

NHS National Institute for Health Research

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

Electronic Long-term Conditions Integrated Review Template (GM-ELIRT)

User Guide: SystmOne

The CLAHRC Greater Manchester is part of the National Institute for Health Research and is a partnership between providers and commissioners from the NHS, industry, the third sector and the University of Manchester clahrc-gm.nihr.ac.uk clahrc@srft.nhs.uk @ @CLAHRC_GM

Introduction

This guide is designed to familiarise users with the GM-ELIRT to provide a smooth transition from single disease to integrated reviews.

The GM-ELIRT is designed for reviewing patients with multimorbidity (two or more long-term conditions (LTCs)). For patients with one long-term condition, a single disease template may be simpler to use, however, this depends on preference. This guide has been written assuming that you have prior experience of conducting a review with a SystmOne review template. If you have never used SystmOne before, please refer to the user manual or contact a SystmOne trainer for baseline training before attempting a review with the GM-ELIRT.

The GM-ELIRT can be used by all the primary care team for reviewing patients' LTCs, monitoring care, scheduling appointments and clinical audit providing a seamless, integrated review process for patients with multimorbidity.

1 Finding the Template

- a Open the patient's record and search for the template named 'GM-ELIRT'.
- b On opening this template the first page displayed will be 'Long term Conditions' (Figure 1).

Figure 1: Front page

Tong Term Conditions review template GM-ELIR	Г						
Long-term conditions Symptoms LTC Symptoms CI	inical Assessment	Bloods and Urine	Lifestyle	Medication compact	Ris	- F	AF
Long-term coditions reviewed		Exception co	des				Date 🔻 Selection
Annual reviews Asthma annual review (Xaleq) Atrial fibrillation annual review (Xaw Coronary heart disease annual rev	iew (Xa	Asthma AF			•		
Chronic kidney disease annual rev Chronic obstructive pulmonary dise Dementia annual review (XaMGF)	ease a qor qor	COPD					rm dissent (XaLFj) ¤o⊧
Depression annual review (XaK6d) Diabetic annual review (66AS.) Heart failure annual review (XaIQN)		CHD CKD	Except fro	om atr fib quality indica	tors: Pa	tient u	insuitable (XaLFi) QOF
Hypertension annual review (XalyE Hypothyroidism annual review (Xaly	Djl)	Dementia Depression			T		
Rheumatoid arthritis annual review Stroke/TIA annual review (YX137)	/ (XaZdB) 💁	Diabetes			•		
6mnts reviews Chronic obstructive pulmonary disu Diabetic 6 month review (XaKwQ)	ease 6 👓 🔺 🥖	HF			•		
Heart failure 6 month review (XaLo Stroke 6 month review (XaR68)	n) 🔽	Hypertention Osteoporosis			*		No previous

2 Selecting the long-term conditions that are due for review

- a Select the patient's long-term conditions that you plan to review. Choose the appropriate box depending on the type of review; annual, six monthly or interim follow-up. Click on the blue arrow at the end of the drop down box to reveal the contents (Figure 2).
- **b** Select as many LTCs as required; the majority of boxes within the GM-ELIRT are multi-select.
- **c** For LTCs that require you to provide more detail regarding the diagnosis, click on the appropriate box to complete under long-term conditions type.
- **d** Use the exception reporting drop down box if you are unable to complete a review.

Figure 2: List of LTCs that appear when drop down box is open

¿ Long Term Conditions review template GM-ELIRT		
Long-term conditions Symptoms LTC Symptoms Clinical Assessment Bio	oods and Urine	Lifestyle Medication compact Ris AF
Long-term coditions reviewed	Exception co	Date
Annual reviews Asthma annual review (Xaleq) Atrial fibrillation annual review (XaMGD) Coronary heart disease annual review (Xa	Asthma AF	
Chronic kidney disease annual review (Xa Chronic obstructive pulmonary disease a व्यम Dementia annual review (XaMGF) व्यम	COPD	Excepted from atrial fibrillation qual indic: Inform dissent (XaLF)) 🚥
Depression annual review (XaK6d)	CHD	Except from atr fib quality indicators: Patient unsuitable (XaLFi) 🐢
Diabetic annual review (66AS.) Heart failure annual review (XalQN)	CKD	▼ Ø
Hypertension annual review (XalyE)	Dementia	
Rheumatoid arthritis annual review (XaZdB) 🚥	Depression	<i>P</i>
Stroke/TIA annual review (YX137)	Diabetes	▼ ∅
6mnts reviews Chronic obstructive pulmonary disease 6 💁 🖉	HF	_
Heart failure 6 month review (XaLon)	Hypertention	· /
	Osteoporosis	No previous
Interim reviews Asthma follow-up (Xaler) or a follow-up (Xaler) or a follow-up (Xaler) or a follow-up (XaX30) or a	Stroke/ TIA	
Physical activity brief intervention follow-up		
Major Active Problems		<u>^</u>
Sensitivity & Allergies		

The template offers a patient-centred LTC review. Unlike disease specific templates, the GM-ELIRT is organised by generic subject not diseases. These are found on the left hand side of the screen and include:

- Symptoms
- Medication
- Social
- Clinical assessment
- Comorbid Risk Assessment
- Vaccinations

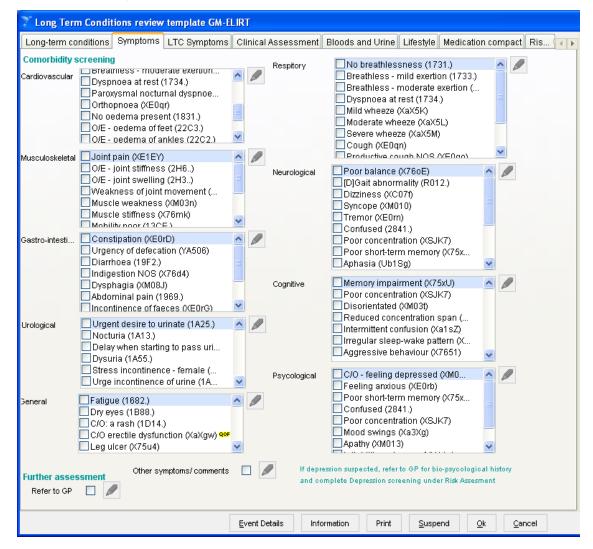
- Bloods and urine
- Investigations
- Under care of and Referral
- Lifestyle
- Education
- Follow-up

Each section listed to the left appears on a separate page, arranged to help you progress through the review in a logical order. More detail will now be provided.

3 Comorbidity screening

- a Select multiple symptoms from the drop down boxes (Figure 3).
- **b** Symptoms that overlap different conditions can be found in more than one drop down box.
- **c** This patient centred approach to the symptom review may identify troubling symptoms that the patient has not mentioned during previous appointments.
- d Additional symptoms or further information can be added to the free text box.
- e If review by a GP is required this can be recorded and more information provided as free text.

Figure 3: Comorbidity screening page with drop down box open at cardiovascular symptoms



4 Specific symptom review and Quality Outcome Framework (QOF) indicators

- a Once generic symptoms have been reviewed, a more detailed investigation of specific symptoms can be carried out for the following conditions:
 - i Asthma
 - ii COPD
 - iii Heart Failure
- **b** Select symptoms from the drop down boxes in each section.
- c Use the links to complete questionnaires such as the Asthma Control Test (ACT) and the COPD Assessment Test (CAT), then enter the score in the box provided (Figure 4).

Figure 4: Comorbidity screening page showing disease related symptoms

Long Term Conditions revie	w template GM-ELIRT	
Long-term conditions Symptom	s LTC Symptoms Clinical Assessment Bloods and Urine Lifestyle Medication compact Ris 🧃	•
Asthma		
Night time symptoms *	Activities *	
Daytime symptoms *	Exercise *	
Asthma control steps	~	
Step up change in management plan		
Asthma Control Test	Asthma control test	
COPD		
Severity	- / / · · · · · · · · · · · · · · · · ·	
MRC Brethlessness scale *		
Sputum	Chronic obstructive pulmonary disease assessment test	8
Heart Failure		
NYHA	▼	
Osteoporosis		
Fragility fracture		

5 Clinical Assessment

- a Enter measurements for clinical findings under generic assessment (Figure 5).
- b Enter the patient's target systolic and diastolic BP according to NICE recommendations (see clinical evidence pages in the GM-ELIRT Overview, ideally this information should embedded in future updates).
- **c** Complete a more specific clinical assessment for the following LTCs:
 - i Asthma
 - ii COPD
 - iii Diabetes
 - iv Hypertension
 - v Peripheral Arterial Disease
 - vi Rheumatoid Arthritis

Long Term Conditions review template GM-ELIRT
Long-term conditions Symptoms LTC Symptoms Clinical Assessment Bloods and Urine Lifestyle Medication compact Ris 📊
Generic Target systolic blood pressure mm Hg Height m M Systolic BP mmHg Target systolic blood pressure mm Hg Weight Kg Diastolic BP mmHg BMI K Waist circumference cm Pulse rate bpm MI assessment Serum total cholesterol level mmol/ M
Respiratory Inhaler technique
Spirometry *
Asthma Oral steroids used since last appointment Image: Constraint of the steroids used since last appointment Image: Constraint of the steroids used since last appointment Image: Constraint of the steroids used since last appointment Image: Constraint of the steroids used since last appointment Image: Constraint of the steroids used since last appointment Image: Constraint of the steroids used since last appointment Image: Constraint of the steroids used since last appointment Image: Constraint of the steroids used since last appointment Image: Constraint of the steroids used since last appointment Image: Constraint of the steroids used since last appointment Image: Constraint of the steroids used since last appointment Image: Constraint of the steroids used since last appointment Image: Constraint of the steroids used since last appointment Image: Constraint of the steroids used since last appointment Image: Constraint of the steroids used since last appointment Image: Constraint of the steroids used since last appointment Image: Constraint of the steroids used since last appointment Image: Constraint of the steroids used since last appointment Image: Constraint of the steroids used since last appointment Image: Constraint of the steroids used since last appointment Image: Constraint of the steroids used since last appointment Image: Constraint of the steroids used since last appointment Image: Constraint of the steroids used since last appointment Image: Constraint of the steroids used since last appointment Image: Constraint of the steroids used since last appointment Image: Cons
COPD FEV1 L Image: FVC Image: F
Diabetes Amputation O/E - Amputated left leg (XaBLU) Qor A Last hypo attack Image: Constraint of the co
Diabetes Eye Check
Hypertention Average home systolic blood pressure Image home diastolic blood pressure Image home diastolic blood pressure ADBP
Peripheral Arterial Disease ABPI - Ankle brachial pressure index
Rheumatoid Arthritis Image: Disease activity score in rheumatoid arthritis
Event Details Information Print Suspend Ok Cancel

Figure 5: Clinical assessment page

6 Bloods and Urine

- a Check blood results during the review within the template.
- b Check and add urine results during the review
- c Results can be found by type and are listed under the following profiles as shown in the example in Figure 6:

Figure 6: Blood and urine results

- i Urine
- ii Full blood count
- iii Glycaemic

iv Lipid profile

- v Renal
- vi Liver
- vii Bone Thyroid function
- viii Autoimmune
- ix Folate
- d Record exceptions as appropriate

ng-term condition:	s Symptoms	LTC Symptoms	Clinical Assessment	Bloods and Urine	Lifestyle	Medication com	ipact Ris
— Full Blood Co	unt						^
557 Total white bl	ood count			Not recorded			
😼 Haemoglobir	estimation lev	vel		Not recorded			
ssy Mean cell vol	ume			Not recorded			
^{1≥34} Platelet coun	t - observation			Not recorded			
ssy Neutrophil co				Not recorded			
ssi Lymphocyte (ount			Not recorded			
— Glyceamic co							
ssa Plasma gluci	ose level			Not recorded			
ssa Plasma fastii	ng glucose leve	el		Not recorded			
😼 Random bloc	d glucose leve	el		Not recorded			
¹²³⁴ НЬА1с				Not recorded			
557 Haemoglobir	n A1 d level - IFC	CC standardised		Not recorded			
Glucometer k	lood sugar			Not recorded			
Lipid profile							
Serum chole	sterol level			Not recorded			
••••	holesterol leve	el		Not recorded			
te Tu	holesterol leve	el -		Not recorded			_
Total cholest				Not recorded			
🖏 Serum triglyc				Not recorded			
Renal profile							
Serum sodiu				Not recorded			
Serum potas				Not recorded			
sig Serum urea i				Not recorded			
567 Serum creat				Not recorded			
567 GFR Calculat	ed abbreviated			Not recorded			
	n/creatinine rat	tio		Not recorded			
명래 Urine microa				Not recorded			
Liver profile				Not recorded			
Cholesterol Targets a	ccording to Patie	ent Group	BI	ood test declined		1	
	NICE		QOF	ine dipstick test decline			
CVD TC<4							

7 Lifestyle

- a Complete lifestyle review as per single disease templates and record findings under the headings as shown in Figure 7:
 - i Smoking
 - ii Alcohol consumption

Figure 7: Lifestyle factors

- iii Exercise
- iv Diet

- b Click on link to the Pack Years Calculator and enter results in the box provided.
- c Click on link to the Audit C and enter results in the box provided.
- d Click on link to the GPPAQ and enter results in the box provided.

The conditions review template GM-ELIRT
Long-term conditions Symptoms LTC Symptoms Clinical Assessment Bloods and Urine Lifestyle Medication compact Ris 🟹
Smoking
Smoking status *
Smoking cessation advice
Pack years calculator Pack years Pack years For smokers/ ex-smokers over 35 without a COPD diagnosis
Nicotine replacement therapy 🔲 🖉 Expired carbon monoxide concentra
Alcohol consumption
Alcohol units per week Units/Week
Patient advised about alcohol 🔲 🥒 👕 AUDIT alcohol use questionnaire (DES)
Exercise * Hypertention
Dependence of the second secon
GPPAQ physical activity index
Diet
Dietary advice 🗌 🖉 Advised about low salt diet 🗌 🆉
Advised about weight-reducing diet 🔲 🥒 Advised about low cholesterol diet 🔲 🌽
Diabetic diatry review *
Diabetic dietary review declined *
Smoking
Excercise

8 Medication review and adherence to therapy

- a Monitor medication status by disease, listed by drug group (Figure 8). For guidance, a list of LTCs that this group of drugs are prescribed for appears on the left of the drug group. Further prescribing guidance is provided on the clinical evidence pages in the GM-ELIRT Overview (ideally this information should be embedded in future updates).
- **b** Record exceptions as required within each drop down box.
- c Where limited options are available in the drop down boxes, further information can be added as free text.
- d Complete medication review and adherence section to record whether medication review was completed or declined.
- e Monitor adherence status and add additional information if adherence requires further monitoring.

Figure 8: Medication prescribed, medication review and adherence to therapy

a Long Term Conditions review template GM-ELIKT
Long-term conditions Symptoms LTC Symptoms Clinical Assessment Bloods and Urine Lifestyle Medication compact Ris) 🕕
Cardiovascular medication - QOF
CHD, HF, Diabetes", CKD** ACEI or ARBs
CHD, HF Beta-blockers
CHD, CVD risk >20% Statin 🖉 🖉 Anticoagulants include
CHD, AF***, Stroke/ TIA**** Anticoagulant waffarin, acenocoumarol, phenindione, dabigatran,
CHD, AF***, PAD, Stroke/ TIA Aspirin apixaban and rivaroxaban
CHD, AF***, PAD, Stroke/ TIA Other Anitplatelets
* if microalb +ve or proteinuria, ** if hypertensive AND documented proteinuria, INR
Cardiovascular medication - other
Digoxin prophylaxis 🗌 🥒 Ivabradine 🗌 🖉 Long term dual antiplatelet drug therapy indicated 🗌 🌽
Calcium-channel blockers
Respiratory medication
Inhaled steroids
Home nebuliser 🗌 🖉 Oxygenator therapy 🗋 🖉 Spacer device in use 🗌 🌽
Other medication
Insulin passport Disease modifying antirheumatic drug therapy initiated 🗌 🥒
Diuretic
Osteoporosis - Bone-sparing agents Bone sparing drug treatment offered for osteoporosis
Disodium 🖉 🥒 Ibandronic acid
Alendronic acid 🖉 Raloxifene 🦉
Risedronate 🖉 Strontium 🔽 🆉
Teriparatide 🔽 🖉 Others
Medication review and adherence Asthma medication review * Medication review done Medication
Cardiac medication review 🗌 🖉 Diabetes medication review 🗌 🖉 Self-monitoring of blood glucose 🗌 🖉
Adherence Discussed medication adherence
Event Details Information Print Suspend Ok Cancel

9 Comorbid Risk Assessment

- a Select from the alphabetically ordered list to screen for the following as shown in Figure 9:
 - i Cognitive function
 - ii Coronary artery disease
 - iii Depression
 - iv Diabetes
 - v Falls
 - vi Fractures
 - vii Stroke

Figure 9: Comorbid risk assessment page

Long Term Conditions review template GM-ELIRT conditions| Symptoms| LTC Symptoms| Clinical Assessment| Bloods and Urine| Lifestyle| Medication compact| Risk Assessment 📊 Co-morbid risks assessment Cognitive function screening GPCOG test Ø GP assessment of cognition patient examination 6-CIT test Ø Six item cognitive impairment test Coronary Artery (Heart) Disease screening Framingham Risk calculator Framingham 1991 cardiovasc... 📰 QRISK2 Calculator... 🔹 RA - 0 QRISK2 Exceptions Depression screening 🥰 Patient Health Questionnaire (PHQ - 9) 6 Patient health questionnaire (PHQ-9)... Biopsychosocial assessment -Diabetes screening Diabetes risk calculator (QDiabe Diabetes UK diabetes risk score At risk of diabetes mellitus Falls risk screening FRAT test for download Falls risk assessment template score FRAX Risk Calculato... WHO FRAX 10 yr osteoporotic fracture pr... Number of falls in last year Ø Stroke screening (Complete for patients with a diagnosis of AF) HAS-BLED calculator CHA2DS2-VA calculator 📰 CHADS2... ^ AF / HAS-BLED score... CHA2DS2 - vascular disease, age, sex category score Stroke screening Early identification of Atrial fibrillation progression CHADS2 score Indication Action Time in Therapeutic Range (of 2-3%) <65% Consider NOAC therapy Cong heart fail,... Not re... INR >5 more than 2 times in 12 months CHA2DS2-VA score CHA2DS2 - vascul... Not re... HAS-BLED score Hyperten, abnorm... Not re... Event Details Print Information Suspend Ok Cancel

- **b** Click on the link to open risk questionnaire.
- c Enter result in box provided.

10 Investigations

- a View previous investigation results (Figure 10).
- b Record exceptions by choosing options from the multi-select drop down boxes
- c Enter or edit dates for scheduled appointments following discussion with the patient about all needs requiring further investigation, not just one as per single disease templates.
- **d** This page could be extended to include further investigations.

Figure 10: Investigations page

Cong Term Conditions review template GM-ELIRT	
Medication compact Risk Assessment Investigations Procedures Education Social Needs Vaccinations Referrals Follow-	
Generic ECG	
Asthma Peak flow meter	
Chronic Kidney Disease Urine protein	
Coronary Artery Disease Cardiovascular angiography	
Diabetes * Diabetic retinopathy screening Erectile dysfunction discussed Assessment of diabetic erectile dysfunction	
Heart Failure Plasma pro-brain natriuretic peptide level pg/mL Echo V Left ventricular ejection fraction %	
Osteoporosis DEXA scan exceptions	
DEXA scanning	

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11 Education

- a Record verbal education, leaflets, booklets given where Read Codes are available (Figure 11).
- b Some of the advice may overlap different LTCs, but holistic education covering all LTCs may allow the patient to discuss anxieties regarding conflicting advice provided by different HCPs and services managing his/her care.

Figure 11: Education page

🔭 Long Term Conditions	review temp	late GM-ELIR	Т					
Medication compact Risk A	ssessment	Investigations	Procedures	Education	Social Needs	Vaccinations	Referrals	Follow
Asthma Asthma management plan giver Asthma rescue pack given			technique shov e pack not suital					
COPD Issue of COPD rescue pack	🗆 🅖 co	PD rescue pack	not indicated [🗌 🥒 Sel	f-management of	respiratory health	h 🔲 🌶	9
Heart Failure Heart failure education								

12 Social Needs

- a Record whether social needs have been assessed during the review.
- **b** Select carer needs from drop down box as shown in Figure 12.
- **c** Add further information as free text where Read Codes are not available.

Figure 12: Social Needs page

🔭 Long Term Conditions review ten	ıplate GM-ELIR	Т				
Medication compact Risk Assessment	Investigations	Procedures Education	Social Needs	Vaccinations	Referrals	Follow
Social needs Social needs of carer Assessment of needs Assessment of needs - review		•				
Activities of daily living assessment Mobility - assessment		Community care assessment Multidisciplinary assessment				

13 Vaccinations

- a Check that patient is vaccinated against shingles, seasonal influenza and pneumococcal virus.
- **b** Record exceptions (Figure 13).
- **c** This page can also be used to update the patient's record as vaccinations are given.

Figure 13: Vaccinations page

🔭 Long Term Conditions rev	view template GM-ELIR	Т					
Medication compact Risk Asse	essment Investigations	Procedures	Education	Social Needs	Vaccinations	Referrals	Follow
Vaccinations							
Shingles		-					
Seasonal influenza		· /	🖉 * CHD, Str	oke/TIA, Diabetes	s, COPD		
Pneumococcal		- 0		-			
		r		A	Record Vaccir	nation	
Vaccinations				<u> </u>			
🕨 🔌 11 Sep 2008 Influe	enza Vaccine 👘 INF	FLUENZA					
🕨 🤌 17 Nov 2009 🛛 Pano	demrix 1 H1	N1 Swine Flu					
🕨 🤌 05 Dec 2009 🛛 Pano	demrix 1 H1	N1 Swine Flu					
🕨 🌶 14 Jan 2010 🛛 Pano	demrix 1 H1	N1 Swine Flu					
🕨 🤌 16 Sep 2010 Influe	enza Vaccine INF	FLUENZA					

14 Other services involved in the patient's care and referral

- a Check the health and social services already managing aspects of the patient's care (Figure 14).
- **b** Update record to add services involved in the patient's care that are not already listed.
- c Check referrals already made at previous appointments.
- d Add referrals discussed with the patient.
- e Review the number of referrals made for the patient. This may generate discussion regarding the practicalities of attending numerous appointments.

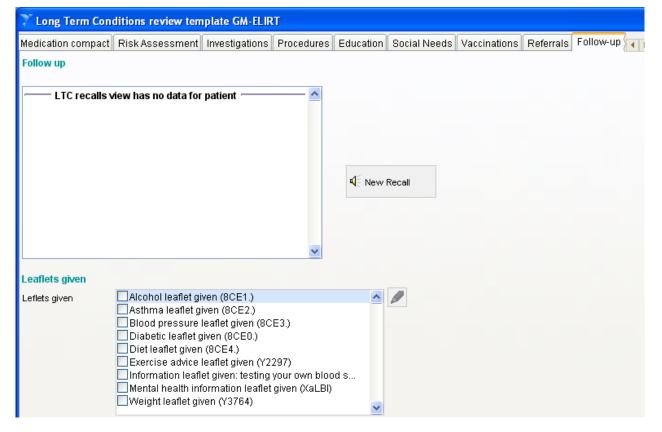
Figure 14: Under care of and referral page

The second secon
Medication compact Risk Assessment Investigations Procedures Education Social Needs Vaccinations Referrals Follow
Under care of Cardiovascular Cardiac rehabilitation (XaEKT)
Seen by cardiac rehabilitation nurse (X Seen in community anticoagulation cli Diabetes Under care of podiatrist (XaARD) Other care Under care of diabetes specialist Seen in diabetic eye clinic (XaEJQ)
Referrals
Cardiovascular Referral to cardiologist (XaBTR) Referral to community anticoagulation cli Referral to nephrologist (XaAg3) Referral to nephrologist (XaAg3) Referral to nephrologist (XaAg3)
Referral to palliative care service (XaAex) Referral to palliative care serqof Referral to cardiac rehabilitation program Referral to cardiac rehabilitation program Referral to cardiac rehabilitation program Referral to community palliatqof
Referral to cardiac rehabilitation nurse (X Referral to cardiothoracic surgeon (8H5G.) Referral to cardiothoracic surgeon (8H5G.) Referred for peripheral artery disease as Referral to vascular surgeon (XaBER) Diabetes Diabetes Referral to diabetologist (8H
🗌 Referral to stroke clinic (XaJYc) 🛛 🗣 💌
Structured educational programme
Lifestyle referrals Smoking cessation
Dietician
Weight Management
Exercise Referral to health trainer (Xa Referred for exercise progra Home exercise programme Referral to health trainer dec

15 Follow-up

- a Check whether future review appointments have been scheduled (Figure 15).
- **b** Enter new appointment dates.
- c Amend dates due to cancellations.
- d Record the leaflets that the patient has been given during the appointment (this could be moved to the education page on a future update).

Figure 15: Follow-up





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

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