

Data Protection Impact Assessment (DPIA)

This Data Protection Impact assessment (DPIA) template is designed to help ensure 'privacy by design', to identify the most effective way to comply with data protection law, and to protect the rights and freedoms of individuals, be they patients, staff or members of the public. This should assist in identifying the risks of processing and sharing personal data, and in creating solutions to reduce them.

Once complete, or if you have any questions, please contact the Information Governance Team: information.governance@ouh.nhs.uk.

1. Project/activity details

Project title							
Oxfordshire Care Summary platform upgrade to Cerner Health Information Exchange (HIE)							
Project sponsors	David Walliker/ Gareth Kenwort Health Program			Lead organisation	Oxford University Hospitals NHS Foundation Trust and Oxfordshire CCG		
Project lead	Stephen Hill			Division	Corporate		
Telephone	07748 180 242			Directorate	Digital		
Email	stephen.hill13@	nhs.net		Proposed start date	April 2020		
Will you be using personal data? *		If no personal data will be collected or processed the DPIA is complete.					

¹ Personal data means any information relating to an identified or identifiable natural person ('data subject'). An identifiable natural person is a living person who can be identified, directly or indirectly, in particular by reference to an identifier such as a name, an identification number, location data, an online identifier or to one or more factors specific to the physical, physiological, genetic, mental, economic, cultural or social identity of that natural person.



2. Project purpose and description

What is the purpose of the proposed project, why is it necessary, and how will it be achieved?

The Oxfordshire Care Summary (OCS) is a single electronic view of specific, up-to-date, clinical information from general practice and Oxford University Hospitals NHS Foundation Trust records used to support patient care in NHS organisations in Oxfordshire.

Health Information Exchange (HIE) is a Cerner-provided replacement for the OCS. HIE will access data from several sources including primary care, OUH, and mental health services (Oxford Health) (phase 2). This project is the first step towards a local integrated health record (The Oxfordshire Care Record) which will be based around the Cerner Millennium platform.

Users will access HIE either directly through their usual clinical systems (e.g. Millennium EPR at OUH, EMIS for general practice), or directly via a web portal via a secure N3/HSCN network connection. HIE is a 'read only' source of health records. It does not provide facilities to alter the content of the source patient records. Updates, amendments and overlays depend on changes being recorded on the originating system, and those changes being made available to the HIE.

HIE records originating from multiple systems are linked using the unique patient identifiers assigned by the system that originated the record. The NHS number and the OUH medical record number will be used to match records in conjunction with key demographic elements, following NHS Digital recommendations.

HIE implementation will be phased, ultimately providing access to users across Oxfordshire. Phase 1 will provide access for OUH, primary care, and a small number of Oxford Health NHS Foundation Trust users from April 2020. The DPIA will be reviewed again for phase 2 of the project.

HIE is a necessary step towards the provision of a secure integrated record across the health economy.

3. Data requirements

What personal data is required? – Provide details of each data field used, and justification for each, e.g. name, DoB, MRN, email address etc. Add additional rows as necessary, or for large numbers of data fields, please summarise here and provide full details on a separate sheet.

Data field Justification

OUH/OH: Patient demographics, admission, discharge transfer details. Reports of investigations, clinical correspondence and other necessary clinical information.

To support the continuity of direct care between care providers

EMIS: demographics, encounters and clinical information

Summarise the proposed system/use of data—*How will the data be used?*

For phase 1 data will only used for direct (individual) patient care. Providing clinicians with data from multiple sources will enhance care, save time and ensures compliance with the duty to share (Caldicott Principle 7).



Is the proposed system/data use reliant on an existing system/data use? – $e.g.$ adding new data fields to an existing survey collecting patient data. Yes \square No \square (If Yes, please give details below. ²).
HIE replaces the existing mechanism underpinning the Oxfordshire Care Summary (OCS) and uses
essentially the same data but handled in a different way. Primary care data from EMIS will continue to be
accessible via the Medical Interoperability Gateway (MIG), supplied by Healthcare Gateway Ltd. (HGL). Data
from OUH will be made available from Cerner Millennium and the OUH integration engine.
Whose data will be processed? –Staff, patients, members of the public etc;
Staff
Patients 🖂
Members of the public
Other
How many individuals' data will be involved?
•
1-50
50-100
100-300
300-500 □ 10,000+ ⊠
From where will data be obtained, and how?
Data will be collected from primary care and OUH systems
Will any of the data be shared with a third party? Yes ⊠ No ☐ (If Yes, please give details below.³)
Data will be shared between OUH and GP Practices, to be available to clinical staff providing care, and non-
clinical staff supporting the provision of direct care services. The HIE platform is supplied by Cerner UK,
acting as a data processor on behalf of OUH
acting as a data processor on behalf of OOH
Has the third party ever received any decisions against it from a supervisory body regarding data
breaches? Yes \square No \boxtimes (If Yes, please provide details below)

4. Compliance with Caldicott principles⁴

No.	Principle	How will the project comply?
1	Iustify the purpose(s) Every proposed use or transfer of personal confidential data within or from an organisation should be clearly defined, scrutinised and documented, with continuing uses regularly reviewed, by an appropriate guardian.	The purpose of sharing the data is to support and enhance direct (individual) patient care.

² A data sharing or data processing agreement must be approved by Information Governance and in place before data is passed to other organisations. Contact Information Governance for details.

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⁴ The Caldicott Principles originate from the *Report on the Review of Patient-Identifiable Data (1997)* by a committee chaired by Dame Fiona Caldicott for the Department of Health. They have been widely accepted and adopted as the foundation for the safe and confidential handling of patient data. A second report, *Information: To share or not to share? The Information Governance Review (2013)*, introduced a seventh principle regarding the duty to share.



No.	Principle	How will the project comply?
2	Don't use personal confidential data unless it is absolutely necessary Personal confidential data items should not be included unless it is essential for the specified purpose(s) of that flow. The need for patients to be identified should be considered at each stage of satisfying the purpose(s).	Patients must be correctly identified for safe delivery of care
3	Use the minimum necessary personal confidential data Where use of personal confidential data is considered to be essential, the inclusion of each individual item of data should be considered and justified so that the minimum amount of personal confidential data is transferred or accessible as is necessary for a given function to be carried out.	The data involved is in routine use. Making it available to other care providers is necessary for safe and effective care.
4	Access to personal confidential data should be on a strict need-to-know basis Only those individuals who need access to personal confidential data should have access to it, and they should only have access to the data items that they need to see. This may mean introducing access controls or splitting data flows where one data flow is used for several purposes.	Use of HIE will be restricted to those using its source systems, which in turn have access controls. Every access is recorded andcan be audited.
5	Everyone with access to personal confidential data should be aware of their responsibilities. Action should be taken to ensure that those handling personal confidential data — both clinical and non-clinical staff — are made fully aware of their responsibilities and obligations to respect patient confidentiality.	The legal basis for sharing is described in section 5 below.
6	Comply with the law Every use of personal confidential data must be lawful. Someone in each organisation handling personal confidential data should be responsible for ensuring that the organisation complies with legal requirements.	All users are required to be up to date with the basic national data security and protection annual training.
7	The duty to share information can be as important as the duty to protect patient confidentiality Health and social care professionals should have the confidence to share information in the best interests of their patients within the framework set out by these principles.	Fully supported.



5. Legal basis

Every use of personal data must be lawful and must comply with the Data Protection Act (2018)/GDPR and satisfy the common law duty of confidentiality. Please note that collection, storage, anonymisation and sharing are separate processes, each of which requires a legal basis. Use this section to record the legal basis for acquiring any personal data. If a different legal basis is appropriate for storage, anonymisation or sharing, this should be described in the relevant sections (6 & 7).

Data Protection Act (2018)/GDPR Select one legal basis from GDPR Article 6.	For patie	nt data, select also <i>one</i> legal basis from <i>GDPR Articl</i>	e 9.
GDPR Article 6		GDPR Article 9	
1(a) Consent		2(a) Explicit consent	
1(b) Necessary for the performance of a contract to which the data subject is or about to be party		2(b) Necessary in connection with employment	
1(c) Necessary for compliance with legal obligation		2(c) Necessary to protect the vital interests of the data subject	
1(d) Necessary to protect the vital interest of the data subject	ts \square	2(d) Legitimate interest	
1(e) Necessary for performance of a task carried out in public interest or in exercise of official authority	e 🗵	2(e) The data subject has manifestly made the information public	
1(f) Legitimate interest (does not apply fo public authorities)	r 🗆	2(f) Necessary for establishment, exercise or defence of legal claims	
		2(g) Necessary for reasons of substantial public interest	
		2(h) Necessary for provision of health and/or social care, including preventative or occupational medicine	\boxtimes
		2(i) Necessary for reasons of public interest in the area of public health	
		2(j) Necessary for archiving purposes in the public interest, scientific or historical research purposes.	
How will the common law duty of confide	entiality b	e satisfied? ⁵	
Consent 🗵		Legal obligation	
Public interest		Section 251 approval	
Please explain reasons for the above cho	ice:		
· ·		on will be shared with others delivering care to patie tion in privacy notices by each organisation.	ents;

⁵ The common law duty of confidentiality is separate from and in addition to data protection legislation (DPA, GDPR). It requires that information given in confidence must not be shared with a third party without the individuals' valid consent or some other legal basis such as overriding public interest (requires a formal public interest test), statutory basis or court order. Where obtaining consent is impracticable, the Confidentiality Advisory Group of the Health Research Authority may set aside this requirement under Section 251 of the National Health Service Act 2006 and its current Regulations, the Health Service (Control of Patient Information) Regulations 2002. Under common law, consent may be implied by virtue of the patient freely giving the information with the reasonable expectations that privacy is respected but the information will be shared with other staff providing their direct (personal) care. If in doubt, please discuss with the Caldicott Guardian.



6. Data storage and system security

Where will the information be stored? Where information provide assurance documents for review (see below).		is being stored outside the Trust you will need	to
Within OUH		Within EEA	
Within the UK		Within EEA – cloud-based service	
Within the UK – cloud based		Outside EEA	
Within the UK – cloud based within the HSCN network ⁶	\boxtimes	Outside EEA – cloud-based service	
How information will be stored? (Describe physical of	and cyb	er security arrangements, including)	
Primary Care – EMIS via MIG			
A subset of the data collected on the GP EMIS system Interoperability Gateway (MIG); no EMIS data is store			
However, HIEcaptures the landing page of the record of the patient. This screen shot is then stored within purposes.	_	-	
Acute – Cerner Millennium			
A subset of the data collected on the OUHFT Cerner where it stored within a secured database.	Millenr	ium EPR is propagated via HL7 messaging to H	HIE
Who is the Information Asset Owner? ⁷ (Give name of	and job	titles and details of relevant training)	
David Walliker Chief Digital and Partnership Officer (CDPO)	DUH	
Who is the Information Asset Manager? ⁷ (Give name	e and jo	b titles and details of relevant training)	
Larry Murphy Interim Head of Digital (OUH)			
Who will have access to the data? (Give names and	iob title	es and details of relevant training)	
Available to all users of HIE. Users are expected to hat training.	ive con	pleted mandatory data security and protection	on
Will any of the data be accessible from outside the details below, including security arrangements)	Trust's	network? Yes ⊠ No □ (If Yes, please give	e full
Data transmission is encrypted, and access controlled Software as a Service (SaaS) within its UK-based priva			
Do you have a disaster recovery/business continuity If No, please explain below why not and/or discuss w required.)			-
The Cerner UK Business Continuity Plan has been rev	: aal		

⁶ The Health and Social Care Network (HSCN) replaces the NHS N3 network

⁷ See the Trust's Information Governance Framework for details of information asset owners and managers.



7. External data transfer

Will data be transferr	ed outside OUH?					
No		Yes – outside UK, within the EEA				
Yes – Within the UK	\boxtimes	Yes – outside the EEA				
To whom and where the country.)	will the data be transferre	d? (Please give details. If outside the	e EEA, please also give			
HIE provides users wit	h access to data from exist	ing systems: it is not a storage repo	sitory.			
What is the proposed method for secure data transfer? (Give full details including encryption method used, and whether the data will be anonymised or pseudonymised.)						
All data transfers are via secure, TLS-encrypted links.						
What is the specific legal basis for transferring data to a third party/outside OUH?						
	legal basis as Section 5 abo	ove, but could be different				
As above (Section 5)						

8. Data accuracy and retention

Who will be responsible for data accuracy? Job role, organisation. HIE does not use or generate new data. It draws on	How will accuracy of the data be assured? What processes are in place to assure good data quality? N/A
existing sources. The responsibility for data accuracy and quality rests with the information asset owner and owning organisation.	
Who will retain and hold this data? Job role, organisation.	For how long will the data be retained? This should align with the Trust's retention schedule.
Cerner UK will on demand access and temporarily store data from originating sources and display to the requesting user.	For the duration of the user interaction. A snapshot of the data accessed will be retained separately and securely for audit purposes.
Who will be responsible for secure disposal of data? Job role, organisation. Cerner UK	How will data be disposed of securely? What method(s) will be used to destroy the data securely?



9. Transparency

The Trust has a duty to inform individuals how their data is being processed. In assessing new uses of data, it is often helpful to consult with groups of individuals whose data may be involved, to identify any concerns or risks with the proposed use of data.

Who will you	be consulting with?			
Patients		Staff		
The public		No-one	\boxtimes	
How were in	dividuals consulted? (e.g. meetings, su	rveys, foci	us groups	s, patient panels, professionals.)
N/A				
If consultatio	n has not taken place and is not planr	ed, please	e explain	why
	ew use of data: the HIE draws on exist ng it available to all in those settings w	_	-	
	ultation was carried out ahead of the c nes 'not to share' will continue to be re		fordshire	Care Summary project. Current OCS
What concern	ns have been raised and how are thes	e being ad	dressed	? (e.g. invasion of privacy, risks etc.)
N/A				
10. Data su	bjects' rights and opt-outs			
How will data	subjects be informed about the proc	essing, an	d what ii	nformation has or will be provided?
Privacy notice	es and professional conversations.			
Will data sub	jects be able to opt-out of the data us	e at any ti	me?	Yes ⊠ No □
	nat the National Data Opt out applies t arch 2020 you must not use data from		•	ng of data other than direct/individual as opted out unless it is for their direct



11. Risk assessment

The level of risk is scored out of 25. A score of 0-5 is attributed to both the impact on the rights and freedoms of the individual, and the likelihood of those rights and freedoms being compromised. The two scores are then multiplied to create the composite risk score using the risk matrix below. This should be recalculated in the final columns to take into account proposed solutions/actions.

Risk	Description	Risk score see matrix below		ix	Proposed solutions/actions		vised F score e matr below	
		Impact	Likelihood	Risk Rating		Impact	Likelihood	Risk Rating
1	System vulnerable to external attack	5	3	15	Cerner UK has Cyber Essentials + accreditation	5	1	5
2	Users may access records of patients with whom they do not have a legitimate access	3	3	9	Users must have had data security and protection training	3	2	6
3	Patients' expressed wishes regarding confidentiality not observed	3	3	9	Opt-out codes and privacy settings in EMIS. However suppression of individual data items is not currently possible.	6	2	6

Risk matrix

	Impact (How bad it may be)		Likelihood (The chance it may occur)			Risk Rating					
						1	2	3	4	5	
5	Catastrophic	5	Almost certain		5	5	10	15	20	25	
4	Major	4	Likely	CONS	4	4	8	12	16	20	
3	Moderate	3	Possible	SEQU	3	3	6	9	12	15	
2	Minor	2	Unlikely	CONSEQUENCE	2	2	4	6	8	10	
1	Negligible	1	Rare		1	1	2	3	4	5	

Likelihood (L) x Impact (I) = TOTAL RISK RATING

Total Risk Rating	Risk
1-3	Low
4-6	Moderate
8-12	High
15-25	Extreme



12. Review

	Name	Date
IG review completed by:	Dr Christopher Bunch: Data Protection Officer for Oxford University Hospitals NHS Foundation Trust	6th April, 2020
Next review due (normally annually):		30 th September 2020

A DPIA is a dynamic process and the form should be updated if any circumstances change, and reviewed at least annually.

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