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Why do people choose Emergency and Urgent care services?

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## Main Document

Why do people choose Emergency and Urgent care services?

### 16 **Abstract (394 words)**

17           Objectives: Rising demand for emergency and urgent care services are well documented,  
18 as are the consequences, for example, ED crowding, increased costs, pressure on services and  
19 waiting times. Multiple factors have been suggested to explain why demand is increasing,  
20 including an aging population, rising number of people with multiple chronic conditions and  
21 behavioural changes relating to how people choose to access health services. The aim of this  
22 systematic mapping review is to bring together published research from urgent and emergency  
23 care settings to identify drivers that underpin patient decisions to access urgent and emergency  
24 care.

25  
26           Methods: Systematic searches were conducted across MEDLINE (via Ovid SP),  
27 EMBASE (via Ovid), The Cochrane Library (via Wiley Online Library), Web of Science (via the  
28 Web of Knowledge) and the Cumulative Index to Nursing and Allied Health Literature  
29 (CINAHL; via EBSCOhost. Peer reviewed studies written in English that reported reasons for  
30 accessing or choosing emergency or urgent care services, and were published between 1995 and  
31 2016 were included. Data were extracted and reasons for choosing emergency and urgent care  
32 were identified and mapped. Thematic analysis was used to identify themes and findings were  
33 reported qualitatively using framework based narrative synthesis.

34  
35           Results: Thirty-eight studies were identified that met the inclusion criteria. Most studies  
36 were set in the UK (39.4%) or the USA (34.2%) and reported results relating to ED  
37 (68.4%). Thirty-nine percent of studies utilised qualitative or mixed research designs. Our  
38 thematic analysis identified 6 broad themes which summarised reasons why patients chose to  
39 access ED or urgent care. These were access to and confidence in primary care; perceived  
40 urgency, anxiety and the value of reassurance from emergency based services; views of family,  
41 friends or healthcare professionals; convenience (location, not having to make appointment and

## Main Document

Why do people choose Emergency and Urgent care services?

42 opening hours); individual patient factors (e.g. cost); perceived need for EMS or hospital care,  
43 treatment or investigations.

44

45 Conclusions: We identified 6 distinct reasons explaining why patients choose to access  
46 emergency and urgent care services: Limited access to or confidence in primary care, patient  
47 perceived urgency, convenience, views of family, friends or other health professionals and a  
48 belief that their condition required the resources and facilities offered by a particular healthcare  
49 provider. There is a need to examine demand from a whole system perspective to gain better  
50 understanding of demand for different parts of the emergency and urgent care system and the  
51 characteristics of patients within each sector.

52

### 53 **Introduction**

54 The trend of increasing annual demand for emergency and urgent care is consistent across both  
55 developed countries and different providers of emergency and urgent care (EUC). Studies from  
56 the USA, Canada, UK and Australia report that demand for Emergency Department (ED) care is  
57 increasing by as much as 3% - 6% each year <sup>1;2; 3;4; 5</sup>. In the USA, ED attendance increased from  
58 34.1% to 40.5% per 100 persons between 1996 and 2006 <sup>6</sup> and in England demand has doubled  
59 from an estimated 6.8 million ED attenders in 1966/7 to 13.6 million in 2006/7, with a further  
60 increase to 14.3 million in 2012/13. <sup>7</sup> Demand for urgent care center services in the UK has also  
61 grown, with attendances increasing by 46% between 2006 and 2013. <sup>7</sup> In addition, demand for  
62 prehospital emergency services has risen dramatically over the last 20 years, rising in England by  
63 125%, from around 4 million calls in 1994/5 to 9 million ambulance calls in 2014/15 <sup>8</sup> and in the  
64 US EMS transports have risen from 16,000,000 in 2006 to 28,004,624 in 2009. <sup>9;10</sup>

65 The impact of increased demand for emergency and urgent care is well known and includes  
66 issues such as ED crowding, increased costs, longer waiting times and over stretched services.  
67 ED crowding has been a recognized problem in the US since the mid-1980s <sup>3; 11</sup>, occurs in most  
68 developed countries <sup>12; 13; 14; 15</sup> and is described as a 'worldwide public health problem'. <sup>16</sup>

## Main Document

Why do people choose Emergency and Urgent care services?

69 Increased demand for services also results in increased service provision costs. For example, in  
70 the UK demand for ambulance services rises annually by 6.5% and increases costs annually by  
71 60 million pounds (85 million dollars).<sup>17</sup>

72 Published literature suggests that some of the increase in demand is attributable to people with  
73 primary care problems who use emergency and urgent care services to access care<sup>18</sup>, and some  
74 studies suggest that large proportions of patients, (10 - 60%), can be managed using lower acuity  
75 care services.<sup>19</sup> However, this is not the only reason and factors contributing to increased demand  
76 for emergency and urgent care are often complex and multifactorial. Several studies report that  
77 increased demand for emergency and urgent care services is due to a proportionate rise of older  
78 people in the population who may have different and more complex care needs.<sup>20; 21</sup> Other  
79 studies have reported that patients bypass their Primary Care Physician (PCP) (also known as a  
80 General Practitioner (GP)) and instead go directly to urgent or emergency care,<sup>22</sup> particularly for  
81 out of hours care and in urban centers.<sup>23</sup> Factors such as perceived superior treatment at  
82 hospitals,<sup>18</sup> lack of access to other care<sup>24</sup> a belief that the problem was serious enough to  
83 warrant emergency treatment<sup>24</sup> and lack of awareness of other services<sup>19</sup> have all been reported  
84 as potential reasons why people choose emergency and urgent care and thus may all impact on  
85 why demand for these services is continually increasing.

86 The aim of this study is to systematically review the related literature and, using narrative  
87 synthesis, to identify the factors behind patient decisions to access urgent and emergency care,  
88 including why patients access emergency and urgent care and how and why they choose which  
89 service to access.

90

## 91 **Methods**

### 92 **Study design**

## Main Document

Why do people choose Emergency and Urgent care services?

93 This review was one of five linked reviews undertaken by our Evidence Synthesis Center to look  
94 at the effectiveness of different models of delivering urgent care .<sup>25</sup> The Evidence Synthesis  
95 Center provides rapid evidence synthesis about relevant health issues and evidence gaps to the  
96 UK National Institute for Health Research (NIHR). This information is used to inform calls for  
97 new research. A timeline of 6 months was given by NIHR for the Evidence Synthesis Center to  
98 complete 5 separate but interlinked reviews around emergency and urgent care, and this paper  
99 presents one of the reviews. The review reported here explores patient’s reasons for choosing  
100 emergency and urgent care.

101 We were required to provide answers to the research commissioner (NIHR) within a timescale  
102 that was prohibitive to a full systematic review. The short time-frame and vast scope of the  
103 review subject area lends itself to rapid review methods, in order to efficiently identify and  
104 synthesise the most relevant evidence within the study timeframe. A rapid review is defined as “a  
105 type of knowledge synthesis in which components of the systematic review process are  
106 simplified or omitted to produce information in a short period of time”<sup>26</sup> for example, by  
107 limiting inclusion by date or language and reporting results narratively .<sup>27</sup> Rapid reviews have  
108 been described as a ‘streamlined alternative to standard systematic reviews’<sup>28</sup> and a key use of  
109 this type of review is to provide summary evidence in an environment where health service  
110 delivery decisions need to be made quickly and not within the timeframes of traditional reviews.  
111 They also provide a format that makes evidence accessible for decision makers and are a  
112 valuable way of supporting evidenced based decision making.<sup>28</sup>

113 The type of review undertaken here can also be described as a mapping review. Mapping reviews  
114 are typically used to map, summarise and categorise broad research bases, particularly with the  
115 intention of identifying evidence gaps and are defined as “a systematic search of a broad field to  
116 | identify gaps in knowledge and/or future research needs”.<sup>29</sup> Mapping reviews are frequently used  
117 | within policy development and health services research. <sup>30</sup>The review reported here used a  
118 | systematic search strategy. However, other stages of the review are typologically different from

## Main Document

Why do people choose Emergency and Urgent care services?

119 a traditional systematic review method. For example, we did not attempt to intensively identify  
120 all applicable evidence, but instead utilized structured searches to identify key evidence.  
121 Findings were reported qualitatively using a framework based narrative synthesis.<sup>31</sup>

### 122 **Literature Search and Selection**

#### 123 **Database searches**

124 Search terms were developed based on discussions with the research team, which included an  
125 information specialist (AC). Where possible, we identified similar reviews and expanded pre-  
126 existing search strategies to meet the broad remit of this search. We combined relevant terms  
127 relating to the following: population; users of the range of services within the emergency and  
128 urgent care system (ambulance services, ED, other urgent care facilities, telephone access  
129 services, primary care-based urgent care services); outcomes; service effects – ED attendances,  
130 emergency admissions, ambulance calls, dispatches or transports, demand, appropriateness of  
131 level of care, cost consequences; patient outcomes – patient experience and satisfaction,  
132 decision-making, adverse events and cost impact.

133

134 An information specialist (AC) conducted targeted database searches using the following  
135 databases: MEDLINE (via Ovid SP), EMBASE (via Ovid), The Cochrane Library (via Wiley  
136 Online Library), Web of Science (via the Web of Knowledge) and the Cumulative Index to  
137 Nursing and Allied Health Literature (CINAHL; via EBSCOhost). Searches were initially  
138 limited to 1 January 1995 to December 2014, and were updated to April 2016 to ensure current  
139 findings are included in the analysis and that results are relevant to current services. We used a  
140 combination of free text and medical subject headings (MeSH) search terms, as well as  
141 appropriate subheadings. Keywords related to emergency and urgent care services, health service  
142 demand and related issues, factors, for example crowding or aging, rising demand and were  
143 combined using BOOLEAN logic. Search results were limited to English language papers

## Main Document

Why do people choose Emergency and Urgent care services?

144 published from 1995. A detailed description of the search strategy is provided in supplemental  
145 file1. Search results were downloaded into EndNote version X7.2.1 (Thomson Reuters, CA,  
146 USA).

147 Other key evidence was identified through the following supplementary searching methods:  
148 examining reference lists of relevant systematic reviews; using our own extensive archives of  
149 previous related research, including a number of related evidence reviews; an evidence review  
150 produced by NHS England as part of its review of urgent and emergency care,<sup>32</sup> consultation  
151 with internally-based topic experts and some external topic experts.<sup>33</sup>

### 152 **Inclusion criteria**

153

154 In order to manage the review process, we used the following broad inclusion criteria:

155 Empirical data; quantitative, qualitative and mixed method studies; emergency or urgent care  
156 service users; written in English; report relevant outcomes (patient experiences and  
157 perspectives); peer-review publications; published between 1995 and 2016

158 We did not include studies that presented evidence relating to clinical interventions for specific  
159 conditions or specific condition related studies, as these did not fit with the whole service, whole  
160 population perspective of this review. However, where evidence was presented for broad  
161 population groups, for example children or the elderly, these were included.

### 162 **Study selection**

163 References were managed using Endnote version. After removal of duplicates, 1724 remaining  
164 references were screened for relevance, using the title and abstract; 1647 irrelevant papers were  
165 excluded at this stage and the most common reason for exclusion was lack of empirical evidence



## Main Document

Why do people choose Emergency and Urgent care services?

166 or publication type (editorial, letter, conference abstract etc). Where it was unclear if studies  
167 were relevant, the full text paper was obtained.

168 Seventy-seven full-text papers were reviewed for inclusion by 1 researcher (JT) and the results  
169 were discussed and confirmed with two other researchers (JC, DB); 38 papers were excluded at  
170 this stage. The most frequent reason for exclusion was not an empirical study (n=14). Where  
171 additional input was required specific papers were discussed with the wider review team as part  
172 of regular project meetings.

173

### 174 **Data Extraction**

175 Results from 38 included studies were extracted directly into summary tables study by one  
176 reviewer (DB) and verified by a second reviewer (JC). Regular project meetings were held  
177 during this review stage and any differences in extracted data were reviewed and discussed to  
178 ensure consensus on extracted data items. Data was extracted using standardized predefined  
179 headings and included: main purpose and objectives; key findings and conclusions.

### 180 **Data analysis**

181 A thematic mapping analysis was undertaken for all included papers, including those reporting  
182 survey and quantitative data.<sup>31</sup> The thematic approach used in rapid reviews attempts to  
183 characterize the body of literature qualitatively rather than to quantify numbers of studies. This  
184 reduces the need to identify a comprehensive sample (as in a systematic review) as opposed to a  
185 representative sample which indicates the major trends without having to find all instances.  
186 Patient-derived reasons for choosing emergency or urgent care service were identified and  
187 extracted from each included research paper and mapped against emerging themes by two  
188 reviewers (JT and JC). A qualitative based thematic analysis process was used to identify and  
189 code emerging themes, using similar methods to those used in qualitative Framework analysis.<sup>34</sup>

## Main Document

Why do people choose Emergency and Urgent care services?

190 Themes were reviewed and discussed with the study team and further refined and developed,  
191 until a final agreed coding framework was applied to the review findings, resulting in the  
192 identification of 6 themes which encompassed reported reasons for choosing emergency or  
193 urgent care services. We have narratively synthesized and reported data by theme. The narrative  
194 synthesis summarizes the findings from multiple studies using mainly words or text information.

### 195 **Quality assessment**

196 Rapid reviews tend to be descriptive rather than analytical. For example, they prioritise the  
197 research questions that have been addressed rather than the results. This is one reason why  
198 approaches to quality assessment are less thorough. For example, study types are described  
199 rather than appraised. However, in order to ensure the conclusions of this research are based on  
200 robust evidence, we assessed the quality of studies using commonly used quality assessment  
201 tools. Fifteen qualitative interview or focus group studies were assessed using the Critical  
202 Appraisal Skills Programme Qualitative Checklist.<sup>35</sup> This tool was chosen as it incorporates both  
203 broad and study specific quality issues and is a widely recognised quality assessment tool.  
204 Twenty-three cross-sectional studies were assessed using the National Institute Health (NIH)  
205 Quality Assessment Tool for Observational Cohort and Cross-Sectional Studies.<sup>36</sup> We defined  
206 cross-sectional studies as structured interviews, structured telephone interviews or surveys,  
207 postal surveys which used statistical analysis methods. As no cohort studies were included in this  
208 review, we adapted the NIH tool to remove questions that primarily referred to quality issues in  
209 cohort studies.

210

211

212

### 213 **Results**

#### 214 **Search results**

## Main Document

Why do people choose Emergency and Urgent care services?

215 We identified 38 individual studies relevant to this review. Search results are reported using  
216 Preferred Reporting Items for Systematic reviews and Meta-analysis (PRISMA)<sup>37</sup> in Figure 1.  
217 The main study characteristics are reported in Table 1. Complete summary tables of all included  
218 papers are available as supplemental file 2. Included studies were primarily concerned with  
219 patients presenting with urgent rather than emergency conditions.

220

221

### 222 **Study quality and relevance**

223 All included studies were published in peer-reviewed journals. Given the main purpose of most  
224 studies was to identify patient-derived factors or reasons for emergency and urgent care service  
225 use, the use of qualitative and cross-sectional study designs was appropriate. The majority of  
226 studies were undertaken in the USA, UK, Australia and Canada (n= 32/38; 84.2%), giving the  
227 data and results greater congruency due to the similarity of health systems. Most (n=21; 52.6%)  
228 studies reported data relating to a single site or health facility. However, where data were  
229 reported within national surveys the results were consistent with those from single site studies.<sup>24</sup>  
230 Quality assessment (see supplemental file 3) identified that overall, the quality of included  
231 studies is high, but identified limitations with some study methodologies. Only thirteen of the  
232 twenty-three cross-sectional studies reported a sample size justification, power description, or  
233 provided variance and effect estimates provided. It was not possible to calculate the response rate  
234 for one study, due to insufficient detail given.<sup>18</sup> However, for the twenty-two studies that did  
235 provide this information, the mean response rate was 77% and the range was 45% - 99%. Only  
236 one study had a response rate lower than 50%.<sup>38</sup> The fifteen qualitative studies had fewer quality  
237 issues and overall the quality of included studies was very high. Three studies did not provide  
238 sufficient information about ethical or research approvals and two studies lacked information  
239 about the considerations of the relationship between the research and the patient. Some studies  
240 used multiple methods incorporating a range of qualitative methods across whole populations,  
241 whilst others employed simpler designs with less comprehensive samples. For example, multi-

## Main Document

Why do people choose Emergency and Urgent care services?

242 site studies using focus groups and interviews,<sup>39</sup> and multi-site surveys<sup>24</sup> compared to single site  
243 qualitative studies.<sup>18</sup>

244

### 245 **Summary of findings**

246 A summary of the main characteristics of all included studies is given in Table 1.

### 247 **Narrative synthesis**

248 We identified frequently occurring themes regarding patients' decisions on where to access care  
249 and, in particular, why patients chose to access emergency or urgent care for non-urgent health  
250 problems. We identified 6 themes that accounted for the majority of the factors related to ED  
251 attendance and urgent care usage. Descriptions of each theme are outlined in figure 2.

252

### 253 **Confidence in primary care and access to appointments**

254 Access to and confidence in primary care was a key factor identified by 26 studies and nearly all  
255 reported access related issues. In most studies patients had access to primary health care and  
256 chose instead to seek more urgent or emergency care, often without contacting a PCP first. There  
257 were multiple reasons why people felt accessing primary health care services was difficult.

258 Anticipated waiting times for appointments and PCPs (including General Practitioners (GPs))  
259 being busy were key factors,<sup>40; 41;42;</sup> with one study reporting that 44% of patients found their  
260 GP 'inaccessible to their needs'. This was also linked to patient perceptions around accessibility  
261 and availability of appointments at times of day that were convenient to patients,<sup>43</sup> limited PCP  
262 opening hours,<sup>44</sup> with a small proportion of patients reporting they were unable to obtain a PCP  
263 appointment.<sup>38</sup> Lack of primary health service was available after-hours was raised by one  
264 study.<sup>18</sup> Another factor was lack of awareness of other services; with one study reporting that  
265 7/30 patients who attended ED had no knowledge of alternative primary care options.<sup>38</sup> GP  
266 dissatisfaction influenced 10% of patients in their decision to attend an Urgent Care Center  
267 (UCC)<sup>39</sup> and in some cases high rates of PCP dissatisfaction was reported.<sup>46</sup> One study reported  
268 that patients felt out of hours care was impersonal.<sup>47</sup>

## Main Document

Why do people choose Emergency and Urgent care services?

269

270 There was evidence that different population groups had different views, used services  
271 differently and for different reasons. For example, older people were distrustful of telephone  
272 services and preferred to see a familiar PCP than to contact an out of hours service.<sup>48</sup> Conversely,  
273 the study by Bengner et al identified younger people tended to choose emergency and urgent care  
274 over general practice for non-urgent health care problems.<sup>49</sup> Young females were identified in a  
275 Brazilian study as being more likely to use ED inappropriately, due to lack of access to primary  
276 care services.<sup>50</sup> Migrant populations often had no PCP and often sought ED care for non-urgent  
277 health problems due to difficulties accessing primary health care.<sup>51</sup>

278

### 279 **Perceived urgency anxiety and the value of reassurance from emergency based services**

280 Twenty four studies reported results categorized within this theme, with 14/24 studies reporting  
281 data from ED based studies. A key finding here was that patient anxiety was strongly related to  
282 health care seeking behaviour<sup>52;53</sup> and this linked closely with the reassurance that patients  
283 obtain from emergency services<sup>54</sup> and their trust of ED services.<sup>55</sup> In some cases anxiety was due  
284 to worries about the legitimacy of need<sup>39</sup>, with patients not wishing to use services  
285 inappropriately. There was a strong sense that patients viewed their conditions to be  
286 serious.<sup>42;40;43;56;49,57;58</sup> This was juxtaposed with evidence that patients were not always capable  
287 of assessing which health problems required emergency care and were sometimes unsure of the  
288 legitimacy of their health needs.<sup>39;59</sup>

289 Whilst self-perceived urgency is a strong theme within included studies, one study<sup>38</sup> reported  
290 that 52% of ED attending patients described their condition as non-urgent, 48% urgent, with no  
291 patients describing their problem as very urgent.

292 Patients may also gain reassurance from having greater confidence in ED and hospital services,  
293 with 39% of patients stating they had more confidence in their ED than in their PCP service<sup>22</sup>  
294 and 24% believing that hospital treatment is superior.<sup>18</sup>

295

Why do people choose Emergency and Urgent care services?

296 **Perceived need for EMS or hospital care, treatment or investigations**

297 Thirteen studies reported evidence categorized within this theme, with most reporting that  
298 patients believe emergency or urgent care was required for their health problem. This often stems  
299 from a belief that their condition needs the resources offered by a hospital, including hospital  
300 doctors (rather than PCPs or GPs) and diagnostics particularly x-rays and treatment.<sup>43;38;47;60</sup>  
301 Some patients felt they were too sick to be seen within a primary care setting , with the study by  
302 Lobachova and colleagues reporting that 80% of patient felt they were too ill to be seen and  
303 treated in primary care.<sup>58</sup> Others felt their condition was too difficult or complex for PCPs to  
304 control or could only be effectively dealt with by the ED.<sup>19;56;57</sup> The study by Redstone reported  
305 that 24% of patients who presented to ED with problems that were subsequently triaged as non-  
306 urgent, attended ED because they felt they needed to be admitted to hospital.<sup>56</sup>

307

308 **Being advised to attend ED by family friends or healthcare professionals**

309 The views of family, friends and healthcare professionals were important contributory factors in  
310 patient decision making to utilize ED services in 11 of the included studies. Six studies reported  
311 that patients attended ED due to recommendations or referrals from other health professionals  
312 <sup>19;55; 42;38;45,58</sup> and 5 studies identified that patients attended due to the views of family and  
313 friends,<sup>42;40;38;58;61</sup> with some studies describing both family and friends and health care  
314 professionals advice as an explanatory factor. One study found that 52% of patients attended ED  
315 due to advice from a health care professional or friends and family.<sup>38</sup> A study by Hodgins et al  
316 identified views of family and friends as one of the highest ranking explanatory factors behind  
317 ED attendance<sup>40</sup> and Lobachova found that whilst 35% of patients attended ED due to being  
318 referred by other health professionals, 48% came due to advice from friends or family.<sup>58</sup> The  
319 study by Penson described the most common reason for attendance being advice from others, but  
320 this was more usually advice from health professionals rather than family or friends.<sup>19</sup> One study  
321 identified that females were more likely to attend ED due to the recommendations of others than  
322 males<sup>61</sup> and that the source of the advice was more likely to be family and friends.

Why do people choose Emergency and Urgent care services?

323

324 **Convenience in terms of location, not having to make appointment and opening hours.**

325 The perceived convenience of emergency and urgent care services was a identified in 15 studies  
326 as a key driver in patient decision making, and this is also linked to negative views around  
327 inconvenient access to primary care. Access to primary care is often viewed as limited, due to  
328 more structured opening hours and perceptions around difficulty obtaining appointments, and  
329 there is a view that ED is more convenient due to factors such as 24 hour availability and not  
330 having to make an appointment.<sup>43;38;62;56;;50</sup> In one study, 60% of patients viewed ED as more  
331 convenient than their PCP<sup>56</sup> and several other studies reported that people chose to visit ED for  
332 low urgency problems due to ED being closer or faster,<sup>63</sup> the accessibility of the ED,<sup>43,55</sup> the  
333 convenience of the ED location<sup>42</sup> or service.<sup>40</sup> Conversely, one study reported that patients  
334 attended ED with primary care problems even though few people believed they would be seen  
335 more quickly or that it was more convenient.<sup>19</sup>

336

337 **Individual patient factors (e.g. costs and transport).**

338 This theme also relates to the convenience and primary care access themes. In some health  
339 systems, costs and transport options affected decision making and these were identified as  
340 explanatory factors for choosing Emergency and urgent care services in 8 studies. Four studies (3  
341 from the USA and 1 from Australia) identified costs as an issue,<sup>45,63;58;59</sup> and in some cases  
342 reported that services users take into account the costs of using primary or EMS care when  
343 making decisions on which service to access.<sup>45</sup> One study identified that 15% of urgent care  
344 center service users chose to access that particular service due non-mandatory payment. Wilkin  
345 and colleagues reported that health care costs may prevent people from changing their current  
346 health seeking behaviour.<sup>59</sup>

347

348 Transportation issues, for example, not having a car, prompted some service users to choose ED,  
349 ambulance or urgent care services rather than primary care and this was identified by 3

## Main Document

Why do people choose Emergency and Urgent care services?

350 studies.<sup>45,59,64</sup> One study reported that 34% of patients chose to use the ambulance service instead  
351 of primary care due to not having a car.<sup>64</sup> However, for some population groups there were  
352 barriers to using out of hours and ED services and this affected their choice of service. For  
353 example, older people faced specific barriers to using ED and urgent care services. In particular,  
354 travelling at night and using the telephone were factors that dissuaded older people from using  
355 out of hours services; instead they preferred to wait for an appointment with a familiar PCP.  
356 Campbell found that out of hours decisions were often influenced by personal opinions around  
357 out of hours services and that trends differed between rural and urban areas, with people in rural  
358 areas often delaying contact until their own doctor was available, whereas people in urban areas  
359 were more likely to use out of hours emergency and urgent care services.<sup>41</sup>

360

361

362

### 363 **Discussion**

364 We have identified 6 key themes that describe why patients choose to access emergency and urgent care  
365 instead of primary care for low urgency health problems. The themes are broad categories; each contain  
366 multiple and specific patient-derived explanatory factors and are applicable to emergency and urgent care  
367 health systems in most developed countries.

368 The factors identified in the themes are supported by other research. For example, a qualitative interview  
369 study to identify which aspects of the emergency ambulance service care are valued by service users  
370 found that service users had high levels of anxiety and valued the reassurance that was provided by the  
371 ambulance service.<sup>65</sup> This directly supports the theme identified from this research around 'perceived  
372 urgency, anxiety and the value of reassurance from emergency based services'.

373 Perceptions of urgency may differ between patients and health care professionals. The study by Coleman  
374 identified a discrepancy between patients' perceptions of the seriousness of their health problem and  
375 related expectations of care, and the views of health care professionals.<sup>60</sup> This may lead to patients  
376 accessing care or treatment which is unnecessary due to a belief that the problem was serious and



## Main Document

### Why do people choose Emergency and Urgent care services?

377 supports the theme ‘Perceived need for EMS or hospital care, treatment or investigations’. However,  
378 identifying whether patients are choosing care inappropriately is difficult and sometimes controversial;  
379 many cases are retrospectively determined as non-urgent and there is often disagreement amongst health  
380 professionals about appropriateness.<sup>66</sup> Even if there are more appropriate ways for patients to receive  
381 care this does not mean it is inappropriate for patients to attend ED. Some studies have shown that some  
382 patients face anxiety about whether they are choosing the right level of care and don’t wish to be  
383 categorized as time wasters.<sup>67</sup> In particular, older people are sometimes reluctant to access emergency  
384 care perceive without first seeking the views of other people and this can be a barrier to seeking timely  
385 emergency and urgent care.<sup>49</sup> In contrast, young adults are more likely to go to ED or seek urgent care  
386 than contact their PCP and have lower satisfaction with primary care services.

387 Most studies reported that patients perceptions of access to and confidence in primary care was a key  
388 factor in low urgency ED attendances. Patient satisfaction with care is predictive of future health care  
389 choices<sup>68</sup> and when patients experience difficulties obtaining appointments or are unsatisfied with the care  
390 they receive from their PCP this may impact on future health seeking behaviour and choices. Past  
391 research shows that patients with an urgent health care problem are unwilling to wait more than 1 day for  
392 an appointment with their own physician.<sup>69</sup> Demand for unplanned services is rising and this has been  
393 shown to rise further when access to PCP care is reduced.<sup>70</sup> A systematic review of primary care factors  
394 that impact on unscheduled secondary care use showed that better primary care access led to reduced  
395 unscheduled care,<sup>71</sup> with increased access to primary care leading to a reduction in ED attendances. Many  
396 people also value the convenience of ED, not having to make an appointment and access to specialist care  
397 if needed. Important drivers for ED use were identified using factor analysis by Ragin and colleagues and  
398 five factors were identified as having good reliability. These included convenience, belief that the  
399 problem was serious/medical necessity, preference for hospital facilities and individual patient factors  
400 related to cost of care and insurance.<sup>72</sup> Capp and colleagues looked in detail at the impact of health  
401 insurance on ED usage and identified that lack of access to alternative care was a key driver for low  
402 acuity ED attendance.<sup>73</sup> Whilst Kangovi and colleagues also identified patients of low socioeconomic  
403 status prefer hospital care over primary care because they view it as more convenient and accessible  
404 whilst also providing higher quality care for less cost.<sup>74</sup> A study about ED closures by Hsia et al, found  
405 that ED closures disproportionately affected vulnerable communities, for example, those without medical

## Main Document

### Why do people choose Emergency and Urgent care services?

406 insurance, minority groups or comorbidities.<sup>75</sup> It may be that convenience and accessibility issues are  
407 more important to sub-groups who already experience difficulties accessing care.

408 Multiple sources have identified the views and advice of others as a key driver in ED utilisation.  
409 However, young people are reported as more likely to directly seek urgent care or attend ED<sup>76</sup> and a  
410 criticism of some telephone based urgent care services is that advice can lead to a rise in ED  
411 attendances.<sup>77</sup>

412 As well as patient based factors, demand is likely to be influenced by a range of other characteristics and  
413 factors. These include ageing populations with chronic conditions and complex health needs, socio-  
414 economic factors often related to deprivation and lack of social support, and policy decisions around  
415 health planning and service provision, for example, access to primary care and geographical differences in  
416 provision. Future research to identify independent risk factors associated with accessing emergency and  
417 urgent care, as part of a population based whole system study, are required in order to identify and  
418 describe the sources and impact of demand on the emergency and urgent care system as a whole and to  
419 identify what demand is for different parts of the system and how these interact.

420

### 421 **Limitations**

422 This was a rapid review, therefore some aspects of systematic review methodology have been omitted or  
423 simplified in order to produce a review in a short timeframe.<sup>26</sup> By limiting the evidence to 1995 to 2016  
424 we have ensured that the evidence assessed has context and relevance to current policy and practice. In  
425 balancing the large scope of this review against the time and resource constraints, we aimed to provide a  
426 broad overview of existing evidence and utilized rapid review methods to structure the review process.  
427 For example, data extraction was focused towards the most pertinent evidence and information, rather  
428 than an exhaustive critique of all available information and we used a framework based synthesis, which  
429 is an efficient method for synthesising evidence to inform policy within short timescales.<sup>31</sup>

430

431 As part of the review search strategy, we excluded non-English language studies, grey literature, abstracts  
432 and conference items. We excluded non-english language studies as papers not published in English are  
433 less likely be congruent to English and UK healthcare systems. As befits a systematic review of patient

## Main Document

### Why do people choose Emergency and Urgent care services?

434 reported reasons for accessing emergency and urgent care, most of the evidence was from qualitative or  
435 survey based research. Each of these methods has its limitations and we undertook a quality assessment to  
436 ensure the studies included in this review met accepted quality thresholds. For example, the mean survey  
437 response rate for included studies reporting survey data was >74%. This review examined empirical  
438 evidence that may help explain why demand for emergency and urgent care services is changing.  
439 Evidence was not assessed to identify or make recommendations regarding future services or optimum  
440 service configuration.

441

#### 442 Research and policy

443 Currently, most developed countries are exploring ways reverse what is often termed as a ‘crisis  
444 in emergency medicine.’<sup>78</sup> In particular, health-care policy makers are looking at methods to  
445 reduce ED crowding and medically unnecessary use of emergency and urgent services, whilst at  
446 the same time promoting methods to ensure patients receive care from the most appropriate  
447 service. For example, in the UK, the NHS Five Year Forward View presents the case for  
448 redesigning current urgent and emergency care services.<sup>79</sup> By understanding what drives  
449 patients with low-urgency health-problems to access emergency and urgent health-care, this  
450 research will help policy makers to plan future ways of managing demand so that service  
451 provision works for patients, is sustainable and helps people with urgent care needs access the  
452 right care first time.<sup>32</sup>

#### 453 **Conclusions**

454 We identified 6 distinct reasons explaining why patients choose to access emergency and urgent  
455 care services, for mainly low urgency health problems. Limited access to or confidence in  
456 primary care, patient perceived urgency, convenience, views of family, friends or other health  
457 professionals and a belief that their condition required the resources and facilities offered by a  
458 particular healthcare provider were all key factors that influence patients when they make  
459 decisions about whether to access emergency and urgent care and the type of emergency and  
460 urgent care they choose. By understanding why more people are choosing to access these  
461 services we are better able to direct and provide patients with the right care at the right time.

## Main Document

Why do people choose Emergency and Urgent care services?

462 However there is a need to examine demand from a whole system perspective and in doing so,  
463 gain better understanding of demand for different parts of the emergency and urgent care system  
464 and the characteristics of patients within each sector.

465

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471

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475

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