APPENDIX I

Task list and definitions

Review

Review of medication chart and/or medical notes. The process of reading or clinically assessing the medication chart, reading and writing notes in the record, or calculating doses. It starts when the pharmacist picks up (logs in) and reads/annotates the medication chart/medical notes and ends when the next task is observable.

Includes	Excludes
Review the medication chart	Looking for the medication chart
Reviewing medical notes	Transcribing
Reviewing pathology results	History taking
Reviewing handover	Medication discussion
Ordering tests for TDM	Discharge medication review
Signing the medication chart	Discharge reconciliation and checking
Reviewing and signing the medication chart	the discharge prescription with the
during ward round	medication chart and/or medication
Annotating drug chart	history and reconciliation form.
Checking missed doses	

Discharge medication review (D/C med rev)

The process of reviewing medications on discharge, or entering information to an EDS anytime during the admission. It starts when the pharmacist reviews the medications within the electronic discharge summary and ends when the next task is observable.

Includes	Excludes
 Reconciliation within the electronic discharge summary Ascertain regular medications at the point of discharge Reconciliation against inpatient chart and admission history Checking the EDS that the doctor has prepared Transcribing from drug chart into EDS 	 Review History taking Transcribing

History taking (Hx taking)

The process of information gathering, in particular taking a medication history and reconciling medications on admission or anytime time during hospital stay. It starts when the pharmacist collects data (from a variety of sources), which may be recorded on a medication history/reconciliation form and ends when the next task is observable.

Medication discussion (Med disc)

The process of taking about anything related to medications including communicating interventions, taking orders, and other medication related communication, initiated by anyone. It starts when the pharmacist engages in a medication related discussion and ends when the next task is observable.

Includes	Excludes
 Conversations and communication about medications with anyone (doctor, nurse, pharmacist, patient, etc). Phone calls and talking face-to-face with another Clinical conversations on the ward round Questions to medical or nursing staff about discharge prescription Phone calls, fax or written communication to external providers Asking a patient about medications that have been started in hospital Any conversation with the patient and/or carer about how to use or obtain medication. The process of clarifying medication issues 	 History taking Discharge dispensing Meetings Social activities Communication

Communication (Comm)

Work-related discussion

The process of communicating with other health professionals about work-related things excluding medications. It starts when the pharmacist engages in a work-related conversation that is not about medications and ends when the next task is observable.

Includes	Excludes
Any discussion about work,	Any discussion about
patients, handover.	medications.
	Social activities

Social conversation

The process of having a social conversation. It starts when the pharmacist engages in a conversation that is not medication or work related and ends when the next task is observable.

Includes	Excludes
Any discussion about the weekend,	Any discussion about
weather and other social things.	medications.
	Social activities

Drug reference (Drug ref)

The process of seeking drug information from references. It starts when the pharmacist consults reference material and ends when the next task is observable.

Includes	Excludes
Consulting reference material	Medication discussion
Contacting Medicines Information	History taking
calculating drug dosages	•

Supply

Dispensing

The process of dispensing medications for patients at discharge. It starts when the pharmacist starts dispensing and ends when the next task is observable. Any activity in the dispensary.

In	Includes		Excludes	
•	Phone calls or conversations to		Medication discussion	
	obtain health benefit entitlement	•	Work-related discussion	
	numbers	•	History taking	
•	Dispensing (data entry, product	•	Providing drug/health information	
	selection, labelling and checking)			
•	Checking items dispensed by			
	technician			
•	Any activity in the dispensary			
	related to dispensing			

Stock

The process of maintain ward stock. It starts when the pharmacist establish the need to replenish stock and ends when the next task is observable.

Includes	Excludes
Phone calls or conversations to	Medication-related discussion
order drugs	Work-related discussion
 Supplying drugs for ward stock or 	Discharge dispensing
bedside drawers including	Review
dispensing for individual patients	
Destruction of expired medication.	S
Review of drug requisition book	
Any activity undertaken on the wa	rd
relating to medication supply	

Transcribing

The process of writing medication orders either re-writing or checking a drug chart, supervise charting, independent prescribing or training a prescriber how to use the electronic medicines management system (eMMS) to order medications. It starts when the pharmacist checks, transcribe or supervise drug charting and ends when the next task is observable.

Transcribing

Includes	Excludes
Re-writing drug chart	Medication discussion
Checking re-written drug	Prescribing

Supervised charting

Includes		Excludes
•	Sitting down with a prescriber and	Prescribing
	entering medication orders based	Training prescribers how to order
	on guidelines and local protocols	medications in the eMMS

Training of prescribers to use eMMS

In	cludes	Excludes
•	Explaining or showing prescribers	 Independent prescribing
	how to use the eMMS to prescribe	Medication discussion
•	Showing prescribers shortcuts to	
	use to make prescribing easier	
•	Talking with a doctor about a	
	medication if the notion is to show	

them how to prescribe	

Prescribing

Includes	Excludes
Prescribing initiated by pharmacists	 Supervised charting (where the doctor prescribes)

Non-clinical tasks (non-clin tasks)

Looking for something

The process of locating something. If walking to the place where folders are usually kept (in transit) but can't find the folder and starts looking around (looking for something). It starts when the pharmacist starts looking around for something and ends when the next task is observable.

Includes	Excludes
 Looking for drug chart, notes, colleague, drugs, drug cupboard keys, computer. Patients' own medications. Looking for telephone/pager numbers/name of doctors, patient, 	 Waiting for located thing to become available. Medication discussion Communication In transit
 family member/carer. Walking up and down corridor to locate the chart, notes etc. Asking colleagues where the chart, notes etc. is. Looking for equipment including computers 	

Waiting

The process of waiting for something to become available once located. It starts when the pharmacist has located notes, chart etc. and is waiting for it to become available and ends when the next task is observable.

Includes	Excludes
Waiting for drug chart, computer,	 Looking for something.
notes, fax, colleague to become	 Waiting on the phone to talk to
available	GP (WHAT History taking; WITH
	Dr; HOW phone)
	 Waiting for fax to go through

In transit

The process of changing location while physically moving. It starts when the pharmacist starts walking and ends when the next task is observable.

Includes	Excludes
Walking from pharmacy to ward	Looking for something
From ward to ward	Walking within bay/room
Pharmacy to pharmacy (main to	Walking within a defined area
satellite)	(dispensary, or nurses' station)
Ward to pharmacy	
Lifts and stairs	

Social activities/private

The process of doing something that isn't work-related. It starts when the pharmacist stops doing work-related tasks and ends when the next task is observable.

Includes	Excludes
Tea breaks	Medication discussion
Lunch breaks	Communication
Bathroom visits	Meetings

Meetings

The process of coming together for a formal discussion. It starts when the pharmacist attends a meeting and ends when the next task is observable.

Includes	Excludes
Staff meetings	Ward rounds
Educational meetings including	Social activities
teaching nurses and other	Supervising a student
professional	

Break

- 1- The process of waiting for pharmacist to finish a task with a patient for whom we don't have consent to observe.
- 2- When a task cannot be observed fully in order to respect the privacy of a patient.
- 3- When the observer is engaged in conversation.

Other

Work management

The process of gathering things/getting ready/organising the work. It starts when the pharmacist is organising their work and ends when the next task is observable.

Includes	Excludes
Printing patient lists	Review
Getting portable devices ready	Looking for something
All administrative tasks not related	Communication
to clinical tasks e.g. financial	
planning	

Other

The process of doing something not defined above.

Includes	Excludes
Incident reporting	All activities defined above.
Intervention report	Teaching/supervision (not a
Data collection	specific task but should be
Getting someone to fluff patient's	recorded as, for example, Review
pillow	with Pharmacist).

APPENDIX II

Pre-ePrescribing implementation interview topic guide

- What is your background and current position?
- What is your experience of ePrescribing?
- Which medication related activity takes longest now? do you have a sense of what proportion of your time you devote to this activity
- Which medication related activity do you think you should devote the most time to? Why? How could you change your workflow to allow that?
- If you could design the ePrescribing system, what one functionality would you want to include? Why?
- Which medication related activity do you think will be most affected by ePrescribing – why and how?

Post - ePrescribing implementation interview topic guide

- What is your background and current position?
- What is your experience of ePrescribing?
- How long have you been using ePrescribing?
- Which medication related activity takes longest now? Do you have a sense of what proportion of your time you devote to this activity?
- Which medication related activity do you think you should devote the most time to? Why? How could you change your workflow to allow that?
- Does the ePrescribing system have the functionality you wanted included? If so which is it? If not, what one functionality would you have wanted included? Why?
- Which medication related activity do you think has been most affected by ePrescribing why and how?