

**NHS** National Institute for Health Research

Collaboration for Leadership in Applied Health Research and Care (CLAHRC) Greater Manchester

# Electronic Long-term Conditions Integrated Assessment Tool (GM-ELIAT)

User Guide: Excel version

### Introduction

The purpose of this guide is to assist new or prospective users of the GM-ELIAT to become familiar with the tool, providing a smooth transition from paper assessment or other electronic assessment forms to the GM-ELIAT.

The GM-ELIAT has been designed for use by all members of a multidisciplinary health and social care team to provide a shared assessment and care planning process for patients with multimorbidity (two or more long-term conditions (LTCs)).

This guide has been written assuming that you have prior experience of conducting assessments for patients with multimorbidity. It provides an insight into the model's prototype created in Microsoft Excel 2010. To function as a fully integrated tool for sharing an assessment and care planning process across a multi-service integrated team, the GM-ELIAT should be built into a clinical system that provides access to a range of health and social care services. Within a clinical system, it is likely to look completely different and some aspects of the tool may not be compatible with the system it is embedded into, however, the concept will be the same. If you are reading this guide in preparation for procuring a clinical system to deliver the GM-ELIAT, this guide will hopefully provide enough information to assist you and your chosen clinical system provider to create a personalised version of the GM-ELIAT that meets the needs of the health and social care professionals using the tool and the patients/clients who will benefit from such a system.

The GM-ELIAT is organised into four main domains; Physical, Psychological, Social and Spiritual needs to offer a patient-centred LTC assessment of needs. Prior to the main assessment, baseline information is gathered across the six areas listed below:

- Demographic details
- Assessment details
- Medical and Surgical history
- Health and Social Care support
- Self-reported health and social needs
- Investigations.

To navigate through the tool, click on the desired section from the menu bar to the left. When entering information it may take several seconds to activate, pressing enter once usually assists the process. The pages listed above will now be described in more detail.

#### **Demographic Details** 1

- a Open the GM-ELIAT and click on the 'options' button then click to 'Enable this content'.
- **b** On opening the tool, the first page displayed will be 'Demographic details' (Figure 1).
- c Click on the empty cells; if there is a drop down box to chose options from, an arrow will appear, click on the arrow to reveal the contents. If there is no arrow, add free text.

- d Add a date of birth using a four digit year format. The patient's age will then appear. A number of the GM-ELIAT's calculations require an age to function; therefore it is important that a DOB is added.
- e In verbal consent, if you click on 'yes with limitations' a free text box will appear for you to add details.

Demographic Details	Electronic L	TCs Integ	rated Assessme	ent Tool (GM-	ELIAT)
Assessment Details					
	Demographic Details				
. Medical history	Surname			Empl situation	
Medication	Preferred name			Occupation	
Allergies/sensitivities	First Name			Marital status	
Support (Services)	Patient ID			1	
Self reported needs	Date of birth			Age	
Investigations	Gender				1
Physical needs	Address of patient				
ardiovascular	Ethnic Origin				
ndocrine/Metabolic	Preferred spoken language				-
espiratory	Interpreter required				
lusculoskeletal	Religious/ belief affiliation				7
eurological					
ognitive	Does the person being asses	sed have an	y caring responsibilit	ies?	
ensory	GP Details				
DL	Name of GP			GP GMC ref no	
ological	Address of GP				
astrointestinal	Email of GP			Contact no	
ssue Viability	Pharmacy details				
CP	Name of pharmacy			Contact no	
, chological needs	Address of pharmacy				•
cial needs	Contact details of:	Name:		Contact no	Relationship
itual needs	Next of kin				
dherence	Informal carer				
mmary	Formal carer				
e Plan	Representative/ attorney				
	Other				
P Correspondence	Personal information				
ient Enablement	Sexual orientation			Pregnant?	
				regnanti	1
	Verbal consent				
	Obtained for assessment			Obtained from	
	Obtained for sharing inform	ation		Obtained from	
	Does the patient agree to ca		members being		
	asked views or being involv	ed in their as	sessment?		
	Is a Lasting Power of Attorne	ey registered	? (Details above)		
	Further details/comments				
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#### Figure 1: Front page displaying demographic details

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### 2 Assessment Details

- a Add key professionals details using free text for 'Name' and the drop down box for 'Role'.
- **b** Add important information concerning access to the patient's home to share with other members of the integrated team (Figure 2).
- c Provide referrer information.
- d Add information about those present at the assessment, location, date, time etc.
- Figure 2: Assessment details

- e Click on 'Select completed sections' and a box will appear, tick the systems that you will be assessing (or have assessed if completed at the end). This can be used as an audit trail and to aid communication between those involved in the patient's care.
- **f** When the date and time of assessment is completed, a new box appears for a new assessor to add details.

mographic Details	Electron	ic LTCs Integrated A	ssessment Tool (GI	M-ELIAT)	
sessment Details	First Name	Surname	NHS Number		
Aedical history	Thistitume	Jumunic			
edication					
ergies/sensitivities	Key professional	's details	1		
pport (Services)	Name:		Role:		
If reported needs	indiric.		Community Matror		
estigations			community matro		
vsical needs	Contact details:				
ovascular					
rine/Metabolic		t this time that the person	has capacity to make		
atory	significant decision	s?			
loskeletal	Access				
rological	Any risk to staff visi	ting? (pets etc give details)			
nitive		• •			
ory	How is access to the	e home obtained?			
	Permission to have	key safe/ code? (incl code)			
ogical	Referral details				
trointestinal					
e Viability	Referred by:		Referrers role:	Ref date:	
hological needs					
al needs	Contact details:			Ref route:	
itual needs					
dherence	Is the natient/ clien	t aware of the referral?			
mmary					
re Plan	Is the family aware	of the referral?			
Correspondence	GP notification requ	uired?			
nt Enablement	Assessment Deta	ails 1			
	Others present (na	me) during assessment:	Relationship:		
		,			
	Other second second		Deletionality		
	Others present (nai	me) during assessment:	Relationship:		
	Assessment comple	eted by (name):	Role:	Time:	
	Sections completed	i:			
	Questions and	d bu	Leastion	Data	
	Questions answere	a by:	Location:	Date:	
	Further details/con	nments			

### **3** Medical/Surgical History

- a Click on the boxes (right of screen). These open dialogue boxes allowing you to tick conditions to complete the patient's family history, medical and surgical history, allergies, prescribed and non prescribed drugs (Figure 3).
- **b** Record whether immunisations are up to date by choosing options from the drop down boxes.
- c Record alcohol consumption. A blue prompt box will appear if patient consumes alcohol, asking you to complete the Audit C questionnaire. Click on the 'Audit C' box (in the 'Risk assessment' section) to activate the questionnaire. You need to complete all sections of the Audit C for the result to appear (this applies to all questionnaires within the tool).
- d If you select smoker or ex-smoker, text in the boxes to the right will appear asking for more information. If you are connected to the internet you can access the 'Pack years' calculator by clicking on the icon next to pack years. Write the result in the 'Pack years' cell. The information entered will be added to the 'Risk assessment' section.
- e Use the 'Further details/comments' box to add more detail or comments as free text.

Elect	ronic LT(	Cs Integrated /	Assessment To	ol (GM-ELIAT)			
First Name		Surname		NHS Number			
Section 1. Medical/Surgio	al history						
Presenting problem(s)							
Family history		L				Select conditions in	
						family	
Medical conditions						Select Medical	
						conditions	
Past surgery/procedures						Select Past Surgery/Procedures	
Medication							
Medication	Dose	Frequency	Medication	n Dose	Frequency	Select Regular medication	
Medication (not listed)						Nutritional su	upplements can be
Medication	Dose	Frequency	Medication	n Dose	Frequency	entered in End	docrine & Metabolic
Inhaled medication				I			
Medication	Dose	Frequency	Medication	n Dose	Frequency	Select Inhaler medication	
Vaccines							
Pneumococcal		Influenza		Shingles			
Allergies/sensitivities						Select	
Alashal assessed as						Allergies/sensitivities	
Alcohol consumption							
Tobacco use							
						Select Recreational	
Current recreational drugs						drugs	
Previous recreational drug u Risk assessment	ise					Select previous recreational drugs	
Further details/comments						- cereational or dgs	
						1	

#### Figure 3: Medical and surgical history page

### 4 Health and Social Care Support

- a Record details of hospital admissions (this could be used for audit purposes).
- **b** Select the services/health and social care professionals by clicking on the boxes on the

right of the screen to record the support that the patient is currently receiving (Figure 4).

**c** Use the 'Further details/comments' box to add more detail or comments as free text.

rst Name	Surname	NHS Number	1
ection 2. Support			
	nospital in the last 6 months?		
re arrangements			
ealth care support			Select Health Servio
cial care support			Select Social Servic
irther details/comments	Health care support		
	-		
	☐ None		Save Selections
	A-0 0-z		
	C Active Case Manager	🗖 Dementia care	Intermediate Care Service
	Cardiac Rehabiliation Team	Diabetic specialist nurse	Leg Ulcer Service
	Cardiologist	Diabetologist	Macmillan Nurse
	Community matron	☐ Dietician	☐ Medicines Management Team
	Community Neuro Rehab Team	C District nurse	Memory Clinic
	Consultant Nurse Rheumatology	□ Falls Prevention Service	Mental Health Team
	Continence service	General Physician	Cccupational Therapist
	Cummunity Rehab Team	☐ Heart failure specialist nurse	Colder Peoples Mental Health Team

#### Figure 4: Health and Social Service Support page

### **5** Self reported health and social needs

- a Enter the patient's own perceptions of health and social needs. The information could be collected via a leaflet given or sent to the patient prior to the assessment or if the clinical system is set up to provide access to patients, this could be completed on-line by the patient and then discussed during the consultation.
- **b** If the patient is self monitoring his/her BP, BM, or weight at home, readings can be added (Figure 5).
- c If support to make health and social decisions is selected, a blue prompt box will guide you/the patient to select support options.

Multiple selections can be made by clicking on 'Health and Social care Decisions'.

- d Heath and social care goals can be added. As a date for the goal to be achieved is entered, text boxes below are revealed for adding steps to achieving the goal and how the achievement will be celebrated.
- e Another goal box is revealed as one is completed; up to four in total.
- f The 'Further details/comments' box can be used for adding more information as free text.

Electronic LTCs Integrated Assessment Te	ool (GM-ELIAT)	
First Name Surname	NHS Number	
Section 3. Self reported health and social needs		
Health or social needs		
Perception of own health		
Self monitoring readings (most recent)       Reading       Date         BP	Reading     Date	Click on Health and Social Care Decisions box to Identify support needed for making decisions Health and Social Care
Health or Social goal 1:  Steps needed to achieve this goal: How will this achievement be celebrated?	Date to be achieved by:	Decisions
How will this achievement be celebrated? Further details/comments		

#### Figure 5: Self reported health and social care needs page

### **6** Investigations

- a Investigation results appear on the 'Physical' and 'Psychological needs' pages but can only be entered via the 'Investigations page'.
- b The left hand column result is the one that appears on the relevant page (in most cases) e.g. an ACR result entered in the left hand column, 2nd row down will appear on the 'Cardiovascular' page.
- c If results are abnormal, risks associated with abnormal results will appear in the risk assessment section of the relevant page; for example, one eGFR reading below 60 mL/min will produce a CKD risk and three will give a

CKD stage. It is important, therefore, to enter all investigation results. Ideally, if embedded into a clinical system, investigation results would populate from the system.

- d Prompts boxes appear for guidance as show in Figure 6.
- e Hover over the red triangle in cells with abbreviated text to show full title of test.
- f Use 'Further details/comments' box to add more details or comments as free text.

athology	Result	Date		Result	Date		Result	Date	
GFR (1)	56		eGFR (2)	51		eGFR (3)			0
CR (mg/mmol)	3.2		ACR (mg/mmol)	2.6		ACR (mg/mmol)			
CR (mg/mmol)			PCR (mg/mmol)			PCR (mg/mmol)			
lbA1c	56		HbA1c			HbA1c			
NP			BNP			BNP			`
IT-ProBNP			NT-ProBNP			NT-ProBNP			1
ISU			MSU			MSU			1
							Obt	tain a minimu	im of three GFR
ther Investigations							esti	imations over	a period of not
roteinuria (dipstick)			Proteinuria (dipstick)			Proteinuria (dipstick)			s. In people wit
litrites (dipstick)			Nitrites (dipstick)			Nitrites (dipstick)		v finding of re	duced eGFR, within 2 weeks t
laematuria (dipstick)			Haematuria (dipstick)			Haematuria (dipstick)		lude causes o	
ilucose (dipstick)			Glucose (dipstick)			Glucose (dipstick)			newly prescrib
eucocytes (dipstick)			Leucocytes (dipstick)			Leucocytes (dipstick)		ACE/ARB (NIC	
etones (dipstick)			Ketones (dipstick)			Ketones (dipstick)			
M			BM			BM			
VEF			LIVER			LVEF			
EV1	Forced Ex	xpiratory Vol	ume in One Second			FEV1			
EV1%			FEV1%			FEV1%			
ATs % with air			SATs % with air			SATs % with air			
ATs % with O2			SATs % with O2			SATs % with O2			1
ast optometry examinat			Previous optometry exam			Previous optometry exam			
ast optometry examinat	ч <u></u>		Freetous optometry exam			revious optometry exam		1	

#### Figure 6: Pathology results and other investigations

## 7 Physical needs

### Introduction

The Physical needs section follows Investigations and is the largest domain covering the following systems. Each appear on a separate page, arranged to help you progress through the assessment in a logical order:

- 7.1 Cardiovascular (p10)
- 7.2 Endocrine and Metabolic (p11)
- 7.3 Respiratory (p12)
- 7.4 Musculoskeletal (p13)
- 7.5 Neurological (p15)
- 7.6 Cognitive (p16)

These sections will now be described in more detail.

- 7.7 Sensory (p17)
- 7.8 Activities of Daily Living (ADL) (p18)
- 7.9 Urological (p19)
- 7.10 Gastrointestinal (p20)
- 7.11 Tissue Viability (p21)

### 7.1 Physical needs: Cardiovascular

- a Record the patient's symptoms by selecting 'Yes' from the drop down box.
- **b** Hover over the red triangles for an explanation of abbreviation or more information.
- **c** Prompts or clinical evidence appear in the blue boxes to the right of the screen.
- d If 'Yes' is selected for SOB and heart failure was selected on the 'Medical history' page, the NYHA classification will appear. The classification chosen will appear in the 'Risk assessment' section.
- e Complete the Framingham Risk Calculator by clicking on link then enter result manually.
- f Risks appear in the 'Risk assessment' section as cells are completed, some also use information entered on other pages, for example, the CHA<sub>2</sub>DS<sub>2</sub>-VASc score is calculated from age, gender and diagnoses, it is important, therefore, that demographic information is completed to obtain accurate results.
- **g** Links to relevant clinical guidelines appear at the bottom of the screen (Figure 7).

First Name		Surname		NHS Number	
Section 5. Physical nee	ds - Cardiova	scular			
Symptom review					
SOB	Yes	Chest tightness		Chest pain	
OB triggered by (1)		SOB triggered by (2)		SOB triggered by (3)	
OB relieved by (1)	<u> </u>	SOB relieved by (2)		SOB relieved by (3)	
Orthopnoea	<u> </u>	PND		Palpitations	
Dizziness	Ļ	• Syncope		Claudication	
atigue	<u> </u>	Sexual dysfunction			
Add symptoms not listed					
Clinical examination					Click the image to access the
Pulse: rate		Systolic BP	150	Foot pulses	Framingham Risk Calculator.
Pulse: rhythm		Diastolic BP	80	Peripheral oedema	Record 10 year MI risk %
Heart sounds		Postural hypotension		Ankle oedema	
IVP				10 year MI risk %	<b>*</b>
Pathology					
HB		wcc		MCV	
odium		Potassium		Urea	
Creatinine		ACR (mg/mmol)	3.2	PCR (mg/mmol)	0
eGFR (1)	56	eGFR (2)		eGFR (3)	~
Fasting TC		Fasting LDL		Fasting HDL	
Fasting TG		LFTs			
TSH		T3		T4	
BNP		NT-ProBNP			
Other Investigations					
Proteinuria (dipstick)		Haematuria (dipstick)		Leucocytes (dipstick)	Diagnosis of AF: CHA2DS2-VASc
Nitrites (dipstick)	<u> </u>	Glucose (dipstick)		Ketones (dipstick)	score has been calculated as
Echo (TTE)		LVEF		Stress Echo	recommended by (NICE 2006,p7
ECG	<u> </u>	CXR		Angiography	and (ESC 2012) below.
		CAR		Anglography	
Risk assessment					
CHA <sub>2</sub> DS <sub>2</sub> -VASc score = 3		Adjusted stroke rate (%/y	r) = 3.2	Moderate stroke risk	
				NYHA Classification III	
3P above Target		/		-	
CKD Risk		Microalbuminuria		×	
urther details/comment	5				
Clinical tools/Clinical evid	lence				
innear toolsy chinical evic	lence				
POP	POF	Por a	FOF	RC#	
Adobe	Adde	Addre	An		
CHA2DS2VASc	NICE (2006)	ESC (2012) Update		- ADM	
score	Management of	of guidelines for AF	NICE (20	D08) BSE(2011)	

#### Figure 7: Cardiovascular page

### 7.2 Physical needs: Endocrine and Metabolic

- a As for the cardiovascular page and future pages, click on the drop down boxes to record symptoms, hover over red triangles to reveal text, find prompts and clinical evidence in the blue boxes to the right of the screen and click on links for risk calculators and clinical guidelines (if connected to the internet).
- **b** Selecting 'Yes' for some symptoms will reveal additional symptoms for a more detailed assessment.
- c Risks such as obesity and malnutrition are calculated from symptoms and clinical measures.
- d Where recommended clinical indicators have not been completed, a warning will appear, such as the 9 key tests for diabetes (Figure 8).

		Surname		NHS Number	
ection 5. Physical needs	- Endocrine	and Metabolic			
mptom review					
atigue		<ul> <li>Recent weight gain</li> </ul>		Recent unplanned weight	loss
ysphagia		Difficulty losing weight		Amount of weight loss (kg)	)
lutritional intake/last 5 days	5	Loss of appetite		Terminal cachexia	
nteral nutrition		Perenteral nutrition		IV infusion	
ecent hypoglycaemia		Recent hyperglycaema		Sexual dysfunction	
cessive thirst		Passes urine ≥7 times 24hrs		Blurred vision	
imbness		Slow wound healing		Fruity odour	
nical examination					
eight (m)	1.62	Weight (kg)	78.2	Waist circumference (cm)	
oot pulses		Foot sensation		Foot deformity	
otwear		Jaundiced		Foot ulceration	
thology					
DA1c	56	FPG		OGTT	
3		WCC		MCV	
dium		Potassium		Urea	
eatinine		ACR (mg/mmol)	3.2	PCR (mg/mmol)	
GFR (1)	56	Fasting TC		Fasting LDL	
sting HDL		Fasting TG		LFTs	
H		T3		T4	
her Investigations					
oteinuria (dipstick)		Haematuria (dipstick)		Leucocytes (dipstick)	
trites (dipstick)		Glucose (dipstick)		Ketones (dipstick)	
tinal Imaging		dideose (dipstick)		Records (dipstrong	
k assessment					
/II = 30					
verweight loving & Handling weight so		CKD Risk		Microalbuminuria	
<u> </u>		CKD RISK		Microalbuminuria	
abetes 9 key tests not com	piete				
rther details/comments					
utritional Supplements					
Supplement	Dose/ fre	q Adm Sup	plement	Dose/ freq	Adm
linical tools/Clinical eviden	ce				
			_		
POP	POF		POP A	-	
Adube	Adobe	- Anne	Add	Adde	
MUST NIC	E (2006) Obesity	NICE (2004) Clinical guideline 10	NICE (20) Type 2 diab	11) WHO (2006)	

#### Figure 8: Endocrine and Metabolic page

### 7.3 Physical needs: Respiratory

- a If indicated by symptoms, a prompt box will appear guiding you to complete the COPD Assessment Test (CAT). Once completed, the result and an interpretation will appear in the 'Risk Assessment' section.
- b If patient is asthmatic, a prompt box will appear to guide you to complete the Asthma Control Test (ACT). The result and an interpretation will appear in the 'Risk Assessment' section (Figure 9).
- Figure 9: Respiratory page
- Electronic LTCs Integrated Assessment Tool (GM-ELIAT) First Name NHS Numbe Section 5. Physical needs - Respiratory Symptom review sputum Frequent winter bronchitis Cough Chest tightness Haemoptysis SOB Yes SOB triggered by (1) SOB triggered by (2) SOB triggered by (3) SOB relieved by (1) SOB relieved by (2) SOB relieved by (3) Orthopnoea PND Childhood asthma F/H of asthma Fatigue **Clinical examination** RR Peripheral oedema Percussion Temp (°C) Pulmonary oedema Tracheal deviation Added breath sounds Chest expansion Pallor Breath sounds Using accessory muscles Cyanosed Pathology НВ wcc мсу Sodium Potassium Urea Creatinine PCR (mg/mmol) ACR (mg/mmol) 3.2 eGFR (1) 56 Fasting TC Fasting LDL LFTs Fasting HDL Fasting TG TSH тз т4 Other Investigations FEV1 CXR PEFR SATs % with O<sub>2</sub> CT Scan FVC FEV1% SATs % with air **Risk assessment** ACT score = 13 Asthma not controlled BMI = 30 Further details/comments Clinical tools/Clinical evidence POF **\*** Land Jun NICE (2010) COPD CAT (2009) User guide

- c Add symptoms not listed as required.
- d Add further details/comments as for other pages.

### 7.4a Physical needs: Musculoskeletal (pain)

- a If 'Yes' to joint, muscle or tendon pain is selected, a prompt box will appear to guide you to complete the 'Body Map' to specify the location of the pain (Figure 10).
- **b** Up to three options can be selected to describe the type of pain.
- **c** Up to three options can be selected to specify how the pain is relieved.
- d A prompt box will appear to guide you to complete the adherence to therapy page if poor manual dexterity is selected.

Electroni	c LTCs Integrated Asse	essment Tool (GM-ELIAT)	
First Name	Surname	NHS Number	
Section 5. Physical needs - Mu	sculoskeletal		Click on Body Map to identify location of pain as reported b patient
Symptom review			patient
Joint pain Yes	Mus Body Map (Pain)	Contraction (see	
Chronic pain	Acu	And the second s	and the second se
Description of Pain (m1)	Des Selections		[]
Pain relieved by (m1)	Pain R Hip	R Knee	Save Selections
loint stiffness	Join		Save Selections
Fatigue	Poo LHip		L
Add symptoms not listed	LKnee		Clear Selections
Clinical examination	L Kiee	19	clear selections
Crepitus	Syne		
Joint Inflammation	Ten		
Pathology		R L L L	8 L
HB	wcc	$\langle z z \rangle$	IN AN
Sodium	Pota		9/3 EV
Creatinine	ACR		18 51
eGFR (1) 56		(1, 1, 1) $(VV)$	1.31 11.3
Fasting HDL	Fast		
TSH	T3	10.11 1.4.7-1-1	MM
Rheumatoid factor	CCP	A A AN	$\left  \right\rangle \left  \left  \right\rangle \right $
Other Investigations		$l(  \mathbf{y}   \mathbf{y}) / (  - \mathbf{y}   \mathbf{y})$	$( \neg / \langle \neg \rangle )$
X-ray	MRI		
CXR			
Risk assessment			
Pain severity		( Y ) $(Y)$	/ / / /
Abbey pain scale			
Further details/comments			
		here land	
Clinical tools/Clinical evidence			
the second se			
	Click on th	e image above to select the locations of pain	
BPI (2006) Assessment of p			
in older peopl (2007)	le l		

#### Figure 10: Body Map for locating musculoskeletal pain

# **7.4b Physical needs:** Musculoskeletal (severity and interference with daily activities)

- a On completion of the body map a prompt box will guide you to complete the 'Brief Pain Inventory' (BPI) to assess the severity of the pain and how the pain interferes with daily activities. For patients with cognitive impairment, an alternative is offered; the Abbey pain scale (Figure 11).
- **b** Add symptoms not listed as required.
- c Add further details/comments as required.

#### Figure 11: Brief Pain Inventory scores

in older people (2007)

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Ele	ctronic LT	Cs Integrated Assess	sment To	ool (GM-ELIAT)	
First Name		Surname		NHS Number	
Section 5. Physical nee	ds - Muscule	oskeletal			
Symptom review					
Joint pain	Yes	Muscle pain		Tendon pain	Part Mar
Chronic pain		Acute pain		Acute on chronic pain	Body Map
Description of Pain (m1)		Description of Pain (m2)		Description of Pain (m3)	
R Hip		L Hip		L Knee	
R Knee					
Pain relieved by (m1)		Pain relieved by (m2)		Pain relieved by (m3)	
Joint stiffness		Joint weakness		Joint deformity	Complete Adherence section to
Fatigue		Poor manual dexterity	Yes		assess beliefs/difficulties
Add symptoms not listed				•	regarding adherence to therapy
Clinical examination					
Crepitus		Synovitis		Myositis	-
Joint Inflammation		Tendonitis			
Pathology					
нв		wcc		MCV	-
Sodium		Potassium		Urea	
Creatinine		ACR (mg/mmol)	3.2	PCR (mg/mmol)	
eGFR (1)	56	Fasting TC		Fasting LDL	
Fasting HDL		Fasting TG		LFTs	
TSH		Т3		T4	
Rheumatoid factor		ССР		СРК	
Other Investigations					
X-ray		MRI			
CXR					
Risk assessment					
Pain severity score = 4		Moderate pain		Pain relief score = 40%	x
Pain interference score =	4	Moderate interference to	life	Last pain relief (hrs)	
Further details/comment	s				
Clinical tools/Clinical evid	dence				
	POP				
	ssment of pain				

### 7.5 Physical needs: Neurological

- a Complete assessment to determine a risk of falls which will appear in the 'Risk assessment' page.
- b Determine whether pain is neuropathic if 'Yes' to pain is selected by completing the LANSS questionnaire.
- **c** The result and interpretation of the BPI will populate to this page from the musculoskeletal page, if completed (Figure 12).
- d Complete the Modified Rankin Scale (mRS) when prompted if patient has a diagnosis of Stroke.
- e A prompt will appear to complete the Sensory page if aphasia is selected.

#### Electronic LTCs Integrated Assessment Tool (GM-ELIAT) First Name Section 5. Physical needs - Neurological Symptom review Blackouts Fits Seizures Balance problems Yes Poor gait Fall in last 12 months Yes alls risk. Complete further FR/ Mask like expression Tremor Bradykinesia Muscle stiffness Muscle weakness Dysphagia Aphasia Apraxia Dysarthria Dizziness Syncope Fatigue Body Map Poor memory Poor concentration Confusion Abnormal sleep pattern Sexual dysfunction Pain Yes Description of pain (n1) Description of pain (n3) Description of pain (r Pain relieved by (n3) Pain relieved by (n1) Pain relieved by (n2) Add symptoms not list **Clinical examination** Difficulty rising from sitting Yes Postural hypotension $SD \ge 20/DD \ge 10 \text{ mmHg}$ Failed 'timed up and go' test Unsteady walking while talkin Sways on standing Confused Drowsv Pupils equal reactive Pathology HB WCC MCV Sodium Potassium Urea ACR (mg/mmol) PCR (mg/mmol) Creatinine 3.2 eGFR (1) 56 Fasting TC Fasting LDL Fasting HDL Fasting TG LFTs TSH Т3 Τ4 Other Investigations Proteinuria (dipstick) Haematuria (dipstick Leucocytes (dipstick) Nitrites (dipstick) Glucose (dipstick) Ketones (dipstick) CT scan MRI **Risk assessment** Falls risk LANSS Score = 0 Unlikely to be neuropathic pain Pain relief score = 40% Pain severity score = 4 Moderate pain Pain interference score = 4 Moderate interference to life Modified Rankin Scale (mRS) Further details/comments Clinical tools/Clinical evidence Modified Rankin Scale (mRS).c POF Adobe Adda LANSS FRAT

#### Figure 12: Neurological page

### 7.6 Physical needs: Cognitive

- a Assess for cognitive impairment by completing one of the cognitive tests; GPCOG, 6CIT or DemTect, a prompt box will appear if 'Poor memory' is selected (Figure 13).
- b Results and interpretations will appear in the 'Risk assessment' section.
- c You will also be prompted to complete the ADL page if 'Poor memory' is selected.

### Figure 13: Cognitive page

irst Name		Surname		NHS Number	
Section 5. Physical need	s - Cognit	ive			
ymptom review					
oor memory	Yes	Poor concentration	Yes	Disorientation	
Confusion		Poor attention span	Yes	Mental state	Poor understan
oor orientation		Abnormal sleep pattern	Yes		
dd symptoms not listed		]			
athology					
IB		wcc		MCV	
odium		Potassium		Urea	
reatinine		ACR (mg/mmol)	3.2	PCR (mg/mmol)	
GFR (1)	56	Fasting TC		Fasting LDL	
asting HDL		Fasting TG		LFTs	
SH		T3		T4	
Calcium		MSU		Serum B12 & Folate	
Other Investigations					
Proteinuria (dipstick)		Haematuria (dipstick)		Leucocytes (dipstick)	
Nitrites (dipstick)		Glucose (dipstick)		Ketones (dipstick)	
/IRI		SPECT			
T scan		ECG			
lisk assessment					
emTect test					
PCOG patient examinatio	n	GPCOG interview			
CIT score = 9		Significant cognitive impair	ment (6CIT)	X M&H mental state sc	ore=3
urther details/comments					





### 7.7 Physical needs: Sensory

- a Further rows will appear to add more detail if patient has a vision, hearing, sensory or communication impairment.
- **b** A prompt box will appear to guide you to assess the patient's adherence to therapy if 'Visual impairment' is selected (Figure 14).

#### Figure 14: Sensory page showing a visual impairment and communication need identified

Ele	ectron	ic LICs Integrated Asse	essment I	DOI (GM-ELIAT)		
First Name		Surname		NHS Number		
Section 5. Physical needs - Se	ensory					Adherence section to
Symptom review						iefs/difficulties adherence to therapy
Visual impairment	Yes	Glasses/lenses check need	led Yes	Blurred vision	i cgui u ing i	interence to theropy
Corrected vision		Prosthesis?		Glasses/lens ineffective		
Vision interferes with reading		Vision interferes with ADL		Vision affects social activities		
Hearing impairment	No	ast hearing test more 18 m	nnth?			
Sensory impairment		Ĭ [		Balance problems	Yes	
Communication impairment	Yes					
Aphasia	Yes	Apraxia		Dysarthria		
Difficulties with expressing self		Difficulties understanding	others	Difficulties being understood	Yes	
Communicates with pictures		Difficulty using telephone		Distressed by impaired communicatio	n	
Add symptoms not listed						
Other Investigations						
Retinal Imaging		Last optometry examinatio	in			
Risk assessment						
Visual impaiment need identifie	ed	Optometry examination da	ate unknown			
Further details/comments						
Clinical tools/Clinical evidence						

### 7.8 Physical needs: ADL

a Select 'Yes' to requiring help with ADL to open this page fully (Figure 15a).

#### Figure 15a: ADL page activities hidden

First Name	Sumame	NHS Number	
<u> </u>			
Section 5. Physical needs -	Activities of daily living		
ADL needs Requires help with daily livin Regaines help for activities an		Observed Discussed Observed Discussed	
ADI, equipment		1	Select ADL equipment
lisk assessment			
Further details/comments			

 b Choose appropriate response for each activity. Needs identified are totalled to provide a score and a level of need (low, moderate and high).
 Some items e.g. mobility, transfer, bathing score 2

#### Figure 15b: ADL page activities revealed

whilst the remainder score 1 (this scoring system was developed specifically for the GM-ELIAT, it has not been formally evaluated but provides a simple measure of need).

- c Click in the cell of the observed or discussed box to define how the activity was assessment.
- d Select ADL equipment currently in use.
- e Prompt boxes will appear to guide you to the urological and gastrointestinal pages if bladder and/or bowel needs are identified (Figure 15b).

First Name	Surname		NHS Nur	nhor			
irst name	sumame		NHS NU	nber			
Section 5. Physical needs - Activities of (	daily living						
ADL needs	, ,						
Requires help with daily living activities	Yes			Observed	Discussed		
Mobility	need identified					1	
Fransfer	independent wit	th equipment				1	
Stairs	need identified					1	
Bathing	need identified					1	
Washing	independent wit	th equipment				1	
Dral hygiene	independent wit					1	
Dressing	need identified					1	
Grooming	independent wit	th equipment				1	
Footcare	need identified					1	
Food preparation	need identified					1	
Feeding	independent wit	th equipment				Complete	Bladder page to assess
Housework	need identified					further	
aundry	needs assistance	e, but full physical support p	provided			1	
Foilet Use	independent wit	th equipment				1	
Bladder	occasional leak,	but independent with equi	pment			1	<b>*</b>
Bowels	continent and in	dependent				1	•
lobbies	independent wit	th equipment				1	
						- I	
Requires help for activities away from home	Yes			Observed	Discussed		
Mobility	need identified					]	
Shopping	needs assistance	e, but full physical support p	provided			]	
Attending family/ friends social events	needs assistance	e, but full physical support p	provided			]	
Attending hospital/ clinic appointments	needs assistance	e, but full physical support p	provided			]	
Attending social clubs/ community centres	needs assistance	e, but full physical support p	provided			]	
Attending place of worship	needs assistance	e, but full physical support p	provided			]	
Attending the library	does not wish to	attend				]	
Attending support groups	does not wish to	attend				]	
ADL equipment							
Anti-slip mat	Bath seat		Bath ste	p			Select ADL equipm
Raised toilet seat	0						
Risk assessment	,						
ADL needs identified: 7	Moderate level	of need for ADL	M&H ris	k assessmer	t score=5		
Needs away from home identified: 1		d away from home	×				
Further details/comments							

### 7.9 Physical needs: Urological

- a Assess urological risks with specific prompts to refine assessment and allow appropriate referrals to be made.
- **b** Select 'Yes' to any of the symptoms on the top row to reveal further symptoms to deepen the enquiry.
- **c** Select 'Yes' to 'Difficulty passing urine' to reveal further symptoms to deepen enquiry.
- d Assessed risks appear in the 'Risk assessment' section (Figure 16).
- e Use the 'Further details/comments' box to add more details or comments as free text.

Electro	nic L1	Cs Integrated Assessmen	t Too	l (GM-ELIAT)	
First Name		Surname		NHS Number	
Section 5. Physical needs - Urolog	ical				
Symptom review					
Urge to pass urine	Yes	Passes urine ≥7 times 24hrs	Yes	Passes urine at night	Yes
Leak with strong urge		Burning on micturition			
Leak on coughing/laughing/sneezing	Yes	Leak after micturition finished		Difficulty passing urine	
Dribble without warning		Continued leak after micturition			
Leak without warning/sensation					
Add symptoms not listed					
Clinical examination					
Pelvic floor examination					
Pathology					
MSU		PSA			
Other Investigations					
MRI		Urodynamic tests		Cystoscopy	
Haematuria (dipstick)					
Continence Products					
Risk assessment					
Pelvic floor weakness risk		Unstable bladder risk			
UTI risk					
Further details/comments					
Clinical tools/Clinical evidence					

#### Figure 16: Urological page

## 7.10 Physical needs: Gastrointestinal

a Select 'Yes' to any symptoms on the top row to reveal hidden rows (Figure 17a).

#### Figure 17a: Gastrointestinal page rows hidden

Electronic LTCs Integrated Assessment Tool (GM-ELIAT)				
First Name	Surname	NHS Number		
Section 5. Physical needs - Ga	strointestinal			
Symptom review				
Gastrointestinal problems No	Change in bowel habit	Constipation		
Add symptoms not listed				
Clinical examination				
Abdomen distended	Abdomen tender	Abdomen soft		
Bowel sounds	Palpable mass	Percussion (abdominal)		
PR	Rectal prolapse			
Pathology				
Stool cytology	FOB			
Continence Products				
Further details/comments				

b Assess gastrointestinal symptoms with specific prompts to refine assessment and allow appropriate referrals to be made as required (Figure 17b).

#### Figure 17b: Gastrointestinal page fully open

First Name		Surname		NHS Number	
Section 5. Physical needs	- Gast	rointestinal			
Symptom review					
Gastrointestinal problems	Yes	Change in bowel habit	Yes	Constipation	Yes
Indigestion		Diarrhoea		Haemorrhoids	
Dysphagia		GI hypermotility		Pain on defecation	
Nausea		Urge to defecate		Incomplete emptying	
Vomiting		Faecal incontinence		Soiling	
Abdominal pain		PR bleeding		▼Passing mucous	
Haematemesis		Malaena			
Add symptoms not listed					
Clinical examination					
Abdomen distended		Abdomen tender		Abdomen soft	
Bowel sounds		Palpable mass		Percussion (abdominal)	
PR		Rectal prolapse			
Pathology					
Stool cytology		FOB			
Continence Products					
Further details/comments					
Clinical tools/Clinical evider	nce				

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Select continence equipment

## 7.11 Physical needs: Tissue Viability

- a Select 'Yes' to Tissue viability risk then identify location on the body map.
- **b** Record type of complex wound. Follow the link to EPUAP for guidance.
- c Risk tools such as the 'MUST' and 'Waterlow' are calculated with items from this page and previous pages. You must complete all necessary assessments to produce a score and interpretation for these tools. If incomplete, a warning will be provided in the 'Risk Assessment' section (Figure 18).

Electronic	LTCs Integrated As	sessment T	00	ol (GM-ELIAT)	
First Name	Surname			NHS Number	
Section 5. Physical needs - Tissue Via	ability		_		
Symptom review	lonity		-		
Tissue viability risk Yes	- Eczema			Psoriasis	
Tissue irritation	Cytotoxic/ Anti-inflam			Steroid medication	
Slow wound healing	Add symptoms not listed				
Clinical examination					
Moisture lesion No	Pressure ulcer	Grade 2		Combined lesion	
Peripheral oedema	Blanchable erythema			Gangrene	
Ascites	Skin type	Oedematous		Mobility	Restricted
Tissue Viability Equipment					
Risk assessment					
MUST Score incomplete					
Waterlow score = 13	Risk of pressure sores		Х		
Moving & Handling mobility score= 3					
Further details/comments					
Clinical tools/Clinical evidence					
Waterlow scale EPUAP					

#### Figure 18: Tissue Viability page

Advanced Care Planning follows Physical needs; however, this requires further development, according to local need. The assessment then continues with the remaining domains; Psychological, Social and Spiritual. The latter requires development and has been left to be designed to meet local needs.

These pages are now described in more detail.

### 8 Advanced Care Planning (ACP)

- a Enter information as free text following a discussion with the patient concerning future health and social care wishes and concerns (Figure 19).
- **b** Items added on the support page will populate to the social care support section. Health care support could also be set up to populate.
- c Follow link to the 'Advanced Decisions to Refuse Treatment' guide for further information on advanced decision making for treatment refusal.
- **d** This page requires further development to provide more detail according to individual service provisions.

#### Figure 19: Advanced Care Planning page

Elect	ronic LTCs Integrated Asse	ssment Tool (GM-ELIAT)
First Name	Surname	NHS Number
Section 6. Advance Care F	lanning (Requires further develo	ppment)
If I cannot communicate easi you can help me by:	i <b>ly</b> 1	1
If a decision needs to be ma	de, please talk to:	
Information that I need from	the people looking after me:	
I'm concerned/ worried abo	ut:	
Things I would like to happe	n to me:	
When time is short I would I	ike to:	
Social care support		
, Further details/comments		
POF		



Adobe

### 9 Psychological needs

- a Select 'Yes' to feeling down, depressed and little interest, pleasure in activities and a prompt box will appear to guide you to complete a depression/anxiety questionnaire.
- **b** Assess mood using the Wimbledon Self-report Scale (Figure 20).
- **c** Identify other behavioural symptoms and use the further details text box to add more detail.
- d This page could be developed further for a more detailed assessment of mental health issues.

First Name		Surname		NHS Number		
Section 7. Psychological	needs					
Symptom review						7
Anxiety		Stress		Feeling down, depressed	Yes	
Irritability		Fatigue		Little interest, pleasure in activities	Yes	7
Insomnia		Difficulty coping with LTCs		Reaction to loss/ bereavement		Complete Abbreviated Wimbled
Normal mood	No	Low mood	Yes	Mood swings	M	Complete Abbreviated Wimbledo Self-report Scale to further asses
Poor motivation		No interest in others		No interest in surroundings		mood
Sexual dysfunction		Relationship problems		Obsessive-compulsive behaviour		
Impulsive behaviour		Addictive behaviour		Antisocial behaviour		
Eating/ weight issues		Phobia		Delusions		
Hallucinations		Paranoia				
At risk to self/ self harmin		At risk to others				
Add symptoms not listed						
Clinical examination						
Tachycardia		Sweating				]
Other Investigations						
Proteinuria (dipstick)		Haematuria (dipstick)		Leucocytes (dipstick)		1
Nitrites (dipstick)		Glucose (dipstick)		Ketones (dipstick)		]
Risk assessment						
PHQ-9 score = 7		Risk of mild depression				]
Wimbledon						
HAD Scale test		Moderate level of anxiety		Mild level of depression		
Further details/comments						_
Clinical tools/Clinical evide	ence					
Adobe	Adobe	PHQ & GAD-7 instructions				

#### Figure 20: Psychological page

### 10 Social needs

- a Choose options from drop down boxes to define social circumstances relating to accommodation and living arrangements (Figure 21).
- **b** Identify needs for organising social affairs.
- c As for the ADL page, a simple score has been developed specifically for the GM-ELIAT to offer a level of need ranging from low to high.
- d Use the 'Further details/comments' box to expand on social need via free text.

Electronic I	TCs Integrated Assessment Too	l (GM-ELIAT)	
First Name	Surname	NHS Number	9
Section 8. Social needs			
Social circumstances			
Accommodation			
Tenure	Council		
Housing	House		
Accommodation Access	Ground floor		
Internal Access	Stairs with one rail		
Bedroom Access	Uses stairs		
WC Access	Uses stairs		7
Bathroom Access	Uses stairs		7
Home Environment	Needs modification		7
Heating	Need identified		7
Living Arrangement	Lives alone		7
Fire safety	Need identified: No smoke alarm		7
Managing social affairs			Complete Adherence section to
Collecting prescriptions	Need identified		assess difficulties regarding
Finances	Need identified		adherence to therapy
Finding employment	N/A		L
Education	N/A		7
Benefits	Unsure whether benefits received		7
Benefits assessments	Need identified		7
Home safety	Need identified		7
Emotional support	Independent		
Companionship	Independent		Is patient aware cares is estitled to
Power of attorney	Not required		Is patient aware carer is entitled to an assessment of their needs?
Informal carer	Need identified: Unable to provide comp	lete physical support	
Safeguarding Does the patient have significant contact Risk assessment	with children or vulnerable adults?	Any concerns?	
Home environment in need of modification		Home inadequately heated	
Needs identified to manage social affairs: 4	Moderate level of need for managing social affairs	Incomplete informal carer support	
	No smoke alarm fitted		
Further details/comments			-
Clinical tools/Clinical evidence			1

#### Figure 21: Social needs page

### 11 Adherence to therapy

Adherence is an important issue for patients with multiple LTCs due to polypharmacy. Patients may also be at risk of poor adherence due to factors such as poor memory, poor dexterity and poor sight. You will see as you progress through the user guide that the GM-ELIAT provides prompt boxes to guide you to complete the adherence section if certain factors exist. This page is now described.

- Assess for barriers to adherence to therapy.
   A Likert scale has been developed to provide a score for the number of barriers identified (Figure 22).
- b Adherence is then assessed using a ratified tool developed in the UK and tested internationally in a number of research studies<sup>1-3</sup> but not widely

Figure 22: Adherence to therapy page

used in clinical practice. An interpretation of the score has been developed for the GM-ELIAT providing a risk scale from low to high.

**c** Use the 'Further details/comments' box to add more details or comments as free text.

Ele	ctronic L	ICs Integrated Assessment Tool	(GM-ELIAT)	
First Name		Surname	NHS Number	
Section 10. Adherence to there	ру			
Adherence barriers				
Difficulty reading medicine labels	Often	Difficulty opening medicines Sometimes	Difficulty collecting prescriptions	Sometimes
Difficulty taking medicines	Sometimes	Forgets to take medicines? Sometimes	Troubled by side effects	Rarely
Needs prompting to take medicines	Rarely	Needs assistance taking medicines Rarely	Uses adherence aids?	No
Medication Adherence Report Sca	le (MARS)			
Forgets to take medicines?	Sometimes	Alters doses? Never	Takes less than instructed?	Rarely
Misses doses out?	Sometimes	Stops taking them for a while? Sometimes	<b>v</b>	
Risk assessment				
MARS score = 12		Moderate risk of poor adherence		
Barriers to adherence score = 22		Several barriers to adherence	Not using adherence aids	
Further details/comments				
Clinical tools/Clinical evidence				

- 1 Mahler C, Hermann K, Horne R, Ludt S, Haefeli WE, Szecsenyi J, et al. Assessing reported adherence to pharmacological treatment recommendations. Translation and evaluation of the Medication Adherence Report Scale (MARS) in Germany. J Eval Clin Pract 2010;16(3):574-9.
- 2 Mardby AC, Akerlind I, Jorgensen T. Beliefs about medicines and self-reported adherence among pharmacy clients. Patient Educ Couns 2007;69(1-3):158-64.
- 3 Menckeberg TT, Bouvy ML, Bracke M, Kaptein AA, Leufkens HG, Raaijmakers JA, et al. Beliefs about medicines predict refill adherence to inhaled corticosteroids. J Psychosom Res 2008;64(1):47-54.

### 12 Summary

- a Information entered on the 22 assessment pages is brought together to provide a summary of the assessment this can then be used to formulate a patient-centred plan of care according to need (Figure 23).
- **b** The summary page does take several seconds to load as the information appearing is populated from data inputted on previous pages.

#### Figure 23: Summary page

First Name	Surname	NHS Number
		17510-7522-000-555-09
Section 11. Summary		
Medical History		
Medical conditions	Atrial Fibrillation	Diabetes Type 2
	Hypertension	Parkinson's Disease
	Rheumatoid Arthritis	Stroke
Symptom review	SOB	Recent weight gain
	Constipation	Feeling down, depressed
	Poor concentration	Poor memory
	Passes urine ≥7 times 24hrs	Joint pain in: R Hip, L Hip, L Knee, R Knee
	Balance problems	Fall in last 12 months
	Neurological pain in:	Visual impairment
	Glasses/lenses check needed	Corrected vision
	Glasses/lens ineffective	Communication impairment
	Aphasia	Difficulties being understood
	Little interest, pleasure in activities	
Clinical examination	Systolic BP = 150	Diastolic BP = 80
	Height (m) = 1.62	Weight (kg) = 78.2
	Difficulty rising from sitting	
Pathology	eGFR (1) = 56	ACR (mg/mmol) = 3.2
	HbA1c=56	, 0 ,
Risk assessment	High stroke risk	CKD Risk
Risk assessment	BMI = 30	Overweight
	Diabetes 9 key tests not complete	Asthma not controlled
	Moderate pain	Pain relief score = 40%
	Pain causes Moderate interference to life	Unlikely to be neuropathic pain
	Moderate interference to life	Significant cognitive impairment (6CIT)
	Visual impaiment need identified	Optometry examination date unknown
	ADL needs identified: 7	Moderate level of need for ADL
	M&H risk assessment score= 2	Needs away from home identified: 1
	Low level of need away from home	Risk of mild depression
	Moderate level of anxiety	Mild level of depression
	Home inadequately heated	Moderate level of need for managing socia
	No smoke alarm fitted	Moderate risk of poor adherence
	Several barriers to adherence	Not using adherence aids
Social Social circumstances	Home Environment: Needs modification	Heating: Need identified
sector on contactines	Living Arrangement: Lives alone	ineering. mees identified

### 13 Care Plan

- a Enter needs as free text organised into the four domains. A new row appears as a need is entered to allow you to continue adding needs.
- **b** The care plan is organised into actions, expected outcomes with review dates to provide a transparent plan of care (Figure 24)
- **c** Use the drop down box to select health and social care professionals to refer to (additional options could be added)
- d As this page requires a lot of free text, a spell check is provided.
- e Future development could improve this page by populating the 'Needs' from the summary page. The 'Actions required' could be generated automatically according to clinical guidelines.
- f If built into a clinical system it may be possible for a referral form template to be embedded, partially populated from the summary and clinical system and the referral sent via the system or email.

#### Figure 24: Care Plan page

	Electronic LTCs	Integrated Assessment To	ool (GM-ELIAT)	
First Name	Surname		NHS Number	
Section 12. Care Plan				
Physical Needs	Action Required	Expected Outcome	Review date Refer to	Ref date
Psychological Needs	Action Required	Expected Outcome	Review date Refer to	Ref date
Social Needs	Action Required	Expected Outcome	Review date Refer to	Ref date
Spiritual Needs	Action Required	Expected Outcome	Review date Refer to	Ref date

A Correspondence page follows the care plan allowing health and social care professionals involved in the patients care to communicate with each other via the tool. This is described next.

# 14 Correspondence with other health and social care professionals

- a Enter information as free text for action by members of the integrated team or to provide information (Figure 25).
- b Integrated into a clinical system, this could be set up to provide alerts for team members to access the patient's record and address the issue/ respond to the request.

#### Figure 25: Correspondence page

Electronic LTCs Integrated Assessment Tool (GM-ELIAT)		
First Name	Surname	NHS Number
Section 13. Correspondence		
Actions		
From:	Role:	Date:
	Dele:	
To:	Role:	
Further details/comments		Date to be completed by:
Actions		
From:	Role:	Date:
]		
То:	Role:	
Further details/comments		Date to be completed by:
-		
Actions		
From:	Role:	Date:
]		
То:	Role:	
]		
Further details/comments		Date to be completed by:

The ELIAT finishes with the section 'Patient Enablement' to evaluate whether there has been a change in the patient's ability to manage, understand and cope with his/her LTCs and whether he/she feels confident about future care since the assessment was conducted and care plan agreed. This final page will now be described.

### **15** Patient Enablement Instrument (PEI)

- a Use the PEI to assess whether the process used to identify and address the patient's needs has enabled him/her to manage his/her LTCs better.
- b This instrument developed by Howie et al<sup>4</sup> has been tested in a number of studies but not widely used in clinical practice. An interpretation of the score has been developed for the GM-ELIAT, providing a scale from poorly enabled to manage LTCs to highly enabled (Figure 26).

#### Figure 26: Patient enablement page

#### Electronic LTCs Integrated Assessment Tool (GM-ELIAT) **First Name NHS Number** Surname Section 14. Patient enablement As a result of this assessment and the support and advice you have been given to manage your long-term conditions do you feel that you are ..... Able to cope with life Much Better Better Same or Less N/A Able to understand long term conditions **Much Better** Better Same or Less N/A Able to cope with long term conditions Much Better Better Same or Less N/A Able to keep yourself healthy Much Better Better Same or Less N/A Confident about health Much More More Same or Less N/A Able to help yourself More Much More Same or Less N/A **Risk assessment** 9 Highly enabled to manage LTCs **PEI Score** Clinical tools/Clinical evidence AND PEI

4 Howie JG, Heaney DJ, Maxwell M, Walker JJ. A comparison of a Patient Enablement Instrument (PEI) against two established satisfaction scales as an outcome measure of primary care consultations. Fam Pract 1998;15(2):165-71.



### **NHS** National Institute for Health Research

Collaboration for Leadership in Applied Health Research and Care (CLAHRC) Greater Manchester

For further information regarding clinical content and design contact:

Dr Trish Gray Research Fellow Trish.Gray@manchester.ac.uk

For further information regarding the ELIAT's functions contact:

Caroline O'Donnell Information Analyst Caroline.O'Donnell@srft.nhs.uk