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30 November 2022



Accurx DPIA Template: Patient Initiated Care

This template closely follows the ICO's example of how you can record your DPIA process and outcome. It follows the process set out in the ICO's DPIA guidance, and should be read alongside that guidance and the [criteria for an acceptable DPIA](#) set out in European guidelines on DPIAs.

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Submitting Controller Details

Name of controller	
Subject/title of DPO	
Name of controller contact / DPO (delete as appropriate)	

Step 1: Identify the need for a DPIA

Summarise why you identified the need for a DPIA.

The aim of the Accurx platform is to improve communications between healthcare staff and patients to improve outcomes and productivity. The patient-initiated messaging feature is designed to enable patients to request and receive support relating to their healthcare concerns.

The need for a DPIA is the processing, on a large scale, of special categories of data for the use of the Accurx platform to exchange and store messages pertaining to patients and medical staff.

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Step 2: Describe the processing

Describe the nature of the processing: how will you collect, use, store and delete data? What is the source of the data? Will you be sharing data with anyone?

The GP practice is the data controller, and Accurx the data processor, as per Accurx's [Data Processing Agreement](#).

The Accurx patient-initiated messaging feature allows patients to request and receive support relating to their healthcare concerns. They can make requests to the relevant Healthcare Organisation, at a time convenient to them, for support in relation to their healthcare conditions.

Provision of information by the patient allows the Health or Care Professional dealing with the request to triage requests effectively and make informed decisions about how best to respond - the response could be information or advice, an offer of a consultation, provision of a repeat prescription, test results, or a referral to other services.

This enables the healthcare professional to have an informed view of the patient's current circumstances before deciding to proceed with either (1) a message follow-up, (2) a phone call follow-up, (3) a video-call follow up or (4) an email.

Patient Triage

- Patient is directed to the Accurx triage from either their GP website or within the NHS App on their smartphone.
- From the GP website:
 - The patient is directed to fill out a number of fields, including why they are making the request, with the option to attach pictures
 - Before they can submit their request, they must enter: ~dob, ~surname, ~forename, gender, ~postcode, plus contact details including phone number
 - The number the patient puts in will be sent a secure code via SMS, and the patient is asked to enter this code into the webpage before proceeding. If they cannot do this, they can still submit their request. The patient is not given information as to whether the practice 'recognises' them / as to whether their details are correct
- From the NHS App:
 - The patient opens the NHS APP and logs in with their NHS Login
 - They head to the "Advice" tab, select "Ask you GP for medical advice" and enter the description of their concerns, with the ability to attach a picture for more context, as well as confirm their demographic details
 - They can select how they would like to be contacted and when, with a final review of the whole request before submission
 - The patient can also submit an admin request to the practice via the "Messages" section of the app
 - Once the request is submitted, the NHS App will automatically forward all relevant details to the Accurx platform
- The practice automatically uses all the information received to search for the patient on PDS
- Practice is able to view all incoming requests, including those which have not been matched to a patient on PDS
- Any match(es) are displayed to the practice staff as either exact or suggested or unmatched

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- IF the submitted information matches a single patient, AND the contact number submitted is consistent with that on PDS, AND the patient has successfully submitted the secure code sent to this number (i.e. they have passed a two factor authentication process), it's an exact match, and the patient's request will be displayed to the practice as under the patient's information/ record.
- IF the submitted information matches a single patient but the submitted contact number does not match that on PDS, OR if the submitted information and contact number do match to a unique patient, but they have not successfully entered the secure code sent to the contact number listed on PDS, it's a suggested match, and displayed to the practice as such. The practice will be prompted to verify the identity of the patient before proceeding with their request.
- IF the submitted information does not match a single patient (i.e. it matches multiple), OR no patient is found on PDS using the submitted information, it's unmatched, and displayed to the practice as such. The practice will be prompted to verify the identity of the patient before proceeding with their request.

Self-Book

- Alongside the Patient Triage feature is Self-book, this feature allows patients to book their own telephone appointments. [This article](#) explains the user flow of self-book.
- No additional data is needed from the patient for this feature other than what is collected when they submit a patient triage request. To access the link and book an appointment patients will need to confirm their date of birth.
- Accurx searches for available slots in the practice's appointment books and makes these visible for patients to book into.

PIFU (Patient Initiated Follow Up)

- The PIFU feature allows clinicians to send an online link to their patients who are placed on a PIFU pathway. Patients who are sent this link can use it to get in touch directly with the service at a time that is convenient to them via an online form, in case they have a query associated with their condition (e.g. a flare up of symptoms or admin request).
- Patient requests arrive directly in a team's shared message inbox, where approved team members can view the message.
- Information given by the patient in their request allows the healthcare professional dealing with the request to triage requests effectively and make informed decisions about how best to respond
- Responses could be information or advice, an offer of a consultation, provision of a repeat prescription, test results etc.

Describe the scope of the processing: what is the nature of the data, and does it include special category or criminal offence data? How much data will you be collecting and using? How often? How long will you keep it? How many individuals are affected? What geographical area does it cover?

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The data processed by Accurx in this case is:

- Patient data (typically name, identifiers, contact details [mobile], demographic data [DoB; gender], message content (including images), documents/notes, survey responses, metadata)

Patients' data is generally kept in line with the [Records Management Code of Practice for Health and Social Care 2016](#). However, Accurx would delete the data earlier than suggested by this code if they were informed that the condition of Article 9(3) GDPR and s. 11(1) Data Protection Act 2018 no longer applies.

Accurx retains the data pertaining to their clients' and prospects' medical teams' members and to non-medical personnel actually or potentially involved in purchasing their services for as long as necessary for the purpose of providing the service, to pursue a sales transaction, or to market their services, subject to the right to object or not to be subject to direct marketing. Healthcare professionals may contact Accurx (support@Accurx.com) to request that Accurx delete the data held about them.

Data may be shared with sub-processors such as cloud services used for Accurx's own storage, communications, security, engineering, and similar purposes. Accurx's sub-processors operate based on Article 28 GDPR-compliant agreements. Accurx data is encrypted in transit via HTTPS and encrypted at rest via TDE. Accurx follow the Microsoft Azure Security and Compliant Blueprint for Platform-as-a-Service web applications, specifically designed for NHS services. See [here](#) and [here](#) for further information.

Describe the context of the processing: what is the nature of your relationship with the individuals? How much control will they have? Would they expect you to use their data in this way? Do they include children or other vulnerable groups? Are there prior concerns over this type of processing or security flaws? Is it novel in any way? What is the current state of technology in this area? Are there any current issues of public concern that you should factor in? Are you signed up to any approved code of conduct or certification scheme (once any have been approved)?

The nature of the relationships with the individual is that of health and social care staff providing direct care to patients, who will inevitably sometimes be children and part of other vulnerable groups.

The patient has complete control over how much or how little information they want to provide to the healthcare professional, since the data that is being used to contact them was manually input into the form by the patient.

The patient consents by clicking on the link that submits their message to the healthcare professional. By submitting a request the expectation is for them to be contacted by a healthcare professional with next steps, which in this case is a solicited booking.

Crucially, they have the right to object by simply not submitting a message to the healthcare professional.

Prior to using any Accurx product and therefore accessing the patient's response, the healthcare professional must agree to an acceptable use policy.

The nature of the relationship with the individuals participating in patient initiated message is that of a healthcare professional providing direct care to the patient.

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Describe the purposes of the processing: what do you want to achieve? What is the intended effect on individuals? What are the benefits of the processing – for you, and more broadly?
The purpose of using the Accurx platform is for healthcare staff to communicate with patients (and each other regarding patients) for the provision of healthcare or social care services.

Step 3: Consultation process
Consider how to consult with relevant stakeholders: describe when and how you will seek individuals’ views – or justify why it’s not appropriate to do so. Who else do you need to involve within your organisation? Do you need to ask your processors to assist? Do you plan to consult information security experts, or any other experts?
Views have been gathered from Accurx users across 6,500 GP practices. As with all Accurx products, ongoing feedback is solicited from our 60,000 healthcare professional user base. We’ve also interviewed 15 GPs and 7 patients on this product. Furthermore, Accurx has also engaged patients and Information Governance leaders on our Data Protection approach.

Step 4: Assess necessity and proportionality
Describe compliance and proportionality measures, in particular: what is your lawful basis for processing? Does the processing actually achieve your purpose? Is there another way to achieve the same outcome? How will you prevent function creep? How will you ensure data quality and data minimisation? What information will you give individuals? How will you help to support their rights? What measures do you take to ensure processors comply? How do you safeguard any international transfers?
The lawful bases of healthcare staff using the Accurx platform for communicating with patients is the provision of health care or social care services: 6(1)(e) ‘...necessary for the performance of a task carried out in the public interest or in the exercise of official authority...’. 9(2)(h) ‘...medical diagnosis, the provision of health or social care or treatment or the management of health or social care systems...’ Accurx has successfully completed NHS Data Security and Protection Toolkit assurance (under NHS ODS code 8JT17), and both the Cyber Essentials and Cyber Essentials Plus certification. Cyber Essentials is a scheme run by the UK government and the National Centre for Cyber Security to help you know that you can trust your data with a given supplier. Accurx’s sub-processors operate based on Article 28 GDPR-compliant agreements. Accurx data is encrypted in transit via HTTPS and encrypted at rest via TDE. Accurx follow the Microsoft Azure Security and Compliance Blueprint for Platform-as-a-Service web applications, specifically designed for NHS services. <u>Patient Triage & Patient Initiated Follow Up</u> Communications between the patient and healthcare professional are encrypted in transit via HTTPS and responses are encrypted at rest via TDE. Patients are also asked to input their DoB, Surname, Forename, Gender, Postcode plus phone number to verify their identity via an SMS Two-Factor Authentication. The practice is able to view all incoming requests, including those which have not been matched to a patient

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on PDS. Any match(es) are displayed to the practice staff as either exact or suggested or unmatched.

IF the submitted information matches a single patient, AND the contact number submitted is consistent with that on PDS, AND the patient has successfully submitted the secure code sent to this number (i.e. they have passed a two factor authentication process), it's an exact match, and the patient's request will be displayed to the practice as under the patient's information/ record.

IF the submitted information matches a single patient but the submitted contact number does not match that on PDS, OR if the submitted information and contact number do match to a unique patient, but they have not successfully entered the secure code sent to the contact number listed on PDS, it's a suggested match, and displayed to the practice as such. The practice will be prompted to verify the identity of the patient before proceeding with their request.

IF the submitted information does not match a single patient (i.e. it matches multiple), OR no patient is found on PDS using the submitted information, it's unmatched, and displayed to the practice as such. The practice will be prompted to verify the identity of the patient before proceeding with their request.

NHS App Accurx Integration

Patients are authenticated by being asked to login via their NHS Login account, if they are verified to level P9 they are able to access the features provided by Accurx. This is to ensure the user is who they say they are. They will have needed to complete a verification process (through the NHS) involving a comparison between a form of photo ID and the individual to have this highest level of verification.

Principle	Assessment of Compliance
Principle 1 – (2.21 2.23) Personal data shall be processed fairly and lawfully and, in particular, shall not be processed unless – (a) at least one of the conditions in Schedule 2 is met, and (b) in the case of sensitive personal data, at least one of the conditions in Schedule 3 is also met	Patient consents to take part in the process by completing the form and sending it to the healthcare professional. They can dissent at any point by not messaging the healthcare professional.
Principle 2 – (2.2) Personal data shall be obtained only for one or more specified and lawful purposes, and shall not be further processed in any manner incompatible with that purpose or those purposes.	Personal data is processed under the lawful basis of the provision of health care or social care services .
Principle 3 – (3.1) Personal data shall be adequate, relevant and not excessive in relation to the purpose or purposes for which they are processed.	The extent of the patient message purposely has a limit of 200 words per answer in order to ensure the information provided is not excessive and remains relevant to the query.
Principle 4 – () 2.12 Personal data shall be accurate and, where necessary, kept up to date.	The information provided by the patient will give the healthcare professional an up to date view of the patient's circumstances and this can be added into the patient's medical record to ensure an accurate and up to date record is maintained.
Principle 5 – (2.20) Personal data processed for any purpose or purposes shall not be kept for longer than is necessary for that purpose or those purposes.	Patient data is kept in line with <u>Records Management Code of Practice for Health and Social Care 2016</u> . These require us to hold records on behalf of GP practices until 10 years after a patient has died. However, we would delete the data earlier than suggested by this code if we are informed that the condition of Article 9(3) GDPR and s. <u>11(1) Data Protection Act 2018</u> no longer applies: "that the circumstances in which the processing of personal data is carried out...[is]by or under the responsibility of a health professional or a social work professional".

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Principle 6 – (2.22& 2.23) Personal data shall be processed in accordance with the rights of data subjects under this Act.	Patient agrees to take part in the process by submitting the form to the healthcare professional, after acknowledging that the form will be sent to the healthcare professional. They can dissent at any point by not sending the message.
Principle 7 – (2.13 2.14 2.16 2.17 2.18) Appropriate technical and organisational measures shall be taken against unauthorised or unlawful processing of personal data and against accidental loss or destruction of, or damage to, personal data.	Computer equipment is secure and complies with the NHS standard for encryption. Accurx has successfully completed NHS Data Security and Protection Toolkit assurance (under NHS ODS code 8JT17), and both the Cyber Essentials and Cyber Essentials Plus certification. Accurx data is encrypted in transit via HTTPS and encrypted at rest via TDE.
Principle 8 – (2.15) Personal data shall not be transferred to a country or territory outside the European Economic Area unless that country or territory ensures an adequate level of protection for the rights and freedoms of data subjects in relation to the processing of personal data.	Accurx follows the Microsoft Azure Security and Compliant Blueprint for Platform-as-a-Service web applications, specifically designed for NHS services. This means that Accurx does not store or directly transfer the Personal Data/Special Categories of Personal Data outside of the EEA without a lawful transfer mechanism. However, we draw your attention to the fact that that: a healthcare professional who uses Accurx to process patient data using a computer outside of the EEA may result in the data being processed outside of the EEA; a patient may be receiving messages whilst outside of the EEA.

Step 5: Identify and assess risks

Describe source of risk and nature of potential impact on individuals. Include associated compliance and corporate risks as necessary.	Likelihood of harm	Severity of harm	Overall risk
<u>Accurx Platform</u> Access to Personal data by persons other than the data subject	Low	Significant	Low
Sensitive data being sent via SMS	Low	Significant	Low
Abusive messages are sent to patients by a healthcare professional	Low	Significant	Low
The integrity of the computers used (how at risk are they from trojans or viruses)	Low	Minor	Low

Patient Triage - Risks

Describe source of risk and nature of potential impact on individuals. Include associated compliance and corporate risks as necessary.	Likelihood of harm	Severity of harm	Overall risk

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A patient sends a message to the GP practice via clinical or admin request pathways, and describes red flag symptoms / something that warrants more urgent medical attention. This might not be reviewed by the administrators or clinical team for many days (e.g. over the weekend/ out of hours)	Medium	Significant	Low
Any patient can contact any GP practice and submit an admin/ medical request, even if they are not a patient at that practice	Medium	Minor	Low
Malicious use of Patient Triage - a malicious actor could submit a large volume of inbound requests and overwhelm a practice's email inbox / Accurx inbox	Low	Significant	Low
Malicious use of Patient Triage - a malicious actor could attempt to contact the GP practice pretending to be another individual	Low	Significant	Low
A GP practice could be overwhelmed with more patient initiated requests than they are able to cope with	Medium	Significant	Low
For patient initiated messages that are not matched to a patient via PDS, intercepting staff at the practice could not realise that the patient has not been 'authenticated', i.e. that there is no good reason to believe the patient is who they say they are	Medium	Significant	Low
Email doesn't send for whatever reason and patient is waiting for medical help without knowing that their request has not been received	Medium	Significant	Low
Following submission of an online consultation, the patient condition deteriorates and doctor can't get hold of them over phone/video call	Low	Significant	Low
Reception encourages someone that calls to use online service. They struggle to use it and abandon, and are too frustrated/scared/worried to call again to get the help they need	Low	Significant	Low
Patient enters medical request under clinical request, or vice versa	Low	Minor	Low
Patient is unclear when to call 999 /111	Low	Significant	Low
During beta version - user may reply to emails coming into practice email inbox thinking their reply will be sent to the patient. The patient does not receive important clinical information, and the practice does not realise this	Medium	Significant	Low
Patient enters medical request under clinical request, or vice versa	Low	Minor	Low
A new patient triage request is not seen in the Accurx Inbox	Low	Significant	Low
A patient triage request is not acted on within a reasonable timeframe	Medium	Significant	Low
Patient or someone acting on behalf of patient attached intimate photos to Patient Triage request	Medium	Significant	Low
A patient is unable to attach an image to their Patient Triage request	Medium	Significant	Low

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The image quality is not good enough for clinician to identify issue	Medium	Significant	Low
A malicious user asks patients to send photos via SMS then deletes these from their record	Low	Significant	Low
1. Stored photos/ documents are accessed by an inappropriate / malevolent user or external hacker 2. Stored photos/ documents are accessed by an inappropriate / malevolent Accurx employee 3. Stored photos/ documents are accessed by an appropriate user, but used inappropriately	Low	Significant	Low
Patients make errors in their medication requests on Patient Triage	Low	Significant	Low

Self Book - Risks

<u>Risk</u> A description of the source of risk and the nature of the potential impact on individuals. <i>Include associated compliance and corporate risks as necessary.</i>	<u>Likelihood of harm</u>	Severity of harm	Overall risk
Patients cannot cancel their appointment via the link and need to call the practice to do so but can't get a hold of them.	Medium	Minor	Low
Patients will not be given specific times for appointments. They will be given time windows either between 8:30 am and 1:00 pm or between 2:00 pm and 6:00 pm. Having such a big window means that patients are more likely to miss the call.	Medium	Considerable	Low

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A patient tries to access their link after it has expired and is unable to book an appointment.	Medium	Considerable	Low
Clinician/practice cancels the patient's appointment after they have booked using the link and the patient is unaware and still expects a call.	Low	Considerable	Low
If two patients attempt to book into the same appointment slot at the same time or there aren't any more slots available the patient will receive an error message and will need to attempt to book their appointment again.	Low	Minor	Low
Data integrity in S1/EMIS audit: The audit trail is inaccurate and does not log specific users as making actions such as booking appointments/saving SNOMED codes.	High	Considerate	Low
Accurx makes too many API calls to S1/EMIS	Low	Considerate	Low
Patient tries to book an appointment but there aren't any available slots - and they receive an unclear error message and they are unable to book an appointment	Medium	Considerate	Low
Copy cat of our links which are used for Phishing due to our public announcement of the new SMS comms used by practices	High	Significant	Low
We don't make enough calls to the API/scrape the appointment books frequently enough to provide accurate appointments.	Medium	Considerate	Low

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Patient Initiated Follow Up - Risks

Risk	Likelihood of harm	Severity of harm	Overall risk
A patient sends a message to the healthcare team via clinical or admin request pathways, and describes red flag symptoms / something that warrants more urgent medical attention. This might not be reviewed by the administrators or clinical team for many days (e.g. over the weekend/ out of hours)	Medium	Significant	Low
Malicious use of PIFU - a malicious actor could attempt to contact the specialty pretending to be another individual	Low	Significant	Low
A specialty could be overwhelmed with more patient initiated requests than they are able to cope with	Medium	Significant	Low
Request doesn't send for whatever reason and patient is waiting for medical help without knowing that their request has not been received	Medium	Significant	Low
Following submission of an online request, the patient condition deteriorates and healthcare professional can't get hold of them over phone/video call	Low	Significant	Low
Patient enters medical request under admin request, or vice versa	Low	Minor	Low
Patient is unclear when to call 999 /111	Low	Significant	Low
A new PIFU request is not seen in the Accurx Inbox	Low	Significant	Low
A PIFU request is not acted on within a reasonable timeframe	Medium	Significant	Low
Patient or someone acting on behalf of patient attaches intimate photos to PIFU request	Medium	Significant	Low
A patient is unable to attach an image to their PIFU request	Medium	Significant	Low
The image quality is not good enough for clinician to identify issue	Medium	Significant	Low
A malicious user asks patients to send photos via SMS then deletes these from their record	Low	Significant	Low
1. Stored photos/ documents are accessed by an inappropriate / malevolent user or external hacker 2. Stored photos/ documents are accessed by an inappropriate / malevolent Accurx employee 3. Stored photos/ documents are accessed by an appropriate user, but used inappropriately	Low	Significant	Low

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NHS App Integration

Risk	Likelihood of harm	Severity of harm	Overall risk
A patient is unable to access the service due to not being able to log into the NHS App	Low	Minor	Low
A patient enters a clinically urgent response to a user's question	Low	Significant	Low
Following the initial patient request to change an appointment, a user or patient does not see the other's response	Low	Significant	Low
Access to Personal data by persons other than the data subject and the authorised user	Low	Significant	Low
A healthcare professional stays logged in so that someone else could use the service under their login	Low	Significant	Low
Abusive messages are sent to healthcare professionals by a patient	Medium	Significant	Low
The integrity of the devices used (how at risk are they from trojans or viruses)	Low	Minor	Low

Step 6: Identify measures to reduce risk

Identify additional measures you could take to reduce or eliminate risks identified as medium or high risk in step 5

Accurx platform

Risk	Options to reduce or eliminate risk	Effect on risk	Residual risk	Measure approved
Access to Personal data by persons other than the data subject	Healthcare professionals are authenticated by requiring: NHSmail to register for an account; TPP SystemOne or EMIS Web profiles; and, an administrator at their GP practice to approve them. This is to prevent people who do not actually and currently	Eliminated	Low	Yes

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	work at the provider organisation from accessing the Accurx system. Patient demographic data is only pulled from either TPP SystmOne or EMIS Web principal care systems. This ensures that a healthcare professional can only access data of patients registered at their practice. Any video consultations are not recorded or stored.			
Sensitive data being sent via SMS	Healthcare professionals have to agree to an acceptable use policy that includes confirming that the service not be used to communicate SMS messages that are sensitive or clinically urgent messages. Full audit trails are kept of all healthcare professional activity for clinical safety purposes.	Reduced	Low	Yes
Abusive messages are sent to patients by a healthcare professional	Accurx scans SMSs for abusive content and flags to its Clinical Lead if any are detected. Full audit trails are kept of all healthcare professional activity for clinical safety purposes.	Reduced	Low	Yes
The integrity of the computers used (how at risk are they from trojans or viruses)	Use of devices that comply with NHS standards of encryption.	Reduced	Low	Yes

Patient Initiated Follow Up (PIFU) - Measures to reduce risk

Risk	Options to reduce or eliminate risk	Effect on risk	Residual risk	Measure approved
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A patient sends a message to the healthcare team via clinical or admin request pathways, and describes red flag symptoms / something that warrants more urgent medical attention. This might not be reviewed by the administrators or clinical team for many days (e.g. over the weekend/ out of hours)	Informing the patient at multiple points before submitting their request that 1. their message will not be read out of hours, 2. that their request may not be read for up to 2 working days within normal working hours, 3. that they should seek more urgent medical help from 111 or 999 if they need a more urgent response. 4. prompting patients upon submission of their request to seek more urgent medical attention if their condition deteriorates.	Reduced	Low	Yes
Malicious use of PIFU - a malicious actor could attempt to contact the specialty pretending to be another individual	Patients are prompted to submit a phone number upon submission of their request. A 6 digit code is sent via SMS to this phone number, and the patient is prompted to enter this code into the website. If patient requests do not pass this two factor authentication, their request is flagged up to the healthcare team as 'unmatched'. The team is then prompted to confirm the identity of the patient. It is possible that some people will have access to the mobile of the person they are trying to imitate, and will therefore be able to pass the 2 factor authentication. This is deemed an acceptable level of risk.	Eliminated	Low	Yes
A specialty could be overwhelmed with more patient initiated requests than they are able to cope with	Services will place patients on PIFU based on their capacity to respond to requests. Offering analytics of demand will help services match demand to capacity.	Reduced	Low	Yes
Request doesn't send for whatever reason and patient is waiting for medical help without knowing that their request has not been received	Stringent internal testing to ensure 100% reliability before the product is live.	Reduced	Low	Yes
Following submission of an online request, the patient condition deteriorates and healthcare professional can't	Patient is reminded at multiple times throughout the request process 1. how quickly the service is likely to respond, 2. that this is not a suitable	Reduced	Low	Yes

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get hold of them over phone/video call	product for urgent medical requests, and 3. that they should escalate their request to 111 or 999 if they need more emergent care, or if they deteriorate.			
Patient is unclear when to call 999 /111	Information to be provided directing patients to the NHS website explaining when to call 111/ 999.	Reduced	Low	Yes
A new PIFU request is not seen in the Accurx Inbox	- Users are notified on new PIFU requests red dot notification containing the number of unread messages - PIFU requests are visible to all users within the team to ensure messages are not stuck in a particular user's inbox if they are not available on the day	Reduced	Low	Yes
A PIFU request is not acted on within a reasonable timeframe	- Although assignment helps show the service who is responsible for acting on a PIFU request, all PIFU requests are visible to non-assignees. This was an intentional design decision to ensure that the service has an overview of all PIFU requests and can monitor any that have not been acted on in a timely manner - The webpage where the patient enters their symptoms has a section where the patient is informed not to use the form for medical emergencies and requests may not be seen for 2 working days. Patients need to click to confirm they do not have symptoms constituting a medical emergency. - There is an urgent flag that a user can apply to a PIFU request. This turns the PIFU request selection red, adds a red flag icon and indicates to other users that the request is of higher urgency.	Reduced	Low	Yes
Patient or someone acting on behalf of patient attaches intimate photos to PIFU request	Patients are prompted not to attach any intimate images, and have to actively consent that they have not done so before submission.	Reduced	Low	Yes
A patient is unable to attach an image to their PIFU request	- Healthcare professionals can respond to the PIFU request, asking for a photo	Reduced	Low	Yes

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	and sending an SMS to enable this			
The image quality is not good enough for clinician to identify issue	- A user can see the patient face to face - A user can contact the patient to retake the photo with advice - Helper text is displayed to the patient to guide them to take a better photo, advising them to (1) use adequate lighting, (2) make sure image is in focus and (3) uses an object for scale	Reduced	Low	Yes
A malicious user asks patients to send photos via SMS then deletes these from their record	- Users are unable to delete messages and photos from the Accurx server. This allows an audit trail of images	Reduced	Low	Yes
1. Stored photos/ documents are accessed by an inappropriate / malevolent user or external hacker 2. Stored photos/ documents are accessed by an inappropriate / malevolent Accurx employee 3. Stored photos/ documents are accessed by an appropriate user, but used inappropriately	(1), (2) We follow recommended best practice for storing documents and photos, they are encrypted at rest, and no one has direct access to the files; rather - they are only accessible on an individual basis by authenticated practice users through secure channels. (3) Photos can be 'soft' deleted so that users cannot access them going forward. We have logs of photos accessed for >= the past 12 months, and these can be used to inform an audit trail if needed.	Reduced	Low	Yes

Self Book - Measures to reduce risk

Risk	Options to reduce or eliminate risk	Effect on risk	Residual risk
Patient cannot cancel their appointment via the link and need to call the practice to do so but can't get a hold of them.	If the practice has the appointment-reminders feature they can configure cancellation links for the patients to use.	Reduced	Low

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Patients will not be given specific times for appointments. They will be given time windows either between 8:30 am and 1:00 pm or between 2:00 pm and 6:00 pm. Having such a big window means that patients are more likely to miss the call.	Users are advised to only use the telephone appointments for routine telephone appointments also when the patient is booking the appointment it is made clear that they aren't booking a specific appointment time. If the patient misses the first call, the clinician can try to call them again during that window.	Reduced	Low
A patient tries to access their link after it has expired and is unable to book an appointment.	The patient will see an error message on the webpage once the link expires and they will need to contact the practice again. There is a 48 hour period before the link times out. In instances where a patient tries to book an appointment and it fails the 48 hour period will refresh.	Reduced	Low
Clinician/practice cancels the patient's appointment after they have booked using the link and the patient is unaware and still expects a call.	Best practice would indicate that a clinician contacts the patient via SMS if they will be cancelling their appointment from their end.	Reduced	Low
If two patients attempt to book into the same appointment slot at the same time or there aren't any more slots available the patient will receive an error message and will need to attempt to book their appointment again.	In this scenario, the patient will see a message asking them to wait to receive a text to confirm an appointment. Our system will then search for slots in the practice appointment book and update the patient via SMS to confirm if their appointment has been booked or if they need to try again.	Reduced	Low

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Data integrity in S1/EMIS audit: The audit trail is inaccurate and does not log specific users as making actions such as booking appointments/saving SNOMED codes.	Specific user actions are logged correctly, i.e sending a batch message. Working on including a note in the appointment book that will state that the action was taken by Accurx. The details about a particular user assigned will still be there alongside this note.	Reduced	Low
Accurx makes too many API calls to S1/EMIS	Accurx is aware of the limits from EMIS and we have the ability to stay within those limits. However, this may have impact in other areas of the product.	Reduced	Low
Patient tries to book an appointment but there aren't any available slots - and they receive an unclear error message and they are unable to book an appointment	Patients now have a clear error message to say there are no appointments available. Further product changes required to mitigate this fully.	Reduced	Low
Copy cat of our links which are used for Phishing due to our public announcement of the new SMS comms used by practices	An explanation for patients on how to avoid falling for any scams or phishing links have been added to our FAQ page on the website.	Reduced	Medium
We don't make enough calls to the API/scrape the appointment books frequently enough to provide accurate appointments.	Currently working with EMIS to increase the limit they have put on us in order to have more flexibility to increase the scraping to improve accuracy	Reduced	Medium

Patient Triage- Measures to reduce risk

Risk	Options to reduce or eliminate risk	Effect on risk	Residual risk	Measure approved
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A patient sends a message to GP practice via clinical or admin request pathways, and describes red flag symptoms / something that warrants more urgent medical attention. This might not be reviewed by the administrators or clinical team for many days (e.g. over the weekend/ out of hours)	Informing the patient at multiple points before submitting their request that 1. their message will not be read out of hours, 2. that their request may not be read for up to 2 working days within normal working hours, 3. that they should seek more urgent medical help if they need a more urgent response, whether from their practice, NHS 111, or 999. Also 4. Screening for 'Red flag' symptoms, and preventing patients submitting a request if they state that they have any of these; 5. prompting patients upon submission of their request to seek more urgent medical attention if their condition deteriorates.	Reduced	Low	Yes
Any patient can contact any GP practice and submit an admin/ medical request, even if they are not a patient at that practice	Patients' queries are flagged to practice staff as 'unmatched' for patients who's submitted information does not match to a patient registered at that practice. The practice is then prompted to confirm the identity of the patient, and will have access to the patient's contact details to let the patient know if they are not registered with that practice.	Reduced	Low	Yes
Malicious use of Patient Triage - a malicious actor could submit a large volume of inbound requests and overwhelm a practice's email inbox / Accurx inbox	Restricting the number of times someone is allowed to submit the form from a particular location.	Eliminated	Low	Yes
Malicious use of Patient Triage - a malicious actor could attempt to contact the GP practice pretending to be another individual	Patients are prompted to submit a phone number upon submission of their request. A 6 digit code is sent via SMS to this phone number, and the patient is prompted to enter this code into the website. If patient requests do not pass this two factor authentication, their request is flagged up to the practice	Reduced	Low	Yes

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	as 'unmatched'. The practice is then prompted to confirm the identity of the patient, and will have access to the patient's contact details to let the patient know if they are not registered with that practice. It is possible that some people will have access to the mobile of the person they are trying to imitate, and will therefore be able to pass the 2 factor authentication. This is deemed an acceptable level of risk.			
A GP practice could be overwhelmed with more patient initiated requests than they are able to cope with	Patients are prompted to call practice if they have not heard from practice after 3 days. Offering analytics of demand will help practices match demand to capacity.	Reduced	Low	Yes
For patient initiated messages that are not matched to a patient via PDS, intercepting staff at the practice could not realise that the patient has not been 'authenticated', i.e. that there is no good reason to believe the patient is who they say they are.	1. Patients are clearly displayed as 'unmatched' if they are, and 2. GP staff are then prompted to authenticate the patients' identity if needed. Staff are prompted to have a mitigating course of action for these patients.	Reduced	Low	Yes
Email doesn't send for whatever reason and patient is waiting for medical help without knowing that their request has not been received	Stringent internal testing to ensure 100% reliability before product is live.	Reduced	Low	Yes
Following submission of an online consultation, the patient condition deteriorates and doctor can't get hold of them over phone/video call	Patient is reminded at multiple times throughout the request process 1. how quickly the practice is likely to respond, 2. that this is not a suitable product for urgent medical requests, and 3. that they should escalate their request to 111 or 999 if they need more emergent care, or if they deteriorate.	Reduced	Low	Yes
Reception encourages someone that calls to use online service. They struggle to use it and abandon, and are too frustrated/scared/worried to call again to get the help they need	Practice staff to be encouraged via user guide to only direct patients to complete online requests if they are able to, to call back if they cannot, and for practice staff to fill in online consultation themselves on behalf of the patient where appropriate.	Reduced	Low	Yes

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Patient enters medical request under clinical request, or vice versa	All requests will be vetted by staff at the practice, and the staff can escalate these as urgent if needed.	Reduced	Low	Yes
Patient is unclear when to call 999 /111	Information to be provided directing patient to NHS website explaining when to call 111/ 999.	Reduced	Low	Yes
During beta version - user may reply to emails coming into practice email inbox thinking their reply will be sent to the patient. The patient does not receive important clinical information, and the practice does not realise this.	Emails coming into the practice inbox (for the beta version) have a reminder message at the top not to reply to them. Emails sent to the sending (Accurx.nhs.net) email account will also get an automatic reply, advising that the patient will not receive their sent email.	Reduced	Low	Yes
Patient enters medical request under clinical request, or vice versa	All requests will be vetted by staff at the practice, and the staff can escalate these as urgent if needed	Reduced	Low	Yes
A new patient triage request is not seen in the Accurx Inbox	- Users are notified on new patient triage requests via a notification banner and red dot containing the number of unread messages - When a user is viewing the inbox, there are additional red dots with numbers inside to indicate unread messages in each folder - Patient Triage requests are visible to all users to ensure messages are not stuck in someone's inbox if they are out of practice on the day	Reduced	Low	Yes
A patient triage request is not acted on within a reasonable timeframe	- Although assignment helps show the practice who is responsible for acting on a patient triage request, all patient triage requests are visible to non-assignees. This was an intentional design decision to ensure that the practice has an overview of all patient triage requests and can monitor any that have not been acted on in a timely manner - The webpage where the patient enters their symptoms has a section where the patient is informed not to use the form for medical emergencies and requests may not be seen for 2 working days. Patients need to click to confirm they do not have	Reduced	Low	Yes

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	symptoms constituting a medical emergency.			
Patient or someone acting on behalf of patient attached intimate photos to Patient Triage request	Patients are prompted not to attach any intimate images, and have to actively consent that they have not done so before submission.	Reduced	Low	Yes
A patient is unable to attach an image to their Patient Triage request	- A patient can discuss the issue by calling the practice - A patient can contact Accurx support, for technical assistance - Practice staff can respond to the Patient Triage request, asking for a photo and sending an SMS to enable this pro	Reduced	Low	Yes
The image quality is not good enough for clinician to identify issue	- A user can see the patient face to face - A user can contact the patient to retake the photo with advice - A user can send an image in via email (not available at all practices) - Helper text is displayed to the patient to guide them to take a better photo, advising them to (1) use adequate lighting, (2) make sure image is in focus and (3) uses an object for scale	Reduced	Low	Yes
A malicious user asks patients to send photos via SMS then deletes these from their record	- Although a user can delete an image from the patient's EMIS/SystmOne record, they are unable to delete it from the Accurx server. This allows an audit trail of images	Reduced	Low	Yes
1. Stored photos/ documents are accessed by an inappropriate / malevolent user or external hacker 2. Stored photos/ documents are accessed by an inappropriate / malevolent Accurx employee 3. Stored photos/ documents are accessed by an appropriate user, but used inappropriately	(1), (2) We follow recommended best practice for storing documents and photos, they are encrypted at rest, and noone has direct access to the files; rather - they are only accessible on an individual basis by authenticated practice users through secure channels. (3) Photos can be 'soft' deleted so that users cannot access them going forward. We have logs of photos accessed for >= the past 12 months, and these can be used to inform an audit trail if needed. We encourage submissions to be saved to the patient's record, and provide best practice	Reduced	Low	Yes

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	guidance to users around processing photos.			
Patients make errors in their medication requests on Patient Triage	Staff are trained to check medication requests from patients, and should be alert to possible errors. Practices are able to customise repeat prescription requests to direct patients to more secure prescription services already offered by the practice, such as Patient Access.	Reduced	Low	Yes

NHS App Accurx Integration – Measures to reduce risks

Risk	Options to reduce or eliminate risk	Effect on risk	Residual risk	Measure approved
A patient is unable to access the service due to not being able to log into the NHS App	1,2) A patient can contact the professional using usual methods e.g. telephone	Reduced	Low	☐
A patient enters a clinically urgent response to a user's question	Both at the beginning and at the end of the NHS app patient triage submission process the patient is warned that if they are experiencing severe symptoms, they should instead be calling either: the practice, 111 or 999. Once the request is received, the clinician will use clinical judgement to assess whether a question is best asked face-to-face vs telephone vs single patient response.	Reduced	Medium	☐
Following the initial patient request for advice, a user or patient does not see the other's response	On the user side this is mitigated because the response is delivered to the shared inbox that multiple clinicians monitor and are notified about. On the patient side this is mitigated by messages coming through on their text message, which have their own notification settings.	Reduced	Low	☐
Access to Personal data by persons other than the data subject and the authorised user.	Require NHS authentication up to level p9 in order to successfully person is who they say they are Healthcare professionals are either authenticated by being	Reduced	Low	☐

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	required to logon via NHSmail Single Sign-on (SSO) and having their associated organisation (in SSO) matched to a whitelist of NHS (or social care) provider organisations; or they have a whitelisted provider organisation address. Patients will also be logged out after 10 minutes of inactivity.			
A healthcare professional stays logged in so that someone else could use the service under their login	The user sessions will be reduced to 12 hours to reduce the likelihood of someone else accessing an open user session. A healthcare professional will be automatically logged out after 12 hours.	Reduced	Low	☐
Abusive messages are sent to healthcare professionals by a patient	Healthcare providers have the ability to limit a patient's ability to reply if they start sending abusive messages. Accurx scans SMSs for abusive content and flags to its Clinical Lead if any are detected. Full audit trails are kept of all healthcare professional activity for clinical safety purposes.	Reduced	Low	☐
The integrity of the computers used (how at risk are they from trojans or viruses)	Use of devices that comply with NHS standards of encryption.	Reduced	Low	☐

Step 7: Sign off and record outcomes

Item	Name/position/date	Notes
Measures approved by:	Diane Abela (CISO) 04/2022	Integrate actions back into project plan, with date and responsibility for completion
Residual risks approved by:	Diane Abela (CISO) 04/2022	If accepting any residual high risk, consult the ICO before going ahead

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DPO advice provided:	DPO was comfortable with the risks associated with PIFU, Self-Book and Patient Triage based on current controls in place.	DPO should advise on compliance, step 6 measures and whether processing can proceed
Summary of DPO advice:		
DPO advice accepted or overruled by:	Accepted by Diane Abela (CISO) 04/2022	If overruled, you must explain your reasons
Comments: N/A		
Consultation responses reviewed by:	N/A	If your decision departs from individuals' views, you must explain your reasons
Comments: N/A		
This DPIA will kept under review by:	Diane Abela (CISO)	The DPO should also review ongoing compliance with DPIA
Measures approved by:	Diane Abela (CISO) 04/2022	Integrate actions back into project plan, with date and responsibility for completion