PharmOutcomes®



Bridging the Gap

Integrated Referrals to Community Pharmacy on Discharge from Hospital

Implementation Support Pack

Last updated: 23-Jun-2018

Pinnacle Health Partnership LLP - Partners: P Bowes, JPC Harris, KA Noble & JG Warner Registered in England No. OC347501 - Registered Office: 1st Floor Weatherwise Building, East Cowes PO32 6SP

Contents

Contents
Introduction
Overall Aims
Implementation Choices
Costs
Efficiency Savings
Implementation Process
Determining the Information to Send9
Determining which Patients to Include11
Technology Considerations
Governance Considerations
Formal Sign-offs for Go-Live
Contact Information17
Available Support Materials
Additional Material Available on Request20
Appendices
Appendix 1 Example Patient Information Leaflet
Appendix 2 Example Service flowchart24
Appendix 3 Example PharmOutcomes View25
Appendix 4 Example Community Pharmacist Completion27
Appendix 5 GDPR Electronic Transfer Data Map
Appendix 6 Template Project Plan
Please note the external links on page 17. These provide access to substantial additional information.

Introduction

There is a significant and increasing body of evidence to demonstrate that referring patients on discharge from hospital to their nominated community pharmacist can:

- lead to significantly better outcomes for patients; and
- save the health care system substantial amounts of money.

Pinnacle Health's PharmOutcomes system makes this a simple and straightforward real-time process and this paper provides background information on how to achieve this.

Overall Aims

People who take medicines for long term conditions often have changes made to their usual prescription during a stay in hospital. Evidence shows that problems with medicines can arise during clinical handover from secondary care to primary care¹. This can sometimes be the cause of patients being readmitted. Community pharmacy can help address this problem if they have accurate and timely information.

The overall aims of hospital referrals to community pharmacy on discharge are therefore:

- to improve patient care through the better provision of information to community pharmacy;
- to improve patient care through the subsequent provision of follow-up information to GPs, referrers and others as appropriate; and
- to generate efficiency savings for Hospital Trusts and CCGs, primarily through a reduction in the number of avoidable bed days.

It is worth noting that community pharmacies do not benefit financially from this approach. They are limited for payment purposes to providing 400 medicine use reviews (MURs) each year and there is no additional funding for exceeding this number. The majority of community pharmacies are already providing or exceeding this number of MURs.

Evidence from implementations elsewhere, however, shows that the transfer of information to community pharmacies enables them to target these MURs more usefully and many pharmacies report significant improvements in their ability to provide higher quality care as a result of discharge information provided.

¹ Audit published by the NHS Specialist Pharmacy Service in August 2016, updated July 2017: https://www.sps.nhs.uk/wp-content/uploads/2015/11/Medicines Reconciliation Collaborative Audit Report.pdf

Implementation Choices

There are three methods of implementing information transfer using PharmOutcomes.

Full electronic integration	The only additional work for pharmacists required at the referrer end is the input of choice of receiving pharmacy. All other information is picked up electronically from existing data held within the hospital systems when discharge notifications are generated.
Partial electronic	This approach pulls some information (typically demographic and
integration	medicines data) from the hospital PAS system and feeds it
	electronically into a PharmOutcomes template. Other
	information, for example action required, is then entered
	manually into the PharmOutcomes record using a web browser.
Manual data entry via web	This solution uses a web based interface. Referring pharmacists
portal	enter basic demographic information and other data as required
	via a web browser and the data is passed to community pharmacy.
	The solution is suitable for those trusts where prescribing
	information is currently recorded in paper systems.

Regardless of the type of solution, the same information can be supplied to community pharmacy.

In some instances of partial integration or manual data entry, this may be in the form of pdf attachments rather than electronically structured data. This is determined by local referrer practices.

Costs

There are two sets of costs associated with implementing the electronic transfer of information to community pharmacy, the referrer end and the community pharmacy end:

Referrer end	The licence cost for all solutions is £3,995 + VAT for the first system integration for an NHS Trust hospital site to cover a follow- up footprint of up to 1,000 community pharmacies. If an NHS Trust operates as a Partnership Trust and has an additional site managed by the same IT team, then adding a second referring system is a reduced £995 + VAT to cover a follow- up footprint of up to 1,000 community pharmacies.
Community pharmacy end	Community pharmacies need access to the PharmOutcomes system in order to be able to follow-up on referrals. PharmOutcomes is actively used in around 82% of community pharmacies in the country and will therefore be able to able to accept referrals at no additional cost in most instances. Where this is not the case, we can provide a quote for the remaining pharmacies based on the hospital's usual footprint.

Efficiency Savings

In addition to improving outcomes for patients, one of the key drivers for referrals to community pharmacy on discharge is to deliver financial savings for Trusts and CCGs by reducing the number of avoidable bed stays. Although these could be realised as cash releasing savings, in practice it is more likely that the available bed days released will be used in the form of additional capacity which would otherwise not be available.

The expectation for the savings is derived from an independent study carried out by Durham University on two Newcastle hospitals using PharmOutcomes and published by in the BMJOpen.²

In the Newcastle implementation, hospitals referred a limited selection of patients (those on multiple medications) to community pharmacies on discharge. Of these, 36% were followed up by pharmacies. Even with this limited level of follow-up, it was estimated that follow-up activity such as medicine use reviews led to savings of:

- £623,115 pa for the hospital trust
- £734,801 pa for the CCG

These savings derive from current funding models which require Trusts to pick up the costs of readmissions within thirty days and the CCG to pick up the cost of readmissions between thirty and ninety days.

Recent data demonstrates that the follow-up rates for referrals passed to community pharmacy for Newcastle and elsewhere are now in excess of 70%. This suggests that the above savings, based on referrals of 1,386 patients over the course of the initiative, are likely to be understated.

In preparing to implement e-referrals in the North West in 2017, NHS England North West and the North West Academic Health Science Network calculated on the basis of the study that each targeted referral to community pharmacy can lead to 0.8 bed days saved. This figure has not been independently verified to date but may be useful in enabling Trusts and CCGs to make an estimate of likely savings in bed day costs using this figure and current discharge rates.

ADDITIONAL OPTIONS

We have developed two additional forms of messaging at the request of Trusts which we can implement once the base solution is in place. These cost £995 each + VAT and are entirely optional:

- The first is a 'for information only' notification to the patient's nominated pharmacist, advising that their patient is being discharged but **not** requesting any follow-up actions.
- The second is a notification when a patient is admitted to hospital, advising the community pharmacist that their patient has been admitted and requesting them to cease the community supply of medicines and services.

² Nazar et el, <u>http://bmjopen.bmj.com/content/6/10/e012532.full</u>

Implementation Process

There are a number of stages that need to be followed once a Trust has committed to implementing the PharmOutcomes solution.

Determine and confirm the method of implementing Determine the patient sets to be	This will usually be full electronic integration if the information is currently available in electronic format and the hospital is already sending electronic discharge information to GPs. The Trust will need to decide whether to refer all or	Trust
included.	selected discharges to community pharmacy. Some Trusts have indicated they would like to start with a particular subset of patients. Others have indicated they would like to notify all discharges. This choice will need to be reflected in the relevant Standard Operating Procedure.	
Determine the information to be provided to patients	It is useful to provide patients with written information on how the information transfer service will work. An example from South West AHSN is included as appendix 1.	Trust
Determine the information that the Trust would like to send to community pharmacies	This involves deciding what information to pass across at the point of discharge. It can be restricted to simple demographic data or it can include full information around medicine use, allergies and other clinically relevant data with notes and attachments. PharmOutcomes can transfer whatever information is agreed at the outset of initiative.	Trust
Determine the IT requirements and agree a timescale for implementation and sign off	The only IT requirement for the manual solution is for the hospital user to have access to a web browser. Integrated solutions require local IT support but this is typically only a couple of days work and we provide detailed support.	Trust with support from Pinnacle
Determine the information governance requirements and agree a timescale for clarification and sign-off	There are information governance requirements around the sharing of information and consent which need to be considered locally. An Impact Assessment may be needed and we have included a link at the end of this document to an example assessment.	Trust with support from Pinnacle

Develop and test message transport processes	For manual and partial solutions, this involves customising and testing the web interface to meet local needs. We would do this with you and it would take round a couple of hours. For fully integrated and partial solutions this involves developing and testing the mapping of data fields to the transport mechanism. We provide detailed technical specifications and support for your IT team and in practice this is generally very straightforward.	Trust / Pinnacle
Develop a standard operating procedure and the behaviour changes required.	This involves developing a standard operating procedure which meets local requirements, fits with local information governance and consent practice and is aligned to the technical solution to be implemented.	Trust
Ensure expected success measures are defined and mechanisms are in place to capture base data and data following implementation.	This is an optional part of the process but we recommend it so that you can assess the clinical and financial benefits of the approach.	Trust / AHSN
Train staff	Develop and deliver appropriate training	Trust
Communicate with and train community pharmacists	Develop and deliver appropriate communication and training	AHSN / Trust

As part of the process, we normally suggest that each stage is formally signed-off by the Trust to their satisfaction.

Formal sign-off by IT lead	Trust
Formal sign-off by IG lead	Trust
Formal sign-off of data to be provided	Trust
Formal sign-off of Standard Operating Procedure	Trust
Formal sign-off to go live	Trust
Formal sign-off of acceptance	Trust

Determining the Information to Send

Trusts will need to decide locally which information they want to pass across to community pharmacies. This can be tailored Trust by Trust and site by site.

This can most easily be done by identifying relevant data fields in current IT systems. The following screenshots from PharmOutcomes 'virtual hospital' PAS emulator may be useful in thinking about this process. An example in PharmOutcomes format is included in Appendix 3.

							РНМ	JA
Patient	Dale Cooper							
Hospital No.		N	lational No. 9434	765919	Date of Birth	1954-04-19		
		Admission <u>W</u> ard Admit Date/ <u>T</u> ime Admit <u>R</u> eason Cons <u>u</u> ttant Patient Type Spell Number	Hinton Ward 24-08-2017 DIANNE, Ms Dia NHS Adult Patier		• •	Admissio <u>n</u> Type <u>P</u> lanned <u>E</u> mergency	• ©	
		Episode Number						

Relevant details from here might include:

- patient forename
- patient surname
- date of birth
- NHS number
- Ward
- Consultant
- Admission type

Patient Dale Cooper	Select Patient	■ J [
Record Status		
No Known Drug Allergies Drug Allergy Status Undetermined	lergy Sensitivity	
Search		
Allergen	Reaction	
	• •	Add
Allergy Description	Reaction	
clarithromycin	Shortness of breath	
gabapentin	Pruritis	
FACTOR IX	Acute Kidney Injury	
Sensitivies Sensitising Agent	Reaction	
fenbufen	Blurred Vision	
acenocoumarol	Fever/Flu-like symptoms	
ibandronic acid	Bleeding	
GELATIN AND GELATIN DERIVATIVES	Malignant Hyperthermia	

Relevant details from here might include:

- allergy description
- nature of allergy reaction
- sensitising agent
- nature of reaction to sensitising agent

Cooper					Retain Consulța P	nt 🔄 PHM 🤳
suitant	MS DIANNE DIANNE		Ward HINTON			
pital No.		Nat. No. 9434765919	Date of Birth 1954-04-19	Age vrs Height	cm Weight	kg BSA sq m
_	Allergies: clarithromycin, gab Sensitivities: fenbufen, acer		GELATIN AND GELATIN DERIVATI	VES		
TTA-I	Medications					
Status	Drug Name		Dose	Frequency	Route	BNF
	ATORVASTATIN 40 mg Tab	biets	40 mg	1XD ON - ONCE a DAY at NIG	oral	Cardiovascular system
	FERROUS SULPHATE 200	mg Tablets	200 mg	3XD AMLUPM - THREE times a	oral	Nutrition and blood
	HYPROMELLOSE 0.3 % w/	v Eye Drops	1 Drop(s)	WHEN REQ - When required R	affected eye(s)	Eye
Ľ	LEVOTHYROXINE 100 micr	rograms Tablets	100 microgram	1XD AM - ONCE a DAY in the I	oral	Endocrine system
Ľ	LEVOTHYROXINE 25 micro	ograms Tablets	25 microgram	1XD AM - ONCE a DAY in the I	oral	Endocrine system
11	LEVOTHYROXINE 50 micro	ograms Tablets	50 microgram	1XD AM - ONCE a DAY in the I	oral	Endocrine system

Relevant details from here might include:

- drug name
- dose
- frequency
- route
- continuation

			РНМ IJ	A
Hospital No. Nat No.	Date of Birth 1954-04-19 Ward THE	HUB WARD (ZCO)	_	
Admission				
Date 27-Oct-2016 12:00 Reason		 <u>Emergency</u> Planned 		
Outpatient Appointment	Planned Discharge Date	Discharge Doctor		
Patient to be aware of grant and a second se	28-Oct-2016 Patient to receive cop	ABBOTT, DR ROSE	•	
à	Disgnoses	T (11.1	_
Prescriber contact	Discharge time/date		Transferred Notes Destination	
	Note to Comm. Pharm.	Comm. Pharm. Code.		
	e is included.			1
The SOP will need to ensure the pharmacy organisation cod	e is induced			

Relevant details from here might include:

- referral destination
- note to community pharmacy

The discharge information will need to include the organisational (ODS) code for the relevant community pharmacy so that the information can be directed to the correct destination.

This is recorded using a dedicated text field within the hospital system. If a dedicated field is not available, then it has been implemented by using a Regular Expression search within another freetext field. Other implementations have used a bespoke drug name to trigger referral.

Pinnacle will provide a bespoke browser based link as part of the implementation which enables staff to easily look up relevant pharmacy ODS codes where necessary. We also offer an API which can provide the list of available pharmacies in machine-readable format.

Determining which Patients to Include

In previous implementations, some Trusts have indicated that they would like to implement referrals on discharge by referring a particular subset of patients, for example, patients with multiple and complex medicine requirements or patients with mental health and particular physical health conditions).

Others have indicated they would like to notify all discharges and have undertaken to resource departments appropriately to achieve patient consent for this.

Alternatively, Trusts may wish to start off by referring patients from particular wards or on a randomised or risk management basis.

Once the preferred approach is determined locally this will need to be reflected in the relevant Standard Operating Procedure.

Technology Considerations

Web Version

There is no technical work required to use the web version of PharmOutcomes. We will simply provide a nominated person with system log-in details and administration rights and help with basic user configuration. Referrals to community pharmacy can begin as soon as training and set-up has been completed.

Full or Partial Electronic Integration

It is not possible to predefine the technical work required here as this varies by PAS and Dispensing System, message brokering system, security mechanisms and other factors. Experience elsewhere however has indicated that allowing 2-3 days at the Trust end for understanding, implementing and testing the messaging process is a realistic expectation of workload.

We recommend that Trusts requiring full or partial electronic integration send the following information to our interoperability support service at <u>itk.support@phpartnership.com</u> or the team can also be contacted by telephone on 01983 216 699.

- Trust Details
 - Trust and hospital name
 - Names and contacts for both clinical lead and technical lead (email and phone)
- Local System Details
 - Current PAS system and version
 - Current dispensing system and version
 - How are you currently sending discharge information electronically to GPs
- Technical Information (if available)
 - What message engine is currently in use at the Trust?
 - What message type is sent (e.g. HL7v2, ITK CDA payload)?
 - What fields are available to record the destination?

The Pinnacle team will then share the appropriate technical specifications for linking with your specific system and advise on the work required to enable integration and testing.

We provide a human readable technical check on the messages you produce which is freely accessible at <u>https://h7.pharmoutcomes.org/hl7/check</u>. Once the necessary technical work has been carried out, we will test the process with you end to end by transmitting and receiving test messages. Once test messages have been successfully received and processed, the Trust will be able to go live immediately.

Once live, electronic notifications to Community Pharmacy will happen at the same time as the Trust sends discharge notifications elsewhere.

Governance Considerations

There are a number of information governance considerations which need to be taken into account in transmitting information across to Community Pharmacies.

As part of implementing referrals on discharge elsewhere, we have provided evidence and assurance on many occasions that we meet legislative and best practice requirements to enable us to manage this process safely. This evidence has been tested and accepted by Trusts, NHS area teams and Academic Health Service Networks. We can provide references for this upon request.

Individual Trusts are however welcome to speak to Pam Bowes, our Data Protection Officer & Governance Lead if you have any queries. Pam can be contacted at pam.bowes@phpartnership.com or on 01983 216 699.

What governance	We work within a relevant independently assessed ISO 27001:2013
arrangements does	assurance system.
Pinnacle Health have in	We have NHS IG Toolkit Level 3 certification
place?	 We operate systems in multiple, secure, hardened, data sites.
	 We actively manage system and network capacity and performance.
	• We arrange independent security and penetration testing annually and
	in the event of material infrastructure changes.
	• We are accredited as fully compliant to the Cyber Essentials + standard
	• We store, process and transmit all data entirely within the UK.
	We encrypt all data.
	 We train and update all staff on information governance, usually
	monthly and at least quarterly.
	We carry out business continuity tests quarterly.
	We carry out regular privacy impact assessments.
	 We actively monitor information governance at board meetings at
	company Board Meetings each month.
	Our Information Governance and Technical Specification provides a
	summary of the PharmOutcomes system and the supporting
	infrastructure. The document is available upon request from our <u>IG lead</u> .
How does Pinnacle	We have a qualified GDPR practitioner (Pam Bowes) as our governance
comply with the EU	lead. Pam is one of the partners of the company and champions GDPR and
GDPR?	information governance at Board level. We already had strong governance
	controls in place but have updated processes, documentation, contracts
	and agreements as necessary to ensure that we comply fully with the
	legislation and current practice guidelines from the Information
	Commissioner's Office.

Frequently Asked Governance Questions

Who are the data controllers	In the case of hospital discharge referrals, there are potentially three data controllers under the legislation:
	 hospital trusts who decide what data is to be provided, community pharmacists who carry out follow up activity,
	 in some instances, clinical care commissioners may also be involved. We act as a data processor on behalf of the data controllers.
Is a data sharing agreement required	No. Under the GDPR legislation data sharing agreements are only needed between Data Controllers who wish to share information with each other.
with Pinnacle?	We serve the role of Data Processor so the agreement required is a Data Processing Agreement (and not a data sharing agreement). Our contracts contain a data processing agreement which includes the elements require by GDPR as well as our standard licence agreement terms.
	It may be useful to know that in view of the number of organisations asking us to sign data sharing agreements, we spoke directly to the Information Commissioner's Office on this matter in May 2018. They confirmed that our understanding of this matter is correct. We can provid a steer to relevant ICO guidance on this if required.
Is a data sharing agreement required between the Trust and the pharmacies?	The NHS England Data Sharing Policy states that the requirement for a Data Sharing Agreement between two parties is set aside if the two parties are both at least NHS Information Governance Toolkit Level 2. Community pharmacies are required to meet this standard for their annual contractual framework check by NHS England.
	The Information Sharing Policy is at: <u>https://www.england.nhs.uk/wp-</u> <u>content/uploads/2016/12/information-sharing-policy-v2-1.pdf</u>
	Para 5.4, states that requirement 207 of the IG toolkit specifies that "organisations that are achieving an adequate level of performance (i.e. attainment level 2 or above) against the NHS Operating Framework key IG requirements can be regarded as 'trusted organisations' for information sharing purposes where the purpose of sharing is the delivery of care.
How does Pinnacle comply with data	We comply fully with relevant legislation and NHS data retention requirements.
retention obligations and Goddard?	The Goddard enquiry stated that any records which may be required as part of a sexual abuse case should not be deleted until the enquiry is completed. This includes health records and we are compliant with this

Can commissioners see referral and follow-up information?	Commissioners can see referral and follow up information in anonymised or pseudo-anonymised format as appropriate. Commissioners can only see patient identifiable information under very specific conditions with full governance and access controls to named individuals on signed explanation and declaration.
Do Trusts need to do a privacy impact assessment?	Trusts will need to be confident that patients have given appropriate consent for information to be passed to community pharmacy on discharge before doing so unless relying on healthcare legislation which allows this to be done in the patient's best interest. Processes for obtaining consent for sharing information at the community
	pharmacy end are built in to the PharmOutcomes system. The linked Privacy Impact Assessment at the end of the document is pre- populated with relevant PharmOutcomes information and embedded evidence documentation.
Can we arrange for other Trusts to copy us in on discharge to	This FAQ arose within the context of a Mental Health Trust which would find it useful to know about discharges from Acute Trusts for some patients.
community pharmacy?	This is technically possible within the PharmOutcomes environment with a small amount of development provided that the source system can record the additional destination on discharge and provided that all information governance considerations have been considered within the SOP.
Can Trusts receive a bespoke notification	This FAQ also arose in the context of a Mental Health trust which would welcome updates from community pharmacists.
from community pharmacies after follow-up?	This is easily possible within the PharmOutcomes system at no additional charge provided the Trust has a secure nhs.net email account that can be used which is appropriately monitored and actioned.

Formal Sign-offs for Go-Live

Sign-off processes vary on a Trust by Trust basis but the following are likely to be required. It is recommended that each Trust defines the person responsible for each area at the start of the project and that they are kept involved / informed throughout.

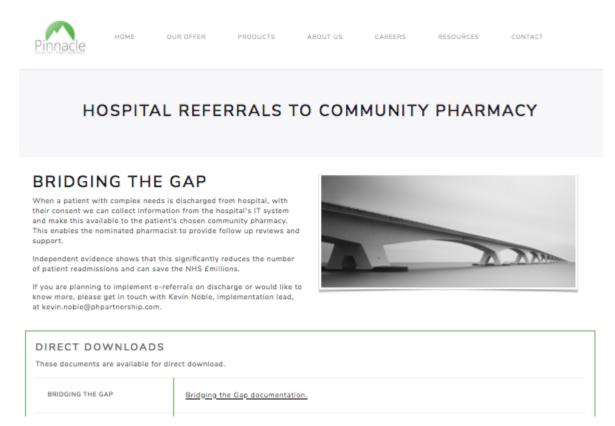
Area	Declaration	Name	Date	Signed
Message content	I declare that the content of discharge messages to be sent to community pharmacy has been properly identified, considered and approved and that the project can go live once all other areas are signed off.			
Standard Operating Procedure	I declare that the Trust has determined the way it wants to send discharge referrals to community pharmacy, developed a robust supporting operating procedure and trained all relevant staff. I declare that the project can go live once all other areas are signed off.			
IT	I declare that all IT related work required to implement discharge referrals to community pharmacy, including associated security and IT governance work, has now been completed and that the project can go live once all other areas are signed off.			
IG	I declare that all information governance work required to ensure the safe launch and operation of discharge referrals to community pharmacy has now been completed and that the project can go live once all other areas are signed off.			
Go Live	I agree that all preparatory work for implementing discharge referrals to pharmacy has been reported as being completed to a satisfactory standard and agree that the project can go live.			
Project Close	I agree that all evaluation work following go live of discharge referrals to community pharmacy has been completed to an acceptable standard. Lessons learned have been reported to the AHSN and follow up actions have been agreed as necessary. I agree the project can be closed for this Trust.			

Contact Information

Pinnacle Health LLP IT support	itk.support@phpartnership.com
Pinnacle Health LLP information governance	pam.bowes@phpartnership.com
Pinnacle Health pharmacist support	kevin.noble@phpartnership.com
You can also contact us by phone on 01983 21	6 699
You can also contact us by phone on 01983 21 More information on the Newcastle Study	6 699 hamde.nazar@durham.ac.uk

Available Support Materials

We have set up a microsite of additional documents which may be of help in preparation and planning. Simply browse to <u>https://bridgingthegap.pharmoutcomes.org</u> which will take you to the Pinnacle Health website, or you can go directly to <u>https://phpartnership.com/bridgingthegap</u>.



Bridging the Gap	The latest version of this implementation support pack
Information Governance	Partially pre-populated PharmOutcomes System Assessment Template to assist with Trust system risk assessments
General	Information template - your organisation information we need to initiate your contract.
	Example hospital information letter for patients as an alternative to the example in Appendix 1
	Example hospital guidelines for hospital pharmacists
	Example Standard Operating Procedure for entering a referral to community pharmacy,

Example Standard Operating Procedure for amending a referral to community pharmacy,

Example Standard Operating Procedure for cancelling a referral to community pharmacy,

Example Standard Operating Procedure in the event of PharmOutcomes down time.

Our thanks and acknowledgments are extended to the Countess of Chester Hospital NHS Foundation Trust for permission to use their example material.

Additional Material Available on Request

The following technical specifications are available on request from our interoperability support service on **01983 216 699** or at *itk.support@phpartnership.com*

Our apologises for any inconvenience caused by not making these directly available but experience has shown that technical implementations progress much more smoothly for Trusts when we make direct contact with technical staff at the earliest possible stage.

Technical	<u>Technical specification for transfer of care on discharge - HL7 v2</u> This is normally the only technical specification needed
	Technical specification for transfer of care on discharge - CDA (HL7 v3)
	Technical extension for 'notification only' extension option
	Technical extension for 'notification on admission' extension option

The following Information Governance documents are available on request from our Information Governance Lead on **01983 216 699** or at **pam.bowes@phpartnership.com**. Again we apologise for any inconvenience caused by not making these directly available but this is to ensure that distribution of the content is appropriately controlled.

Information	Partially pre-populated Privacy Impact Assessment for PharmOutcomes
Governance	Pinnacle Information Governance and Technical Specification

Appendices

Within this document

- Appendix 1 Example Patient Information Leaflet
- Appendix 2 Example Service Flowchart
- Appendix 3 Example PharmOutcomes View
- Appendix 4 Example Community Pharmacist View
- Appendix 5 Electronic Transfer Data Map
- Appendix 6 Project Plan Template

Each of the examples and templates can be provided as individual documents on request.

Appendix 1

Example Patient Information Leaflet

Our thanks and acknowledgements go to South West Academic Heath Science Network, Yeovil Hospital and Somerset LPC for developing this lealet.

Medicine Support Service

from hospital to home

What is the Medicine Support Service?

When you are ready to leave hospital, you can choose to continue part of your care with the Medicine Support Service.

The service, provided free by the NHS, creates an important link with your community pharmacist, whom you will visit and spend time discussing your medicines, asking any questions you may have and getting all the information you need.

By understanding your medicines and the most effective ways to take them, you can make sure you get the most out of them. Your pharmacist will give you the knowledge and support you need to put you in control of managing your medicines at home with confidence.

The Medicine Support Service begins after you leave hospital and your community pharmacist will notify your GP if necessary.

How could the service help me?

Around half of all medicines prescribed to patients are not taken as intended. This can include taking the incorrect dosage, at the wrong time, or not at all.

When medicines are not taken as intended your condition isn't treated correctly and could even get worse. Your pharmacist can give you all the information you need to allow you to get the best from your medicines and help you to stay healthy at home.

The Medicine Support Service creates better links between hospital and community pharmacists. Through sharing information we are able to support you in the best way possible.

If you would like to use the service or have any questions, talk to the pharmacy staff when they visit you in hospital.

How does the service work?

- You choose which pharmacy is convenient for you.
- Once you have given your consent, your discharge summary with information about the medicines you are taking will be sent securely through our electronic system to the pharmacy that you have selected.
- Once you are home from hospital, the pharmacist will contact you and arrange a convenient time for you to visit them.

At your consultation the pharmacist will go through all the medicines you are taking with you and...

- 1. Discuss any new medicines
- 2. Look at changes to any existing medication that were made during your hospital stay
 - Review all the medicines that you are taking

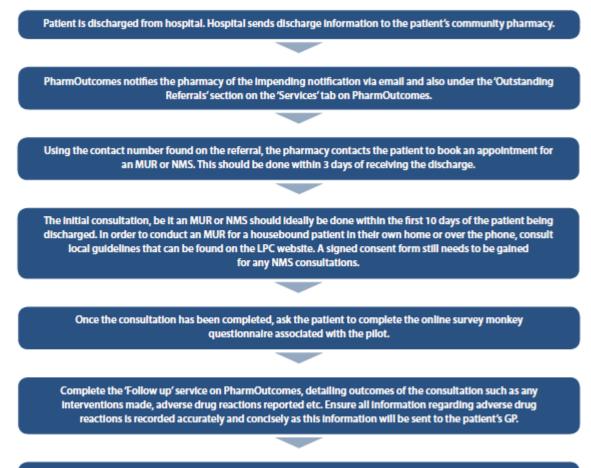
The pharmacist will take the time to fully explain what each medicine is for, common side effects, and how to take them safely.



Signing up to the service is very quick and your hospital pharmacy team will take you through the process.

Appendix 2 Example Service flowchart

Service Stage Flowchart



If there are any adverse drug reactions to report, the system will either automatically email the GP the prepopulated letter or will invite you to print this off and send manually.

Appendix 3 Example PharmOutcomes View

PharmOutcomes - Live System Ext Logged in as: Gary	Warner from Pinnacie Hea	aith Partnership L	.LP (Switch Org	anisation)		
PharmOut	comes [®] De	elivering B	Evidence			74
Home Services	Assessments	Reports	Claims	Admin	Gallery	Help
Service Design	Transfer of (Preview)	f Care (1	Г <mark>оС)</mark> - Р	harmad	y Follov	v-up
 Browse Service Library 						
- Edit Service Design		Requirements sioner requires th			service meets	
Provision Reports Preview	Pra	a. Enter your nar ctitioner Name Enter your ful	me in the box bi		from the list.	
	Т	hen either selec			в,	
Basic Provision Record (Sample)	or selec	t "New Practitio	ner" if you ha	ve not enrolle	d before.	
Refer to GP with ADR (Sample	Registration Detai	lis brought forwa	rd			
	Original Referral	28 May 2015				
Service Support	Referred from	Violet Patch P Centre 5477)	harmacyF1234	(Flowers Media	xal	
Service Support	Patient Name	Mickey Mouse	9			
	Date of Birth	2003 Feb 01				
If you receive a referral for a	Ethnicity	Not Stated				
housebound patient, please click here for further guidance and	Gender	Male				
access to PREM2 forms.	Address	123 Alphabet	Road, Broad w	ау		
and a second that I is the Pitche start size.	Postcode	AB12 3CD				
	NHS Number	1111111111				

Contact Details email MickeyMouse@invalid, tel 01234 567890 not weekends

Consent Granted Consent Granted: One of: Yes; No Name of pharmacy Provider being referred to

 Notes
 Answer to "Notes" text box

 Name
 Answer to "Name" single line input

 Job title
 Answer to "Job title" single line input

 Contact number
 Answer to "Contact number" single line input

 Acceptance and completion of referred cervice
 Referral Accepted for completion now Revert and discard charp

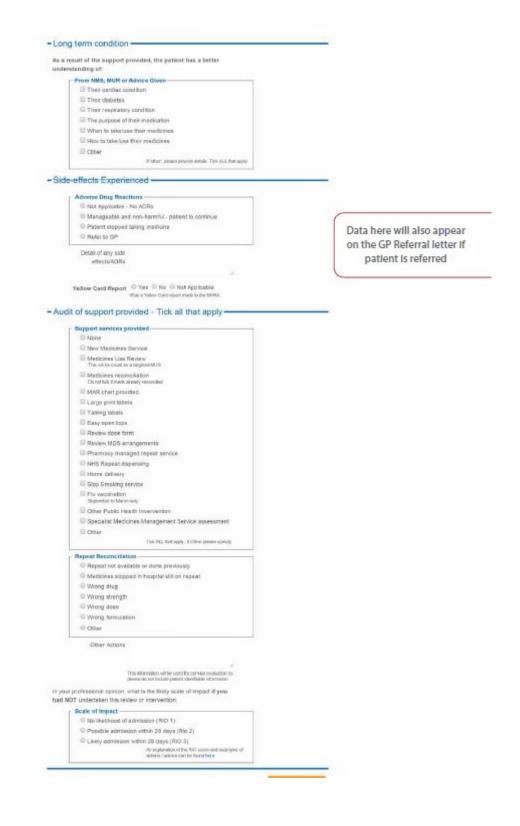
 GP Practice
 Selection from "GP Surgeries" lookup list

 Patient Information
 Patient Information: None or more of: Reported allergies; Medication changes; Other

 Further Information
 Answer to "Further Information" text box

 Recommendations:
 Recommendations: None or more of: Medicine Use Review, New Medicine Service

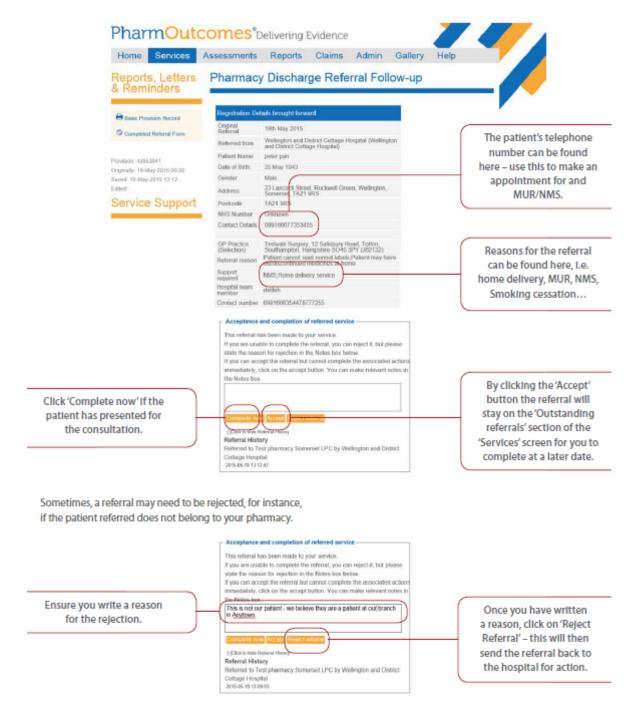
 New medicine
 Answer to "New medicine" single line input



Appendix 4 Example Community Pharmacist Completion

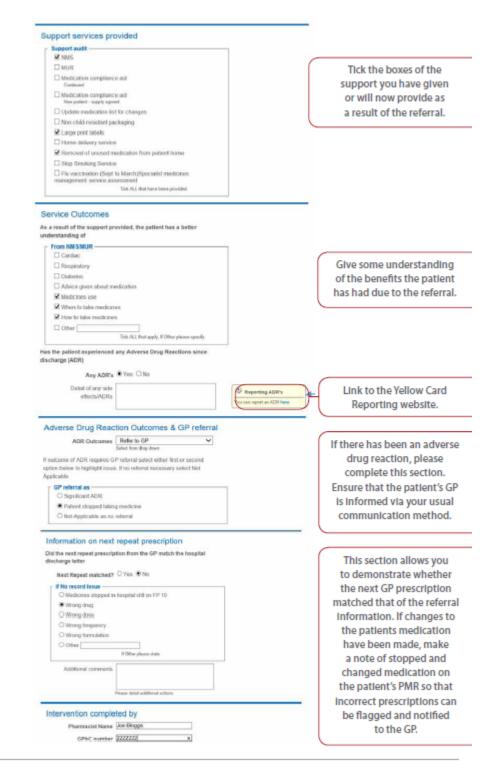
How to Accept, Complete Now and Reject Referrals

Once you click on a referral, the information submitted by the hospital will show. If the patient requires an MUR or NMS consultation, ring the patient in order to arrange an appointment for the consultation. A referral should be dealt with promptly as the maximum benefit of a NMS or MUR should be seen in the first 10 days of commencing a new medicine.



How to Complete a Referral

By clicking on the 'Complete Now' button, the system will allow you to input the results of the referral:



How to Define Completed, Accepted and Rejected Referrals

This can be found under the 'Service' tab:



There will be patients that don't attend for many reasons, for example they are housebound. In this instance you will not be able to provide an MUR but so long as you can gain signed consent, NMS phone calls can still happen. Changes such as large print labels, compliance aids etc. can all still be actioned without the presence of a patient.

Appendix 5 GDPR Electronic Transfer Data Map

Hospitals Example Hospital 1 Example Hospital 2 Example Hospital 3 Information contained in current hospital digital system Patient demographics, episode information, allergies and TTO medication Additional information intended for community pharmacy referral Notes to pharmacist € ♦ EPMA PAS EHR EHR Message Message Message Assembly Assembly Assembly HL7v2 REF^Z12 HL7v3 ITK CDA HL7v2 REF^Z12 HL7v2 MDM^T02 Pinnacle 7Bridge Message Handler within N3 Bespoke Pinnacle CaretPipe Message Handler (Encrypted) VPN N3 TLS1.2 Mutual Authentication Encryption Pharmacy ODS Code Known Pharmacy ODS Code Not Known Both referring and referral Only incomplete referring records created on PharmOutcomes. record created on PharmOutcomes. PharmOutcomes Hospital User Referral received and picked Incomplete referring records up by nominated pharmacy listed and pharmacies chosen referral records created. ۰. t Anonymised reporting of outcomes

Hospital Referral to Pharmacy - Electronic Transfer Data Map

Appendix 6

Template Project Plan

Category	Task	Start	End	Owner
	Identify Trust project lead			Trust
	Identify Trust IT lead			Trust
	Identify Trust Governance lead			Trust
Project Initiation	Identify Trust person responsible for SOP			Trust
	Identify Trust lead for research approvals			Trust
	Identify Trust person to approve go-live			Trust
	Contract in place between Pinnacle and Trust (draft available <u>here</u>)			Pinnacle/Trust
	Determine full, partial or manual approach			Trust
Project Start Up				
	Develop draft project plan with timescales and responsibilities			Trust
	Confirm approach, responsibilities and timescales with Trust leads			Trust
	Confirm approach and target launch date with person to approve go-live			Trust

	Decide and document which information is to be passed across	Trust
	Advise IT lead of information fields to be passed across (unless manual)	Trust
	Decide which patients (all or groups) to be included and how phased	Trust
	Develop standard operating procedure	Trust
Determine patients and information to	Identify and document staff to be trained.	Trust
be included in transfers	Develop training session and supporting information packs for staff	Trust
	Develop supporting information material for patients	Trust
	Schedule dates for training including rooms etc.	Trust
	Standard operating procedure and training plans complete	Trust
	Ready for go-live approved by SOP lead (<i>Milestone</i>)	Trust
	FOLLOWING ONLY NEEDED FOR FULL OR PARTIAL ELECTRONIC INTEGRATION	
	Trust Preparation	
IT Requirements	IT lead to identify if currently sending discharge information electronically to GPs	Trust
	IT lead to identify current message type in use (HL7v2, HL7v3 CPA payload, other)	Trust
	IT lead to determine transport type (HTTPS or MLLPS with TLS MA)	Trust
	IT lead to identify current PAS system	Trust
	IT lead to identify current dispensing system	Trust

IT lead to contact the integration team at Pinnacle at <u>itk.support@phpartnership.com</u> The team can also be	
contacted by telephone on 01983 216 699.	Trus
Messaging Activity	
Pinnacle to forward relevant message specification and support documentation to IT lead	Pinna
Trust to configure message with required information content (incl. a means of adding pharmacy ODS code)	Trust
Set Up Activity	
Pinnacle to add Trust to 7Bridge for routing/transport	Pinna
Pinnacle to complete 7Bridge integration documentation	Pinna
Pinnacle to create new commissioning area if required	Pinna
Pinnacle to create an Administrator user account if a new area	Pinna
Pinnacle to create Commissioner primary user if a new area	Pinna
Pinnacle to determine and add pharmacies to follow-up footprint	Pinna
Pinnacle to import Discharge Referral service from super user page	Pinna
Pinnacle to connect referral service ITK fields	Pinna
Pinnacle to add hospital as a provider with their ODS code	Pinna
Pinnacle to create user in the hospital called "dispensary system" and grant service provision rights	Pinna
Pinnacle to create a hospital super user for support use	 Pinna

Pinnacle to create a primary user for the Trust clinical/technical team	Pinnacle
Pinnacle to create appropriate users at the Trust as advised by the IT lead	Pinnacle
Pinnacle to accredit the hospital for the referral service	Pinnacle
Pinnacle to accredit all relevant community pharmacies for the follow-up service	Pinnacle
Pinnacle to add the interoperability mapping for the Trust	Pinnacle
Pinnacle to complete all supporting technical documentation	Pinnacle
Testing and Fine Tuning	
Send and receive test messages and validate for accuracy.	Trust/ Pi
Refine the data set with the clinical team until correct.	Trust/ Pi
Discharge messages with all relevant content being sent accurately (Milestone)	Trust/ P
Pinnacle to document agreed final configuration	Pinnacle
User Support Material	
Trust to provide any locally required user guides	Trust
Any IT training requirements included in planned training.	Trust
Pinnacle to ensure generic and locally supplied user guides are accessible	Pinnacle
IT Sign-Off	
Ready for go-live approved in writing by IT lead (<i>Milestone</i>)	Trust

Information Governance Requirements	Trust IG lead to identify and document any information governance queries.	Trust
	Trust IG lead to send any queries to Pam Bowes at Pinnacle at pam.bowes@phpartnership.com or call on 01983 216699.	Trust
	Pam to respond to any queries and follow ups until IG lead satisfied.	Pinnacle
	Trust Privacy Impact Assessment prepared and approved if required (Pinnacle Template available here)	Trust
	SLA with Data Processing Agreement in place with Pinnacle (available here)	Trust/Pinnacle
	Any IG training requirements included in planned training	Trust
	Ready for go-live approved in writing by IG lead (<i>Milestone</i>)	Trust
Optional Research and Evaluation	Trust to determine approach and lead on research proposals	Trust
	Trust lead to identify any local requirements	Trust
	Trust lead to obtain clearance for research from local board and IG as appropriate	Trust
	Researcher develops / amends study protocols as required	Trust
	Ready for go-live approved in writing by research lead (Milestone)	Trust
Pre Go-Live	Confirm required approvals to progress have been signed-off	Trust
	Agreed start date for live message transfer agreed with Pinnacle	Trust / Pinn
	Trust formal GO-LIVE DECISION approved in writing (Milestone)	Trust

	Staff training delivered	Trust
	Community pharmacy training delivered	Trust
	Trust project lead confirms training delivered and Trust good to go.	Trust
	Pinnacle confirms company is ready to start receiving live messages.	Pinnacle
	Live transfer of discharge information to community pharmacy begins. (<i>Milestone</i>)	Trust / Pinn
	Pinnacle monitors messaging for transmission errors	Pinnacle
	Community pharmacists carry out follow-ups as appropriate	Com Pharm
	NHSE, AHSN and Trust monitor reports and activity.	Trust
	Post implementation check between Trust, NHSE and AHSN	Trust
Post Go-Live	Trust implementation sign-off recommended in writing by Trust leads.	Trust
	TRUST IMPLEMENTATION SIGN-OFF confirmed in writing (<i>Milestone</i>)	Trust
	Evaluation research report completed	Trust
	Evaluation report approved for distribution (<i>Milestone</i>)	Trust
	PROJECT SIGNED OFF as complete (Final Milestone)	Trust