verification rules:** | 0 = No diabetes1 = Type 12 = Type 2 (incl type 2 on insulin)3 = Type unknown4 = Gestational6 = Other known type7 = IGT / IFG9 = Diabetes status unknown |

### 4.7 History Of Acute Coronary Syndrome

|  |  |
| --- | --- |
| **Definition:** | Is there a history of acute coronary syndrome? |
| **Requirement:** | Optional |
| **Verification rules:** | 0 = No (default)1 = Yes |

### 4.8 Angina-AMI

|  |  |
| --- | --- |
| **Definition:** | Is there a history of Angina AMI? |
| **Requirement:** | Required |
| **Verification rules:** | 0 = No (default)1 = Yes |

### 4.9 PTCA-CABG

|  |  |
| --- | --- |
| **Definition:** | Is there a history of PTCA-CABG? |
| **Requirement:** | Required |
| **Verification rules:** | 0 = No (default)1 = Yes |

### 4.10 Stroke-TIA

|  |  |
| --- | --- |
| **Definition:** | Is there a history of Stroke-TIA? |
| **Requirement:** | Required |
| **Verification rules:** | 0 = No (default)1 = Yes |

### 4.11 Peripheral Vessel Disease

|  |  |
| --- | --- |
| **Definition:** | Is there a history of Peripheral Vessel Disease? |
| **Requirement:** | Required |
| **Verification rules:** | 0 = No (default)1 = Yes |

### 4.12 Family History of Early Cardiovascular Disease

|  |  |
| --- | --- |
| **Definition:** | Is there family history of ischaemic heart disease or ischaemic stroke occurring in first degree male relative before age 55 years or first degree female relative before age 65 years? |
| **Requirement:** | Required |
| **Verification rules:** | 0 = No (default)1 = Yes |

### 4.13 Genetic Lipid Disorder

|  |  |
| --- | --- |
| **Definition:** | Is there a history of genetic lipid disorder? (As defined in NZ Guidelines Group Guidelines) |
| **Requirement:** | Required |
| **Verification rules:** | 0 = None (default)1 = Familial hypercholestrolaemia2 = Familial defective apoB3 = Familial combined hypercholesterolaemia4 = Other genetic lipid disorder |

### 4.14 Established Renal Disease

|  |  |
| --- | --- |
| **Definition:** | Is there established renal disease? |
| **Requirement:** | Required |
| **Verification rules:** | 0 = No nephropathy1 = Confirmed microalbuminuria2 = Overt diabetic nephropathy3 = Non diabetic nephropathy9 = Not established / not known (default) |

### 4.15 Atrial Fibrillation

|  |  |
| --- | --- |
| **Definition:** | Is Atrial fibrillation present (should be confirmed by ECG). |
| **Requirement:** | Required |
| **Verification rules:** | 0 = No (default)1 = Yes |

### 4.16 Diagnosed Metabolic Syndrome

|  |  |
| --- | --- |
| **Definition:** | If diabetes type = 0, 7, or 9, is there diagnosed metabolic syndrome?  |
| **Requirement:** | Optional  |
| **Verification rules:** | 0 = No (default)1 = Yes |

### 4.17 Pregnant

|  |  |
| --- | --- |
| **Definition:** | If gender = "F", is the patient pregnant? |
| **Requirement:** | Conditional |
| **Verification rules:** | 0 = No (default)1 = Yes |

### 4.18 Stolic Blood Pressure Today

|  |  |
| --- | --- |
| **Definition:** | Today’s sitting Systolic Blood Pressure (mm Hg) |
| **Requirement:** | Required |

### 4.19 Diastolic Blood Pressure Today

|  |  |
| --- | --- |
| **Definition:** | Today’s sitting Diastolic Blood Pressure (mm Hg) |
| **Requirement:** | Required |

### 4.20 Systolic Blood Pressure Previous

|  |  |
| --- | --- |
| **Definition:** | Previous Systolic Blood Pressure Sitting (mm Hg) |
| **Requirement:** | Optional |

### 4.21 Diastolic Blood Pressure Previous

|  |  |
| --- | --- |
| **Definition:** | Previous Diastolic Blood Pressure Sitting (mm Hg) |
| **Requirement:** | Optional |

### 4.22 Fasting Glucose

|  |  |
| --- | --- |
| **Definition:** | Fasting Glucose reading. |
| **Requirement:** | Optional |

### 4.23 Fasting Glucose Date

|  |  |
| --- | --- |
| **Definition:** | Date of Fasting Glucose reading. |
| **Requirement:** | Optional |

### 4.24 Total Cholesterol

|  |  |
| --- | --- |
| **Definition:** | Cholesterol reading |
| **Requirement:** | Optional |

### 4.25 Total Cholesterol Date

|  |  |
| --- | --- |
| **Definition:** | Date of total cholesterol reading |
| **Requirement:** | Optional |

### 4.26 HDL Cholesterol

|  |  |
| --- | --- |
| **Definition:** | HDL Cholesterol reading |
| **Requirement:** | Optional |

### 4.27 Triglyceride

|  |  |
| --- | --- |
| **Definition:** | Triglyceride reading |
| **Requirement:** | Optional |

### 4.28 Serum Creatinine

|  |  |
| --- | --- |
| **Definition:** | Serum Creatinine reading expressed to nearest Umol/L.  |
| **Requirement:** | Optional |

### 4.29 Serum Creatinine Date

|  |  |
| --- | --- |
| **Definition:** | Date of Serum Creatinine reading. |
| **Requirement:** | Optional |

### 4.30 eGFR

|  |  |
| --- | --- |
| **Definition:** | Reported by labs with, and calculated from, serum creatinine (ml/min). If normal may be reported as ">60 ml/min". |
| **Requirement:** | Optional |

### 4.31 Urine Albumin To Creatine Ratio

|  |  |
| --- | --- |
| **Definition:** | Urine Albumin to Creatine ratio reading if clinically indicated - (mg/mmol Creatinine) |
| **Requirement:** | Optional |

### 4.32 Urine ACR Date

|  |  |
| --- | --- |
| **Definition:** | Date of Urine Albumin to Creatinine Ratio reading. |
| **Requirement:** | Optional |

### 4.33 Dipstick Test For Microalbuminuria

|  |  |
| --- | --- |
| **Definition:** | Dipstick test result for Microalbuminuria if clinically indicated and lab urine albumin:creatinine ratio not practicable |
| **Requirement:** | Optional |
| **Verification rules:** | 0=Negative1=Positive2=Not Done |

### 4.34 Albumin Protein Stick Test

|  |  |
| --- | --- |
| **Definition:** | Result of Albumin Protein Stick Test |
| **Requirement:** | Optional |
| **Verification rules:** | 0=Negative1=Positive2=Not Done3= Not Required9=Unknown |

### 4.35 Aspirin

|  |  |
| --- | --- |
| **Definition:** | Is patient being treated with Aspirin? |
| **Requirement:** | Required |
| **Verification rules:** | 0 = No (default)1 = Contra-indicated / not tolerated2 = Yes3 = Unknown |

### 4.36 Clopidogrel

|  |  |
| --- | --- |
| **Definition:** | Is patient being treated with Clopidogrel? |
| **Requirement:** | Optional |
| **Verification rules:** | 0 = No1 = Contra-indicated / not tolerated2 = Yes3 = Unknown |

### 4.37 Warfarin

|  |  |
| --- | --- |
| **Definition:** | Is patient being treated with Warfarin? |
| **Requirement:** | Optional |
| **Verification rules:** | 0 = No1 = Contra-indicated / not tolerated2 = Yes |

### 4.38 ACE Inhibitor

|  |  |
| --- | --- |
| **Definition:** | Is patient being treated with ACE Inhibitor? |
| **Requirement:** | Required |
| **Verification rules:** | 0 = No (default)1 = Contra-indicated / not tolerated2 = Yes |

### 4.39 A2 Receptor Antagonist

|  |  |
| --- | --- |
| **Definition:** | Is patient being treated with A2 Receptor or Antagonist? |
| **Requirement:** | Required |
| **Verification rules:** | 0 = No (default)1 = Contra-indicated / not tolerated2 = Yes |

### 4.40 BetaBlocker

|  |  |
| --- | --- |
| **Definition:** | Is patient being treated with betablocker? |
| **Requirement:** | Required |
| **Verification rules:** | 0 = No (default)1 = Contra-indicated / not tolerated2 = Yes |

### 4.41 Thiazide

|  |  |
| --- | --- |
| **Definition:** | Is patient being treated with Thiazide? |
| **Requirement:** | Required |
| **Verification rules:** | 0 = No (default)1 = Contra-indicated / not tolerated2 = Yes |

### 4.42 Calcium Antagonist

|  |  |
| --- | --- |
| **Definition:** | Is patient being treated with Calcium Antagonist? |
| **Requirement:** | Required |
| **Verification rules:** | 0 = No (default)1 = Contra-indicated / not tolerated2 = Yes |

### 4.43 Other Anti HypertensiveMedication

|  |  |
| --- | --- |
| **Definition:** | Is patient being treated with other Anti-hypertensive medication (other than ACEI, A2RA, beta blocker, thiazide, or calcium antagonist)? |
| **Requirement:** | Required |
| **Verification rules:** | 0 = No (default)1 = Contra-indicated / not tolerated2 = Yes |

### 4.44 Statin

|  |  |
| --- | --- |
| **Definition:** | Is patient being treated with Statin? |
| **Requirement:** | Required |
| **Verification rules:** | 0 = No (default)1 = Contra-indicated / not tolerated2 = Yes |

### 4.45 Fibrate

|  |  |
| --- | --- |
| **Definition:** | Is patient being treated with Fibrate? |
| **Requirement:** | Required |
| **Verification rules:** | 0 = No1 = Contra-indicated / not tolerated2 = Yes |

### 4.46 Other Lipid Lowering Medication.

|  |  |
| --- | --- |
| **Definition:** | Is patient being treated with other lipid lowering medication (other than statin or fibrate) |
| **Verification rules:** | 0 = No1 = Contra-indicated / not tolerated2 = Yes |

### 4.47 Nicotine Replacement Therapy

|  |  |
| --- | --- |
| **Definition:** | Is patient being treated with nicotine replacement therapy if smoking history >2 (ie current smoker)? |
| **Verification rules:** | 0 = Never Offered. (Default)1 = Offered but declined2 = Prescribed previously3 = Currently on NRT4 = Prescribed today5 = Contra-indicated / not tolerated |

### 4.48 Green Prescription

|  |  |
| --- | --- |
| **Definition:** | Has a Green Prescription been offered to patient? |
| **Requirement:** | Optional |
| **Verification rules:** | 0 = Never Offered. (Default) 1 = Offered but patient declined 2 = Prescribed today3 = Currently (<6 months) on Green Rx and more active than previously4 = Currently (<6 months) on Green Rx but NOT more active now5 = Prescribed > 6 months ago and more active now7 = Contra-indicated (eg medical risk, disability) |

## 5. Diabetes Clinical Data Element

### 5.1 Year Of Diabetes Diagnosis

|  |  |
| --- | --- |
| **Definition:** | Date as Year, if unknown = 9999 |
| **Requirement:** | Required |

### 5.2 HbA1c

|  |  |
| --- | --- |
| **Definition:** | HbA1c reading. Expressed to one decimal place (%). |
| **Requirement:** | Required |

### 5.3 HbA1c Date

|  |  |
| --- | --- |
| **Definition:** | Date of HbA1c reading. |
| **Requirement:** | Optional |

### 5.4 Date Last Retinal Screening

|  |  |
| --- | --- |
| **Definition:** | Date of last retinal examination or ophthalmologist review. If only year known then only use CCYY. |
| **Requirement:** | Required |

### 5.5 Retinal Screening Interval

|  |  |
| --- | --- |
| **Definition:** | Planned interval between retinal screening or ophthalmologist appointment (from last report). |
| **Requirement:** | Optinal  |
| **Verification rules:** | 1=Every 2 years (default)2=Every Year3=Every 6 months4=Other5= Not required (eg blind)6= Not known |

### 5.6 Eye Referral Today

|  |  |
| --- | --- |
| **Definition:** | Has patient been given an eye referral today? |
| **Requirement:** | Optional |
| **Verification rules:** | 0 = No1 = No - in screening programme2 = No - under ophthalmologist care 3 = Yes to retinal screening programme4 = Yes to ophthalmologist5 = Not required (eg blind) |

### 5.7 Visual Acuity Left

|  |  |
| --- | --- |
| **Definition:** | Corrected / pin-hole |
| **Requirement:** | Optional |

### 5.8 Visual Acuity Right

|  |  |
| --- | --- |
| **Definition:** | Corrected / pin-hole |
| **Requirement:** | Optional |

### 5.9 Retinopathy Worst Eye

|  |  |
| --- | --- |
| **Definition:** | Retinopathy result for Worst Eye. |
| **Requirement:** | Optional |
| **Verification rules:** | R0 = NoneR1 = Minimal *(< 5 microaneurysms or dot haemorrhages)*R2 = Mild *(> 4 microaneurysms and dot haemorrhages. Exudates > 2DD from centre of macula*)R3 = Moderate *(Any features of Mild. Blot or larger haemorrhages. Up to 1 Quadrant of Venous Beading*)R4 = Severe *(One or more of: definite IRMA, 2 quadrants or more of venous beading, or 4 quadrants of blot or larger haemorrhages*)R5 = Proliferative *(One or more of: Neovascularisation, Sub Hyaloid or Vitreous Haemorrhage, Traction Retinal Detachment or Retinal Gliosis*)RT = Stable treated retinopathyPO = Pregnant no retinopathy or macular diseaseP1 = Pregnant minimal retinopathy, no macular diseaseP2 = Pregnant more than minimal retinopathy and/or macular diseaseQI = Clarity / view inadequateNS = Never screenedU = Unknown |

### 5.10 Maculopathy Worst Eye

|  |  |
| --- | --- |
| **Definition:** | Maculopathy result for worst eye |
| **Requirement:** | Optional |
| **Verification rules:** | M0 = NoneM1 = MinimalM2 = Mild *(Microaneurysms and haemorrhages within 1DD*) M3 = Mild+ *(Exudates and or thickening within 2DD but > 1DD)*M4 = Moderate *(Exudates or retinal thickening within 1DD)*M5 = Severe *(Exudates or retinal thickening involving the foveola)*MT = Stable, treated macular diseaseQI = Clarity / view inadequateU = Unknown |

### 5.11 Feet Sensation

|  |  |
| --- | --- |
| **Definition:** | Microfilament or vibration perception threshold. May be on a linked sub-form for foot examination. |
| **Requirement:** | Optional |
| **Verification rules:** | 0=Not examined1=Normal2=Abnormal (Left)3=Abnormal (Right)4=Abnormal (BOTH) |

### 5.12 Feet Circulation

|  |  |
| --- | --- |
| **Definition:** | Diminished or absent pulses. May be on a linked sub-form for foot examination. |
| **Requirement:** | Optional |
| **Verification rules:** | 0=Not examined1=Normal2=Abnormal (Left)3=Abnormal (Right)4=Abnormal (BOTH) |

### 5.13 History Diabetic Foot Ulcer

|  |  |
| --- | --- |
| **Definition:** | Is there history of diabetic foot ulcer? |
| **Requirement:** | Optional |
| **Verification rules:** | 0=No1=Yes |

### 5.14 Current Diabetic Foot Ulcer

|  |  |
| --- | --- |
| **Definition:** | Is there a current diabetic foot ulcer? |
| **Requirement:** | Optional |
| **Verification rules:** | 0=No1=Yes |

### 5.15 Other Criteria For High Risk Foot

|  |  |
| --- | --- |
| **Definition:** | Is there other criteria for high risk foot? May be on a linked sub-form for foot examination. |
| **Requirement:** | Optional |
| **Verification rules:** | 0=No1=Yes |

### 5.16 Previous Diabetic Lower Limb Amputation

|  |  |
| --- | --- |
| **Definition:** | Is there a previous diabetic lower limb amputation? May be on a linked sub-form for foot examination. |
| **Requirement:** | Optional |
| **Verification rules:** | 0=No1=Yes - Left2=Yes - Right3=Yes – Bilateral |

### 5.17 Diet LifestyleTherapy Only

|  |  |
| --- | --- |
| **Definition:** | Is patient being treated with diet lifestyle therapy only? |
| **Requirement:** | Required |
| **Verification rules:** | 0 = Prescribed Rx (default)1 = Diet / lifestyle only |

### 5.18 Hypoglycaemic Attacks

|  |  |
| --- | --- |
| **Definition:** | Is there a history of hypoglycaemic attacks? |
| **Requirement:** | Optional |
| **Verification rules:** | 0=Never1=Less than 1 per month2=Less than 1 per week3=More than 1 per week |

### 5.19 Blood Glucose Self Monitoring

|  |  |
| --- | --- |
| **Definition:** | Is the patient self monitoring for blood glucose? |
| **Requirement:** | Optional |
| **Verification rules:** | 0 = Never1 = < 1 test / day2 = 1-2 tests / day 3 = 2-3 tests / day4 = 4+ tests / day |

### 5.20 Insulin

|  |  |
| --- | --- |
| **Definition:** | Is patient being treated with insulin? |
| **Requirement:** | Required |
| **Verification rules:** | 0 = No (default)1 = Nocturnal only2 = Once daily3 = Twice daily4 = Multiple injections5 = Insulin pump6 = Other insulin (eg prn) 9 = Not used (for decision support) |

### 5.21 Metformin

|  |  |
| --- | --- |
| **Definition:** | Is patient being treated with Metformin? |
| **Requirement:** | Required |
| **Verification rules:** | 0 = No (default)1 = Contra-indicated / not tolerated2 = On maximum tolerated dose3 = Yes |

### 5.22 Sulphonylurea

|  |  |
| --- | --- |
| **Definition:** | Is patient being treated with Sulphonylurea? |
| **Requirement:** | Required |
| **Verification rules:** | 0 = No (default)1 = Contra-indicated / not tolerated2 = On maximum tolerated dose3 = Yes |

### 5.23 Glitazone

|  |  |
| --- | --- |
| **Definition:** | Is patient being treated with Glitazone? |
| **Requirement:** | Required |
| **Verification rules:** | 0 = No (default)1 = Contra-indicated / not tolerated2 = On maximum tolerated dose3 = Yes |

### 5.24 Acarbose

|  |  |
| --- | --- |
| **Definition:** | Is patient being treated with Acarbose? |
| **Requirement:** | Required |
| **Verification rules:** | 0 = No (default)1 = Contra-indicated / not tolerated2 = On maximum tolerated dose3 = Yes |

**APPENDIX B: AGGREGATED DIABETES ANNUAL REVIEW “GET CHECKED” DATA TO BE REPORTED TO LOCAL DIABETES TEAMS BY DISTRICT HEALTH BOARDS ANNUALLY [[10]](#footnote-10)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Number receiving DAR vs. Expected prevalence (%)**  | **Number receiving DAR**  | **Number receiving DAR not recorded yet** | **Number receiving DAR with retinal screening in last 2 years** | **Number receiving DAR with foot checks recorded in past 12 months**  | **Number receiving DAR with HB1AC >8**  | **Number receiving DAR and coded as smokers** | **Number receiving DAR with micro-albumunia on Ace inhibitors**  | **Number receiving DAR and on statins**  | **Number receiving DAR and CVR recorded in the last 12 months** | **Number with CVR ≥15 (of CVR recorded in the last 12 months]** | **Number receiving DAR with NZ Dep Quintile >5** |
| **Māori** |  |  |  |  |  |  |  |  |  |  |  |  |
| **Pacific Island** |  |  |  |  |  |  |  |  |  |  |  |  |
| **Other** |  |  |  |  |  |  |  |  |  |  |  |  |
| **South Asian** |  |  |  |  |  |  |  |  |  |  |  |  |

1. Where appropriate, an opportunistic Annual Review, regardless of the setting, may be undertaken when an Individual is in care for another condition or diabetes. The result will be communicated to the Individual’s General Practitioner. [↑](#footnote-ref-1)
2. Individuals with long term conditions having greater control in looking after themselves. [↑](#footnote-ref-2)
3. National Health Committee. 2007. *Meeting the needs of people with Chronic Conditions: Hapai te Whanau mo ake ake tonu*. Wellington: Ministry of Health. [↑](#footnote-ref-3)
4. New Zealand Guidelines Group. New Zealand Primary Care Handbook 2012. 3rd ed. Wellington: New Zealand Guidelines Group; 2012. [↑](#footnote-ref-4)
5. Eligibility criteria: Not all people who are referred or present to the Service are eligible for publicly funded services. Refer to website: http://www.moh.govt.nz/eligibility for more eligibility information [↑](#footnote-ref-5)
6. Guidelines on Type 2 Diabetes May/ June 2011, See New Zealand Guidelines Group (NZGG) website (<http://www.nzgg.org.nz>) form the basis for identifying complications and agreeing a treatment plan. [↑](#footnote-ref-6)
7. This is an essential part of good care, and should be given in the context of a patient’s needs and preferences. This will assist services in meeting their obligations under the Code of Health and Disability Services Consumers’ Rights 1996 (the Code), a regulation under the Health and Disability Commissioner Act 1994. [↑](#footnote-ref-7)
8. The New Zealand Guidelines Group. 2003 *The Treatment of Type 2 Diabetes*. Wellington. [↑](#footnote-ref-8)
9. Diabetes Get Checked / CVD XML Schema and Dataset. Implementation Guide Version 4 [↑](#footnote-ref-9)
10. Data for claims paid in that quarter [↑](#footnote-ref-10)