



for health and social care

NHS HEALTH CHECK DATASET Implementation User Guidance

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PURPOSE OF THIS DOCUMENT

The purpose of this document is to provide guidance to implement the NHS Health Check dataset by providing instructions on how and what data is to be captured, extracted from IT systems and periodical submission of the files to a national centre for secondary uses reporting.

DOCUMENT MANAGEMENT

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VERSION HISTORY

Versn	Issued	Brief Summary of Change	Author
0.1	23/09/10	Initial guidance document for the NHS Health Check dataset.	M Hepplestone
0.2	04/10/10	Comments incorporated from guidance review	M Hepplestone
1.0	04/10/10	Final after reviewers comments	M Hepplestone
1.1	10/11/10	Comments from ISB appraisal meeting and business rules added.	M Hepplestone
1.2	25/03/11	Changes made to align with NHS Health Check dataset v1.2	M Hepplestone
1.3	01/06/11	Changes made to align with NHS Health Check dataset v1.4	M Hepplestone
1.4	16/09/11	Changes made to align with NHS Health Check dataset v1.6	H Kausch
1.5	23/10/12	Hyperlink to Lower Layer Super Output Area amended to correct URL	M Hepplestone

FORECAST CHANGES

Anticipated Change	When
Technical guidance will subject to change as a result of early implementation by system suppliers. Review of this product will be conducted on a periodical ad-hoc basis and will be published on the NHS Information centre's web site.	Reviewed after January 2012

ASSURANCE REVIEW AND APPROVAL

Assured by	Organisation and Title
M Reynolds	Director, Information Standards Board
Heather White	Department of Health, NHS Health Check Programme Lead
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Approved by	Organisation and Title
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ACRONYMS

Acronym	Description
ASP	Alternate Service Provider (includes commissioned pharmacies and outreach clinics)
CDS	Commissioning Data Set
CfH	Connecting for Health (Technology Office)
DB	Database (referred to as a central data warehouse for collection and reporting purposes)
DD&P	Data Dictionary and Products
DH	Department of Health (referred to as Vascular Programme and Policy)
DHID	Department of Health Informatics Directorate
DSCN	Dataset Change Notification issued by ISB
ECC	Ethics and Confidentiality Committee
GMP	General Medical Practice
GP	General Practitioner
GPPAQ	General Practice Physical Activity Questionnaire
GPSoC	GP Systems of Choice
GPSS	Commissioned and contracted GP System Suppliers
IC	The NHS Information Centre for health and social care
IG	Information Governance
ISB	Information Standards Board for Health and Social Care
ISN	Information Standards Notice issued by ISB
KPI	Key Performance Indicators
NHS	National Health Service
NICE	National Institute for Health and Clinical Excellence
NIGB	National Information Governance Board for Health and Social Care
NPfIT	National Programme for Information Technology
PbR	Payment by Results
PCT	Primary Care Trust (NHS Commissioning Body or GP Consortia)
QOF	Quality Outcome Framework
ROCR	Review of Central Returns
SFTP	Secure File Transfer Protocol
SNOMED CT	Systematised Nomenclature of Medicine Clinical Terms [®]
SUS	Secondary Uses Service

DEFINITIONS TABLE

Terms Used	Description
Clinical System Supplier	A Clinical System Supplier is a provider of systems to record electronic patient care records.
Commissioned Service Provider	Service provider responsible for delivering NHS Health Check and recording the observed data in a electronic patient record under contractual agreement with the commissioner.
Data Item	A single component of a dataset that holds one type of information and relates to a specific record. Each data item is unique to the dataset.
File	In the context of the data submission architecture, a file is the data an NHS care provider submits to the central data warehouse. A file consists of a file header, segments and a file trailer.
Information Standards Notice	An issued mandate with instructions for services to comply under contractual obligations. The ISN is issued on approval by the Information Standards Board.
National Information Governance Board	A governing body that oversees and advises on data standards in line with the Data Protection Act
NHS Health Check dataset	The NHS Health Check dataset is an output dataset that delivers pre-defined Key Performance Indicators (KPIs) and Information Requirements (IRs) relating to NHS Health Check Programme.
NHS Information Standards Board for Health and Social Care (ISB HaSC)	The NHS Information Standards Board for Health and Social Care (ISB) provides assurance of Information Standards for the NHS and working with other agencies. ISB is one of the advisory boards reporting to the NHS National Programme for IT Board. It is independent in its function and draws its voting members from a broad cross section of stakeholder groups.
Optional	Optional data items should be sent to the centre where applicable (e.g.: where data has been recorded, data should be reported).
Output Dataset	An structured extract containing pre determined data items which are defined by , value list and format. . An output dataset does not influence the clinical decision making process or define how systems should be modelled and what NHS Services should deliver. NHS Services may capture data items in greater depth but only the required fields will be extracted as part of the output dataset.
Required	These data items MUST be reported. Failure to submit these items will only result in the rejection of the XML file submission.
Review of Central Returns (ROCR)	The Review of Central Returns (ROCR) is a body that monitors request for information and grants approval based on an assessment of potential burden to collect. This process is concerned with supporting the Department of Health (DH) and its Arms Length Bodies (ALBs) to implement the government's policy in 'Reducing the burden' of data collections from the NHS.
Secondary Uses Services (SUS)	The single, comprehensive repository for healthcare data which enables a range of reporting and analysis to support the NHS in the delivery of healthcare services. ¹
Supplier Implementation Pack	A complete set of technical instructions with a defined architecture on its required obligations to build and send a file to a central data warehouse.

¹ SUS - <http://www.ic.nhs.uk/services/secondary-uses-service-sus>

DATASET VERSION CONTROL

The dataset spreadsheet contains an additional “Version Control” tab which tables the details of the dataset version history for the NHS Health Check dataset. The latest revision is version 1.6, which is in line with the XML schema dated September 2011.

DATASET ASSURANCES AND APPROVAL

As a consequence to the release of the Information Standards Notification Number (ISN: 1080/2010) and the subsequent Data Set Change Notice (DSCN: 1080/2011), this standard has been reviewed and received endorsements and approvals from the following assurance organisations:

- The Department of Health (Vascular Programme and Policy);
- The Expert Reference Group (Expert clinical advisories);
- Participating system suppliers and Health Check providers (during testing and consultation);
- The Information Standards Board (Full Operational Standard approval);
- The National Information Governance Board and the Ethics and Confidentiality Committee;
- Review of Central Returns Steering Committee (for evaluating the burden on services).

IMPLEMENTATION SUPPLIER PACK - INVENTORY

Each system supplier that is required to extract information from clinical systems should ensure they have the following instructions and technical details to appropriately plan and support the implementation stages:

ID	Product	Version	Format	Availability
1	Associated ISN and/or DSCN with instructions of the mandate	1.0	PDF	Available
2	Information Requirements (Key Performance Indicators)	1.0	XLS	Available
3	The latest revision of the NHS Health Check dataset	1.6	XLS	Available
4	The latest version of the User Guide (this document)	1.4	PDF	Available
5	Read Code Mapping Guide (Assured Inclusions)	2.0	PDF	Oct 2011
6	Read Code Mapping Guide (Assured Exclusions)	1.0	PDF	Oct 2011
7	Technical Specification (architecture, submission and re-submission)	1.0	PDF	Oct 2011
8	XML Schema Release Notes	1.0	ZIP	Available
9	XML Schema Validation File	1.0	XSD	Available
10	Department of Health Vascular Policy Business Rules Paper	1.0	PDF	Available

* Estimated delivery dates to be confirmed.

For technical support, please contact the NHS Information Centre by writing to enquiries@ic.nhs.uk (to help us redirect your questions to the most appropriate team and to speed up the response times, please include “NHS Health Check” in your subject line).

1 INTRODUCTION

1.1 ABOUT THIS DOCUMENT

This document is split into 3 key areas:

(a) Human Behavioural

This section describes how the NHS Health Check dataset should be used by service and IT system providers in relation to the NHS Health Check Programme. It instructs on the key requirements and provides a guidance to those responsible for capturing the information as part of a routine NHS Health Check.

(b) Organisational

This section describes the implications to an organisation resulting from the approval and national mandate of the NHS Health Check NHS Information Standard. It provides guidance for those responsible for collating, ensuring data quality and submitting the data to the Information Centre including informatics, performance and IT staff.

(c) Technical

This section describes the technical infrastructure related to the dataset. The focus is on any technical issues relating to the data items and the infrastructure surrounding data collection, data transfer and data repository. It provides guidance for those responsible for implementing changes to systems to facilitate the capture and extraction of information including system suppliers.

1.2 KEY COMPONENTS OF THE INFORMATION STANDARD

This document should be read in conjunction with the standard specification, which consists of the following components:

- (a) NHS Health Check Objectives and KPI (also known as “Information Requirements”);
- (b) NHS Health Check dataset specification;
- (c) NHS Health Check dataset guide (this document);
- (d) The Contracted Service Provider’s Technical Guidance, which sets out details on how information is to be submitted to the centre; and
- (e) The Risk and Hazard log.

1.3 BACKGROUND

The NHS Health Check programme is a universal and systematic programme for everyone between the ages of 40-74 that will assess people’s risk of heart disease, stroke, kidney disease and diabetes and will support people to reduce or manage that risk through individually tailored advice.

The check itself will involve a number of straight forward tests and measurements covering height, weight, family history, smoking and blood pressure and will include a simple blood test for cholesterol and (in some cases) glucose levels. Each person’s risk of having a heart attack or stroke, or developing diabetes or kidney disease will be communicated to the individual in a way that they understand.

This will be followed up with individually tailored advice suitable for that person on how to manage or lower that risk. For those at low risk, this might be no more than general advice on how to stay healthy. Others at moderate risk may be signposted or referred to a weight management programme, stop smoking service, or a brief intervention to increase levels of physical activity. Those at high risk might require medication with statins or blood pressure treatment, or an intensive lifestyle management programme for those identified with impaired glucose regulation. A few may need further assessment or tests. We also expect to identify people who already have a vascular disease where it has so far gone undetected, particularly type 2 diabetes and chronic kidney disease. In such cases, patients will benefit from early identification and disease

management that will improve their health outcomes and help prevent adverse complications. These people will be removed from the ongoing call and recall programme and managed through existing care pathways.

1.4 PURPOSE OF THE NHS HEALTH CHECK DATASET

The main purpose of the NHS Health Check dataset is to provide a mechanism for providers of NHS Health Check Assessment to record and share data about the programme to drive national and local performance reporting needs.

It is intended that the NHS Health Check dataset will aid the following business functions:

- Assessing the performance of the NHS Health Check Programme and associated services against its Key Performance Indicators and objectives;
- Providing Primary Care data to DH in order to provide information that will help inform future policy around CVD;
- Monitor the progress and performance of individual commissioners and their programmes;
- ongoing service development and improvement.

Compliance with the developed standard will ensure that local systems produce secondary uses information based upon data which is in a standardised national format, and that any data used centrally will be consistent for national reporting.

The Department of Health (DH) and Commissioners will use this information to assess performance of the programme against national indicators and to help determine the effectiveness of national, regional and local policies in bringing about the implementation of the NHS Health Checks Programme.

Commissioners of NHS Health Check services will use the information to monitor the provision of NHS Health Check services as part of their contracts and agreements.

The NHS Health Check dataset is driven by a set of documented Information Requirements that looks to monitor the NHS Health Check Programme from a secondary uses level of information. These Information Requirements are satisfied by the collection of particular data items recorded during the NHS Health Check Process.

The development of the Information Requirements has been taken from already documented Key Performance Indicators developed by the Department of Health which look to 'manage performance' in relation to the NHS Health Check process, uptake and responses.

These KPI's have been developed with the following sources in mind:

- DH Putting Prevention First Best Practice guidelines;
- Vital Signs Initiative;
- NICE Guidance;
- NHS Health Check Programme Objectives;
- PCT Stakeholder Workshops.

1.5 DATASET SCOPE

The primary users of the standard are clinical system suppliers who provide extracts of data to the NHS Information Centre. All of the information required to populate the dataset is routinely recorded clinical data e.g., blood pressure, Body Mass Index etc and most have a one to one relationship with the data elements required for reporting against Key Performance Indicators (i.e. this standard). A few items in the dataset are derived fields, for example, age derived from date of birth.

Users of the information reported to the NHS IC include providers and commissioners of NHS Health Checks and the Department of Health.

The subjects are all those who are eligible to participate in the programme i.e. those between the age of 40 and 74 in England that have not been diagnosed previously with diabetes, hypertension, chronic kidney disease or heart disease or are not currently prescribed Anti Hypertensives or Statins. The eligible cohort is estimated to be in the region of 15 million people in England and, at full roll out, around 3 million people will be invited for their NHS Health Check each year.

1.6 OUT OF SCOPE

The NHS Health Check standard does not specify all the data that would be recorded about individuals who access the programme and does not constitute a full patient record.

Exchange of information among providers and commissioners in support of managing NHS Health Checks pathway is out of scope for this initial release of the standard. This includes electronic communication and interaction between General Practice and Alternate Service Providers of NHS Health Checks such as pharmacies. Regarding the cohort identification, NHS Connecting for Health (NHS CFH) are developing options for the Department of Health to deliver an informatics infrastructure that will provide functionalities on cohort identification, call and recall and data transfer, these are also currently out of scope for this standard.

The standard will not define how a commissioner will implement the NHS Health Checks programme locally and does not cover specific clinical coding terminology for the identification of exclusion and inclusions of categories and template (Guideline) design (albeit, the pack provides Read Codes only as a guideline).

The dataset is not intended for use within Secondary Care setting.

1.7 READING AND UNDERSTANDING THE DATASET

The dataset will be presented as follows:

Global Number	Data Item Section	Data Item Name	Description	Format	Nat Code	Data Values	Required/Optional	KPI/Information Requirements	Data Dictionary
17300120	Demographics	Gender	The classification is phenotypical rather than genotypical, i.e. it does not provide codes for medical or scientific purposes. Note that "0 Not Known" means that the sex of a PERSON has not been recorded. "9 Not Specified" means indeterminate, i.e. unable to be classified as either male or female.	an1	0	Not Known	Required	NHS_HC_D1 to NHS_HC_D26	PERSON GENDER CODE CURRENT
					1	Male			
					2	Female			
					9	Not Specified			

Table 1

DESCRIPTIONS

The headers are explained as below:

Global Number	An internal unique number of the data item within the section, for reference purposes
Data Item Section	The section of the dataset for logical representation of the collection of data items
Data Item Name	The unique title or name of the data item
Description	The description of the data item which explains in detail what information the data item is requiring the user to capture
Format	The format of the data item expressed in data type and length
National Code	The unique code associated with a particular data item value for data submission and analysis purposes
Data Values	A list of permissible data values associated with the data item where applicable
Required/Optional*	The mandated level terms of national submission requirements (in line with the National NHS Data Dictionary schema)
KPI/Info Requirement	The Key Performance Indicators/Information Requirements of the data item, which directly relates to the business objectives
Data Dictionary	The associated NHS data dictionary element where applicable

- * The word **Required** means that the data item is mandatory and ***MUST*** be included in the submission, while **Optional** means the data item may not be present at data capture and ***SHOULD*** be included where available. These terms are aligned to the National NHS Data Dictionary standards of terminology and the associated XML schema for the NHS Health Check.

2 HUMAN BEHAVIOURAL GUIDANCE

2.1 DATA USERS

Primary Users

The NHS Health Check dataset is intended for secondary use purposes rather than the direct enactment and assessment of a NHS Health Check Assessment. Information captured for primary purposes will be extracted by system suppliers, at a patient level, from existing Clinical Systems and clinical systems and flow to the NHS Information Centre for Health and Social Care for reporting purposes.

- GPs: will be responsible for capturing information as part of a NHS Health Check assessment (i.e. for primary use purposes);
- Alternative Service Providers: will be responsible for capturing information as part of a NHS Health Check assessment i.e. for primary use purposes;
- Suppliers of Clinical systems: will develop systems ensuring that data items can be captured electronically and output or derived to nationally agreed standards to allow extraction and/or derivation to produce the NHS Health Check dataset.

Secondary Users

Information generated by this NHS Information Standard will be used primarily by the Department of Health who will use the information generated to monitor the achievement and the delivery of NHS Health Check programme against Key Performance Indicators. The information captured through the NHS Health Check dataset will support the following national activity:

- monitoring the implementation and effectiveness of the NHS Health Check programme;
- Assessing the performance of the NHS Health Check Programme against its KPI and key objectives;
- NHS Health Check policy development;
- National analysis and statistics i.e. disease prevalence;
- Providers of specialist NHS Health Check Services;

When approved as an NHS Information Standard the following groups of people are likely to analyse information captured through the NHS Health Check dataset:

- Managers;
- Commissioners;
- service and workforce planners;
- performance analysts;
- clinical staff.

The information captured through the NHS Health Check dataset may support the following local activity:

- commissioning;
- organisational performance management;
- service planning and improvement;
- clinical audit;
- research.

The NHS Health Check dataset will also aid continuous improvement of NHS Health Check Programme to meet local needs.

How the dataset will it be used in routine existing working practices

The majority of the information defined within the NHS Health Check dataset is already captured routinely by services that provide NHS Health Checks. Providers of NHS Health Check can include:

- GPs;

- ASP's (e.g. Pharmacies, Community Outreach Clinics, etc).

For example GPs will administer an NHS Health Check which include all activity associated with a Health Check which can include making referrals and providing a diagnosis whereas an ASP can administer an NHS Health Check but they can not make a formal diagnosis and in most cases not refer on to other services. Some information may also be captured by *Administrative Staff* for example demographic information during patient registration.

Where the dataset will be used

The NHS Health Check dataset will be used in all organisations providing NHS Health Checks commissioned or provided by the NHS. These include, but are not limited to, the following types of organisations:

- GP Practices;
- Alternative Service Providers.

2.2 NHS HEALTH CHECK DATASET

The data collection system may represent the data in a different manner or in more granularity; however, providing the input data items can be mapped to the output dataset, the input source will not require any modification. This can be illustrated in the following table:

Input system		National Dataset	
Data item name	Format/Values	Data item name	Format/values
Date of birth	dd/mm/yy	Age at Assessment	nnn
Smoking Status	<ul style="list-style-type: none"> • Trivial smoker <1 cig/day • Light smoker 1-9 cigs/day • Moderate smoker 10-19 cig/day • Heavy smoker 20-39 cig/day • Very heavy smoker 40+ cig/day 	Smoking Status	Current Smoker

In each of the above scenarios, the input data items will map to an output data item. The output dataset describes the data items an organisation needs to submit as opposed to what they should collect. **Please see section 4.4 for further information on READ code mapping.**

It is important to note that the NHS Health Check dataset is a logical organisation of data items to aid reference and is not a structure for a technical implementation of the dataset or any form of database. It is not intended to replace the Best Practice Guidance produced by the Department of Health on how to conduct an NHS Health Check, nor should it be used to develop IT systems for management of the NHS Health Check. The sections of the NHS Health Check dataset are:

- Organisation Details;
- Demographics;
- NHS Health Check Programme;
- Person Observations;
- Information and Advice;
- Referral;
- Further Assessments;
- Prescription;
- Diagnosis.

Please note the following sections should be read in conjunction with the **NHS Health Check Dataset Specification v1.6.xls**.

ORGANISATION

NHS Health Check Activity				
Description				
This section of the NHS Health Check dataset looks at capturing information related to the organisation commissioning the NHS Health Check Programme, the Provider of a NHS Health Check assessment and the date that the NHS Health Check assessment started.				
Data Items				
Global ID	Data Item Name	Description	Format	Opt/Req
11100180	Organisation Code (Code of Commissioner)	The qualified Organisation Code of the NHS Health Check Commissioner. This data item will identify the organisation code of the commissioner who is responsible for providing the NHS Health Check programme.	an5	Required
11100190	Organisation Code (NHS Health Check Provider)	The qualified Organisation Code of the NHS Health Check Provider. This is the organisation code of the provider of the NHS Health Check. Organisation Data Service (ODS) codes should be used where an NHS Health Check is carried out in a GP surgery. The code "PXXXXX" should be used as the default code for Pharmacies and code "OXXXXX" as the default code for other Alternate Service Providers where NHS Health Checks are conducted by a commissioned 3 rd party, such as an Outreach Clinic.	an6	Required

NHS HEALTH CHECK PROGRAMME

NHS Health Check Programme				
Description				
This section looks at the date that a person was eligible and invited to attend an NHS Health Check.				
Data Items				
Global ID	Data Item Name	Description	Format	Opt/Req
11100710	Eligible Population Total (NHS Health Check)	This is the number of PATIENTS in the TARGET POPULATION within the REPORTING PERIOD for the NHS Health Check Programme. For clarification, the NHS Health Check Programme eligible population are all people aged between 40 and 74 in England, who have not previously been diagnosed with diabetes, hypertension, chronic heart disease or kidney disease. This is to capture the date that a person was identified as being entered into the programme and therefore eligible for an NHS Health Check assessment. This Date information will be provided via system suppliers when providing an extract of NHS Health Check data.	n8	Required
11100140	Invitation Offer Sent (NHS Health Check)	An indicator where an 'invitation' offer to an NHS Health Check Assessment was made. As part of the NHS Health Check programme a cohort of people will be identified that are eligible for an NHS Health Check. Invitations to those eligible can be made in a number of ways - by the PCT,	an1	Optional

		GP Practice, or ASPs on behalf of the PCT. Where invitations have been sent by providers of the NHS Health Check, administrative staff would capture that an invitation was sent inviting a person to attend their NHS Health Check. The national code [Y] should be used where a person has been offered a NHS Health Check invitation and [N] where no offer of an invitation was given. It is not expected that all providers of NHS Health Checks will be able to flow this information as this activity may be performed by the Commissioner.		
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DEMOGRAPHICS

Demographics				
Description				
<p>This table contains information on the demographics of those individuals attending an NHS Health Check. The collection of these data items will be used to assess uptake and outcomes across different ethnic groups, ages, and geographical areas and between men and women. Data items specified within this table are likely to be obtained when registering with a GP Practice and should be confirmed at the NHS Health Check appointment that the information is correct and up to date. If a NHS Health Check assessment is conducted by an Alternate Service Provider (ASP) such as a Pharmacy, then it is unlikely that demographic information would be held about the person. It is important that all demographic data items are confirmed or captured and recorded at the point of assessment.</p> <p>NOTE: The verification of demographic data where a NHS Health Check assessment is carried out by an ASP is out of scope.</p>				
Data Items				
Global ID	Data Item Name	Description	Format	Opt/Req
11100680	Lower Layer Super Output Area	Lower Layer Super Output Areas are a geographic hierarchy designed to improve the reporting of small area statistics in England and Wales. Lower Layer Super Output Areas are built from groups of contiguous Output Areas and have been automatically generated to be as consistent in population size as possible, and typically contain from four to six Output Areas. The Minimum population is 1000 and the mean is 1500. This will be derived from the patient postcode. This data item will be derived by clinical system suppliers from the postcode of the address provided by the patient when registering with a practice or providing it as part of a NHS Health Check Assessment at a Pharmacy or 3 rd party provider. Further detail on Lower Layer Super Output Area can be found here ¹ .	an nnn	Required
11100690	Age At Assessment	This is to identify the age of a person at a NHS Health Check Assessment. This will be derived from PERSON BIRTH DATE and NHS HEALTH CHECK ASSESSMENT DATE. This data item will be derived by clinical system suppliers from the patient's date of birth and the date of the NHS Health Check Assessment.	n3	Required

11100050	Gender	The current gender of the patient. The classification is phenotypical rather than genotypical i.e. it does not provide codes for medical or scientific purposes. The [0] <i>Not Known</i> national code means that the sex of the patient has not been recorded. Use National Code [1] for Male and [2] for Female. The [9] <i>Not Specified</i> national code means indeterminate i.e. unable to be classified as either male or female.	an1	Required
11100060	Ethnic Category	This is the ethnicity of the client, based on the current 16+1 census categories and as specified by the client. The [Z] <i>Not Stated</i> national code should only be used where the patient has been asked and has declined to provide their ethnic category because of refusal or the inability to choose. The [99] <i>Not Known</i> national code should be used where the patient has not been asked or where the patient was not in a suitable condition to be asked.	an2	Required

PERSON OBSERVATIONS

Person Observations				
Description				
This section of the dataset covers activity that occurs during the initial risk assessment stage of the NHS Health Check and the location of where the NHS Health Check took place. These data items should be captured by all those providing the risk assessment part of the NHS Health Check which includes ASPs as well as GPs.				
Data Items				
Global ID	Data Item Name	Description	Format	Opt/Req
11100200	Activity Location (NHS Health Check)	The Location Type of where the NHS Health Check assessment was performed. This is to capture information around where a NHS Health Check was conducted. All the activity that is to be recorded as part of a risk assessment should be recorded at the point of a NHS Health Check Assessment. Activity that should be recorded as part of the risk assessment includes the data items below.	an3	Required
11100210	Body Mass Index	This records the Body Mass Index of the PERSON. This value is derived from WEIGHT in kilograms divided by HEIGHT in metres squared (kg/m ²).	n2.n	Required
11100700	Blood Pressure Sitting	This is the recorded sitting blood pressure.	n3/n3	Required
11100270	Total Cholesterol /High-Density Lipoprotein Ratio)	The recorded total cholesterol to High-Density Lipoprotein (HDL) cholesterol ratio of a person. This value is calculated by dividing the total cholesterol value by the value of the HDL cholesterol. The Total cholesterol to High Density Lipoprotein Cholesterol ratio is also referred to as the TC/HDL ratio. This ratio is determined by dividing the HDL cholesterol into the Total cholesterol.	n2.n1	Required
11100290	Total Cholesterol Level	The recorded total cholesterol level (mmol/L) of a person. The total cholesterol is the total amount of cholesterol circulating in the blood at the time of the test. Total cholesterol is made up of low density lipoproteins (LDL), HDL and very low density lipoproteins (VLDL).	n2.n1	Required

11100310	Person Observation (Physical Activity Level)	The observed Physical Activity Level of the person. This is used to assess the current smoking status of a person attending a NHS Health Check assessment. Smoking status should only be recorded in the dataset if it has changed since the last assessment (i.e. if someone has always been a non-smoker and is still a non-smoker at the time of their NHS Health Check assessment, this does not need to be recorded). This is an assessment of the amount of physical activity a person undertakes. The Department of Health's validated tool, General Practice Physical Activity Questionnaire (GPPAQ) is the way of assessing how active someone is. A person can be classified into the following four physical activity categories: Inactive, Moderately inactive, Moderately active and Active. The NHS Health Check Programme advocates the use of GPPAQ. For further information about physical activity as part of the NHS Health Check and GPPAQ can be found here ² .	an1	Required
11100330	Smoking Status Code	The smoking status of the person at the time the tobacco usage is recorded. The [Z] <i>Not Stated</i> national code should only be used where the client has been asked and has declined to provide their current smoking status because of refusal or the inability to choose. this is to assess the current smoking status of a person attending a NHS Health Check assessment. Smoking status should only be recorded in the dataset if it has changed since the last assessment (i.e. if someone has always been a non-smoker and is still a non-smoker at the time of their NHS Health Check assessment, this does not need to be recorded).	an1	Required
11100350	Cardiovascular Disease Risk Score	The recorded cardiovascular disease risk score (%) of a person. The risk assessment stage of the NHS Health Check uses a risk engine to calculate a person's 10-year risk of cardiovascular disease. Evidence on cardiovascular risk estimation has developed considerably, with a number of risk engines available, including Framingham and QRISK. These have been calibrated to reflect risk factors within specific populations, such as ethnicity. The Department of Health takes its advice from NICE on matters such as which risk engines are most appropriate for the NHS to use. NICE revised its guidance in 2010 to allow the NHS to decide locally which risk engine best predicts risk for their population mix.	n2.n2	Required

INFORMATION AND ADVICE

Information and Advice
Description
This section of the NHS Health Check dataset covers the advice and information that should be provided to a person as part of a NHS Health Check. This is a vital part of helping someone reduce or manage their risk of developing vascular disease. Where available, these data items should be captured by all providers of NHS Health Checks.

Information and Advice – Information and Advice is intended to cover the provision of general information given as part of a NHS Health Check. For example, a person may be provided with information on eating a healthy diet, why it is important and what a person can do to improve their diet. Advice and information could be provided as part of a discussion and/or in the form of leaflets and other written information. The NHS Health Check dataset looks to capture information about whether information and advice was provided about general lifestyle, in response to someone smoking and weight management. The national code *[Y]* should be used where a person has been given information and advice as part of a NHS Health Check assessment and *[N]* where no information or advice was provided. As part of a NHS Health Check assessment, everyone attending should be provided with general lifestyle information and advice. Clinical System Suppliers should flow any data relating to information and advice on or within three months of the start date of the NHS Health Check assessment.

Brief Interventions – A brief intervention as stated by NICE (2006) ‘involves opportunistic advice discussion, negotiation or encouragement’. For more information about brief intervention for physical activity can be found [here](#). The NHS Health Check dataset looks to capture whether a brief intervention for physical activity was delivered as part of a NHS Health Check assessment. The national code *[Y]* should be used where a brief intervention has been given as part of a NHS Health Check assessment and *[N]* where a brief intervention has not been given.

Signposting – Signposting describes the process for directing a person to a suitable local service. As part of a NHS Health Check a person may be signposted/directed to the local gym or weight watchers programme for example. The intention is to help identify and guide people to local services which are appropriate for their circumstances. This will encourage them to use these services and support them in making changes to their lifestyle. The NHS Health Check dataset captures information about whether a person was signposted to a physical activity service, a stop smoking service or a weight management service. The national code *[Y]* should be used where a person has been signposted to a particular service as part of a NHS Health Check assessment and *[N]* where a person has not been signposted.

Data Items				
Global ID	Data Item Name	Description	Format	Opt/Req
11100370	Information and Advice Provided (General Lifestyle Advice)	An indicator that general lifestyle based information and advice was provided	an1	Optional
11100380	Information and Advice Provided (Stop Smoking Advice)	An indicator that stop smoking based information and advice was provided	an1	Optional
11100390	Information and Advice Provided (Weight Management Advice)	An indicator that weight management based information and advice was provided	an1	Optional
11100430	Brief Intervention (Physical Activity Brief Intervention)	An indicator that a brief intervention on physical activity was given	an1	Optional
11100400	Signposting (Physical Activity Service)	An indicator that the person was signposted to physical activity services	an1	Optional

11100410	Signposting (Stop Smoking Service)	An indicator that the person was signposted to a stop smoking service	an1	Optional
11100420	Signposting (Weight Management Service)	An indicator that the person was signposted to weight management services	an1	Optional

REFERRALS

Referrals				
Description				
This section of the NHS Health Check dataset will identify referrals made and declined for a particular service. Information about referrals should only be recorded where a referral has been made.				
Data Items				
Global ID	Data Item Name	Description	Format	Opt/Req
11100450	Referral to Service Acceptance Indicator (Physical Activity Service)	An indicator that a referral to a physical activity service was accepted or declined as part of a NHS Health Check Assessment. The aim of a physical activity service is to help people increase their physical activity levels. During a NHS Health Check, the person's physical activity is captured and if necessary the primary care health professional can refer them to a physical activity service. The national code <i>[A] Accepted</i> should be used where a person has been offered and accepted a referral to a physical activity service at a NHS Health Check assessment. The national code <i>[D] Declined</i> should be used where a person has been offered and declined a referral to a physical activity service at a NHS Health Check assessment.	an1	Optional
11100470	Referral to Service Acceptance Indicator (Stop Smoking Service)	An indicator that a referral to a stop smoking service was accepted or declined as part of a NHS Health Check Assessment. Smoking status must be captured and where advice. Where the subject has accepted the referral to a stop smoking service during the NHS Health Check assessment, the national code <i>[A] Accepted</i> should be used; otherwise the national code <i>[D] Declined</i> should be used where the offer was declined.	an1	Optional
11100490	Referral to Service Acceptance Indicator (Weight Management Service)	An indicator that a referral to a physical activity service was accepted or declined as part of a NHS Health Check Assessment. The aim of a weight management service is to help people lose weight. During an NHS Health Check assessment, the person's body mass index (BMI) is captured and if necessary the primary care health professional can refer them to a weight management service. The national code <i>[A] Accepted</i> should be used where a person has been offered and accepted a referral to a weight management service at a NHS Health Check assessment. The national code <i>[D] Declined</i> should be used where a person has been offered and declined a referral to a weight management service at a NHS Health Check assessment.	an1	Optional

FURTHER ASSESSMENTS

Referrals				
Description				
<p>This section of the NHS Health Check Data will identify any additional assessments that are required as an outcome of a NHS Health Check. Information captured about further assessment should only be captured where a further assessment is required.</p>				
Data Items				
Global ID	Data Item Name	Description	Format	Opt/Req
11100540	Assessment for Impaired Fasting Glycaemia/Impaired Glucose Tolerance Lifestyle Management	An indicator that a person requires a impaired fasting glycaemia/impaired glucose tolerance lifestyle management assessment following an NHS Health Check Assessment. This is an intensive lifestyle programme of physical activity and weight management for people with pre diabetic conditions (non-diabetic hyperglycaemia, pre-diabetic hyperglycaemia, impaired glucose regulation, impaired fasting glucose and impaired glucose tolerance. The national code <i>[Y] Further assessment is required</i> should be used where a person requires a further assessment for Impaired Fasting Glycaemia/Impaired Glucose Tolerance Lifestyle Management as a result of a NHS Health Check assessment. The national code <i>[N] No further assessment is required</i> should be used where a person does not require an assessment for Impaired Fasting Glycaemia/Impaired Glucose Tolerance Lifestyle Management as a result of a NHS Health Check assessment.	an1	Optional
11100500	Assessment for Diabetes	An indicator that a person requires a diabetes assessment following an NHS Health Check Assessment. The purpose of this data item is to capture anybody who requires a further assessment for diabetes as a result of a NHS Health Check Assessment. The national code <i>[Y] Further assessment is required</i> should be used where a person requires a further assessment for diabetes as a result of a NHS Health Check assessment. The national code <i>[N] No further assessment is required</i> should be used where a person does not require an assessment for diabetes as a result of a NHS Health Check assessment.	an1	Optional
11100510	Assessment for Serum Creatinine	An indicator that a person requires a serum creatinine assessment following an NHS Health Check Assessment. The purpose of this data item is to capture anybody who requires a further assessment for serum creatinine as a result of a NHS Health Check Assessment. The national code <i>[Y] Further assessment is required</i> should be used where a person requires a further assessment for serum creatinine as a result of a NHS Health Check assessment. The national code <i>[N] No further assessment is required</i> should be used where a person does not require an assessment for serum creatinine as a result of a NHS Health Check assessment.	an1	Optional

11100520	Assessment for Hypertension	An indicator that a person requires a hypertension assessment following an NHS Health Check Assessment. The purpose of this data item is to capture anybody who requires a further assessment for hypertension as a result of a NHS Health Check Assessment. The national code <i>[Y] Further assessment is required</i> should be used where a person requires a further assessment for hypertension as a result of a NHS Health Check assessment. The national code <i>[N] No further assessment is required</i> should be used where a person does not require an assessment for hypertension as a result of a NHS Health Check assessment.	an1	Optional
11100530	Assessment for Fasting Cholesterol	An indicator that a person requires a fasting cholesterol assessment following an NHS Health Check Assessment. The purpose of this data item is to capture anybody who requires an assessment for a fasting cholesterol as a result of a NHS Health Check Assessment. The national code <i>[Y] Further assessment is required</i> should be used where a person requires a further assessment for fasting cholesterol as a result of a NHS Health Check assessment. The national code <i>[N] No further assessment is required</i> should be used where a person does not require an assessment for hypertension as a result of a NHS Health Check assessment.	an1	Optional

PRESCRIPTIONS

Prescriptions				
Description				
As the NHS Health Check dataset will be anonymised it will not be possible to physically link a NHS Health Check Assessment with a prescription for statins or anti-hypertensives.				
NOTE: ASPs are not expected to prescribe statins or anti-hypertensives to persons receiving NHS Health Check assessments.				
Data Items				
Global ID	Data Item Name	Description	Format	Opt/Req
11100550	Statins Prescription Indicator	An indicator that a prescription for statins was made. Statins are drugs which help to lower cholesterol which helps to prevent heart disease. The national code <i>[Y]</i> should be used to indicate where a person has been prescribed statins and <i>[N]</i> where no statins have been prescribed. For more information on the use of statins for cardiovascular disease click here ³ .	an1	Optional
11100560	Anti-Hypertensives Prescription Indicator	An indicator that a prescription for anti-hypertensives was made. Anti-hypertensives are drugs which that are used to treat hypertension (high blood pressure) by lowering blood pressure. The national code <i>[Y]</i> should be used to indicate where a person has been prescribed anti-hypertensives and <i>[N]</i> where no anti-hypertensives have been prescribed.	an1	Optional

DIAGNOSIS

Diagnosis				
Description				
<p>This section of the NHS Health Check dataset is to look at particular diagnoses that may be captured against a client as a result of a NHS Health Check Assessment. As the NHS Health Check dataset will be anonymised it will not be possible to physically link a NHS Health Check Assessment with a diagnosis.</p> <p>NOTE: ASP's are not expected to provide a diagnosis to persons receiving NHS Health Check assessments.</p> <p>For more information about Chronic Kidney Disease and in particular stages 3, 4 and 5, click here⁴.</p>				
Data Items				
Global ID	Data Item Name	Description	Format	Opt/Req
11100570	Diagnosis Chronic Kidney Disease (stage 3) Indicator	An indicator that a diagnosis for Chronic Kidney Disease (Stage 3) was made. The national code <i>[Y]</i> should be used to indicate where a person has been diagnosed with Chronic Kidney Disease Stage 3 and <i>[N]</i> where no diagnosis has been given.	an1	Optional
11100580	Diagnosis Chronic Kidney Disease (stage 4) Indicator	An indicator that a diagnosis for Chronic Kidney Disease (Stage 4) was made. The national code <i>[Y]</i> should be used to indicate where a person has been diagnosed with Chronic Kidney Disease Stage 5 and <i>[N]</i> where no diagnosis has been given.	an1	Optional
11100590	Diagnosis Chronic Kidney Disease (Stage 5) Indicator	An indicator that a diagnosis for Chronic Kidney Disease (Stage 5) was made. The national code <i>[Y]</i> should be used to indicate where a person has been diagnosed with Chronic Kidney Disease Stage 5 and <i>[N]</i> where no diagnosis has been given. For more information about Chronic Kidney Disease and in particular stages 3, 4 and 5, click here ⁵ .	an1	Optional
11100600	Diagnosis Type 2 Diabetes Indicator	An indicator that a diagnosis for type 2 diabetes was made. Type 2 diabetes (Type 2 diabetes mellitus) is a condition where the pancreas does not produce enough insulin to meet the body's needs or the insulin is not metabolised effectively leading to insulin deficiency. The national code <i>[Y]</i> should be used to indicate where a person has been diagnosed with Type 2 Diabetes and <i>[N]</i> where no diagnosis has been given.	an1	Optional
11100610	Diagnosis Hypertension Indicator	An indicator that a diagnosis for hypertension was made. Hypertension is the medical term for high blood pressure. Hypertension (high blood	an1	Optional

		pressure) is defined as having a blood pressure reading of more than 140/90 mmHg over a number of weeks ² . As a result of high blood pressure this can increase a person's chances of having a heart attack or stroke. The national code <i>[Y]</i> should be used to indicate where a person has been diagnosed with Hypertension and <i>[N]</i> where no diagnosis has been given. For more information about Hypertension then please click here ⁶ .		
11100620	Diagnosis Non Diabetic Hyperglycaemia Indicator	An indicator that a diagnosis for non diabetic hyperglycemia was made. Non diabetic hyperglycemia is a condition where there is an excessive amount of glucose that circulates in blood plasma of a person without diabetes. The national code <i>[Y]</i> should be used to indicate where a person has been diagnosed with Non Diabetic Hyperglycemia and <i>[N]</i> where no diagnosis has been given.	an1	Optional

² <http://www.bpassoc.org.uk/microsites/u40/Home/high/Hypertension>

3 Organisational Guidance

3.1 RESOURCES AND COST

The resource implications will vary depending on organisational processes and IT systems employed. The current scope of the project does not include financial support for paper sites to procure, install and provide adequate training to implement the NHS Health Check Programme or provide systems to be able to deliver the standard requirements.

3.2 INFORMATION GOVERNANCE

Guidance and technical support for data and information sharing at both an operational level and for secondary uses exists nationally, for example The NHS Confidentiality Code of Practice (2003) and the Caldicott Report (1997)³.

The Information Security Management: NHS Code of Practice⁴ should be applied when handling patient data.

The recipients of the data will be the Department of Health; therefore, the Data Controllers will be the DH while the Data Processors will be the system suppliers and the NHS Information Centre. Reports are based on simple calculations based on the KPI requirements. Such reports and extracts will be managed locally and accordingly to the Data Protection Act.

Consent

The dataset solution has been designed such that patient data is made 'effectively anonymous'. As a consequence, explicit consent from patients is not required. However, where a patient explicitly withholds consent for the use of the data for secondary purposes then in general this should be respected. Where the nature of a patient's dissent is unclear then the advice of the local Caldicott Guardian should be sought.

Measures to Ensure Privacy of Patient Level Data

In order to minimise the risk to patient confidentiality, a number of sensitive and personal data items have been identified and the proposal for how they should be handled by the central repository securely hosted by the NHS Information Centre. The clinical systems suppliers responsible for the clinical records associated with the NHS Health Check will provide an extract of patient level data relating to the NHS Health Check dataset to the NHS Information Centre for health and social care for secondary uses. The data that will flow to the NHS Information Centre for health and social care will be de-identified ensuring that patients can not be identified. In order for data to be de-identified the following derivations have been agreed:

Date of Birth

The collection of date of birth is essential as part of a NHS Health Check Assessment. Date of birth will not form part of the extract requirements, although clinical system suppliers are required to derive the data item 'Age at NHS Health Check' which will flow centrally.

Postcode of Usual Address

The collection of Post Code of Usual Address is essential as part of a NHS Health Check Assessment. Post Code of Usual Address will not form part of the extract requirements, although clinical system suppliers should derive the data item 'Lower Super Output Area' which is a requirement for central returns.

There is no requirement to identify an individual patient which limits the risk to patient confidentiality.

³ Both documents available from

http://www.dh.gov.uk/en/Managingyourorganisation/Informationpolicy/Patientconfidentialityandcaldicottguardians/DH_4084181

⁴ <http://www.connectingforhealth.nhs.uk/systemsandservices/infogov/codes/securitycode.pdf>

Other potential identifiers such as NHS number and local patient ID are not in this extract. Gender and ethnicity will be included but these are required for analysis purposes. The advice from the NIGB Office is that the combination of data items to be submitted centrally has been reasonably de-identified and therefore does not require consent or support under Section 251. Care should still be taken in relation to data outputs to ensure that the combination of data e.g. where rare conditions or a rare combination of conditions occur.

Access Controls

Direct access to the data warehouse by users other than the Data Controllers is not permissible. KPI reports and extracts will suppress or round numbers to protect the disclosure of individuals (in line with the Data protection Act requirements).

The central repository, securely hosted by the NHS Information Centre, will have access to production databases for processing purposes. Under tight controls and IG guidelines, support staff may only access information to resolve technical problems and inform suppliers of error reports.

Small Numbers

The NHS Information Centre, as Data Processors, has a duty of care and obligation to ensure the protection of individual units is in line with the Data Protection Act and disclosure risks are consistently considered. For these reasons, an independent “Small Numbers Panel” has been established (guided by the Information Governance) to ensure the risks are exposed and periodically reviewed. During reporting, small numbers follow the usual HES protocols, where applicable.

3.2.1 Data Retention

Data will be stored in the dataset data store and the data warehouse for [To be determined] years, in line with policy stated in ‘Records Management NHS Code of Practice Part 2.

Compliance against statutory requirements

The NHS Health Check dataset will meet all statutory responsibilities related to Common law duty of confidence, Data Protection Act 1998, Human Rights Act 1998 and the Freedom of Information Act 2000.

3.3 DATA QUALITY

Corporate data quality framework

Each organisation will have its own corporate framework for managing data quality. This is likely to involve a number of components such as corporate leadership, organisational & local data quality objectives and a performance management framework (which entails the review of data quality objectives). The periodic review of data quality should incorporate the NHS Health Check dataset.

At organisational, departmental and individual levels, risks related to data quality should be identified and mitigated. Examples are:

- Organisational - does the organisation have a corporate policy and objectives for managing data? Is there a senior officer with overall responsibility for data quality?
- Teams - are all staff aware of the purpose and importance of collecting data for the national dataset? Are there sufficient resources available to continue data collection during staff absences?
- At an individual level, do staff have sufficient time within the working day to collect the data? Is there a need for additional training so staff can possess the skills to collect the data?

In regards to data validation, local audit and validation should be performed to ensure data is accurate and complete.

Organisational and departmental objectives

In any organisation, resources will be deployed towards organisational and departmental objectives. The organisation's performance management framework will identify the extent to which objectives are met, and, where necessary, revised. Where data is used to monitor progress towards objectives, there will be greater emphasis on collecting good quality data. It may be necessary to embed the dataset subject area into the organisation's performance management framework (and therefore set local objectives) to ensure data is collected in a reliable and timely manner.

Timeliness

The data should be entered in local systems and submitted by clinical system suppliers in a timely manner, so that the dataset can deliver meaningful, relevant and timely reports for stakeholders. By reviewing the data, in a timely manner, stakeholders may find it necessary to implement improvement actions so any delays in data submissions may have adverse impact on standards and outcomes.

Local data validation

To minimise the burden for Clinical and IT personnel at the data submission and error handling stages, providers of the NHS Health Check Programme should adopt local validation measures that will facilitate the recording of good quality data. This may be through periodic review of data reports (possibly through exceptional reporting) or local built in rules within IT systems.

3.4 ORGANISATION AND CULTURAL CONSIDERATIONS***Organisational structures and processes***

The structure and processes of each provider of the NHS Health Check Programme, as well as the departmental areas covering the dataset, will vary and, to a certain extent, depend on the focus on IT, informatics and organisational objectives. Some organisations will have well developed processes and systems that, with minimum effort, will accommodate the dataset. There will be other organisations where processes and systems are fairly minimal or in their infancy and will therefore require significant changes. Where this is the case, providers may choose to make the implementation of this information standard a short / medium term priority to ensure sufficient resources are deployed in this area. Furthermore, the implementation of a new or reengineered process may be more successful if a provider of the NHS Health Check Programme use peers to identify and adopt areas of good practice.

Documentation

Where a new process is developed or changes made to existing processes, documentation, such as process diagrams, may assist in developing efficient processes. This can also provide continuity to the data collection process during periods of staff absences and personnel changes.

3.5 CONTRACTUAL ISSUES FOR STAFF

There should be no conflicts or issues with regards to staff contracts under Agenda for Change and the NHS Key Skills Framework as the standard does not introduce new processes for data collection.

3.6 SKILL MIX CHANGES

With the implementation of the NHS Health Check dataset, there may be implications on skill changes and training, namely for clinicians, administration personnel, informatics personnel and IT services which will include technical and soft skill changes.

4 TECHNICAL GUIDANCE

4.1 INFORMATION STANDARDS NOTICE

Any new data standards and changes to existing standards are published on the Information Standards Board (ISB) website as a DSCN) All such notices are available [here](#)^{vii}.

The ISN is issued following formal approval by ISB of any information standard, such as the formal approval of the NHS Health Check dataset. The key aim of the ISN is to provide clear and unambiguous instruction to all stakeholders on the action required of them related to information standards. The associated ISN and DSCNs will provide the stakeholders with sufficient detail and instructions to enable them to plan for and implement the information standard in accordance to the national implementation plans. More information on the stages of information standard developments is available [here](#)^{viii}.

The ISN or any subsequent DSCN does not directly place any requirement on system suppliers to accommodate the dataset specification within their systems. The contractual agreement between providers of the Vascular Health Check Programme and system suppliers will dictate whether system suppliers have to abide by the ISN and DSCN, and at what cost.

Business Rules for Data Extraction

There is no identifiable data that will be collected in this dataset. Therefore, an assumption based on activity is made between having an NHS Health Check assessment and being diagnosed with Type 2 Diabetes. The NHS Information Centre will take every precaution to ensure disclosure risks are minimised and small numbers are suppressed or rounded to protect the identity of individual patients.

The Business Rules as defined by the Department of Health, are intended for clarifying the clinical requirements to fulfil the dataset. These Business Rules have been aligned to the Read Codes inclusions and exclusions. Both the Business Rules and the Read Codes (inclusions and exclusions) will be provided for information as part of the Supplier Implementation Pack.

NHS Health Check Assessment

In order for an NHS Health Check to be identified and for the dataset to flow, clinical system suppliers *MUST* search for the following READ Code:

Clinical Terms version 3 – **XaRBP | NHS Health Check indicated**
Version 2 - **8BR2. | NHS Health Check indicated**

Any patient records which contain these READ codes, along with the required items (as specified below in the Person Observation section) should be flowed within the NHS Health Check dataset.

Vascular Health Check Programme

As part of the data submission clinical system suppliers are to provide a count of the number of people eligible for a NHS Health Check within a reporting period. It is anticipated that this number will flow within the header file.

Person Observations

On order for a Clinical System Supplier to flow information contained in the NHS Health Check dataset a minimum number of data items need to be completed:

- Assessment Type (NHS Health Check)
- Person Observation (BMI)
- Person Observation (Systolic Blood Pressure)
- Person Observation (Diastolic Blood Pressure)
- Person Observation (Cholesterol/High-Density Lipoprotein Ratio)
- Person Observation (Total Cholesterol Level)
- Person Observation (Physical Activity Level)
- Person Observation (Smoking Status)
- Person Observation (Cardiovascular Disease Risk Score)

Once all of these data items have been met then any other data items collected as part of the NHS Health Check dataset can be flowed i.e. demographics, information and advice, signposting, referrals, prescriptions and diagnosis.

Information and Advice

Specific information and advice is given on weight management, smoking cessation and physical activity, to those who have been identified as needing it. Clinical System Suppliers should flow any data relating to information and advice on or within three months of the start date of the NHS Health Check assessment.

Signposting

The dataset also looks to collect information on people who have been signposted to weight management services, physical activity services and smoking cessation services. Clinical System Suppliers should flow any data relating to signposting on or within three months of the start date of the NHS Health Check assessment.

Referrals

The dataset collects information on referrals to lifestyle management services (weight management services, smoking cessation services, IFG/IGT lifestyle management services, physical activity services). Clinical System Suppliers should flow any data relating to a referral to one of these services on or within three months of the NHS Health Check assessment date.

Prescriptions

The dataset aims to capture information about whether a prescription of statins or anti-hypertensives was made. Clinical System Suppliers should flow any data relating to the prescription of these medicines should be on or within three months of the NHS Health Check assessment date.

Diagnosis

The dataset also looks at whether a person was diagnosed with a particular condition (Chronic Kidney disease, type II diabetes, hypertension and non-diabetic hyperglycaemia). Clinical System Suppliers should flow any data relating to the mentioned conditions in the dataset on or within three months of the NHS Health Check assessment date.

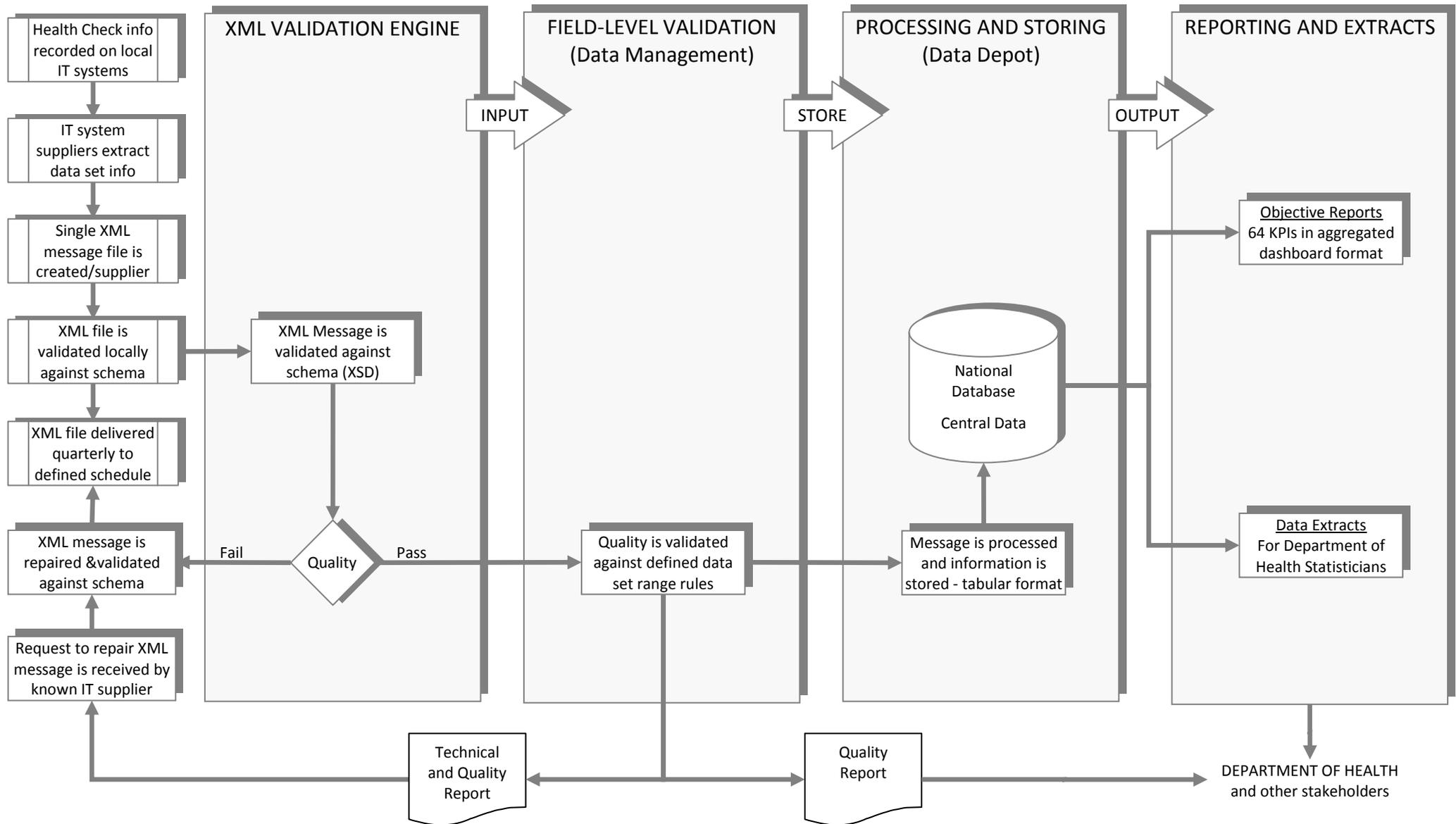
4.2 SUBMISSION OF DATA

The data submission process is designed to capture data in a timely manner, from providers of the NHS Health Check Programme. The dataset contains a list of data items that make up the 'output dataset' - see section 2.3. The data items are grouped and aligned to specific stages of a NHS Health Check Assessment and related activity.

Overview of the Data Submission Process

Electronic files in XML format are to be transmitted to the NHS Information Centre for Health and Social Care through a secure web portal hosted at the NHS Information centre for Health and Social Care. This web portal enables delegated system suppliers to submit data files in a secure manner across the Internet. Further technical architecture details will be provided separately.

Connection to the web portal requires a login account name and password, which will be available from the IT Portal administrator at the NHS Information centre for Health and Social Care. The diagram below is a high level overview of the processes for the proposed central solution:



4.2.1 Who will submit the data

Information will be submitted to the NHS Information Centre for Health and Social Care by clinical system suppliers, on behalf of provider of NHS Health Checks.

Frequency of Data Submission

The NHS Health Check dataset is a quarterly provider-based return and each extract will cover no more than 3 calendar months' worth of data.

The reporting period starts at 00:00 GMT on the first Monday of each quarter and ends at 23:59 GMT on the last Sunday of each quarter.

Returns must be submitted by the 25th or nearest next working day. Returns must be no later than 28 calendar days after the month end e.g. information relating to April 2011 must be submitted no later than May 28th 2011.

4.2.2 Submission Schedule

A submission schedule will be published separately in due course as part of the technical architecture design specification.

Data Submission Updates

It is anticipated that the central data warehouse will be able to accept a resubmission of NHS Health Check data. This is to allow System Suppliers, extracting the information by the dataset specification, to provide more accurate and more complete data in the case where they do not have the required data within the scheduled submission dates. Resubmission of a dataset for a particular period will have the effect of completely replacing the previous submission for that same period. These details will be confirmed during the development of the technical solution and will be included in the Supplier's Implementation Pack.

4.2.3 Data Validation & Error Reporting

On submission of the XML messages, the *Business Unit* service will validate incoming data against the dataset specification regulations defined within the XML schema (XSD and XML guidance are supplied as part of the Supplier Implementation Pack). System suppliers should conduct a basic format validation check, but should also particularly note the observation tolerances (i.e. checking the integrity of BMI score, age, etc).

Data fields will be validated for presence, format, value range and other criteria on receipt at the hosted data warehouse. Any files containing errors will be rejected within 24 hours. The supplier will be notified of the fault with the appropriate error report detailing the validation failures (details of this communication will be instructed within a separate Technical Guide supplied as part of the Supplier Implementation Pack). System suppliers will be advised to respond to the error report by acknowledging receipt and making their re-submissions within the suggested timescales.

Submission of duplicate data

Each data segment, and therefore, each data item is either a single instance or a repeating segment. Where a single instance segment is submitted on multiple occasions, in the same monthly submission, or over separate submissions (e.g. over two months), the data warehouse will retain all submissions but the reporting specification will make use of the appropriate data.

Submission of incomplete segments

Each data item is categorised as 'Required' (mandated) or 'Optional'. Where a record requires a mandated data item and it fails to provide it in the format specified, the entire file will be rejected.

4.3 CLASSIFICATION SYSTEMS

READ Codes

In order for GP systems to output the NHS Health Check dataset, READ Codes will have to be mapped to data item values. A mapping of Read Codes to the output NHS Health Check dataset will be supplied separately as part of the Supplier's Implementation Pack. This will include a list of proposed (by TRUD) and clinically assured (Clinical advisory panel) Read Code inclusions and exclusions. These will be supplied as part of the Supplier Implementation Pack.

Read codes have been appropriately aligned to existing QOF collections for the NHS Health Check dataset in order to reduce the burden on services and clarify the requirements to fulfil the standard requirements. The alignment of Read Codes applies to version 2 and 3. The developers of the dataset acknowledge that Read Codes may change and suggest that the supplied mapping information is used as "guidance".

4.4 TRAINING AND USER GUIDANCE

The dataset is an output based specification for data submission. Consequently, all providers of the NHS Health Check Programme will need to support the dataset through an electronic system. To ensure systems are used in the correct manner, system suppliers and / or providers of the NHS Health Check Programme will need to provide guidance for staff on how to use local systems.

5 MAINTENANCE

On successful implementation of the data set, maintenance and improvements will be transferred into the *Business Unit* responsible for ensuring that the Information Standard continues to reflect changes to policy, practice and/or underlying classifications thus remaining 'fit of purpose'. The scope of the maintenance process covers:

- management of change requests from users and stakeholders;
- specification of changes to the Dataset in response to changes in policy, practice, coding and classifications;
- managing the process for authorisation and approval of changes to the Dataset, including obtaining ISB Standard Change and Review of Central Returns (ROCR) approval
- undertaking periodic reviews of the Dataset including business/information requirements, data items, definitions and data values

The *Business Unit* will work closely with the Sponsor and DH Vascular Policy Team to prioritise newer requirements and any change requests received. Once agreed, these will be taken forward for development, testing and consultation prior to submission to ISB for formal approval, where a DSCN is subsequently issued.

Each change request should be supported by a valid business requirement (i.e. what change is needed, justification (i.e. why is it needed) and also any associated timescales).

Approved changes to the dataset will be communicated to dataset users, stakeholders and system suppliers through the publication of a Dataset Standards Change Notice (DSCN), published by the Information Standards Board (ISB). Changes and periodical updates will also be communicated through the NHS Information Centre's website, NHS Health Check dataset Leads mailing list and other appropriate forums, as per the programme's communications plan.

6 KNOWN ISSUES AND DISCUSSION FORUMS

Extraction of information from existing IT systems has been challenging. The developers and the implementation project team acknowledge these challenges in respect to the output requirements and clinical terminology (Read Codes) which are to be included or excluded from the dataset. Clarity in these areas is expected. Therefore, a separate communications plan has been developed to guide users and system suppliers on 'who' to best report all issues and challenges. A triage team will define where the query is to be best placed (technical, policy or business rules). In turn, the owner of the issue will be requested to respond appropriately in a timely manner in which the dataset can be implemented within its mandated time scales.

The implementation project currently holds a list of known risks and issues which are assured by ISB. In the event that a technical risk or issue needs to be raised by a supplier or service provider, this should be communicated to the NHS Information Centre by writing to enquiries@ic.nhs.uk. To help us redirect your questions to the most appropriate team and to speed up our response times, please include "NHS Health Check" in your subject line).

7 ENDNOTES

¹ <http://www.ons.gov.uk/about-statistics/geography/products/geog-products-area/names-codes/soa/index.html>

² http://www.dh.gov.uk/en/Publicationsandstatistics/Publications/PublicationsPolicyAndGuidance/DH_063812

³ <http://www.nice.org.uk/nicemedia/live/11564/33151/33151.pdf>

⁴ <http://www.nice.org.uk/nicemedia/live/12069/42117/42117.pdf>

⁵ <http://www.nice.org.uk/nicemedia/live/12069/42117/42117.pdf>

⁶ <http://www.nice.org.uk/nicemedia/live/10986/30111/30111.pdf>

^{vii} <http://www.isb.nhs.uk/library/all>

^{viii} <http://www.isb.nhs.uk/how>