

1 **Why do patients with psychosis listen to and believe derogatory and threatening voices?**

2 **21 reasons given by patients**

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5 **FOR SUBMISSION TO BEHAVIOURAL AND COGNITIVE PSYCHOTHERAPY**

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20 **Running header:** Derogatory and threatening voices

35 **Abstract:**

36 **Background:** Around two thirds of patients with auditory hallucinations experience derogatory  
37 and threatening voices (DTVs). Understandably, when these voices are believed then common  
38 consequences can be depression, anxiety, and suicidal ideation. There is a need for treatment  
39 targeted at promoting distance from such voice content. The first step in this treatment  
40 development is to understand why patients listen to and believe voices that are appraised as  
41 malevolent.

42 **Aims:** To learn from patients their reasons for listening to and believing DTVs.

43 **Method:** Theoretical sampling was used to recruit 15 participants with non-affective psychosis  
44 from NHS services who heard daily DTVs. Data were obtained by semi-structured interviews and  
45 analysed using grounded theory.

46 **Results:** Six higher order categories for why patients listen and/or believe voices were theorised.  
47 These were: i) to understand the voices (e.g. what is their motive?); ii) to be alert to the threat (e.g.  
48 prepared for what might happen); iii) a normal instinct to rely on sensory information; iv) the  
49 voices can be of people they know; v) the DTVs use strategies (e.g. repetition) to capture attention;  
50 vi) patients feel so worn down it is hard to resist the voice experience (e.g. too mentally defeated  
51 to dismiss comments). In total, twenty-one reasons were identified, with all participants endorsing  
52 multiple reasons.

53 **Conclusions:** The study generated a wide range of reasons why patients listen to and believe  
54 DTVs. Awareness of these reasons can help clinicians understand the patient experience and also  
55 identify targets in psychological intervention.

56

57 Words (abstract) = 244 (250 max).

58 Key words = derogatory and threatening voices; attention; psychosis; voice-hearing, schizophrenia  
59 (6 max)

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61 WORD LIMIT = 4880 (5000 max).

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71 **Introduction:**

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73 *“The voices had me believing that I wouldn’t be waking up in the morning. And um they said they were going to*  
74 *skin me um, rape me, all this horrible stuff” (N13)*

75

76 Since the seminal paper by Chadwick and Birchwood (1994) over 25 years ago, a substantial  
77 literature has amassed demonstrating that how voice hearers appraise voices affects both the  
78 degree of distress and the response (Birchwood & Chadwick, 1997; Chadwick & Birchwood, 1995;  
79 Peters, Williams, Cooke, & Kuipers, 2012; Varese et al., 2016). Targeting these appraisals using  
80 cognitive-behaviour therapy leads to clinical benefits on hallucinations (Turner, Burger, Smit,  
81 Valmaggia, & van der Gaag, 2020). Building on this literature, and the development of targeted  
82 treatments for voice hearing (Birchwood et al., 2018; Birchwood et al., 2014), we aimed to improve  
83 the cognitive understanding of one particular presentation of voices that has not been  
84 systematically investigated: derogatory and threatening voices.

85

86 Around two thirds of voices are derogatory or threatening to the patient (Mccarthy-Jones et al.,  
87 2014; Nayani & David, 1996, see Table 1 for definition and examples). Voice hearers most often  
88 describe these voices as seeming very real (Mccarthy-Jones et al., 2014), believable, and difficult to  
89 ignore. It is therefore understandable that depression, anxiety and suicidal ideation are common  
90 consequences. This paper seeks to identify appraisals which result in listening to and believing  
91 derogatory and threatening voice content. A crucial first step in this process is to listen and learn  
92 from the people who have this voice experience.

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TABLE 1 ABOUT HERE

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98 **Method:**

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100 *Participants*

101 A pilot stage, early in sampling, ensured specific diversity based on the following characteristics:  
102 age, duration of hearing voices, and employment status. Inpatient or outpatient status was also a  
103 characteristic, however it proved difficult to identify inpatients who felt able to talk about their  
104 voice hearing. Subsequently, theoretical sampling was used to recruit participants who hear DTVs.

105 Interviews were analysed concurrently with recruitment such that subsequent sampling was driven  
106 by the emerging theory and testing of it. A maximum of 20 participants was sought, however  
107 theoretical saturation (Corbin & Strauss, 2015) was felt to have been reached by 15 participants  
108 and hence recruitment ceased. Theoretical saturation was defined as no new reasons for listening  
109 to or believing voices emerging from the data, and that each reason was sufficiently saturated and  
110 elaborated.

111

112

113 Participants were recruited from Oxford Health NHS Foundation Trust. Clinical teams referred  
114 patients to BS who completed a telephone screening with the referrer and the potential participant.  
115 Inclusion criteria were: daily experience (either current or past) of DTVs; experience of DTVs for  
116 at least three months; a willingness and ability to recall and discuss their experience in detail; fluent  
117 in English; age 18-65; willingness and ability to provide informed consent. Exclusion criteria were:  
118 moderate to severe learning disability; voices caused by an organic syndrome (e.g. dementia,  
119 significant head injury) and voices occurring solely within the context of substance misuse,  
120 personality disorder or a mood episode (depression or mania). See supplementary material A for  
121 further detail on methods.

122

### 123 *Procedure*

124 The study was approved by an NHS research ethics committee (ref: 18/SC/0443). An audio  
125 recorded semi-structured interview was conducted using a topic guide by BS. The interview  
126 intended to generate the participants' own detailed description of their experience rather than  
127 merely responding to closed questions. The audio recordings were transcribed verbatim by an  
128 external transcription company. For the interview process and topic guide see supplementary  
129 material B. LG (a qualitative methodologist) consulted on the protocol, topic guide, emerging  
130 categories from an early interview and the subsequent coding framework.

131

### 132 *Analysis*

133 A grounded theory methodology (Glaser & Strauss, 1967) was used since it is intended to generate  
134 a theory about a complex process about which little is already known. NVivo 12 (QSR  
135 International Pty Ltd, 2018) facilitated coding. Free coding was used with the first three transcripts  
136 in order to generate an initial coding framework. The framework focused on psychological  
137 variables (beliefs, emotion and behavioural responses) alongside other pertinent descriptions of  
138 experience derived from the data (e.g. isolation, suicidal thoughts). A research diary was completed

139 logging decisions in the theory generation, theoretical sampling and analysis. This ensured  
140 transparency in the iterative process. A second clinical psychologist who specialises in psychosis  
141 research acted as a second rater for one interview, using the framework generated by BS in order  
142 to enhance credibility of ratings. The coding framework and illustrative quotes were presented to  
143 a lived experience advisory panel (LEAP) who relabelled some of the codes and confirmed the  
144 appropriateness of the overall framework. This framework was subsequently applied to later  
145 interviews using the constant comparison method. New codes were added as they emerged, and  
146 all interviews were subsequently re-coded to enhance dependability. Finally the results were  
147 discussed with the LEAP who confirmed the overall structure of the results, and either confirmed  
148 the appropriateness of each code, or adjusted the name after discussion with BS.

149

### 150 **Results:**

151 Fifteen participants were recruited. Table 1 shows analysis of the sub-types of derogatory and  
152 threatening voice content that is listened to and believed. Table 2 provides demographic and  
153 clinical characteristics.

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TABLE 2 ABOUT HERE

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### 159 ***The impact of derogatory and threatening voices.***

160 Participants described severe anxiety (e.g. *“it’s a scary, scary, scary, scary situation, I’ve had more fear in the*  
161 *last two years [pause] than anywhere in my life”* V15), depression (e.g. *“when the torture starts [..]I will feel so*  
162 *depressed I’m just in bed”* V4) and anger (e.g. *“I haven’t had any kind of aggressive outbursts in terms of towards*  
163 *anybody else in the real world, but I’ve most definitely been aggressive towards the things in my mind.”* V1).  
164 Isolation was a prominent theme (e.g. *“it’s a pretty lonely place”* V15). Every participant described  
165 self-harm, suicidal ideation or attempts, despite not being directly asked about it (e.g. *“the only thing*  
166 *I would do or felt I was able to do when I heard voices was to hurt myself and that’s the only way I could get it to*  
167 *stop”* V10).

168

### 169 ***Reasons for listening and believing derogatory and threatening voices***

170 Six higher-order categories were derived. Within these higher order categories were 21 reasons  
171 for listening to and believing DTVs (see Table 3). Each participant endorsed between three and  
172 nine reasons.

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TABLE 3 ABOUT HERE  
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177 **1. Desire to understand the voices**

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179 **V2:** *“If it killed me it didn’t matter, I just wanted to know what was happening”.*

180

181 Participants described a range of questions (who, why, what, how and where) which served as  
182 reasons for listening to distressing content.

183

184 **1.1 Who is it? Where is it coming from?**

185 Several participants described keeping DTVs in their attention to work out who the voice was, for  
186 example *“when I’m around people that’s where I struggle with it feeling so real. I will look around, I will try and*  
187 *work out who is saying it, why they are saying it, I don’t understand, what have I done?”* (V5). For V12  
188 identifying the culprit was important to assess their ability to harm: *“Because I don’t know who they*  
189 *are, what they represent, what they could do to me”*. Identifying the location of voices served as another  
190 reason for focusing on them: *“I just don’t understand where it’s coming from. It’s frustrating”* (V15). V2  
191 explained that if he can see where the sound is coming from it is easier to ignore: *“that’s the difference*  
192 *you know if you sit here calling me a paedophile and a cunt and everything.... No, that’s not just the difference,*  
193 *the difference is that I can see you saying it”*.

194

195 **1.2 What is their motive?**

196 Many participants described wanting to identify the intention of the voice or work out why  
197 particular threats or derogatory remarks were made. For V13 this was associated with arguing with  
198 the voices *“I just don’t understand why they are doing it. I just can’t understand, some of the things they say, I*  
199 *argue with them every night.”*.

200

201 **1.3 What is happening?**

202 Several participants were trying to understand why they were experiencing DTVs and did not have  
203 an adequate explanation, for example *“...didn’t really know that much about um about hearing voices so, I*  
204 *sort of just believed it”* (V3). V6 read a psychology textbook to learn about his condition and explained  
205 *“it helped me not to believe in them so much”*. V5 described how a friend shared a rationale for the DTVs  
206 which helped her question them on a bad day: *“I reckon she was on and off the end of the phone for a good*

207 *couple of hours before I realised okay, maybe she is right, I'm really tired, I'm really low, I'm really agitated. This*  
208 *is probably because of the muck up with my meds... So, when she talked me down I started to be able to rationalise*  
209 *things". Explanations for DTVs that had been shared with participants by professionals were not*  
210 *always sufficient. V15 described: "I mean why would my brain tell me that I'm a paedophile when I'm not?",*  
211 *V3 explained that his diagnosis was helpful for questioning the DTVs, but only after some time:*  
212 *"I had been told by that psychologist that I had psychosis and even if I didn't believe her I still had that in my head*  
213 *so".*

214

## 215 **2. To be alert for the threat**

216

### 217 ***2.1 To be prepared for what the voices might do***

218 A few participants noted listening to threatening voices in order to be prepared for voices' threat,  
219 e.g. *"I've got to listen to this because I need to know what they are [...] planning to do to me so I can be prepared",*  
220 (V15). This led to precautionary strategies and escape plans, for example *"I make sure there's no*  
221 *weapons lying around that they can get at, but I certainly know where things are that I can pick up"* (V15) and  
222 *"my life was in jeopardy, so I acted on trying to find a safer place"* (V1).

223

### 224 ***2.2 To negotiate with the voices***

225 Several participants described listening in order to reason with DTVs. This was pertinent for V1  
226 who had tried persuasion *"kind of persuade them to be nicer"* and doing things to change the voices  
227 *"from [...] playing music to kind of preaching about [...] the awesomeness of existence". V5 tried using logic: "I*  
228 *would be like 'that's ridiculous that's not even logical, like I know they are not in [London]..So, how do you propose*  
229 *that you are going to do that there?"". V8 tried to please the voices "I would like bargain with them, like if I*  
230 *do it more or if I do it better will you make sure something bad doesn't happen to me?"* but did not negotiate  
231 with the most threatening voice *"the main [voice] I don't think I ever bargained, I think I was so scared that*  
232 *I would just sit and, I don't think there was any point in bargaining". Several participants noted reasons for*  
233 *not attempting to negotiate with DTVs (see supplementary material C).*

234

### 235 ***2.3 Because I'm fighting them***

236 The majority of participants described confronting the DTVs. They did not explicitly state that  
237 they listened in order to engage in a fight, but this is implied in the descriptions, for example: *"I*  
238 *was just taking them on, I was like I'm not having this anymore...you are not going to rule over me all the time"*  
239 (V7). For some, a physical confrontation *"okay, let's go outside"* (V15), a mental argument *"I've*  
240 *definitely been aggressive to the things in my mind"* (V1) or more passive strategies *"I don't need to fight*

241 *back... I can just annoy them with cigarettes and alcohol*" (V12) were described. Reasons for fighting with  
242 voices are outlined in supplementary material C.

243

#### 244 **2.4 Because it's my responsibility to stop them harming others**

245 A few participants described feeling responsible for stopping DTVs harming others and this  
246 provided a rationale for engaging with them, for example *"it's almost like they warned me, and I have*  
247 *gone yeah, whatever, that's not going to happen. If it did happen how would I cope with that? ... you are never*  
248 *going to forgive yourself"* (V5).

249

#### 250 **2.5 Because I'm scared about the consequences**

251 Several participants noted being scared of the consequences of not listening to the voices, or doing  
252 what they say *"Oh, they will screw me more."* (V4). For some there was a fear of voices getting worse:  
253 *"I found it difficult because you would be [...]scared of the reaction or scared of what else might be said."* (V9), or  
254 there being negative consequences after death (see Table 3, V12). One participant who did not  
255 listen or believe his voices noted *"[If] I dismiss something negative I'm not concerned that something negative*  
256 *will come out."* (V11) and two participants noted learning over time how to manage this fear: *"if I*  
257 *tolerate it and try and keep going there's less kind of retaliation from the noise and from the voices there."* (V9).

258

### 259 **3. Because my instinct is to rely on my senses**

260

#### 261 **3.1 Because they sound so real, why would you question it?**

262 Several participants described initially accepting that the voices were real: *"I didn't realise it wasn't*  
263 *real and that... it was my illness, I didn't know I was ill, I thought that was the way it was"* (V7). V3 explained  
264 away why others were not hearing what he heard: *"I thought that I had like superior hearing to other*  
265 *people [...] because I was hearing these things that other people weren't"*.

266

#### 267 **3.2 Other anomalous experiences support the voice**

268 A few participants reported tactile hallucinations linked to their voice hearing. V4 described this  
269 as *"torture"* explaining: *"they have this electronic weapon that can be used on me, my head... it's indescribable*  
270 *but it's horrible"*. This directly linked to her listening to the DTVs *"you try to ignore him and that, that's*  
271 *not acceptable to him. And he beats you up to force you to hear"*. Some participants described visual  
272 hallucinations at the time of hearing voices: V5: *"they were telling me that like a woman was coming with*  
273 *a gun, [...] she would find a way to shoot me... I laid on my bed like battling about it and then I looked up and*  
274 *like in the doorway...she was just stood there"*. A few participants described olfactory hallucinations



275 which kept the DTVs in attentional focus. V5 described this as an early indicator of relapse: *“I*  
276 *know I’m getting ill because one of the first things is everything starts smelling chemical...like as I’m smelling things*  
277 *they will be telling me that people are going to poison me.”*

278

279 V8 experienced nightmares depicting the threats made by her DTV. Dreaming about being  
280 captured by the DTV made the voice’s threats more compelling: *“Like, the dreams felt very real”*.

281 Several participants noted that acute fear from nightmares exacerbated voices. For V1 it triggered

282 an acute episode of DTVs: *“...the second time it was basically coming from the back of a very nasty experience*  
283 *in a dream”*. V14 explained that he is less active the day after experiencing nightmares which means

284 there are fewer distractions from the DTVs (reason 6.4): *“it’s like you have been through a few rounds*  
285 *with a boxer and you are like recovering and you are in recovery mode almost”*.

286

### 287 ***3.3 Because I don’t have enough evidence to dispute the voices***

288 Several participants who had experienced DTVs for several years noted initially believing them:

289 *“Well, it’s been so long and the thing that I’ve been thinking you know ...none of the things that I was thinking*  
290 *about have actually occurred...”* (V1). For V6 both habituation, *“I got used to it”*, and evidence gathering,

291 *“nothing has happened”* enabled him to believe them less. Evidence was helpful for resisting  
292 demands: *“since I was what 13, 14 so sort of 20 years, they have told me things are going to happen and they*

293 *never have... Whether I’ve done it or not the things have never happened.”* (V5) and improving mood: *“it’s*

294 *been a couple of years now...nothing particularly bad has happened and I can [pause] find a lot more peace... So,*

295 *I’m quite, happier really, but they are still there”* (V12). Not all participants however noted a change over

296 time: *“I don’t think it has, just the same”* (V11).

297

### 298 ***3.4 Because other evidence supports that the voice and/or what it’s saying is real***

299 Many participants described evidence which supported the veracity of what the DTVs said, or

300 that they are real entities. V1 found the voice content difficult to comprehend but considered

301 *“the second world war. And you think well, those people were totally evil, they would be thinking the same kind of*  
302 *things in terms of murdering anything they didn’t like”*. He also felt victimised whilst playing a computer

303 game and thought *“Maybe you are a victim in some kind of way...so that was kind of reinforcing the kind of*

304 *thinking that it’s all a reality in terms of having real people in my mind”*. V5 described concrete evidence

305 that people she knew were DTVs: *“if you were to say something at the same time and I saw your mouth*

306 *moving as they said it I might think it was you. And it’s happened, like with my mum it happens quite a lot”*.

307 Some participants described a confirmatory bias: *“Almost all the things I would see would have some*

308 *significance and relate back to the [DTV]”* (V8).

309

310 **4. Because I hear the voice of someone I know**

311

312 A number of participants described hearing the voice of family members, friends, ex-friends,  
313 famous people and other people they had met momentarily which made DTVs more difficult to  
314 question or ignore. For some, the voice content was congruent with what was known about the  
315 person *“they are doing exactly what they did when I fell out with them”* (V13) and for others it was  
316 incongruent *“technically you would think I should go ‘well, I know them, they wouldn’t say that’”* (V5). Four  
317 participants commented that hearing a voice of someone familiar was more difficult: *when it’s family*  
318 *there’s um probably about 100% um there’s 100% on top”* (V14).

319

320 There were a range of reasons why these were more difficult to ignore, including: *“it’s one of the*  
321 *voices that you trust more than anything”* (V14), because the voice content could reflect an already  
322 difficult relationship *“with in laws... you don’t know what they think about you”* (V2), because of prior  
323 experience of the person’s intentions *“I think they are just trying to finish the job”* (V13), because the  
324 person is used to listening to that voice *“I hear them in the voice that I’m used to them using”* (V5), because  
325 hearing a famous person can lead you to *“get immersed in it like you are almost famous”* (V14), and  
326 simply because they exist *“this guy must be real, it must be the guy that I saw two months ago... because it’s*  
327 *his voice I’ve been hearing”* (V3). One participant conversely found that if he heard voices of people  
328 he recognised they were easier to dismiss than other voices *“the ones that are people I know they are the*  
329 *ones I can, I can sort of rationalise if you like: ‘well this is ridiculous...there’s no way I can hear your thoughts’.”*  
330 (V7).

331

332 **5. Because the DTVs use communication strategies that capture attention**

333

334 ***5.1 Because the voices use calm, clever or calculated tactics***

335 Participants described a range of ways that the DTVs are *“calm and calculated in what they say”* (V10)  
336 and that this captured attention. This was central for V10 who described that DTVs were  
337 captivating because: 1) they were quieter and easier to listen to than angry ones because *“it’s not as*  
338 *scary I suppose”* and 2) they intentionally say things to provoke intrigue *“because sometimes I don’t*  
339 *understand it like and it makes me think about what they are saying...maybe that’s why they are doing it”*. Four  
340 other participants described finding that when voices are quiet or whisper, this encourages  
341 listening, for example: *“the quieter they get the more...I find myself trying to really listen to it”* (V5). But  
342 V5’s reason for listening was different to V10’s: *“I guess the louder they are the more clearly, I know what’s*

343 *being said...and can rationalise what's being said*". For V13 this whispering was an intentional tactic:  
344 *"because the sound, it makes you want to listen, the voices, the voices do it as well and it just makes you want to*  
345 *listen to them"*. DTVs provoking intrigue was also described by others. They triggered forgotten  
346 memories *"the memories like, when they say things from the past and that, things you had forgotten like and you*  
347 *remember it. Sort of grabs your attention"* (V13), had unexpected knowledge *"it's things... you just think*  
348 *people shouldn't know about you"* (V3), and asked questions *"they're going 'oh, hasn't he worked it out yet?'...*   
349 *so I'm thinking, what haven't I worked out?"* (V15). For one person it was the intelligence of the DTV:  
350 *"you hear something intelligent back you tend to be more alert, your ears prick up a bit"* (V14).

351

### 352 **5.2 Because the voices shout, scream, or make sinister noises**

353 Several participants noted *"their voices got louder, it wasn't that easy to ignore them."* (V4). For others it  
354 was their manner as well as volume: *"a real sick, sick kind of manner"* (V1). For V9 a noise served  
355 as a means of the DTV capturing attention: *"when the voices have got your attention that's when the*  
356 *conversation can kind of start... like the derogatory and the violent comments"*. She noted that some noises  
357 she has habituated to over time *"it's not as effective as it used to be, it's been going on for so long"*, but this  
358 hasn't happened with other noises *"I get like a sinister laugh which I still get like even to this day. That's*  
359 *probably the only thing now that would get my attention more because it's quite unnerving."* and because this  
360 noise is uncomfortable *"I'm almost listening for it"*.

361

### 362 **5.3 Because they are constant or repetitive**

363 Several participants noted listening to or believing voices because they are constant, or repeat what  
364 they say (e.g. *"And I think to myself why are you listening, it's not worth listening to. But obviously that's easier*  
365 *said than done if you[..]had constant noise and voices for like two, three, four, five days"* (V9).

366

## 367 **6. Because I'm worn down**

368

### 369 **6.1 Because I'm tired and don't have the energy to ignore them**

370 All participants reported disturbed sleep or energy levels. Many participants reported sleep  
371 disruption leading to voices being more difficult to ignore. One participant explained *"Yeah, it's*  
372 *not so much the voices are any different to any other day it's my ability to rationalise them."* (V5) whereas another  
373 said that they have less control *"when I haven't slept that's, that's when I struggle to, to even like er, I struggle*  
374 *to like even make them stop."* (V10) and V13 described that sleep disruption led to the DTVs becoming  
375 louder (see reason 5.1): *"They would be a lot louder and I would hear them more."*

376

377 **6.2 Because I'm lacking self confidence**

378 Almost all participants described difficulties with self-confidence. A few noted that their own lack  
379 of physical strength meant that an attack from the voices would be more likely to succeed: “*I don't*  
380 *have the strength or physical ability to defend myself. [...] and it is kind of compounded the fear factor*” (V1).  
381 Others noted that voices intentionally targeted them when they were vulnerable (V7, Table 3) and  
382 the content embellishes pre-existing concerns (reason 6.3) “*I'm feeling stupid or I'm feeling overweight or*  
383 *whatever and [...] that's what I will hear*” (V7). For others, confidence was required in order to test  
384 whether the DTVs were real, for example V6 was asked what prompted him to ask friends “*did*  
385 *you just say that?*” and explained “*Maybe I sort of got a bit more self-confident.*”. He also noted that this  
386 questioning relies on the “*confidence...to believe in um my mind a little bit maybe rather than the voices*”. For  
387 V14, a low opinion of his intelligence impacted on his perception that he could rationalise the  
388 voices “*not intelligent enough to*” and his desire to seek psychological therapy “*if I ever started talking it*  
389 *wouldn't be anything constructive, or anything good, or anything valuable coming out of my mouth*”.

390

391 **6.3 Because the voices are confirming or embellishing pre-existing concerns**

392 Several participants described DTVs confirming, exaggerating or embellishing pre-existing  
393 concerns. V9 explained “*I would panic people would get in the house. And then obviously the voices would*  
394 *kick in and say someone is going to be in the house, someone is going to take this, people are going to do this...*”.  
395 For some participants their primary problem appeared to be paranoia (V8: “*if the belief was less then*  
396 *[..], I wouldn't give the voices so much time*”). For others their low mood and associated negative  
397 thoughts made them more inclined to believe derogatory remarks: “*I mean I suffer from depression...*  
398 *you have always got that thing in the back of your mind that you are [...]no good, a no-good character*” (V14).

399

400 **6.4 Because of isolation and lack of mental stimulation**

401 Inactivity and lack of stimulation was common, e.g. “*not going outside at all for a month*” (V3) and  
402 provided time to listen to the voices: “*If I'm busy I haven't got time to think about it, I don't have time to*  
403 *listen*” (V9). Night time was problematic because of the quiet and lack of distraction: “*it's so quiet*  
404 *and everything is still and you listen because you hear more. And it's almost like sometimes you lay there waiting*  
405 *to hear it*” (V9). For some participants, being busy was also an opportunity to gain new information:  
406 “*it gives you another out, another perspective on a day rather than spending it cooped up in your flat thinking*”  
407 (V14).

408

409 **6.5 Because I give up, I'm defeated by them**

410 Participants frequently described managing the voices as an ongoing battle (“*every day I was trying to*  
411 *battle the thing I couldn’t win*”, V8). Given the persistent nature of the voices however, nine  
412 participants described listening because they felt defeated by them. For some, this directly led to  
413 times of vulnerability for attacks from the voices: “*it’s like Guerrilla warfare where [...], they are waiting*  
414 *until I’m down and out and vulnerable, weak, and then they will attack*” (V7) and feelings of suicidal ideation  
415 “*the worst thing is to feel that self-destructive sort of ‘oh, I’ve got a solution for all this, I will just end it’*” (V7).  
416 Conversely however, one participant described his ability to not listen to the voices as resulting  
417 from mental strength. When asked how he could ignore the voices, he explained: “*it’s just from*  
418 *mental strength... having a strong mind, being sure of yourself*” (V11).

419

## 420 **Discussion**

421 This study identified twenty-one reasons for listening to and believing derogatory and threatening  
422 voices from patient interviews. Reasons were diverse and included aspects related to the self (e.g.  
423 emotional state, self-confidence), to the voice itself (e.g. its identity and the acoustic experience)  
424 as well as an overall drive to understand the experience. Whilst some reasons have been previously  
425 identified as important aspects of the voice hearing experience, for example voice identity  
426 (Chadwick & Birchwood, 1994), acoustic properties (Mccarthy-Jones et al., 2014; Moritz & Larøi,  
427 2008; Nayani & David, 1996) and aspects of the self (Thomas *et al*, 2015), other factors, for  
428 example, a drive to understand the voice, and the specific threat appraisals were novel.

429

430 Patients described that listening to derogatory and threatening voice content led to them feeling  
431 depressed and anxious. In addition all participants discussed self-harm or suicidal ideation despite  
432 not being asked directly about this. Clinical interventions that enable the patient to distance their  
433 attention from and challenge such detrimental voice content should be of benefit. However to  
434 shift attention away from the content, our view is that clinicians will need to consider the sorts of  
435 reasons for listening to DTVs identified in this study. The range of reasons includes modifiable  
436 cognitions that can be addressed through CBT interventions. For example, the appraisal “I listen  
437 to stop the voices harming other people” can readily be addressed via behavioural experiments  
438 which test the impact of listening versus distancing responses on the feared outcome. However  
439 other themes (e.g., to understand the voice) may require alternative approaches or further  
440 treatment development work. Irrespective, the therapist sharing a list of reasons why these voices  
441 can be so believable and difficult to ignore can guide a therapist in working with the patient to  
442 build up a more thorough, detailed and efficient formulation of the problem of listening and  
443 believing malevolent voices.

444

445 There are limitations to the current study. The most severe DTV presentations are not represented  
446 because several acutely unwell patients approached in this study said they were unable to talk about  
447 their experiences. In addition, people not in touch with clinical services and those experiencing  
448 DTVs in diagnoses other than non-affective psychoses may offer alternative perspectives.

449

450 The problem of being consumed by believable DTVs resonated with patients and reasons were  
451 readily identified in interviews. The study is a first step in developing a theory about reasons for  
452 listening to and believing DTVs. The clear next step is to develop assessment measures to assess  
453 key concepts in this approach. This will allow the emerging theory to be refined and tested using  
454 quantitative methods.

455

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#### 460 **Ethical statement**

461 All authors have abided by the ethical principles of psychologists and code of conduct set out by  
462 the APA.

463

#### 464 **Conflict of interest**

465 All authors report no conflict of interest.

466

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473

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## Tables &amp; Figures

Table 1. Definitions of derogatory and threatening voices (DTVs) with illustrative examples.

Term	Sub-type	Definition	Examples
Derogatory voices	Critical content	Voice(s) that make direct criticisms of the individual's self-concept.	<i>"telling me things like I'm worthless and you know, you don't deserve to be here"</i> (V10)  <i>"you are evil [...] you are possessed, all sorts of things"</i> (V5)
	Negative perceptions from other people	Voice(s) which tell the person that they are viewed negatively by other people.	<i>"everybody else hates you and they don't need you and they think the worst of you. And um, just that you are you know just a complete disappointment"</i> (V9)  <i>"I am this bitch and I am this ridiculous witch"</i> (V4)
Threatening voices	Voice is the perpetrator	Threats made by the voice(s) that they intend harm to the person, or those around them.	<i>"they have started swearing at me um, threatening to cut my hands off, threatening to er take me away and bury me in a field"</i> (V15)  <i>"they were on about my neighbour that lives upstairs and [cough]. And they said they were going to hurt the kids and so, I ran up the stairs"</i> (V13)
	Family, friends or other specific perpetrator	Voice(s) telling the person that they will be harmed by people already known to them. This may also include harm to people around them.	<i>"they encouraged me to think that my mother and her husband and some of my friends were all, all kind of serial killers"</i> (V1)  <i>"I am coming to get you' is the was main thing that they said"</i> (V8, who heard the voice of a family friend)
	Unknown or no specific perpetrator	Voice(s) telling the person that they will be harmed, but no particular individual is identified, or the perpetrator is not	<i>"people are going to get me when I least expect it"</i> (V6)  <i>"I was hearing everywhere I went people saying oh... um they are going to cut out his right eye and show it to his left eye, things like really brutal things"</i> (V3).

Derogatory and threatening voices (DTVs)

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someone known to them. This may also include harm to people around them.

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N.B: Participants may endorse more than one sub-type of DTV

**Table 2. Demographics and clinical characteristics (N=15)**

<b>Demographic or clinical characteristic</b>	<b>Frequency</b>
<b>Age</b>	
≤20	1
21-30	3
31-40	5
41-50	5
51-60	1
<b>Ethnicity</b>	
White British	13
Chinese	1
Black British	1
<b>Gender</b>	
Male	11
Female	4
<b>Marital status</b>	
Single	11
Married / civil partnership	3
Divorced	1
<b>Employment status</b>	
Unemployed	10
Employed (part time)	2
Other	3
<b>Accommodation status</b>	
Lives alone	6
Lives with parents	6

Derogatory and threatening voices (DTVs)

Lives with partner / spouse	2
Supported accommodation	1
<b>Diagnosis</b>	
Schizophrenia	10
Schizoaffective disorder	1
Psychosis NOS	4
<b>Current voice hearing status</b>	
Current difficulty dismissing or ignoring DTVs	7
Can dismiss or ignore DTVs at least some of the time	4
Can dismiss or ignore majority of DTVs	2
Can dismiss or ignore all DTVs	1
Currently does not hear DTVs	1
<b>Age of onset of voice hearing</b>	
≤15	4
16-25	7
26-35	2
36-45	1
46-55	1
<b>Duration of voice hearing (years)</b>	
1-5 years	5
6-10 years	0
11-15 years	3
16-20 years	4
21-25 years	2
26-30 years	1

**Table 3. Category structure of reasons for listening and believing DTVs**

Core category	Higher order category	Reason for listening and believing DTVs	Illustrative quotes
Reasons for listening and believing DTVs	<b>To understand the voices</b>	Who is it? Where is it coming from?	<i>“I think for me because I was always trying to work out who it was, so any trait in the voice or any, any slip up they made or anything like that I would be trying to figure it out.”</i> (V2). <i>“When I am in situations when I’m around people that’s where I struggle with it feeling so real. I will look around, I will try and work out who is saying it, why they are saying it, I don’t understand, what have I done?”</i> (V5).
		What is their motive?	<i>“I became just really um transfixed with all these different voices like talking about me and I couldn’t really understand why they were talking about me.”</i> (V3).
		What is happening?	<i>“There’s only so much you can really um, I don’t know there’s only so much you can question, so much you can question it. Because at that point I had never used antipsychotic medication, didn’t really know that much about um about hearing voices so, I sort of just believed it”</i> (V3). <i>“Um, and yeah you sort of, you do question it and think well, why would that happen to me of all people?”</i> (V9).
	<b>To be alert for the threat</b>	To be prepared for what the voices might do.	<i>“I didn’t want to hear the voices [but] I did at the same time because I thought I could get something out of it about where he was going to be and I could not be there”</i> (V8). <i>“I have to listen to this because I need to know what they are going to, planning to do to me so I can be prepared”</i>
		I listen to negotiate with the voices.	<i>“I thought that they were similar to me and they were just like human beings that could kind of be persuaded round to a more pleasant way of being”</i> (V1). <i>“I would like bargain with them, like if I do it more or if I do it better will you make sure something bad doesn’t happen to me?”</i> (V8).
		And I listen so I can fight the voices.	<i>“I just thought like fight or flight I just thought I am going to fight these voices, I am not going to allow them to win”</i> (V7).  V10: <i>“Telling them to fuck off”</i> Interviewer: <i>“what happened to the voices when you tried to say that?”</i> V10: <i>“Getting worse, they were arguing with me.”</i>

	<p>I listen to stop the voices harming other people.</p>	<p><i>"it's almost like they warned me, and I have gone yeah, whatever, that's not going to happen. If it did happen how would I cope with that? ... you are never going to forgive yourself"</i> (V5).  <i>"And they said they were going to hurt the kids and so, I ran up the stairs about five times, knocked on her door to make sure she was alright."</i> (V13).</p>
	<p>I listen because I'm scared about the consequences.</p>	<p><i>"I especially worry about the supernatural. You do listen because you never know quite what they could do."</i> (V12).  <i>"I found it difficult because you would be kind of scared of the reaction or scared of what else might be said or what else you might be told to do um."</i> (V9).</p>
<p><b>Because my instinct is to rely on my senses</b></p>	<p>Because they sound so real, why would you question it?</p>	<p><i>"They were convincing because they were as audible as you are now and that's all you need"</i> (V2).  <i>"I didn't realise that it wasn't, I didn't realise it wasn't real and that it didn't, you know it was my illness, I didn't know I was ill, I thought that was the way it was"</i> (V7).</p>
	<p>And other anomalous experiences support the voice.</p>	<p><i>"Just because I feel they, I feel just pain in my, in my stomach area. With, so like what they are saying registers whether I like it or not."</i> (V12).  <i>"it's like they have this electronic weapon that can be used on me, my head, it goes it's indescribable but it's horrible. Sometimes I just feel like my head was, it can be so bad that it hurts so much".</i> (V4).</p>
	<p>And I don't have enough evidence to dispute the voices yet.</p>	<p>Interviewer: <i>"do you have any sense of... why it is that they seemed more believable before?"</i> V6: <i>"just time again I think...Sort of got used to it, nothing has happened"</i>.  <i>"I just thought I, I didn't know, I accepted that they are real things and they exist in another plain,</i> (V12).</p>
	<p>And other evidence supports that the voice or what it's saying is real.</p>	<p><i>"And so the fact that kind of the things I would hear like would match up to something I would see which would then match up to like my belief... when you are trying to make sense of something you see these little connections everywhere"</i> (V8).  <i>"Almost all the things I would see would have some significance and relate back to the [the persecutory voice]".</i> (V2).</p>
<p><b>Because I hear the voice of people I know</b></p>		<p><i>I almost hear it in the voice that I'm used to them using, I think, I think I find it harder to rationalise than say if it was a stranger in a cafe because I don't know their voice from Adam"</i> (V5).  <i>"when it's family there's um probably about 100% um there's 100% on top".</i> (V14).</p>

Derogatory and threatening voices (DTV's)

<b>Because DTVs strategies capture attention</b>	<b>the use to my</b>	They use calm, clever or calculated tactics to get my attention.	<p><i>"It draws you in, it draws you in, they say things that make you want to listen... you don't want to listen to them, but you don't feel like you have a choice"</i> (V13).</p> <p><i>"they try and be a bit sly and clever about it and it completely, it completely like doesn't upset me but it's like I have to think about it. Like, sometimes they disappear and I'm still, still thinking about it if that makes sense."</i> (V10).</p>
		They shout, scream, or make sinister noises to get my attention.	<p><i>"the real shrill screaming, because obviously that's going to get anyone's attention, a real shrill scream that sounds like someone is stood right in in your face"</i> (V9).</p> <p><i>"their voices got louder, it wasn't that easy to ignore them."</i> (V4).</p>
		Because they are constant or repetitive so I have to listen.	<p><i>"And I think to myself why are you listening, it's not worth listening to. But obviously that's easier said than done if you...had constant noise and voices for like two, three, four, five days"</i> (V9).</p> <p><i>"When something is...shoved down your throat all the time it's just...I'm pretty sure...you could beat any of the strongest people down by you know making them solitary and then keep telling them something until they believed it."</i> (V2).</p>
<b>Because worn down</b>	<b>I'm</b>	Because I'm tired and don't have the energy to ignore them.	<p><i>"when I am tired...I can't use the normal part of my brain [laughing] to go is this the illness or is this real?"</i> (V5)</p> <p><i>"it's like you have been through a few rounds with a boxer [after a nightmare] and you are like recovering and you are in recovery mode almost"</i> (V14).</p>
		Because I'm lacking the confidence to dismiss them.	<p><i>"I don't know sometimes if I am in a strong place and I, they don't affect me as badly as other times. But then if I'm down and out and I am feeling particularly weak and vulnerable it's like that's when they will attack."</i> (V7).</p> <p><i>"confidence to um, to believe in um my mind a little bit maybe rather than the voices"</i> (V6).</p>
		Because they are confirming or embellishing my pre-existing concerns	<p><i>"the worries ... are fuel for the voices to then add in. And like chip in their part to kind of make it worse or um turn it into something even more ridiculous"</i> (V9).</p> <p><i>if the belief was less then I would, I wouldn't give the voices so much time or anything"</i> (V8).</p>
		Because I'm isolated and lack other distractors.	<p><i>"If I am busy I haven't got time to think about it, I don't have time to listen".</i> (V9).</p> <p><i>"it becomes monotonous. Your brain is going to look for something of interest at some point, it's going to start inventing things because you get up, you watch TV, you go to the toilet, you watch TV, you go to bed you don't do anything. Do that for five years you will lose your mind"</i> (V15).</p>

Derogatory and threatening voices (DTV's)

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I listen because I feel defeated by them. *“every day I was trying to battle the thing I couldn't win” (V8).*  
*“it's like Guerrilla warfare where they are like you know, they are waiting until I am down and out and vulnerable, weak, and then they will attack and then go again” (V7).*

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DTV's = derogatory and threatening voices