1 2	NATIONAL INSTITUTE FOR HEALTH AND CARE EXCELLENCE
3	Guideline scope
4 5	Hearing loss (adult onset): assessment and management
6	Topic
7 8	The Department of Health in England has asked NICE to produce a guideline on the assessment and management of adult-onset hearing loss.
9 10	This guideline will also be used to develop the NICE quality standard for hearing loss (adult onset).
11	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.
13	Who the guideline is for
14 15 16	<ul> <li>Healthcare professionals in primary, secondary and tertiary care</li> <li>Social care professionals</li> <li>People using services, families and carers and the public.</li> </ul>
17 18 19	NICE guidelines cover health and care in England. Decisions on how they apply in other UK countries are made by ministers in the Welsh Government, Scottish Government, and Northern Ireland Executive.
20	Equality considerations
21 22	NICE has carried out <u>an equality impact assessment</u> during scoping. The assessment:
23 24	<ul> <li>lists equality issues identified, and how they have been addressed</li> <li>explains why any groups are excluded from the scope.</li> </ul>
25	The guideline will look at inequalities relating to disability.

# 26 1 What the guideline is about

## 27 **1.1 Who is the focus?**

## 28 Groups that will be covered

- Adults (aged 18 years and older) with hearing loss, including those with
   onset before the age of 18 but presenting in adulthood.
- Special consideration will be given to:
- young adults (aged 18–25)
- people with unilateral hearing loss
- people with speech and language difficulties.

## 35 Groups that will not be covered

• Adults who presented with hearing loss before the age of 18.

# **1.2 Settings**

## 38 Settings that will be covered

- Primary, secondary and tertiary care.
- Community settings (including care homes and domiciliary care) where
- 41 NHS-commissioned care is provided.

## 42 1.3 Activities, services or aspects of care

- We will look at evidence on the areas listed below when developing the
- 44 guideline, but it may not be possible to make recommendations on all the
- 45 areas.

### 46 Key areas that will be covered

- Initial assessment.
- Appropriate referral to specialist care.
- Assessment in audiology (community or secondary care settings) and
- secondary medical care.
- Management of hearing loss.

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#### 52 Areas that will not be covered

- Tinnitus (without hearing loss).
- Vertigo (without hearing loss).
- Acute temporary hearing loss caused by traumatic head injuries, for
- example perforated tympanic membranes or middle ear effusions.
- Management of disease processes underlying hearing loss.
- Surgical management of hearing loss.

# 1.4 Economic aspects

- We will take economic aspects into account when making recommendations.
- We will develop an economic plan that states for each review question (or key
- area in the scope) whether economic considerations are relevant, and if so
- whether this is an area that should be prioritised for economic modelling and
- analysis. We will review the economic evidence and carry out economic
- analyses, using an NHS and personal social services (PSS) perspective, as
- 66 appropriate.

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# 67 1.5 Key issues and questions

- 68 While writing this scope, we have identified the following key issues, and key
- 69 questions related to them:
- 70 1 Initial assessment
- 71 1.1 What audiological assessments in addition to clinical history and
- examination should be carried out in primary care?
- 73 1.2 Which causes of hearing loss can be identified and treated in primary
- 74 care?
- 75 1.3 What are the signs and symptoms that allow early recognition of
- hearing loss needing urgent referral to a specialist?
- 1.4 How can hearing loss be identified in people with mild cognitive
- 78 impairment or dementia?
- 79 2 Appropriate referral to specialist care
- 2.1 Who should be referred directly to audiology from primary care?
- 2.2 Who should be referred to audiovestibular medicine or ear, nose and
- throat (ENT) for medical assessment?

83	3	Assessment in audiology (community or secondary care settings) and
84		secondary medical care
85		3.1 How should hearing and communication needs be assessed? For
86		example, history, examination, pure tone audiometry, tympanometry,
87		speech and hearing in noise, patient-reported quality of life, needs and
88		goal-setting (individual management plans).
89		3.2 Which tests and investigations should be used in medical services to
90		assess the underlying cause of hearing loss?
91		3.3 Which investigations should be used to determine the cause of
92		sudden-onset sensorineural hearing loss?
93	4	Management of hearing loss
94		4.1 What tools (for example, patient-centred decision aids) help people
95		with hearing loss choose between different management strategies,
96		including: hearing tactics, lip reading, hearing aids, assistive listening
97		devices, communication training, counselling?
98		4.2 What are the information, support and advice needs of people with
99		hearing loss and their families and carers?
100		4.3 What is the effectiveness and cost effectiveness of 1 hearing aid
101		compared with 2?
102		4.4 What is the most clinically and cost effective treatment for idiopathic
103		sudden-onset sensorineural hearing loss?
104		4.5 How and when should people with hearing loss using prescribed
105		hearing aids be monitored and followed up?
106		4.6 What is the clinical and cost effectiveness of different types of
107		hearing aid microphones and digital noise reduction technologies?
108		4.7 What is the clinical and cost effectiveness of intervention methods
109		and their impact on continuing appropriate use of devices?
110	The	key questions may be used to develop more detailed review questions,
111	whic	h guide the systematic review of the literature.

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113	1.6	Main outcomes			
114	The main outcomes that will be considered when searching for and assessing				
115	the	evidence are:			
116	1	Health-related quality of life.			
117	2	Positive predictive value of signs and symptoms.			
118	3	Diagnostic accuracy of tests.			
119	4	Adverse events.			
120	5	Appropriate use of hearing aids.			
121	6	Glasgow hearing aid benefit profile.			
122	2	Links with other NICE guidance, NICE quality			
123		standards, and NICE Pathways			
124	2.1	NICE guidance			
125	NIC	E guidance that will be incorporated unchanged in this guideline			
126	Coc	hlear implants for children and adults with severe to profound deafness			
127	(200	9) NICE technology appraisal guidance TA166			
128	<u>Aud</u>	itory brain stem implants (2005) NICE interventional procedure IP108			
129	NIC	E guidance about the experience of people using NHS services			
130	NIC	E has produced the following guidance on the experience of people using			
131	the l	NHS. This guideline will not include additional recommendations on these			
132	topio	cs unless there are specific issues related to hearing loss:			
133	• <u>P</u>	atient experience in adult NHS services (2012) NICE guideline CG138			
134	• <u>S</u>	ervice user experience in adult mental health (2011) NICE guideline			
135	С	G136			
136	• <u>N</u>	ledicines adherence (2009) NICE guideline CG76			
137	NIC	E guidance in development that is closely related to this guideline			
138	NIC	E is currently developing the following guidance that is closely related to			
139	this	guideline:			

141	2.2 NICE quality standards
142	NICE quality standards that may use this guideline as an evidence
143	source when they are being developed
144	Hearing loss NICE quality standard. Publication date to be confirmed
145	2.3 NICE Pathways
146	NICE Pathways bring together all NICE guidance and associated products on
147	a topic in an interactive flow chart.
148	When this guideline is published, the recommendations will be incorporated
149	into a new pathway on hearing loss. Other relevant guidance will also be
150	added to the pathway, including:
151	Cochlear implants for children and adults with severe to profound deafness
152	(2009) NICE technology appraisal guidance TA166
153	Auditory brain stem implants (2005) NICE interventional procedure IPG108
154	An outline of the new pathway, based on the scope, is included below. It will
155	be adapted and more detail added as the recommendations are written during
156	guideline development.

• <u>Diagnostic services</u> NICE guideline. Publication expected November 2017.

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# Hearing loss overview



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## 3 Context

# 3.1 Key facts and figures

- Hearing loss is a major health issue that affects over 11 million people in the
- 161 UK. It is estimated that, by 2035, there will be more than 15.6 million people
- with hearing loss in the UK a fifth of the population. According to the World
- Health Organization (WHO), by 2030 hearing loss will be in the top 10 disease
- burdens in the UK, above diabetes and cataracts.
- 165 It is estimated that, in 2013, the UK economy lost more than £24.8 billion in
- potential output because people with hearing loss were unable to work.
- Research shows that hearing loss doubles the risk of developing depression
- and increases the risk of anxiety and other mental health issues, and it is
- thought that hearing aids may reduce these risks. There is also evidence that

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170	people with hearing loss have a higher risk of dementia: this risk is 3 times		
171	higher in moderate hearing loss and 5 times higher in severe hearing loss.		
172	On average there is a 10-year delay in people seeking help for their hearing		
173	loss, and 45% of people who do report hearing loss to their GP are not		
174	referred to NHS hearing services.		
175	In 2015, NHS England developed the Action plan on hearing loss to produce		
176	and enforce national commissioning guidance, aiming to ensure that		
177	consistent, high-quality services are available, and to intervene if services do		
178	not improve.		
179	3.2 Current practice		
180	The investigation and management pathways for people with hearing loss		
181	vary, and many people face delays in treatment and inappropriate		
182	management. The main referral pathway for an adult with hearing loss who		
183	meets the national 'direct referral' criteria set out by the British Academy of		
184	Audiology is direct from GP to audiology services. For those who do not meet		
185	these criteria, referral is directly to ENT or audiovestibular medicine.		
186	Difficulties in hearing can arise from simple problems, such as occlusive ear		
187	wax which can be treated in primary care, through to potentially life-		
188	threatening conditions, such as autoimmune disease which needs specialist		
189	medical care. Currently in primary care, the identification of treatable causes		
190	of hearing loss such as occlusive ear wax and infections is not robust, leading		
191	to some people waiting a long time to see a specialist when they could have		
192	been treated successfully in primary care.		
193	Assessment includes history taking, otoscopy, pure tone audiometry and		
194	tympanometry. It may also include clinic-based assessment of ability to		
195	understand speech in a noisy environment, and self-report measures related		
196	to disability.		
197	Audiology services are provided in a number of NHS settings. In some parts		
198	of England this is through the 'any qualified provider' (AQP) scheme, which		

199	means people have a choice of service providers ranging from traditional
200	audiology services to new high street providers.
201	Management pathways vary locally once hearing loss is identified. In general,
202	if hearing aids are recommended, people are offered 1 for each ear unless
203	there are reasons that this is inappropriate. However, in some areas people
204	are not offered NHS hearing aids when they might conceivably benefit, while
205	others are offered 1 hearing aid when they need 2, or given 2 when they have
206	difficulty maintaining the use of 1. Some people are given hearing aids when
207	strategies to improve hearing and listening would be more useful. In many
208	cases hearing aids are tried but discontinued because the person has not had
209	the support they need to use them.
210	These variations on assessment and management pathways for hearing loss
211	can have a major impact, adversely affecting people's prognosis, and
212	contributing to the overall financial burden of hearing loss. Identifying the
213	correct route of referral and optimal management pathway for people with
214	hearing loss is therefore very important.
215	3.3 Policy, legislation, regulation and commissioning
216	Policy
217	Any qualified provider (AQP) scheme Some routine and non-complex
218	audiological care is provided by the private and independent sector in England
219	under the 'any qualified provider' scheme, whereby any service can offer
220	hearing testing and provide hearing aids if it meets the criteria. Providers now
221	include high street chains as well as local audiology departments. The
222	guideline will be relevant to all providers of adult hearing services in England.
223	Legislation, regulation and guidance
224	Action plan on hearing loss NHS England and Department of Health, 2015
225	

# **4** Further information

This is the draft scope for consultation with registered stakeholders. The consultation dates are 29 March to 26 April 2016.

The guideline is expected to be published in May 2018.

You can follow progress of the guideline.

Our website has information about how NICE guidelines are developed.

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