

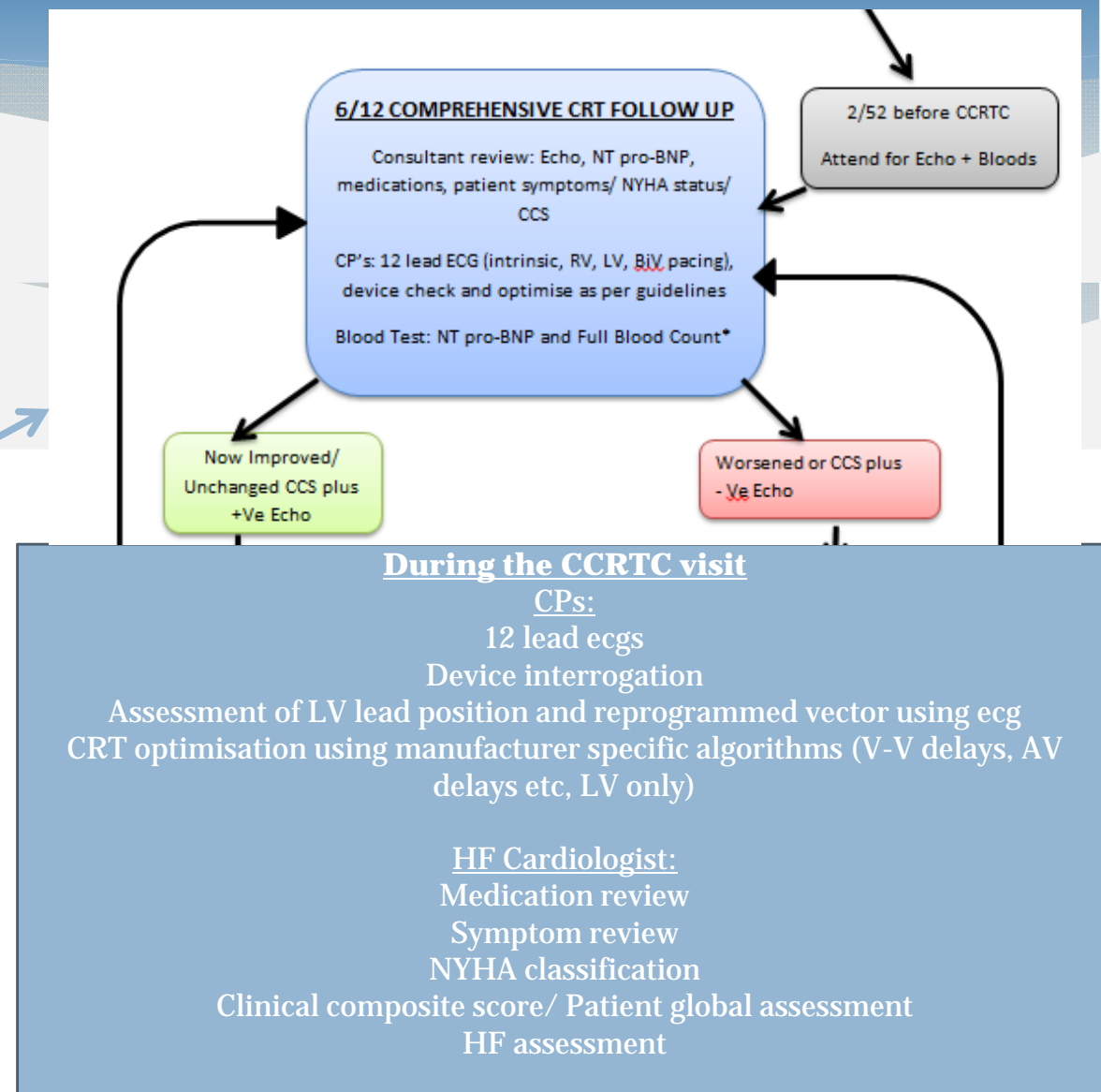
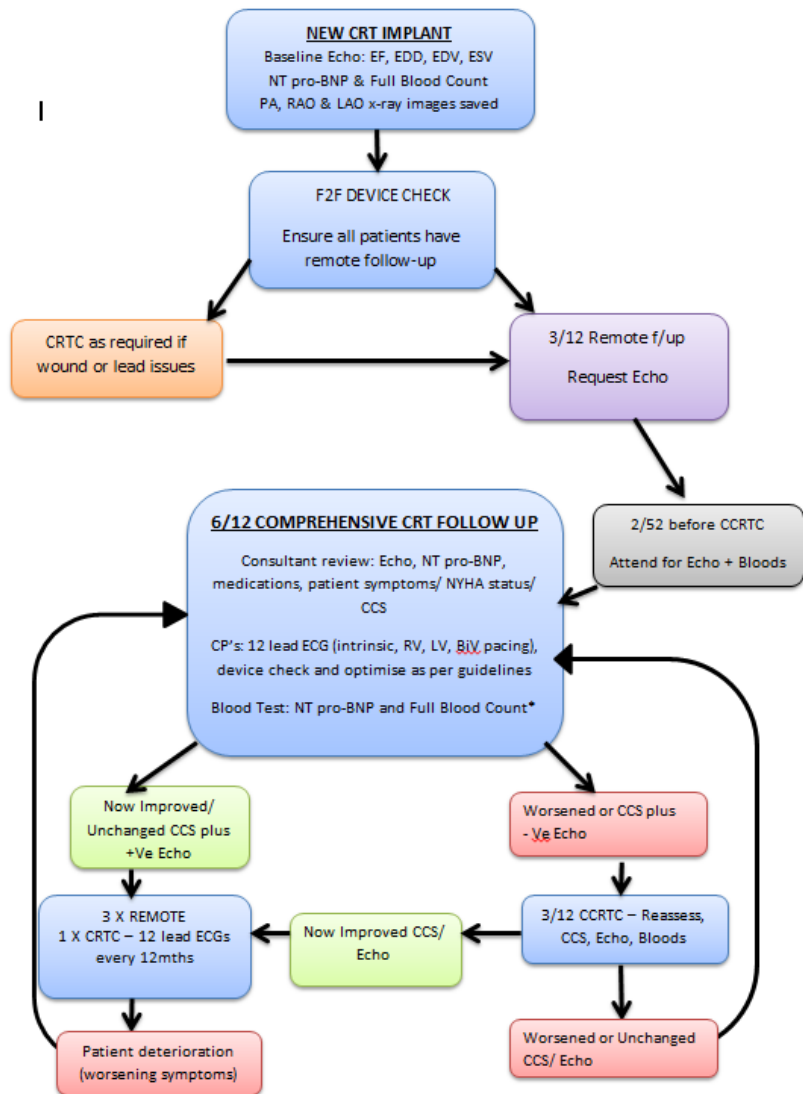
Comprehensive CRT clinic (CCRTC) post Covid-19

A new way of working for CRM Physiologists

Amy Brett
Manchester Heart Centre

Comprehensive CRT clinic pre- Covid 19

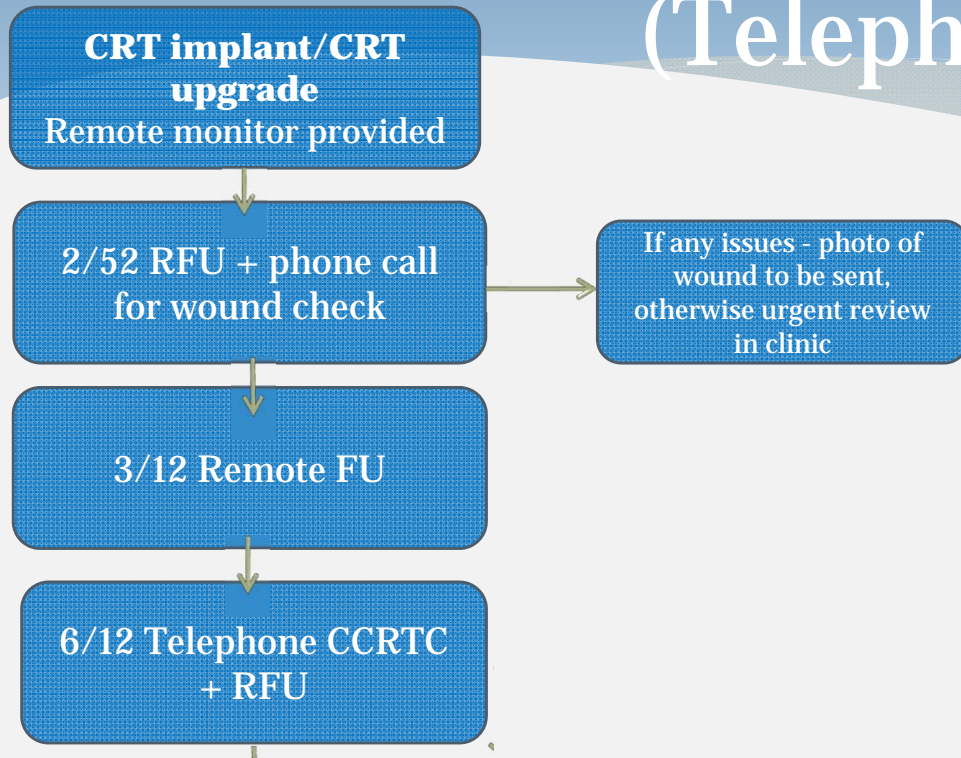
- * 6 months after CRT implant / CRT upgrade patients are invited to our CCRT clinic
- * This clinics purpose was to assess “response” to their new CRT therapy and to identify any patients who may need further treatment
- * During the clinic visits patients would see device physiologists and Heart Failure consultant (+/- HF registrar/fellow)



Covid-19 Lockdown (1.0)

- * We cancelled all face to face device clinic appointments and increased our use of remote monitoring
- * We felt that it was inappropriate to bring patients in all of our patients for the CCRTC
- * We needed a new way of working to maintain a comprehensive CRT service for our CRT patients

Comprehensive CRT post- Covid 19 (Telephone CCRTC)



CCRTC PROFORMA

PATIENT			
Surname	«Surname»	District	«District»
Forename	«Forename»	DOB	«DOB»
IMPLANT			
Date of implant	«Implant_date»	Operator	«Operator»
Manufacturer	«Manufacturer»	Implant procedure	«procedure»
Model	«Model»	LV lead location	«LV_lead_position»
Indication	«Indication»	Baseline ECG pattern	«Baseline_ECG_pattern»
Aetiology	«aetiology»	Baseline QRS duration	«baseline_QRS_duration»
Baseline NYHA	«Baseline_NYHA»	Baseline Echo EF	«EF»

LAST DOWNLOAD			
Date of review	«date_of_last_download»	% V paced	«M__V_paced»
Last ECG optimisation	«Date_ECG_last_optimised»	LV paced vector	«LV_Vector»
Events	«RFU_Events»	CRT pacing strategy	«Paced_strategy»
Presenting EGM	«Presenting_EGM»		

NOTES	
«Notes_1»	
«Notes2»	
«Notes_3»	

CCRTC PHONE REVIEW	
Date of review	Reviewed by
Have you felt a change in your exercise tolerance since your CRT implant?	
Have you had any recent illness or hospital admission for HF?	
Do you have any swollen ankles, stomach?	
Do you suffer from Orthopnoea (breathless lying flat)?	
CCRTC NYHA class	

FO Echo date	«Provisional_or_perform	FO Echo EF	«EF1»
«Echo_date»			
PATIENT GLOBAL ASSESSMENT			
Markedly improved		Medications	
Moderately Improved		Beta blocker	
Mildly Improved		Diuretic	
No change		ACE inhibitor	
Mildly worsened		Other meds:	
Moderately worsened			
Markedly worsened			

PLAN	
Need for device check/optimisation	
Need for urgent HF review	
Does the patient have ongoing HF/Cardiac follow up at MRI or another centre?	
Other actions	

Remote transmission

LAST DOWNLOAD			
Date of review	«date_of_last_download»	% V paced	«M__V_paced»
Last ECG optimisation	«Date_ECG_last_optimised»	LV paced vector	«LV_Vector»
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Questionnaire

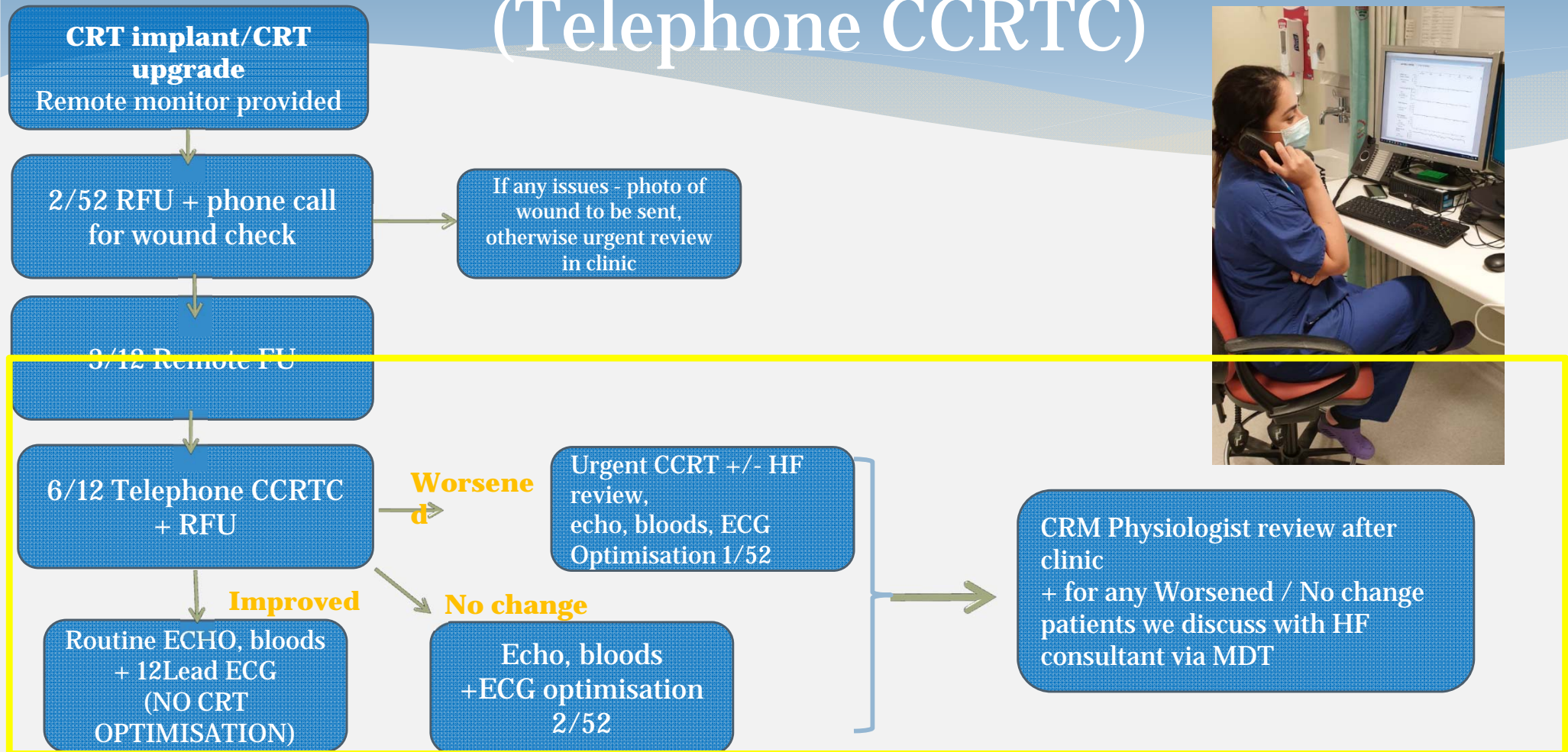
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CCRTC NYHA class	

PATIENT GLOBAL ASSESSMENT

Markedly improved
Moderately Improved
Mildly Improved
No change
Mildly worsened
Moderately worsened
Markedly worsened

Patient symptom review

Comprehensive CRT post- Covid 19 (Telephone CCRTC)



Clinic Feedback / Moving forwards

- * Patients have fed back that they appreciated the phone call appointment and feel reassured that their remote check was reviewed
- * All patients are asked if they are happy to attend the hospital for an echocardiogram +/- ECG , 2 patients declined (out of 48)
- * We are performing an audit on this service and we plan to compare to our previous CCRTC in the upcoming months

Manchester's drive through clinics

- * Battery powered programmers and Ipads can used for device interrogation
- * Allows device reprogramming of devices without patient having to enter hospital





Thanks for listening, any Questions? 😊