1 2	NATIONAL INSTITUTE FOR HEALTH AND CARE EXCELLENCE
3	Guideline scope
4 5	Chronic heart failure in adults: diagnosis and management
6	Topic
7 8	This guideline will update the NICE guideline on chronic heart failure (CG108) as set out in the <u>update decision</u> .
9 10	For more information about why this guideline is being developed, and how the guideline will fit into current practice, see the <u>context</u> section.
11	Who the guideline is for
12	People using services, families and carers.
13	Healthcare professionals in primary and secondary care.
14	NICE guidelines cover health and care in England. Decisions on how they
15	apply in other UK countries are made by ministers in the Welsh Government,
16	Scottish Government, and Northern Ireland Executive.
17	Equality considerations
18	NICE has carried out an equality impact assessment [add hyperlink in final
19	version] during scoping. The assessment:
20	lists equality issues identified, and how they have been addressed
21	 explains why any groups are excluded from the scope.
22	The guideline will look at inequalities relating to people who are elderly and
23	frail, and people living in rural areas with limited access to services.

1 What the guideline is about

25 1.1 Who is the focus?

26 Groups that will be covered

24

- Adults (18 and older) with symptoms or a diagnosis of chronic heart failure
- 28 (including heart failure with reduced ejection fraction and heart failure with
- 29 preserved ejection fraction).

30 Groups that will not be covered

- Diagnostic screening for heart failure in people who are asymptomatic.
- People with isolated right heart failure.
- Heart failure in people having chemotherapy.
- Heart failure in people having treatment for HIV.
- Heart failure in women who are pregnant.

1.2 Settings

37 Settings that will be covered

- Primary and secondary NHS-commissioned care including referral to
- 39 tertiary care.

40 1.3 Activities, services or aspects of care

41 Key areas that will be covered

42 Areas from the published guideline that will be updated

- Diagnosing heart failure.
- 44 Role of circulating biomarkers (including natriuretic peptides).
- 45 Echocardiography and cardiac MRI.
- Managing chronic heart failure.
- 47 Initiation and sequencing of pharmacological therapies.
- 48 Mineralocorticoid receptor antagonists.
- 49 Fluid balance (optimum fluid and salt intake).

- Rehabilitation.
- 52 Home-based rehabilitation packages that include an exercise element.
- Monitoring heart failure.
- Role of biomarkers (including natriuretic peptides).
- 55 Role of echocardiography.
- Distance monitoring including telemonitoring.
- 57 Self-monitoring
- Referral for invasive procedures:
- Coronary revascularisation (including coronary artery bypass graft and
 angioplasty).
- Referral and approach to care.
- 62 Multidisciplinary team.
- Transfer of care between secondary and primary care services.
- Information and support.
- Information and support on diagnosis and prognosis for people with
 chronic heart failure, their families and carers.
- Supportive and palliative care.
- Domiciliary oxygen therapy.
- 69 Parenteral and intravenous diuretics.
- 70 Criteria for withdrawing treatment and device inactivation.

72 Areas not in the published guideline that will be included in the update

- How to manage chronic heart failure in different subgroups.
- 74 People with iron deficiency.
- 75 People with chronic kidney disease (eGFR less than 60 ml/min/1.73m²
- 76 with or without markers of kidney damage).
- 77 People with chronic heart failure and secondary atrial fibrillation.
- 78 People aged over 75.
- 79 2 Pharmacological therapies.
- 80 Beta-blockers in people with chronic heart failure and secondary atrial
- 81 fibrillation.

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82 3 Palliative care.

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- 83 Referral to palliative care.
- 84 4 Monitoring heart failure.
- 85 Role of cardiac MRI.

86 Areas that will not be covered

87 Areas from the published guideline that will not be updated

- 88 1 Diagnosing heart failure.
- 89 Symptoms and signs in diagnosing heart failure.
- 90 2 Pharmacological therapies.
- 91 Isosorbide/hydralazine.
- 92 Angiotensin-converting enzyme (ACE) inhibitors.
- 93 Angiotensin-II receptor antagonists (ARBs).
- 94 Diuretics.
- 95 Beta-blockers in the absence of secondary atrial fibrillation.
- 96 Calcium-channel blockers
- 97 Digoxin
- 98 Amiodarone.
- 99 3 Monitoring.
- 100 Clinical review.
- 101 Serum digoxin.
- 102 4 Lifestyle.
- 103 Sexual activity, vaccination and air travel.
- Recommendations in areas that are not being updated may be edited to
- ensure that they meet current editorial standards, and reflect the current policy
- and practice context.

107 Areas from the published guideline that will be removed

- 108 1 Goals of treatment (symptom reduction, functional ability and
- hospitalisation).
- 110 2 General.
- 111 Age.
- 112 **Gender**.

113	3 Pharmacological agents.
114	 Aspirin.
115	- Statins.
116	4 Heart failure caused by valve disease.
117	5 Management of depression and anxiety.
118	6 Benefit of other therapies such as homeopathy, reflexology,
119	hydrotherapy, crystal therapy and acupuncture.
120	7 Referral for invasive procedures.
121	 Implantable cardiac defibrillators.
122	8 Valve surgery
123	9 Non-NHS agencies
124	10 Lifestyle.
125	 Smoking and alcohol.
126	1.4 Economic aspects
127	We will take economic aspects into account when making recommendations.
127	We will develop an economic plan that states for each review question (or key
129	area in the scope) whether economic considerations are relevant, and if so
130	whether this is an area that should be prioritised for economic modelling and
131	analysis. We will review the economic evidence and carry out economic
132	analyses, using an NHS and personal social services (PSS) perspective, as
133	appropriate.
134	1.5 Key issues and questions
135	While writing this scope, we have identified the following key issues, and key
136	questions related to them:
137	1 Diagnosing heart failure.
138	1.1 What is the diagnostic accuracy of N-terminal pro-B-type natriuretic
139	peptide (NTproBNP) versus B-type natriuretic peptide (BNP) for heart
140	failure?

failure and chronic kidney disease?

1.2 What are the diagnostic thresholds for BNPs in people with heart

141

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143		1.3 What are the diagnostic thresholds for BNPs in people with heart
144		failure and atrial fibrillation?
145		1.4 What is the diagnostic accuracy of echocardiography and cardiac
146		MRI versus echocardiography for heart failure?
147	2	Managing chronic heart failure.
148		2.1 In people with CHF who have received one pharmacological
149		treatment, what is the next most clinically and cost effective option?
150		2.2 What is the clinical and cost-effectiveness of pharmacological
151		interventions (erythropoietin and intravenous iron) in people with chronic
152		heart failure and iron deficiency?
153		2.3 How will the use of pharmacological interventions for people with
154		CHF be different in people who also have CKD?
155		2.4 What is the clinical and cost effectiveness of beta-blockers in people
156		with chronic heart failure and secondary atrial fibrillation?
157		2.5 What is the comparative clinical and cost effectiveness of
158		mineralocorticoid receptor antagonists and angiotensin II receptor
159		antagonists (ARBs) in people with symptomatic chronic heart failure who
160		are having treatment with:
161		a beta-blocker and an ACE Inhibitor or
162		a beta-blocker alone because of intolerance to ACE inhibitors?
163		2.6 Is there a role for coronary revascularisation with coronary artery
164		bypass grafting or angioplasty) in people with chronic heart failure?
165	3	Rehabilitation in chronic heart failure.
166		3.1 What is the clinical and cost-effectiveness of home-based
167		rehabilitation (that includes an exercise element) for people with chronic
168		heart failure?
169	4	Monitoring heart failure.
170		4.1 What is the clinical and cost effectiveness of biomarker-based
171		monitoring compared with standard care?
172		4.2 What is the clinical and cost effectiveness of repeated
173		echocardiography for the monitoring of chronic heart failure compared
174		with standard care?
175		4.3 What is the clinical and cost effectiveness of cardiac MRI in the
176		monitoring of chronic heart failure compared with standard care?

177		4.4 What is the clinical effectiveness of salt and fluid restriction for	
178		people with chronic heart failure?	
179		4.5 What is the efficacy and safety of distance monitoring (including	
180		telemonitoring) compared with outpatient monitoring in people with	
181		chronic heart failure?	
182		4.6 What is the efficacy and safety of self monitoring compared with	
183		outpatient monitoring in people with chronic heart failure?	
184	5	Information and support.	
185		5.1 What are the specific needs to be considered when communicating a	
186		diagnosis and consequent prognosis, to people with chronic heart	
187		failure, their families and carers?	
188	6	Referral and approach to care.	
189		6.1 Which members of the multidisciplinary team should be involved in	
190		the care of people with chronic heart failure?	
191		6.2 How should the transition between secondary and primary care be	
192		managed in people with chronic heart failure be managed?	
193	7. Palliative care.		
194		7.1 What criteria should be used to refer people with chronic heart failure	
195		to palliative care and when should they be referred?	
196		7.2 What is the effectiveness of domiciliary oxygen therapy in people	
197		with chronic heart failure who are having palliative care?	
198		7.3 What is the comparable effectiveness of intravenously delivered	
199		diuretics and subcutaneous delivery, in people with chronic heart failure	
200		who are having palliative care?	
201		7.4 What criteria should be taken into account when deciding on the	
202	timing of the discussion about the deactivation of a defibrillator?		
203	The key questions may be used to develop more detailed review questions,		
204	whic	h guide the systematic review of the literature.	
205	1.6	Main outcomes	
206	The	main outcomes that will be considered when searching for and assessing	
207	the e	evidence are:	

Mortality.

208

209	2	Hospitalisation.	
210	3	Re-admission to hospital.	
211	4	Quality of life.	
212	5	Adverse events.	
213	2	Links with other NICE guidance, NICE quality	
214		standards, and NICE Pathways	
215	2.1	NICE guidance	
216	NICE	guidance that will be updated by this guideline	
217	• <u>Ch</u>	ronic heart failure in adults: management (2010) NICE guideline CG108.	
218	NICE	guidance about the experience of people using NHS services	
219	NICE has produced the following guidance on the experience of people using		
220	the NHS. This guideline will not include additional recommendations on these		
221	topics	s unless there are specific issues related to chronic heart failure:	
222	• <u>Pa</u>	tient experience in adult NHS services (2012) NICE guideline CG138	
223	• <u>Me</u>	edicines adherence (2009) NICE guideline CG76	
224	2.2	NICE quality standards	
225	NICE	quality standards that may need to be revised or updated when	
226	this	guideline is published	
227	• <u>Ch</u>	ronic heart failure in adults (2011) NICE quality standard 9	
228	2.3	NICE Pathways	
229	Wher	n this guideline is published, the recommendations will update the current	
230	NICE	Pathway on chronic heart failure. NICE Pathways bring together all	
231	relate	ed NICE guidance and associated products on a topic in an interactive	
232	topic-	based flow chart.	
233	Othe	relevant NICE guidance will also be added to the NICE Pathway,	
234	includ	ding:	

235	 Implantable cardioverter defibrillators and cardiac resynchronisation
236	therapy for arrhythmias and heart failure (review of TA95 and TA120)
237	(2014) NICE technology appraisal guidance 314
238	• Ivabradine for treating chronic heart failure (2012) NICE technology
239	appraisal guidance 267
240	• Implantation of a left ventricular assist device for destination therapy in
241	people ineligible for heart transplantation (2015) NICE interventional
242	procedure guidance 516
243	Insertion and use of implantable pulmonary artery pressure monitors in
244	chronic heart failure (2013) NICE interventional procedure guidance 463
245	Short-term circulatory support with left ventricular assist devices as a
246	bridge to cardiac transplantation or recovery (2006) NICE interventional
247	procedure guidance 177
248	3 Context
240	o contoxt
249	3.1 Key facts and figures
250	Chronic heart failure is a complex clinical syndrome of symptoms and signs
251	that suggest the efficiency of the heart as a pump is impaired. It is caused by
252	structural or functional abnormalities of the heart. The British Heart
253	Foundation's 2014 report <u>Cardiovascular disease statistics</u> reported that about
254	550,000 people in the UK were living with heart failure in 2013. Both the
255	incidence and the prevalence of heart failure increase with age, with an
256	average age at first diagnosis of 76 years.
257	The prevalence of heart failure is expected to rise in future as a result of an
258	ageing population, improved survival of people with ischaemic heart disease
259	and more effective treatments for heart failure.
260	3.2 Current practice
261	This guideline will update NICE's current guidance on chronic heart failure in
262	adults (2010). Uptake of that guidance appears to be good (see the NICE
263	website for <u>uptake information</u>). The Department of Health's <u>Cardiovascular</u>
264	disease outcomes strategy (2013) noted that prescribing of ACE inhibitors,
20.	

ARBs and beta-blockers remains suboptimal, and that improved use of these drugs has the potential to prevent around 190 deaths per year. This update will review evidence on the clinical and cost effectiveness of these therapies.

The <u>Cardiovascular disease outcomes strategy</u> also aims to increase the provision of cardiac rehabilitation from 4% to 33% of people with chronic heart failure. This update will address specific evidence on the content and delivery of cardiac rehabilitation in heart failure.

4 Further information

This is the draft scope for consultation with registered stakeholders. The consultation dates are 20 January to 17 February 2016.

The guideline is expected to be published in March 2018.

You can follow progress of the guideline.

Our website has information about how **NICE** guidelines are developed.

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