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Female Genital Mutilation (FGM) Risk Indication System (RIS)

Local System Integration Requirements Specification

Document Management

Revision History

Version	Date	Summary of Changes
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1.1	11/09/2017	Uplift to include all requirements for FGM DMS 2 and Query Interactions
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Reviewers

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This document must be distributed to the following people:

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Astrid Fairclough	NHS England FGM Prevention Programme Manager	12/05/16	1.2

Glossary of Terms

Term / Abbreviation	What it stands for
Child	A person under 18 years of age
DH	Department of Health
DMS	Domain Message Specification
FGM	Female Genital Mutilation
FGM RIS	Female Genital Mutilation Risk Indication Service
FHIR	Fast Healthcare Interoperability Resources
NHS Digital	NHS Digital is the new name for the Health and Social Care Information Centre (HSCIC)
NHS Spine	The Spine is a collection of national applications, services and directories that support the NHS in the exchange of information across national and local NHS IT systems
ODS	Organisation Data Service
PDS	Personal Demographics Service
RBAC	Role Based Access Control
SCRa	Summary Care Record Application
The 'Core Service'	The FGM RIS central core component
TRUD	Technology Reference Data Update Distribution Site
Validated NHS number	A valid NHS Number is one that has the correct format and passes the NHS number check digit calculation.
Verified NHS number[1]	A verified NHS Number is one where the patient's identity has been cross-checked using demographic details on the Personal Demographics Service (PDS).

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The controlled copy of this document is maintained in the NHS Digital corporate network. Any copies of this document held outside of that area, in whatever format (e.g. paper, email attachment), are considered to have passed out of control and should be checked for currency and validity.

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[1] http://webarchive.nationalarchives.gov.uk/+/http://www.isb.nhs.uk/library/release/370

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1 Introduction

Female Genital Mutilation (FGM) is an illegal, extremely harmful practice and a form of child abuse and violence against women and girls. The Government is committed to preventing and ending this harmful practice which violates the rights of girls and women.

The Department of Health (DH) in partnership with NHS England has launched a FGM Prevention Programme which aims to improve the NHS' response to FGM, increase levels of safeguarding for girls at risk of FGM and provide better subsequent support and care for those that have undergone FGM.

Background

As part of the FGM Prevention Programme, a national FGM Risk Indication System (FGM RIS) has been developed. This is a national IT service and forms part of the national Spine architecture. It allows FGM risk information for girls under 18 to be stored and shared with relevant NHS healthcare professionals across departmental, organisational and geographical boundaries within England, supporting effective early intervention and ongoing safeguarding of girls potentially at risk of FGM.

Currently, the FGM risk information held within the FGM RIS (a FGM risk indicator and assessment date) can only be updated by authorised healthcare professionals using the Summary Care Record Application (SCRa). For healthcare professionals who do not regularly use SCRa this can be cumbersome and time consuming.

An Information Standard in October 2016[2] which mandates that applicable local NHS IT systems alert a user if a girl is recorded to be at potential risk of FGM on the FGM RIS. This Information Standard uses a 'view only' messaging capability and applies to all NHS Healthcare providers that provide care for children in England.

The FGM RIS has now extended the capability of local integration by including an update capability from local NHS IT systems. This allows healthcare professionals to create and delete FGM risk information from within their local NHS IT systems thereby avoiding the necessity to log into SCRa making it much less cumbersome to update the FGM RIS.

Purpose of Document

The purpose of this document is to provide NHS funded healthcare providers in England and their NHS IT systems suppliers with a clear description of the interoperability and functional requirements to access the Spine FGM RIS Service from local NHS IT systems to. **These requirements supersede those requirements specified in the FGM RIS Local System Integration Information Standard (SCCI2112) for view capability.**

2. Objective

The primary objective of allowing FGM risk information on the FGM RIS to be created or deleted from local NHS IT systems is to increase access and improve timeliness of FGM risk information to all relevant healthcare professionals thereby supporting the overall objectives of the wider DH FGM prevention programme.

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[2] SCCI2112 FGM Risk Indication System (FGM RIS) - Local System Integration:
http://content.digital.nhs.uk/isce/publication/SCCI2112

3. Scope

This document applies to NHS funded healthcare providers in England who provide any of the following services along with their NHS IT system suppliers but not excluding other service providers:

- Maternity Services
- Health Visiting
- School Nursing
- GP Services.

The FGM RIS local system integration interoperability requirements cover the ability to:

- Query the Spine FGM RIS

- Retrieve data from the Spine FGM RIS where a record exists

- Create a record on the Spine FGM RIS

- Delete a record on the Spine FGM RIS

Access to query the Spine FGM RIS can be accessed by an accredited NHS System with appropriate access rights. The create and delete functionality should typically be used by the following clinician types (note that this list is not meant to be exhaustive):

- GP's
- GP Practice Nurses
- Midwives
- Health Visitors
- School Nurses
- Local Safeguarding Leads

All NHS GP practices and their IT system suppliers should consider including this functionality (including 'Out of Hours' services).

NHS acute, community and mental health trusts should also consider which of their local NHS IT systems should incorporate the FGM RIS Create / Delete capability.

The Create / Delete functionality is only applicable to local NHS IT systems that are Spine compliant and use National Role Based Access Control (RBAC). The FGM RIS can only be updated by authorised healthcare professionals using Smartcards with the correct RBAC activity codes.

This document includes only the **functional business requirements** to enable access to FGM RIS Query/Response and Create / Delete integration capability within local NHS IT systems. The technical specifications for the interoperability interactions are defined FGM RIS Domain Message Specification v2.0 is defined in a separate specification.[3]

4 Assumptions and Pre-Requisites

- The FGM RIS is to be used in conjunction with local safeguarding frameworks and processes. Use of the FGM RIS will not change professional responsibilities in this regard.
- A girl is identified as being at potential risk of FGM by a clinician following completion of an FGM risk assessment, as detailed in the Department of Health's best practice guidance[4].

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[3] FGM RIS DMS https://data.developer.nhs.uk/fhir/fgm-v2-draft-d/Chapter.1.About/index.html

[4] DH Female Genital Mutilation Risk and Safeguarding: Guidance for Professionals':
https://www.gov.uk/government/publications/safeguarding-women-and-girls-at-risk-of-fgm

- A verified NHS number will be used in the NHS local IT system. A 'verified' NHS number means the patient's identity has been cross-checked using demographic details on the National Spine's Personal Demographics Service (PDS).

5 Requirements

The following are key points for NHS IT systems development:

- Local Spine compliant systems will be able to Query the FGM RIS for a Risk Indicator associated with a verified NHS number.
- Local Spine compliant NHS IT systems will be able to Create or Delete an FGM Risk Indicator on the spine FGM RIS associated with a verified NHS number.
- The FGM RIS only records that a current potential FGM risk exists and the date the FGM assessment was carried out. It does not store the level of risk nor any history of changes to the indicator
- FGM RIS information cannot be created for anyone over the age of 18. Note that if a patient has an FGM RIS record, then at age 18 this will automatically be logically deleted by the FGM RIS and will no longer be available to locally integrated systems.
- FGM RIS Interactions must not contain NHS numbers relating to males. The FGM RIS accepts the PDS gender types 'female', 'unknown' and indeterminate'.
- All interactions with the Spine FGM RIS will be fully audited within the Spine Core Service in line with existing Spine audit rules.

Keywords

The keywords MUST, SHOULD and MAY are to be interpreted as follows:

- **MUST** - means that the definition is an absolute requirement of the specification
- **SHOULD** - means that there may exist valid reasons in particular circumstances to ignore a particular item, but the full implications must be understood and carefully weighed before choosing a different course
- **MAY** - means that an item is truly optional.

5.1 Accessing the FGM RIS from a local NHS IT System

Ref	Description	Priority
FGMRIS001	The local NHS IT system **MUST** be Spine compliant and use smartcards with national RBAC to access the FGM RIS. The following RBAC activity codes are required: - B0370 "View Summary Health Records" – to Query and retrieve records - B0380 "Perform Detailed Health Record" – to Create and Delete records.	MUST

5.2 Querying a FGM Risk Indicator

Ref	Description	Priority
FGMRISQ001	The local NHS IT system **MUST** use compliant smartcards with RBAC, activity code B0370 "View Summary Health Records" to view the FGM RIS Information.	MUST

FGMRISQ002	The FGM RIS Query Interaction **MUST** contain a verified NHS number.	MUST
FGMRISQ003	The FGM RIS Query Interaction **MUST** contain an NHS number pertaining to a person under age 18.	MUST
FGMRISQ004	The FGM RIS Query Interaction **MUST NOT** contain an NHS number pertaining to a male.	MUST
FGMRISQ005	The process to query the FGM RIS service **MUST** be done systematically once the patient's demographics have been checked and their NHS number confirmed, without the need for the user to launch a separate query, ensuring there is minimal impact on the user.	MUST
FGMRISQ006	The local NHS IT system **MUST** undertake a FGM RIS Query for patients satisfying the above criteria, at the following 'Significant Events': - When a patient registers at a GP practice (once the patient's NHS number has been verified) - At the beginning of any episode of unscheduled care (where the patient can be identified and their NHS number can be verified) - At all clinical appointments including outpatient - Prior to in patient admission and discharge.	MUST
FGMRISQ007	The FGM RIS Query interaction is fully defined in the FGM RIS Domain Message Specification (DMS) 2. The FGM RIS DMS **MUST** be used to develop the FGM query Interaction. The Query Interaction **MUST** include the following: - The patient to whom the query applies (NHS number) - That it is a FGM RIS query - Who sent the request - When the FGM RIS query was sent - Where the FGM RIS query was requested from.	MUST

5.3 FGM Query Response Message

Ref	Description	Priority
FGMRISQR001	Where a current FGM Risk Indicator for a patient exists on FGM RIS, the applicable IT system **MUST** automatically alert the user to this[5]	MUST
FGMRISQR002	Where the FGM Query Response Interaction returns FGM Risk Indicator information from the FGM RIS there **MUST** be no further specific action required by a user in order to be alerted that the patient is at risk of FGM.	MUST
FGMRISQR003	The format of the FGM RIS Indicator alert message will be determined locally. However, it **MUST** include the FGM Risk assessment date and time (supplied in the FGM RIS Query Response Interaction) and it **MUST** be displayed within the correct patient's record ensuring that there can be no confusion as to which patient the FGM Risk alert message is associated. (See Footnote 5)	MUST

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[5] Female Genital Mutilation Risk Indication System (FGM RIS) Requirements Specification Guidance v1.0 – provides guidance on what information should be displayed to the user

FGMRISQR004	The FGM Risk alert message **MUST** be presented in such a way that it cannot be missed by a user.	MUST
FGMRISQR005	If the FGM RIS response interaction indicates that no risk exists for the patient, or where an error is returned, this information **MUST NOT** be a displayed to the user.	MUST
FGMRISQR006	Where the FGM RIS response interaction returns an error, there **MUST** be a mechanism for reporting the error to appropriate staff (e.g. The Information Technology department).	MUST
FGMRISQR007	The FGM RIS Response Interaction is fully defined in the FGM RIS Domain Message Specification (DMS) v2. The FGM RIS DMS **MUST** be used to develop and implement these requirements. The information in the FGM RIS Query Response Interaction **MUST** include the following : - Whether or not a current risk of FGM exists for the patient on FGM RIS - Whether an error has occurred and if so, details of the error - If an FGM risk exists for the patient, the date and time a risk assessment was undertaken - When the response was sent from Spine.	MUST
FGMRISQR008	Local systems **MUST NOT** permanently store the risk indicator data locally.	MUST NOT
FGMRISQR009	The retrieved FGM Risk Indicator information **MUST** be available to users with the appropriate access throughout the patient encounter e.g. a journey through a hospital encounter	MUST
FGMRISQ0010	Where the FGM Risk Indicator information has been cached for a patient encounter, it **MUST** be refreshed every 24hrs. This requires a new FGM RIS query against the FGM RIS.	MUST

5.4 Creating a FGM Risk Indicator

Ref	Description	Priority
FGMRISC001	The FGM RIS Create Request Interaction **MUST** only be sent once the patient's demographics have been checked and their NHS number verified.	MUST
FGMRISC002	The FGM RIS Create Request Interaction **MUST** only be sent after a FGM RIS query has been performed and a response received indicating no FGM RIS record exists for the patient.	MUST
FGMRISC003	The FGM RIS Create Request Interaction **MUST** contain a verified NHS number.	MUST
FGMRISC004	The NHS number **MUST** pertain to a person under age 18.	MUST
FGMRISC005	The NHS number **MUST NOT** pertain to a male. The NHS number should relate to a female however the PDS gender types 'unknown' and 'indeterminate' are valid.	MUST
FGMRISC006	The FGM RIS Create Request Interaction **MUST** contain the date of birth of the patient.	MUST
FGMRISC007	The date of birth sent in the FGM RIS Create Request Interaction **MUST** be a valid date of birth.	MUST
FGMRISC008	The FGM RIS Create Request Interaction **MUST** contain a valid and current GP Practice code.	MUST

FGMRISC009	If the patient is currently registered at a GP Practice and the GP practice is known, then the FGM RIS Create Request Interaction **MUST** contain the current GP Practice code of the patient. In this case, the GP Practice code **MUST** be a valid, 'active' ODS code. *Note: The GP Practice code is used for central reporting (aggregate statistics). This reports on girls at risk of FGM as indicated on the FGM RIS, broken down by their current GP Practice.*	MUST
FGMRISC010	If the patient is not currently registered at a GP practice then the default code 'V81997' **MUST** be sent in the FGM RIS Create Request Interaction [6]. *Note: This may commonly occur in Maternity Departments when a baby girl has been allocated an NHS number but has not yet been registered with a GP Practice. In these cases if the midwife has assessed the baby girl as at potential risk of FGM then they must create an indicator for the girl on the FGM RIS. When the baby is registered at a GP Practice the FGM RIS will be automatically updated with the new GP Practice code.*	MUST
FGMRISC011	If it is not known if the patient is currently registered with a GP practice or the patient's recorded GP Practice is invalid, inactive, or for any other reason the GP practice code is not known and cannot be ascertained, then the default code 'V81999' **MUST** be used in the FGM RIS Create Request Interaction.	MUST
FGMRISC012	The local IT system **SHOULD** provide an online link to the DH FGM Risk and Safeguarding: Guidance for Professionals: www.gov.uk/government/publications/safeguarding-women-and-girls-at-risk-of-fgm	SHOULD
FGMRISC013	The IT system must include a mandatory data entry field, which the user **MUST** update to confirm that a FGM safeguarding risk assessment has been carried out and the details recorded in the patient's local health record. This field **MUST** be updated before the FGM RIS Create Request Interaction is sent. An example message to elicit this confirmation is: "I have read and understood the FGM Risk and Safeguarding: Guidance for Professionals. I have carried out a FGM safeguarding risk assessment and identified that this girl is potentially at risk of FGM. I have recorded the FGM safeguarding risk assessment in the girl's local healthcare record." Confirm (Y) [ ] *Note: The confirmation may be entered by a designated person/administrator/ safeguarding lead on behalf of the clinician that carried out the risk assessment.*	MUST
FGMRISC014	The FGM RIS Create Request Interaction **MUST** contain a valid risk assessment date.	MUST
FGMRISC015	The local system **MUST** include a mandatory data entry field for the user to create a FGM safeguarding risk assessment date. This **MUST** be a valid date and **MUST NOT** be in the future.	MUST
FGMRISC016	The FGM RIS Create Request Interaction is fully defined in the FGM RIS Domain Message Specification (DMS). The FGM RIS DMS **MUST** be used to develop the FGM RIS Create Request Interaction. The FGM RIS Create Request Interaction **MUST** include the following: • The patient to whom the FGM RIS Create Request applies (NHS number) • The FGM risk assessment date	MUST

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[6] Note: For default GP codes see the NHS Data Dictionary at:

http://www.datadictionary.nhs.uk/web_site_content/supporting_information/organisation_data_service_default_codes.asp?shownav=1?query=%22V81997%22&rank=100&shownav=1

	• The patient's current registered GP Practice • The patient's date of birth • That it is a FGM RIS Create Request Interaction • Who sent the FGM RIS Create Request • When the FGM RIS Create Request was sent • Where the FGM RIS Create Request was requested from.	

5.5 FGM Create Response Message

Ref	Description	Priority
FGMRISCR001	The FGM RIS Create Response Interaction is fully defined in the FGM RIS DMS. The FGM RIS DMS must be used to develop the FGM Create Response Interaction The information in the FGM Create Response Interaction **MUST** include the following : • Whether the FGM RIS Create Request was successful • Whether the FGM RIS Create Request failed and, if so, the error response • The patient to whom the FGM RIS Create Response applies (NHS number) • That it is a FGM RIS Create Response Interaction • When the FGM RIS Create Response Interaction was sent.	MUST
FGMRISCR002	If a successful Create Response Interaction is received then a notification indicating the FGM risk indicator has been successfully created in the Spine FGM RIS **MUST** be displayed back to the user.	MUST
FGMRISCR003	If the Create Response Interaction returns an error then an error notification **MUST** be displayed giving details of the error and, if appropriate, any corrective action to be taken by the user. It **MUST** be clear that the FGM risk indicator has not been added to the patient's record. *Note: All error responses are contained in the FGM RIS Domain Message Specification (DMS). They are also documented in Appendix B.*	MUST

5.6 Deleting a FGM risk indicator

Ref	Description	Priority
FGMRISD001	The FGM RIS Delete Request Interaction **MUST** only be sent once the patient's demographics have been checked and their NHS number verified.	MUST
FGMRISD002	The FGM RIS Delete Request Interaction **MUST** only be sent after a FGM RIS query has been performed and a response received indicating that a FGM RIS record exists for the patient.	MUST
FGMRISD003	A user with the appropriate access rights **MUST** be able to select an option to delete an FGM indicator from a patient's record only after an FGM RIS query Interaction has been performed for the patient and an alert message has been displayed to the user.	MUST
FGMRISD004	The FGM RIS Delete Request Interaction **MUST** contain a verified NHS number.	MUST
FGMRISD005	Once the user selects to delete the FGM Risk indicator from the patient's record on the FGM RIS. The local system **MUST** display a screen showing the patient's demographic details along with the FGM Risk	MUST

	Indicator details. These include the FGM risk assessment date and a list of three options for the reason for removal (see FGMRISD007 below). The local system **MUST** also display a reminder of the DH FGM Risk and Safeguarding: Guidance for Professionals and, where possible, an online link to it: www.gov.uk/government/publications/safeguarding-women-and-girls-at-risk-of-fgm.	
FGMRISD006	The FGM RIS Delete Request Interaction **MUST** contain a coded reason for the removal of the FGM Risk Indicator. These codes are defined in the FGM RIS DMS v2	MUST
FGMRISD007	Before the user confirms deletion of the FGM Risk Indicator, the user **MUST** specify the reason for the deletion of the FGM Risk Indicator. The user **MUST** select a reason from the following options and only these options. • The at-risk indicator was created inadvertently or incorrectly • The patient is no longer considered to be potentially at risk of FGM • The patient has had FGM *Note: The local NHS IT system may allow the user to enter more information regarding the removal of the indicator to be stored locally.*	MUST
FGMRISD008	Once a user has selected to delete the FGM Risk Indicator, then the local system MUST respond with a confirmation request to the user e.g. A 'Confirm Delete' entry field must be available for the user to confirm they wish to delete the FGM Risk indicator.	MUST
FGMRISD009	The FGM RIS Delete Request Interaction is fully defined in the FGM RIS DMS. The FGM RIS DMS **MUST** be used to develop the FGM RIS Delete Request Interaction. The information in the FGM RIS Delete Request must include the following: • The patient to whom the FGM RIS Delete Request applies (NHS number) • That it is a FGM RIS Delete Request Interaction • Who sent the FGM RIS Delete Request • The coded reason for deleting the FGM Risk Indicator • When the FGM RIS Delete Request was sent • Where the FGM RIS Delete Request was requested from.	MUST

5.7 FGM Delete Response Message

| Ref	Description	Priority
FGMRISDR001	The FGM RIS Delete Response Interaction is fully defined in the FGM RIS DMS. The FGM RIS DMS **MUST** be used to develop the FGM RIS Delete Response Interaction. The information in the FGM Delete Response must include the following: • Whether the FGM RIS Delete Request was successful • Whether the FGM RIS Delete Request failed and, if so, the error response • The patient to whom the FGM RIS Delete Response applies (NHS number) • That it is a FGM RIS Delete Response Interaction • When the FGM RIS Delete Response Interaction was sent.	MUST

FGMRISDR002	Where a successful Delete Response Interaction is received from the FGM RIS is received then a notification indicating the FGM risk information has been deleted from the patient's record **MUST** be displayed back to the user.	MUST
FGMRISDR003	Where an error response is received then a notification **MUST** be displayed to the user, giving details of the error and, if appropriate, any corrective action to be taken by the user. It **MUST** be clear to the user that the FGM risk indicator has not been deleted from the patient's record. *Note: All error responses are contained in the FGM RIS DMS. They are also documented in Appendix B.*	MUST

6 Local Auditing

Local NHS IT systems MUST keep a clear record of all Interactions submitted to, and responses from, FGM RIS in accordance with existing local auditing processes. This is necessary to satisfy any Subject Access Requests (SARs) received by the organisation.
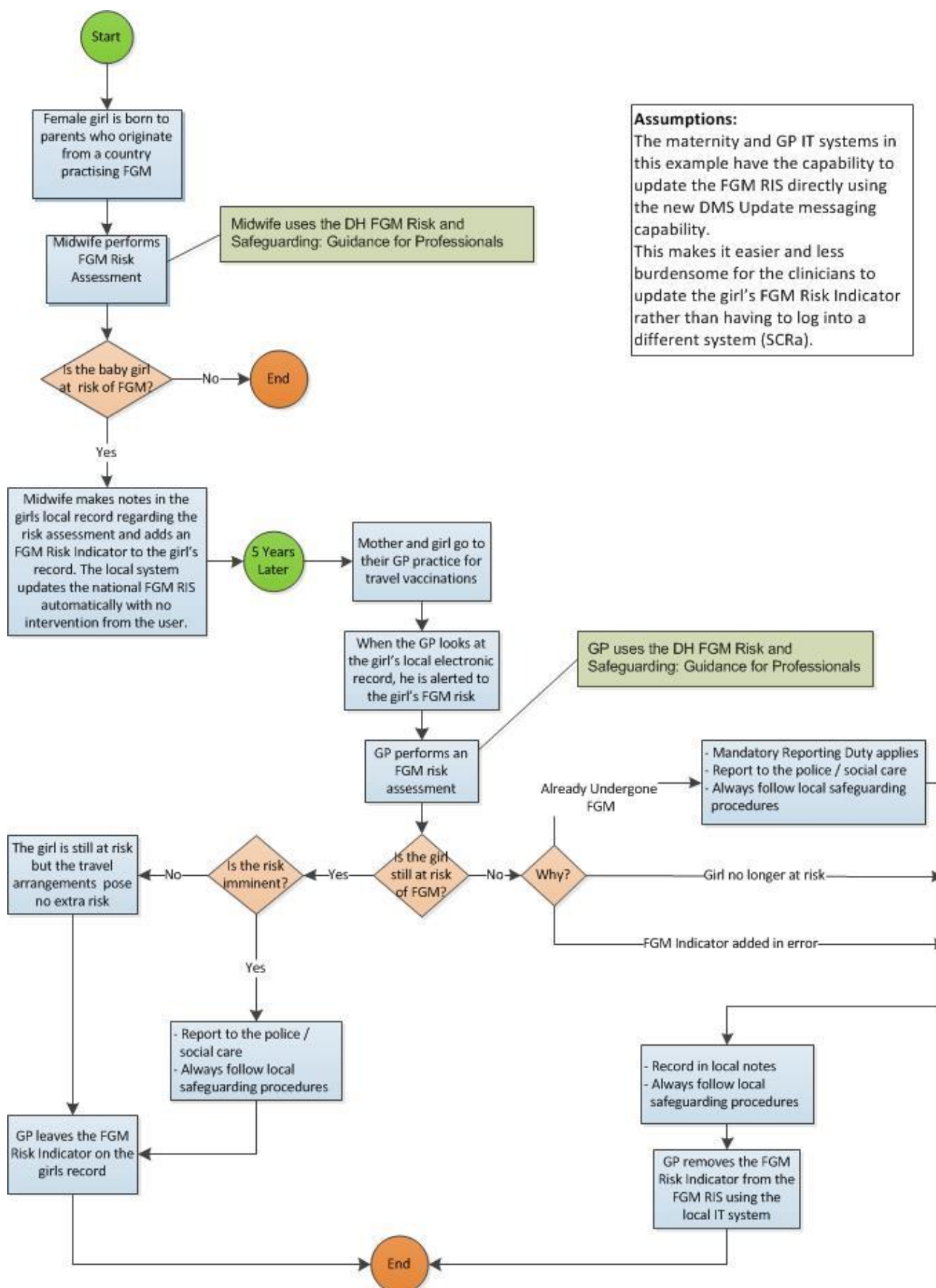
Note that all FGM RIS Interactions are centrally audited by Spine.

7 Activity Diagram
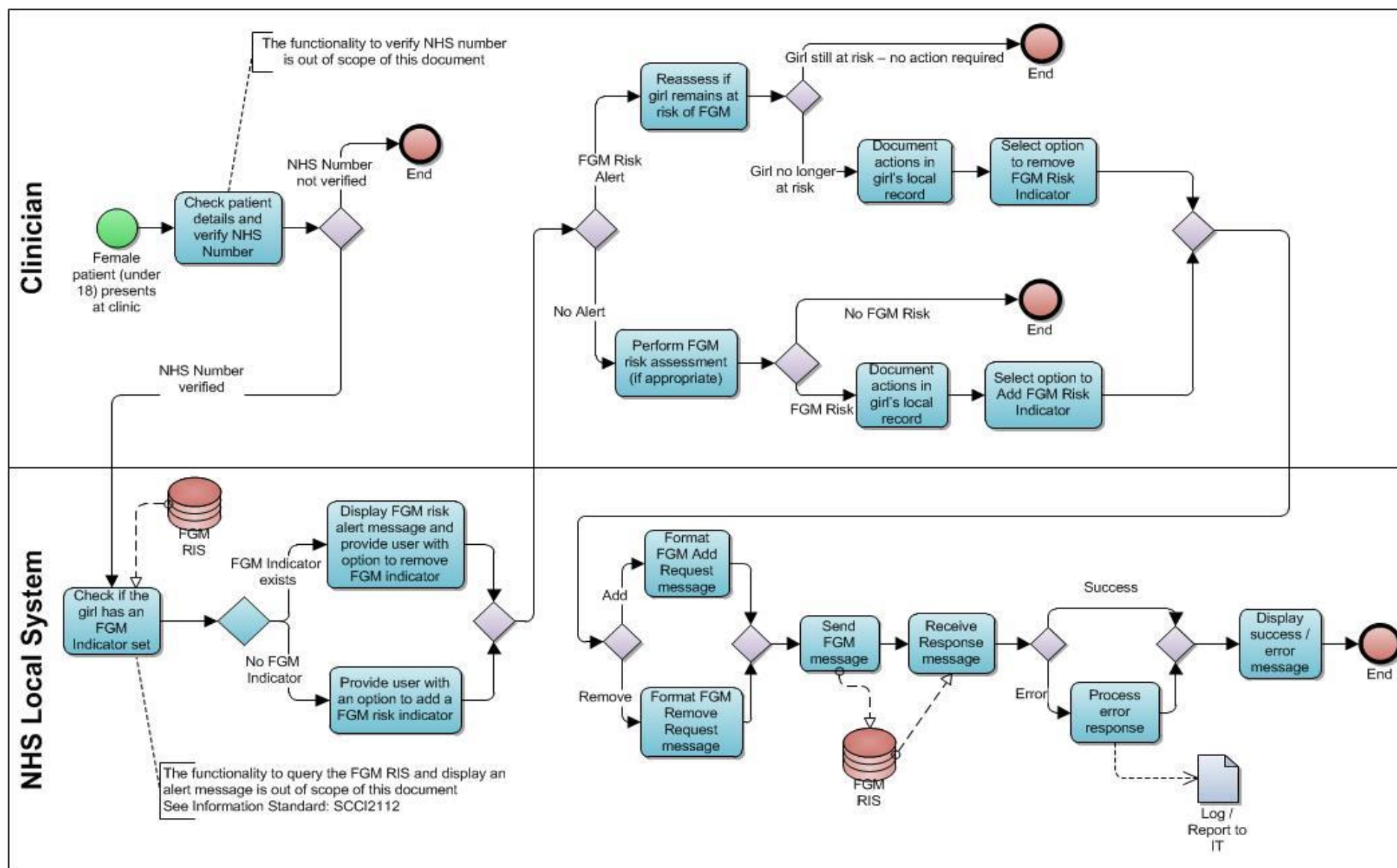
Appendix A: Example of using the FGM RIS in the NHS

Appendix B: Error Table

1. Spine 2 DMS V2.0 error codes and HTTPs mappings

HTTP Code	issue-severity	issue-type	Details.Code	Details.Display
404	error	not-found	NO_RECORD_FOUND	No Record Found
400	error	invalid	INVALID_NHS_NUMBER	Invalid NHS number
400	error	invalid	PATIENT_OVER_18	Patient is over 18
400	error	invalid	INVALID_PARAMETER	Invalid parameter
422	warning	informational	FLAG_ALREADY_SET	Flag value was already set
400	error	structure	MESSAGE_NOT_WELL_FORMED	Message not well formed
403	error	forbidden	ASID_CHECK_FAILED	The sender or receiver's ASID is not authorised for this interaction

2. Create and Delete HTTP status codes:

HTTP Code				
200	OK			FGM record deleted
201	Created			FGM record created

Appendix C: Requirements Traceability Matrix (RTM)

FGM RIS Req
Traceability Matrix v.