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par

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**HÉSITATION VACCINALE ANTIGRIPPALE : UNE ÉTUDE QUALITATIVE
DES RÉTICENCES À LA VACCINATION ANTIGRIPPALE DANS LA
POPULATION GÉRIATRIQUE EN INDRE ET LOIRE**

Hesitancy about Influenza vaccination: a qualitative study of attitudes and perceptions
among older populations in Indre-et-Loire, France

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SERMENT D'HIPPOCRATE

En présence des enseignants et enseignantes
de cette Faculté,
de mes chers condisciples
et selon la tradition d'Hippocrate,
je promets et je jure d'être fidèle aux lois de l'honneur
et de la probité dans l'exercice de la Médecine.

Je donnerai mes soins gratuits aux indigents,
et n'exigerai jamais un salaire au-dessus de mon travail.

Admis(e) dans l'intérieur des maisons, mes yeux
ne verront pas ce qui s'y passe, ma langue taira
les secrets qui me seront confiés et mon état ne servira pas
à corrompre les mœurs ni à favoriser le crime.

Respectueux(euse) et reconnaissant(e) envers mes Maîtres,
je rendrai à leurs enfants
l'instruction que j'ai reçue de leurs parents.

Que les hommes et les femmes m'accordent leur estime
si je suis fidèle à mes promesses.

Que je sois couvert(e) d'opprobre
et méprisé(e) de mes confrères et consœurs
si j'y manque.

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HÉSITATION VACCINALE ANTIGRIPPALE :

UNE ETUDE QUALITATIVE DES RÉTICENCES À LA VACCINATION ANTIGRIPPALE DANS LA POPULATION GÉRIATRIQUE EN INDRE-ET-LOIRE

Résumé :

Introduction : Malgré leur vulnérabilité accrue à la grippe, les personnes âgées ne sont pas suffisamment vaccinées contre cette maladie. Cette étude vise à approfondir notre compréhension des perceptions des personnes âgées qui sont réticentes à la vaccination antigrippale, afin d'explorer les facteurs qui influencent leur refus de se faire vacciner.

Méthode : Des entretiens individuels semi-dirigés ont été réalisés avec des participants âgés de 75 ans et plus, qui avaient exprimé leur refus de se faire vacciner contre la grippe. Ces participants ont été recrutés au sein du Centre Hospitalier Régional Universitaire (CHRU) de Tours. L'analyse des données a été effectuée en suivant la méthodologie de la théorie ancrée.

Résultats : Nous avons mené douze entretiens avec des personnes âgées de 76 à 99 ans. Les raisons les plus fréquemment évoquées pour justifier leur refus de se faire vacciner étaient le sentiment d'invulnérabilité face à la maladie, la crainte des effets indésirables et la perception banalisée de la grippe, entre autres. L'hésitation à se faire vacciner était également influencée par l'entourage, en particulier la famille, à travers leurs expériences négatives de la vaccination. Les décisions prises étaient également renforcées par l'opinion des professionnels de santé, soit par leur manque d'implication, soit par leurs recommandations directes. Le concept de la vaccination semblait confus pour plusieurs participants, avec des distorsions du raisonnement émotionnel (croyance en un bon état de santé malgré une fragilité) ou une perception de la vaccination comme une stratégie curative plutôt que préventive. Enfin, de nombreux participants déclaraient néanmoins mettre en œuvre des stratégies préventives telles que l'homéopathie ou le respect des mesures barrières. L'élément le plus fréquemment mentionné comme étant susceptible de favoriser un changement d'attitude et une adhésion à la vaccination était l'incitation de la part du médecin traitant.

Discussion : Les personnes âgées qui manifestent une réticence à se faire vacciner contre la grippe ont principalement remis en question la balance bénéfice/risque associée au vaccin. Les influences de l'entourage et des professionnels de santé ont été identifiées comme des facteurs significatifs dans leur décision. Dans le but de promouvoir une meilleure adhésion à la vaccination, il est essentiel de cibler en priorité l'incitation de la part des médecins traitants, ce qui devrait être pris en compte dans les futures campagnes vaccinales.

Mots clés : Vaccination antigrippale, Personnes âgées, Hésitation vaccinale, Vieillesse sain/vieillesse, Barrières, Motivations, France

HESITANCY ABOUT INFLUENZA VACCINATION:
A QUALITATIVE STUDY OF ATTITUDES AND PERCEPTIONS
AMONG OLDER POPULATIONS IN INDRE-ET-LOIRE, FRANCE

Summary:

Background: Influenza disproportionately affects older adults, yet the uptake of influenza vaccines among this population remains low. This study aims to explore the barriers that influence older adults' decision-making regarding influenza vaccination.

Methods: Face-to-face interviews were conducted, and audio recorded with participants aged 75 and above who had expressed their refusal to be vaccinated in France. Grounded theory method was employed to analyze the data.

Results: We conducted twelve interviews with individuals aged 76 to 99 years. The most frequently cited reasons for refusing influenza vaccination were a sense of invulnerability to the disease, fear of adverse effects, and trivialization of influenza, among others. Vaccine hesitancy was also influenced by the social environment, particularly family members, through their negative vaccination experiences. Decisions were also reinforced by the opinions of healthcare professionals, either through their lack of involvement or through direct recommendations. The concept of vaccination appeared to be confusing for several participants, with distortions in emotional reasoning (belief in good health despite frailty) or a perception of vaccination as a curative rather than preventive strategy. However, many participants reported implementing preventive strategies such as homeopathy or adhering to barrier measures. The most frequently mentioned factor that could promote attitude change and vaccination adherence was incitation from the attending physician.

Discussion: Our findings provide public health practitioners with an insight into the complexity of vaccine perceptions among one of the most vulnerable populations. Through this study, we hope that healthcare professionals will gain a better understanding of the concerns older adults have regarding influenza vaccination and, in turn, refine their personal communication with this population to encourage vaccination.

Keywords: Influenza vaccines, Elderly, Older adults, Vaccine hesitancy, Healthy ageing/aging, Barriers, Motivators, Misconceptions, France

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1 Full Title: Hesitancy about influenza vaccination: a qualitative study of attitudes and
2 perceptions among older populations in Indre-et-Loire, France

3
4

5 Short Title: Hesitancy about influenza vaccination among older adults: a qualitative study

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7

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41 **Abstract**

42

43 Background: Influenza disproportionately affects older adults, yet the uptake of influenza
44 vaccines among this population remains low. This study aims to explore the barriers that
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69

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72 Barriers, Motivators, Misconceptions, France

73

74

75 **Introduction:**

76

77 Influenza infection triggers widespread annual epidemics infecting a significant proportion of
78 the population and causing considerable morbidity and mortality. Each year, the influenza
79 epidemic in France results in a substantial number of deaths and hospitalizations (1). In the
80 2018-2019 season, the epidemic led to 10,723 hospitalizations and 8,117 deaths in France (2).
81 These statistics align with previous years, underscoring the significance of the influenza virus
82 (1).

83 In the geriatric population, this virus presents a unique challenge as influenza infection has a
84 disproportionate impact in older adults (3). In France, during the 2018/2019 season, 84% of
85 influenza-related deaths occurred among individuals over 75 years old (2). These findings align
86 with global data, as the estimated mortality rate due to influenza increases with age and shown
87 to be four times higher in individuals aged 75 and above compared to those aged 65 to 74
88 (ranging from 51.3 to 99.4 per 100,000 versus 13.3 to 27.8 per 100,000, respectively) (4).
89 Beyond mortality, influenza morbidity poses a significant burden on older adults. Influenza
90 infection leads to a loss of autonomy, particularly among individuals aged 65 and above, with
91 a decline in functional capacity exceeding 18% as reported by a Canadian study (5). Among
92 75-year-olds, frailty increases exponentially (6) and is associated with poorer recovery from
93 influenza infection (7). Influenza infection has been observed to exacerbate the frailty levels in
94 individuals who are already considered frail. (7).

95 Influenza vaccination coverage has decline in recent years among the French population,
96 including individuals aged 65 and above (8). For example, during the 2019-2020 season,
97 vaccination coverage in the Centre Val de Loire region was 50.5%, and 54.4% among
98 individuals aged 65 and over (9). Although coverage improved in 2020-2021, reaching 65.2%
99 of people over 65 in Indre et Loire, it has since declined, estimated at 56.2% for individuals
100 aged 65 and above in France during the 2022-2023 season(9,10). However, the World Health
101 Organization (WHO) set a target of 75% influenza vaccination coverage for the populations
102 concerned in order to maximize the individual and collective benefits of influenza vaccination
103 and reduce the impact of influenza on public health (1).

104 Although flu vaccination has been offered free of charge to the older population aged over 65
105 in France since 2000, vaccination rates remain below target. In light of this situation, a national
106 program was implemented in 2012 with the aim of enhancing vaccination policies and
107 addressing vaccine hesitancy (11). To achieve this objective, it is crucial to effectively identify
108 the factors underlying this reluctance towards vaccination. The obstacles to vaccination have

109 been extensively examined in numerous studies, with a particular focus on parents of young
110 children (12,13). However, there is a paucity of research investigating the barriers specifically
111 related to influenza vaccination among the geriatric population in contrast to the number of
112 studies on healthcare professionals (14). It is crucial to gain a more comprehensive
113 understanding of influenza vaccine perceptions to enhance healthcare responses and reduce the
114 disease burden in this high-risk group.

115 Given the pressing need for higher vaccine acceptance among older adults, it is imperative to
116 gain a deeper understanding of their perspectives on influenza vaccination. This knowledge will
117 greatly contribute to improving healthcare responses and reducing the burden of the disease in
118 this vulnerable population. Through a qualitative approach, this study aims to identify and
119 address any misconceptions or hesitations that older adults aged 75 and above in the Indre et
120 Loire region may have towards influenza vaccination. The prevalence of vaccine hesitancy,
121 particularly in France, is noteworthy, with an estimated vaccine-related insecurity rate of 41%
122 in 2016 (15). Therefore, uncovering the reasons behind this reluctance is crucial to develop
123 appropriate strategies for future local vaccination campaigns.

124

125 **Methods:**

126 Study setting and design:

127 To comprehensively explore the hesitations, knowledge, and perceptions of the older
128 population towards influenza disease and vaccination, a qualitative study was conducted using
129 semi-structured individual interviews. These interviews provided valuable insights into the
130 perspectives of older individuals regarding influenza and its vaccination. The study was led by
131 a geriatric's resident and a hospital geriatrician. It employed an inductive approach based on
132 grounded theory and involved conducting semi-directed individual interviews with patients
133 aged 75 years and older, conducted by the intern researcher.

134

135 Participants:

136 We employed a theoretical purposive sampling model to select participants for our study,
137 targeting patients aged 75 years and older in Indre et Loire who could express their reasons for
138 refusing Influenza vaccination coherently. Using a list of patients admitted to the Acute
139 Geriatric Medicine or Geriatric Rehabilitation Care departments at the University Hospital of
140 Tours, we gradually recruited individuals who had expressed unwillingness to be vaccinated,
141 with diverse characteristics to develop our inductive explanatory model. After confirming age

142 and vaccination status, participants were invited for individual interviews lasting approximately
143 15-25 minutes.

144

145 Data collection:

146 The semi-directed interviews were conducted between 12/07/2023 and 05/31/2023, following
147 the grounded theory approach. The interviews were designed to explore the participants'
148 understanding of influenza and their perspectives on vaccination. They were specifically aimed
149 at understanding the reasons behind their decision to decline the flu vaccine, uncovering both
150 motivating and discouraging factors that contribute to their vaccine hesitancy. Additionally, the
151 study examined factors that have the potential to influence participants' reconsideration of the
152 flu vaccine. An evolving interview guide was used throughout the interviews, ensuring a
153 comprehensive exploration of the topic. Considering the specific needs of the geriatric
154 population, individual interviews were preferred due to the common presence of hearing
155 impairments and mobility challenges. The interviews were conducted either in the hospital or
156 at the participants' homes, accommodating their preferences.-All interviews were conducted by
157 the geriatrician intern and recorded using a smartphone' Dictaphone function. Transcriptions
158 were made and anonymized, and non-verbal cues were noted to enhance the analysis. After
159 each interview, self-administered questionnaires were used to gather additional data, with
160 patients' agreement. Participants' age, gender, living place, chronic medical conditions, past
161 vaccination including influenza, pneumococcal, shingles, Covid and diphtheria-tetanus-polio
162 were recorded. Patients were informed that the interviews were recorded, anonymized, and
163 solely used for the purpose of the study. The termination of interviews was based on the
164 principle of data saturation, whereby no new themes or explanatory insights emerged, indicating
165 that theoretical saturation had been achieved and the explanatory model was considered
166 comprehensive.

167

168 Data analysis:

169 The interviews were transcribed manually in their entirety on a word processing software in the
170 days following the recording by the investigator who conducted them. The whole of the open
171 analysis was carried out following a triangulation by comparing the results of the 2
172 investigators. The axial and integrative analysis were carried out using the grounded theory
173 method to arrive at an explanatory model on the reasons for reluctance to influenza vaccination.
174 The final coding and themes were conceptualized through recurrent discussion between the two
175 researchers involved in the study.

176

177 Ethical and regulatory aspects:

178 Free and informed consent to participate in this study from all participants was collected orally
179 and in writing by the principal investigator at the beginning of each interview. The
180 confidentiality of the data was respected by deleting all the proper names of people or places as
181 well as the elements which would make it possible to identify them. Participant names have
182 also been replaced with coding.

183

184 **Results:**

185 Participants:

186 In total, we interviewed 12 individuals aged between 76 and 99 years old (mean age = 86.5
187 years). There was 4 male and 8 female participants. The data collection process concluded after
188 conducting 12 interviews. No patient refused the interview. The demographic details of all the
189 included interviewees are summarized in **table 1**. Interviews lasted an average of 27mn50s (SD
190 13mn42-47mn41). Among all the participants, only 2 individuals reported a previous history of
191 flu. 5 participants had received the flu vaccine but chose to discontinue it. In terms of other
192 vaccinations, the majority had received the tetanus vaccine (10 out of 12). Regarding Covid,
193 the results were more diverse, with 7 participants having received the vaccine. Only one
194 participant was vaccinated against pneumococcus, and none had received the shingles vaccine.

195 Data on participants' views on vaccination and the rationale for these views were organized
196 into four groups of themes considering attributes and interactions related to each aspect until
197 the explanatory model was completed, and the theoretical saturation was reached.

198

199 Theme 1: Personal factors and Views

200

201 ***Perceptions of Influenza and Other Diseases in Relation to Vaccination***

202 The perceptions of influenza and other diseases significantly influence individuals' attitudes
203 towards vaccination. Participants expressed various perceptions of influenza, often trivializing
204 its severity and importance.

205 Influenza was commonly viewed as an unfamiliar and benign disease "No, I've never seen
206 one..." (P2L133), implying a lack of personal experience with the virus. Some participants
207 considered the flu as a mild and self-limiting illness "Well, it came and went" (P5L33). This
208 perception of influenza as a curable disease was further reinforced by the belief that medical
209 treatment would be readily available if they were to contract the flu "I've never thought about

210 *it because I know I'll be treated" (P6L93-95), illustrating confidence in their ability to recover*
211 *without vaccination.*

212 Moreover, influenza was often regarded as an age-old disease "*The flu has always been*"
213 *(P3L204), implying a historical presence of the virus. The lack of recent outbreaks or perceived*
214 *distinctions from other benign viruses further contributed to the trivialization of influenza.*
215 Some participants even failed to differentiate between severe colds and the flu, assuming that
216 any respiratory illness could be classified as the flu "*People who said 'I'm screwed, I've got the*
217 *flu'. But even if it was a bad cold, it was the flu" (P7L31-32).*

218 In contrast, participants exhibited a heightened awareness and concern for other diseases,
219 particularly COVID-19 and tetanus. COVID-19 was described as a deadly and incurable
220 disease, generating fear and a sense of urgency for vaccination "*The Covid would come and*
221 *exterminate the world" (P5L151) and "Covid, there was no covid in the old days" (P5L152).*
222 Similarly, tetanus was regarded as a serious and potentially fatal disease, drawing a clear
223 distinction from the perceived mildness of influenza "*It's much more serious than the flu*"
224 *(P3L220). The perception of being exposed to tetanus, often through specific circumstances*
225 *like contact with rusty objects, further emphasized the need for vaccination.*

226

227 ***Perceptions of Personal Vulnerability and Fatalistic Attitudes Towards Influenza***

228 Many individuals do not consider themselves at risk and therefore do not feel the need for the
229 influenza vaccine.

230 One prevailing notion among the participants is a belief in their good health and innate
231 resistance to influenza "*I'm not sickly. I'm not sickly at all" (P4L35-36), suggesting that their*
232 *overall well-being makes them less susceptible to contracting the flu. Others attribute their*
233 *perceived invulnerability to a lack of prior experience with influenza "I haven't had the flu like*
234 *I was telling you" (P7L34-35), implying that their absence of flu episodes reinforces their belief*
235 *in their resistance.*

236 Interestingly, some participants associate their resilience to historical events or environmental
237 factors. One participant links their resistance to the hardships endured during war "*I think the 5*
238 *years of war marked us a lot and immunized us at the same time" (P3L238-239). Another*
239 *participant suggests that living in a rural area with cleaner air may contribute to their perceived*
240 *immunity, "In the countryside over there... in my little country of 160 inhabitants, the air must*
241 *be healthier maybe" (P10L24-25). These beliefs further strengthen their conviction that they*
242 *are not the target population for flu vaccination.*

243 The perception of not being vulnerable to influenza often stems from the belief that individuals
244 with certain health conditions or greater exposure are more susceptible. Some participants
245 express this by stating that those who are sicker or have a higher risk profile should be
246 prioritized for vaccination *"They'd tell me I've got cancer maybe I'd be fragile"* (P6L193-194).
247 Similarly, individuals who do not perceive a direct risk in their immediate environment may
248 feel less concerned about influenza *"If you don't have the risk around you, you don't feel*
249 *concerned"* (P10L293). This perception reinforces their belief that they are not in need of
250 influenza protection.

251 Furthermore, a sense of fatalism emerges from the narratives of several participants, particularly
252 regarding their proximity to death and constant exposure to disease. Some participants express
253 resignation towards their health, adopting a wait-and-see attitude *"I wait for it to happen"*
254 *(P8L192)*, implying an acceptance of whatever health outcomes may arise. This fatalistic
255 perspective is also accompanied by a lack of interest in their health or the medical world *"I*
256 *don't pay attention. I walk around every day"* (P5L108), indicating lower propensity to protect
257 oneself through vaccination.

258

259 Participants held various perceptions regarding vaccination in general, viewing it as a global
260 health measure or having targeted reservations specifically about influenza vaccination.
261 Common misconceptions about influenza vaccination were also present, including concerns
262 about vaccine efficacy, safety, and potential side effects.

263

264 ***Misconceptions and Resistance Regarding Vaccination Strategies***

265 The participants' resistance to vaccines stems from a range of misconceptions surrounding
266 vaccine benefits, risks, and characteristics. These misconceptions have been shaped by personal
267 experiences, family influences, and close contacts, leading to a well-established resistance to
268 vaccines.

269 One prevailing misconception is the belief in the ineffectiveness of vaccination. Some
270 participants argue that if they have already contracted the disease, the vaccine will have no
271 impact *"If you have the germ, the vaccine won't do anything"* (P5L121). Others perceive
272 vaccination as a matter of belief, suggesting that it is only effective for those who believe in it
273 *"It's effective for others. Those who are believers. I'm not a believer"* (P5L194).

274 Concerns about vaccine side effects contribute to vaccine resistance. Some participants believe
275 that vaccines can lead to severe consequences, including death or disability. One participant
276 mentioned a colleague who developed the beginnings of multiple sclerosis, attributing it to the

277 vaccine *"When she went for treatment, they told her that for us it's from the vaccine"* (P6L110-
278 111). There is also a perception that vaccination weakens the immune system, making
279 individuals more susceptible to other illnesses *"So when you're weakened by vaccination, you*
280 *run the risk of catching something else more easily"* (P8L114-115).

281 Confusion about the mechanism of vaccines is evident among participants, particularly
282 regarding immune memory. Some participants question the efficacy of vaccines that dissolve
283 over time, suggesting that they are rendered useless *"If you inject a product that dissolves over*
284 *time, it's useless"* (P9L37-38). Additionally, there is a misconception about the primary role of
285 vaccines, with some participants believing that their main purpose should be to reduce
286 transmission, despite the possibility of breakthrough infections *"Some people have had*
287 *injections for Covid and still got it"* (P11L91-92).

288 Participants also express concerns about the design and administration of vaccines. Some
289 perceive the development of vaccines as too quick, preferring a more thorough and time-
290 consuming process of study and evaluation *"It's better to wait for a laboratory that takes the*
291 *time to study and puts it into service after many studies"* (P7L197-198). Others feel
292 overwhelmed by the number of vaccines being recommended, perceiving it as excessive *"Right*
293 *now, for a yes or a no, you're going to be vaccinated"* (P9L95-96). Concerns are also raised
294 about the dosage of each injection, with some participants viewing it as too high and potentially
295 harmful to the body *"Once is a big shock for the body"* (P12L355-357). Additionally, there is a
296 misconception about the timing of vaccination, with some participants believing it should be
297 administered before the epidemic rather than during *"You have to get the vaccine before the*
298 *epidemic. You shouldn't do it during"* (P5L120-121). Furthermore, for some participants, the
299 method of administration, particularly injections, evokes traumatic experiences, such as those
300 encountered during military service, which may contribute to their reluctance towards vaccines
301 *"If, on the other hand, I've had injections *meaning in the army*. Maybe that's what turned me*
302 *off a bit, and then I didn't want them anymore *laughs*."* (P2L69-71).

303

304 ***Addressing Specific Misconceptions Related to Influenza Vaccinations***

305 One common misconception is the belief that the flu vaccine is useless. Participants express
306 skepticism *"For me, it's bullshit"* (P5L145), suggesting a lack of faith in its effectiveness.
307 Additionally, concerns about the benefit-risk balance arise, with some participants believing
308 that the vaccine may cause more harm than the flu itself *"I think the vaccine may have killed*
309 *more people than the beast"* (P8L142-143). The perception of random tolerance further
310 contributes to not uptake vaccine *"You have people for whom it goes well, and people for whom*

311 *it doesn't"* (P6L103-104), as some individuals experience transient side effects or know
312 someone who had a fatal outcome after receiving the vaccine *"A dear friend who persuaded*
313 *him and he died"* (P8L93).

314 Participants also associate the flu vaccine with actually contracting the flu, leading to the belief
315 that the vaccine causes the very illness it is meant to prevent *"Yes because the flu, with the flu*
316 *vaccine, I caught the flu"* (P6L327). Furthermore, there is a perception that the vaccine can
317 make one sicker than actually getting the flu *"If you got the flu shot, would it be worse than if*
318 *you got the flu? Ah yes, I think so!"* (P3L145-147). These misconceptions contribute to vaccine
319 hesitancy and reinforce negative attitudes towards the flu vaccine.

320 The timing of flu vaccination is also a point of contention among participants. Some believe
321 that the vaccine should be administered before the epidemic, suggesting a misunderstanding of
322 the purpose of vaccination *"You have to get the vaccine before the epidemic. You shouldn't do*
323 *it during"* (P5L120-121). Moreover, there is a rejection of the annual repetition of the vaccine,
324 with participants expressing that it is not necessary every year.

325 Confusion between the flu vaccine and homeopathy is also apparent. Some participants refer to
326 homeopathy as a "homeopathic vaccine," indicating a lack of clarity and differentiation between
327 the two approaches *"We were told about this homeopathic vaccination"* (P11L39-40).

328

329 ***Addressing Targeted Reservations to Influenza Vaccination***

330 Participants exhibit a distinct rejection of influenza vaccination while simultaneously
331 expressing acceptance and trust in other vaccines. This differential perception of vaccines is
332 notable, with participants asserting that they do not oppose vaccinations in general. They
333 highlight their willingness to receive vaccines for diseases like tetanus or COVID-19,
334 demonstrating that their reservations are specific to influenza vaccination.

335 One common theme among the participants is their belief in being at a higher risk or more vulnerable
336 to certain diseases other than influenza. They perceive their health conditions, such as diabetes, as
337 warranting a greater need for vaccines like tetanus *"Given that I'm diabetic, tetanus could perhaps*
338 *do a lot more for me"* (P6L83-84). Others associate their level of exposure receiving tetanus
339 vaccination *"There were rose bushes. I used to cut off the dead flowers. I was always*
340 *vaccinated. Oh yes, always against tetanus."* (P10L116-117). Some participants also exhibit a
341 heightened perception of the severity or contagiousness of diseases like COVID-19, which they
342 consider more pressing and spectacular than influenza (P12L25-26, P10L149).

343 Fatal experiences witnessed among friends and family also play a significant role in
344 participants' reservations. Instances such as the death of a relative following a tetanus operation

345 (P9L68) contribute to their fear and reluctance towards certain vaccines. Moreover, the novelty
346 of diseases adds to their apprehension, as they may perceive influenza as a more familiar and
347 less threatening illness compared to emerging or recent diseases "*I was never interested in flu...
348 I was more interested in Covid. Because it was more spectacular*" (P12L25-26).

349 It is worth noting that participants' reservations are specific to influenza vaccination, as they
350 demonstrate a willingness to make exceptions for other vaccines. Some participants admit to
351 using homeopathy exclusively for the flu "*Do you take homeopathy for anything other than the
352 flu? No, just for that*". (P11L130-131), suggesting a unique perspective on influenza
353 vaccination compared to other immunizations.

354

355 Theme 2: Interpersonal Interactions and Views on Vaccination

356 Older individuals elucidate the impact of their social network on their inclination to decline
357 influenza vaccination, with these interpersonal dynamics playing a substantial role in shaping
358 their ultimate decision.

359

360 ***Information Sources***

361 When it comes to gathering information about vaccination, participants highlighted various
362 sources that influenced their decision-making process. Healthcare professionals, particularly
363 the attending physician and the pharmacist, played a significant role in providing information
364 and recommendations "*With our doctor, we often talked about it suggesting flu vaccination, but
365 I said no*" (P2L25-26). Another participant expressed trust in their pharmacist, stating, "*My
366 pharmacist friend knows so much that it's all my books put together*" (P12L308-309). These
367 interactions with trusted healthcare professionals contributed to participants' understanding of
368 vaccination but did not always lead to acceptance.

369 The influence of individuals' social circles, especially family members and neighbors, was also
370 apparent. Discussions and conversations within the family played a major role in shaping
371 perceptions and decisions regarding vaccination "*We talk about it a lot with our children, all
372 that...*" (P2L137-138). Similarly, interactions with neighbors who prioritize their own health
373 also influenced participants' attitudes towards vaccination "*Because my neighbors, a lot of them
374 take care of themselves like that and you know what I mean*" (P4L29-30). These informal social
375 networks provided a platform for sharing experiences and opinions, which impacted
376 participants' vaccination choices.

377 Media, such as television and the Internet, were additional sources of information for
378 participants. Television programs and news coverage were mentioned as sources of information

379 about vaccination. *"I watch TV..." (P10L151)*. The Internet also played a role, with participants
380 seeking information from online sources and relying on individuals who were knowledgeable
381 in the online community *"I'm going to ask what I call Nenette, who knows everything, what she
382 can tell me" (P12L325-326)*. Interestingly, there was a perception that the focus on COVID-19
383 had overshadowed discussions about influenza *"We didn't talk much about the flu this winter.
384 Since Covid, we've talked a lot less about the flu" (P10L37-38)*.

385

386 ***Credibility and Influence of Interpersonal Relations***

387 The role of social interactions and communication emerged as a key factor in shaping the
388 vaccination decisions of participants. Close contacts, including peers, family members, and
389 healthcare professionals, played a significant role in influencing their vaccination intentions.
390 Participants reported that when those around them insisted on the need to get vaccinated, it
391 often led to weariness and reluctance *"Not more than that. If a little because he's such a pain,
392 excuse the expression" (P5L185)*.

393 The influence of family members and peers was also evident in participants' vaccination
394 decisions. Some participants mentioned the presence of rejection towards vaccination within
395 their families, which affected their own attitudes *"In my family, there's rejection" (P8L85)*. On
396 the other hand, positive experiences and opinions expressed by family members or close
397 contacts had a reinforcing effect. Participants often shared anecdotes or stories of individuals
398 they knew who had chosen not to be vaccinated and had positive outcomes. This influenced
399 their own beliefs and decisions regarding vaccination *"I have a sister who never wanted to be
400 vaccinated for Covid. And then it went well" (P9L79-80)*.

401

402 ***Role of healthcare workers in decision to vaccinate.***

403 Healthcare professionals play a significant role in shaping individuals' decisions regarding
404 vaccination. However, participants expressed varied perceptions and experiences related to the
405 influence of healthcare workers.

406 Some participants perceived healthcare professionals as incompetent or lacking credibility
407 *"They were doctors like me, I'm a vet" (P5L342-343)*, suggesting a sense of skepticism towards
408 the expertise of certain healthcare professionals. There were also mentions of potential conflicts
409 of interest *"Because I know a lot of people in the medical profession who are frankly against it,
410 who are honest and not interested" (P8L54-55)*. This highlights the perception that healthcare
411 professionals may have personal biases influencing their stance on vaccination.

412 Conversely, participants expressed frustration when healthcare professionals were
413 predominantly against vaccination. One participant remarked, *"In the end, even the doctors are*
414 *against it"* (P7L153-154), reflecting a perception that healthcare professionals themselves may
415 discourage vaccination. This skepticism towards healthcare professionals' support for
416 vaccination raises concerns and potentially influences participants' decision-making process.
417 Interestingly, one participant mentioned that their attending physician stopped offering
418 vaccinations after repeated refusals. This suggests a potential weariness among healthcare
419 professionals when faced with vaccine hesitancy, leading them to discontinue offering
420 vaccinations *"When you're used to the doctor... well, he doesn't ask you anymore"* (P2L39).
421 To reinforce their own opinions, participants shared instances where healthcare professionals
422 supported their views. One participant mentioned a doctor who recommended alternative
423 remedies instead of vaccination *"The doctor tells her that at her age there's no point in her*
424 *getting vaccinated"* (P10L161-162). This highlights how participants may selectively highlight
425 instances where healthcare professionals align with their beliefs, reinforcing their decision to
426 opt for alternatives to vaccination.

427

428 Theme 3: Alternatives to Vaccination

429 Within the context of vaccine hesitancy, some participants express a preference for alternative
430 management strategies instead of vaccination.

431

432 ***Preventing and caring through alternative methods***

433 The participants' refusal of the flu vaccination reveals a distinct approach to healthcare, as they
434 prioritize alternative methods and personal autonomy. Their statements shed light on their belief
435 in precautionary measures as viable alternatives to vaccination, reflecting their unique
436 perspectives on health and well-being.

437 Acknowledging the importance of minimizing the risk of severe illness or complications from
438 infectious diseases, the participants actively embrace precautionary measures. By reducing
439 outings and contacts, they demonstrate an awareness of potential sources of infection and their
440 willingness to make lifestyle adjustments *"We avoid certain outings like we used to do... even*
441 *going for a walk or something... 'we've stopped doing that"* (P2L95-96). This highlights their
442 proactive approach in minimizing exposure to pathogens.

443 Furthermore, the participants exhibit a sense of responsibility not only towards their own well-
444 being but also towards others in their community. They understand that their personal protection
445 plays a role in reducing the spread of infectious diseases, *"Protecting others while protecting*

446 *myself"* (P3L106), where they express the desire to protect themselves and those around them
447 through preventive measures.

448 Their approach to healthcare also emphasizes personal autonomy and self-care. They exhibit a
449 self-reliant attitude, believing in their ability to manage symptoms and seek appropriate care
450 when necessary *"If I have to catch it, I'll catch it and look after myself... I'd start by not going*
451 *out"* (P3L98-103), underscore their willingness to take responsibility for their health. This
452 autonomy empowers them to make decisions aligned with their own judgment and resources.

453 In contrast to preventive medicine, the participants express skepticism and favor symptom-
454 focused approaches. They rely on treatments when needed, rather than engaging in preventive
455 measures alone *"I only take medicine if I need it. But not for prevention"* (P7L144), they reveal
456 a lack of confidence in the effectiveness of vaccinations and a preference for alternative
457 approaches to maintaining health.

458 The participants' reliance on alternative remedies, such as homeopathy, further supports their
459 inclination towards non-conventional healing practices. They perceive these remedies as more
460 effective than vaccinations *"Maybe better. Maybe better"* (P6L174-175), demonstrate their
461 belief in alternative treatments. This preference for natural and holistic approaches is also
462 evident in their incorporation of self-care practices, such as using heat, herbal teas, and
463 maintaining warmth. By embracing these gentle and natural methods, they prioritize overall
464 well-being and a holistic approach to health.

465

466 ***A life-course paradigm: A philosophy centered around a healthy lifestyle.***

467 An essential theme emerges, that of alternative medicine as a way of life. Several participants
468 clearly express their commitment to a healthy lifestyle and their categorical refusal of the
469 vaccination principle. Alternative medicine is considered going beyond a mere therapeutic
470 option and constitutes a genuine paradigm of thought and behavior.

471 Health and well-being are at the core of this alternative way of life philosophy *"We have had a*
472 *healthy life, and that is very important"* (P3L72). Participants attach great importance to
473 preserving their health and seek to adopt natural and non-invasive approaches to prevent and
474 treat illnesses, emphasizing on natural process and avoiding chemical substances *"I wouldn't turn*
475 *to official medicine in the first place. And I have enough friends in other forms of medicine to*
476 *make me swallow essential oils or homeopathic remedies or a water bath or a cold-water bath,*
477 *whatever. But more natural things."* (P12L48-51). This conviction translates into a firm
478 rejection of vaccination, perceived as an intrusion into the natural balance of their bodies
479 *"We've always tried to do everything we can to feel good without changing the cells in my body.*

480 *Without upsetting them” (P12L189-190). One participant clearly expresses this opposition “I*
481 *have always refused vaccines because I belonged to the opposing school” (P8L23-24).*

482 Alternative medicine is regarded as more than just a therapeutic alternative. It is seen as a way
483 of life, a holistic vision of health and well-being *“When one becomes a homeopath, it is a whole*
484 *world. It is an entire way of life” (P1L91-92).* Participants take a comprehensive approach to
485 their health, seeking to preserve the integrity of their bodies and avoid medical interventions
486 deemed invasive and favoring gentle and natural healing methods.

487

488 Theme 4: System-Level Aspects

489

490 ***Access Barriers to Healthcare***

491 One of the key factors contributing to vaccination refusal among participants is the presence of
492 barriers to accessing healthcare services. Several individuals expressed difficulties in obtaining
493 timely and convenient appointments with general practitioners. These challenges in accessing
494 primary care act as a significant deterrent to vaccination acceptance and additional barriers.
495 Participants described their struggles in finding doctors willing to accept them as patient *“Now*
496 *we can't find a doctor” (P3L102),* as well as their ongoing search for healthcare professionals
497 who could address their medical needs *“For 4 years now, I've been looking for doctors who*
498 *would be willing to take me on” (P3L250-251).*

499 Considering these access barriers, participants sought alternative remedies and solutions that
500 they perceived as more accessible and convenient. They preferred non-prescription remedies
501 available at local pharmacies, bypassing the need for appointments or prescriptions *“Now I take*
502 *it at the pharmacy without a prescription” (P10L216-217).* Additionally, participants
503 appreciated treatments that could be delivered directly to their homes, eliminating the need to
504 travel, and disrupting their daily routines *“I had my tubes brought to me, so I didn't have to go*
505 *anywhere” (P4L98).*

506 The desire for simplicity and autonomy also influenced participants' decision to refuse
507 vaccination. Some individuals expressed a reluctance to disrupt their established routines and
508 habits. They preferred to avoid any changes that vaccination might bring to their lives *“No, no,*
509 *I don't know why. Maybe it's ... it's just the way it is. Ah, it's weird laughs... it's just the way it*
510 *is” (P2L82-83).* Participants also highlighted concerns about the time and organizational efforts
511 required for vaccination *“If you have to lose a whole day for a shot, it's not worth it” (P5L269-*
512 *270).* These considerations reflect participants' desire for simplicity, autonomy, and minimal
513 disruption to their daily lives.

514

515 ***Discontent with Public Health Incitation's and Emphasis on Individual Freedom***

516 The perceptions of participants regarding vaccination campaigns played a significant role in
517 shaping their attitudes towards vaccination. The repetitive nature of these campaigns led to
518 weariness and skepticism "*It's just that every year the social security system says, 'Come on,*
519 *old people, get vaccinated.' ... shudders...*" (P9L141-142). This highlights the importance of
520 developing effective communication strategies that move beyond repetitive messaging and
521 addressing clear and meaningful information that addresses their specific needs.

522 Furthermore, the desire to retain personal freedom regarding vaccination emerged as a common
523 sentiment among the participants "Habeas corpus. We have the right to do what we want with
524 our bodies" (P8L77-78), emphasizing the importance of medical individualism over public health
525 policies. This sentiment reflects a strong belief in personal autonomy and the ability to make
526 individual decisions regarding healthcare. The vaccine policy system, however, generates a
527 certain level of rejection among some individuals "*I don't see how 600 morons can determine*
528 *what the French population should do on a personal and individual level*" (P8L78-79).
529 Additionally, participants expressed their skepticism towards vaccination as a social norm that
530 doesn't correspond to their own perspectives, expressing confusion about why people blindly
531 follow societal norms "*There are a lot of people... 'Well, we're getting the flu shot, oh well, I'll*
532 *take it.' Why they don't know*" (P7L95-96). This sentiment highlights a lack of alignment
533 between the participants' personal beliefs, lack of inclusive decision-making processes and the
534 perceived social pressure to conform to vaccination practices without considering individual
535 rights and preferences.

536 Compulsory vaccination also emerged as a recurring theme among the participants. Memories
537 of childhood or army traumas, such as waiting in line for shots, and experiences of mandatory
538 vaccination in hospitals contributed to negative associations and reservations towards
539 vaccination "*I remember the row of children in knickers waiting their turn for a shot in the*
540 *back*" (P7L70-71). Another participant mentioned being automatically vaccinated during a flu
541 epidemic at the hospital: "*And there was the flu epidemic, so as a preventive measure, the*
542 *department where I was in surgery automatically vaccinated everyone for the flu*" (P3L126-
543 127). These experiences, coupled with the fear of obligation, led some participants to hide their
544 refusal to vaccinate "*Then I'd messed myself up with a rosebush thingy. He came up to me and*
545 *said, 'Are you up to date with your tetanus shots? I said, 'Yes, I've got everything. But I've got*
546 *nothing at all*" (P5L49-51).

547

548 ***Distrust in Institutions and Conspiracy Beliefs,***

549 The participants' perceptions and experiences contribute to a sense of distrust in the healthcare
550 system and belief in conspiracy theories. The lack of transparency and information about the
551 contents of the vaccines fosters suspicion "*Covid 19 and all that, they were encouraging people*
552 *to get vaccinated, and what did they put in the vaccine? We don't know"* (P9L48-49). This lack
553 of knowledge fuels skepticism and mistrust in the intentions of healthcare institutions.
554 Conspiracy theories, particularly focused on the pharmaceutical industry "*The laboratories*
555 *have to work"* (P6L143), political figures "*Véran and then Macron, they say they're vaccinated*
556 *but I know who they're not vaccinated against."*(P6L231-232), media "*Right now in the media...*
557 *we're going to tell you what they like in the media"* (P9L51) and pro-vaccination doctors, further
558 exacerbate this sense of mistrust. The belief that these entities are driven by financial motives
559 "*Of course, they want their money"* (P6L299-300) and the perception of a conspiracy involves
560 the withholding or manipulation of information "*Why isn't this being broadcast? That would*
561 *allow us to think that it can't be disseminated, you see"* (P12L395-396) and the intentional
562 creation of viruses "*Now monkey pox, bird flu, all that is bread and butter on the horizon"*
563 (P8L176-177)., creating a sense of suspicion and skepticism among the participants.

564 The participants' accounts also highlight a perception of medicine as a nebulous science. This
565 perception stems from a lack of clarity and understanding regarding the efficacy and impact of
566 medical interventions "*There's not only an intentional deviation, but also the nebulosity*
567 *intrinsic to medicine"* (P8L232-233). The belief that diseases come and go mysteriously further
568 contributes to the skepticism towards medical interventions. Participants potentially minimize
569 the perceived effectiveness of vaccines in preventing or treating diseases: "*Diseases come and*
570 *go, appear and disappear quite mysteriously"* (P8L28-29).

571 Interestingly, the participants' contrasting views on scientific requirements highlight the
572 complexity of their beliefs. One participant rejects vaccine for lack of scientific probity "*And*
573 *I'm telling you, it's on the basis of pseudo-scientific reasoning that I don't believe in*
574 *vaccination."* (P8L112), however, he may hold alternative beliefs in the efficacy of other
575 interventions, such as homeopathy "*When I feel ... sore in the throat or that I might have a bad*
576 *cold or even the flu, I take Oscilloccinum and I have the impression that every time it stops*
577 *everything"* (P8L157-158).

578 579 **Discussion**

580 581 **Summary of main findings**

582

583 The findings from this study provide valuable insights into the multiple factors contributing to
584 vaccine hesitancy summarized in an explanatory model in **figure 1**. Through our analysis, we
585 identified six categories that encompass these barriers: knowledge including views about
586 influenza disease and vaccination, the choice of alternative approaches to vaccination, the desire
587 of simplicity and freedom, the feeling of not being concerned by vaccination and targeted
588 reserves concerning influenza vaccination. These factors included trivialization of influenza
589 compared to other perceived health threats, the impact of various information sources,
590 interpersonal influences, misconceptions and concerns, and individual autonomy. Tailored
591 communication strategies should be developed to address specific reservations and concerns
592 voiced by older adults, emphasizing the importance of influenza vaccination and correcting
593 misconceptions. By examining these themes, we have developed a comprehensive model that
594 elucidates the connections between different reluctances to receive flu vaccination. This model
595 serves as a foundation for designing targeted interventions aimed at improving influenza
596 vaccination rates within the older adult population. By unraveling these categories and their
597 interrelationships, we gain a deeper understanding of the complex dynamics that contribute to
598 vaccine hesitancy.

599

600 **Strengths and limitations**

601 The study has several strengths that contribute to its significance and validity. Firstly, the
602 inclusion of participants from diverse age groups ensures the representation of the geriatric
603 population. Secondly, the originality of this study lies in the exclusive inclusion of participants
604 who refused influenza vaccination, unlike most of the studies found, which recruited patients
605 both for and against (16–19). This deliberate focus is significant considering that approximately
606 45% of individuals do not receive the influenza vaccine. By specifically targeting this group,
607 the study aimed to gain insights into their characteristics, motivations, barriers to influenza
608 vaccination and identify unique factors that may differentiate their perceptions and attitudes
609 towards influenza vaccination from other vaccine-preventable diseases. Thirdly, the utilization
610 of triangulation by two investigators in this study enhances the rigor and reliability of the data
611 analysis. The researchers can discuss and resolve any discrepancies or differences in their
612 interpretations, ensuring a more comprehensive and accurate analysis of the data. Finally, this
613 study makes a significant contribution to the field by proposing an explanatory model for the
614 identified barriers to influenza vaccination. While previous studies have explored various

615 factors associated with vaccine hesitancy, this study goes beyond mere identification and
616 provides a comprehensive framework that explains the underlying reasons behind vaccine
617 refusal.

618 However, it is important to acknowledge and consider the limitations of this study. Firstly, this
619 is the first qualitative study conducted by the principal investigators, indicating a potential
620 learning curve in the application of qualitative research methods. While efforts were made to
621 ensure the rigor and validity of the study, the novelty of conducting qualitative research for the
622 investigators may have introduced some challenges or limitations in data collection and
623 analysis. Additionally, it is worth noting the presence of a positioning bias during the
624 interviews. The principal investigator, being a doctor herself, may have unintentionally
625 influenced the participants' responses due to her professional background and perspectives. The
626 participants may have felt inclined to provide answers that aligned with the perceived
627 expectations of a doctor, potentially influencing the data collected. However, it is important to
628 highlight that during the coding and analysis process, particular attention was given to verbatim
629 that could have indicated any inhibition or filtering of participants' responses due to the
630 interviewer's status. Interestingly, no such instances were found, suggesting that participants
631 felt comfortable expressing their views and experiences openly.

632

633 **Comparison of the major categories with literature**

634

635 When comparing the major categories identified in our study to the relevant literature on
636 vaccine hesitancy, particularly regarding influenza, several notable findings emerge. A French
637 study focusing on diabetic patients reported similar limiting factors, such as the perception of
638 influenza as a mild illness and concerns about adverse effects of vaccination (16). Similarly, a
639 study conducted among EHPAD staff in Brittany revealed that vaccination was perceived as
640 ineffective, not recommended by attending physicians, time-consuming, and associated with
641 financial interests (17).

642 Internationally, a systematic review of barriers to influenza vaccination highlights our findings,
643 identifying psychological barriers (such as negative experiences and lack of knowledge) and
644 contextual barriers, notably limited access to vaccination services (14). This review also
645 highlighted additional barriers not captured in our study, such as physical barriers like low
646 physical activity or BMI, and socio-demographic barriers related to age or marital status.

647 A study conducted in Singapore examined barriers to influenza vaccination among individuals
648 aged 65 and older also found themes such as fatalism and fear of injections to be prevalent (18).

649 Finally, an English study exploring the views and decision-making processes regarding the
650 available vaccination program among individuals over 55 years old identified similar themes to
651 those found in our study. They highlighted common themes including previous experience, the
652 influence of family and friends, alternative approaches to vaccination, lack of information and
653 vaccine campaign fatigue (19). It is worth noting that this study is the only one we found that
654 specifically addresses alternative approaches to vaccination as a barrier, although it does not
655 specifically delve into the homeopathic alternative advocated by many participants in our study.

656

657 **Participants' Perceptions and Recommendations for Personalized Approaches**

658

659 During the interviews, we also inquired about the factors that would potentially influence
660 participants to reconsider their stance on influenza vaccination. The participants provided
661 insightful responses, which we subsequently compiled into a comprehensive table for a concise
662 summary of their perspectives (**Table2**). This table serves as a valuable resource for
663 understanding the potential motivators and barriers associated with influenza vaccination and
664 can inform future interventions and strategies aimed at improving vaccine acceptance among
665 this population.

666

667 Given the central role of healthcare professionals in vaccine acceptance and strong adherence
668 to other vaccines, future campaigns should prioritize their engagement. It is imperative to
669 enhance healthcare professionals' training in vaccination and actively encourage their
670 participation. Clear and accurate information regarding the effectiveness and safety of the flu
671 vaccine should be provided. Individuals should be educated about the scientific foundation of
672 vaccines and the differentiation between evidence-based vaccines and alternative therapies.
673 Addressing barriers to accessibility and ensuring equal access to healthcare services are vital
674 steps in promoting vaccine acceptance. By recognizing and respecting the perspectives of older
675 adults, healthcare providers can engage in meaningful conversations and offer tailored support
676 to improve vaccination rates and safeguard individual well-being.

677

678

679 **Conclusion**

680

681 Promoting public health through increased knowledge and preventive measures, including
682 vaccination, remains a paramount challenge. In France, addressing barriers to accessing
683 preventive healthcare services, such as influenza vaccination, is of utmost importance. The next

684 crucial step lies in raising public awareness, enhancing knowledge, fostering motivation, and
685 encouraging proactive health behaviors, including the uptake of seasonal influenza vaccines.
686 Implementing communication strategies targeted at healthcare decision-makers and the general
687 public can bridge existing gaps and contribute to safeguarding the well-being of older
688 communities. By prioritizing comprehensive approaches, we can strive to protect our aging
689 populations and promote healthier societies. Our findings provide public health practitioners
690 with an insight into the complexity of vaccine perceptions among one of the most vulnerable
691 populations. Through this study, we hope that healthcare professionals will gain a better
692 understanding of the concerns older adults have regarding influenza vaccination and, in turn,
693 refine their personal communication with this population to encourage vaccination.

694
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697

698 **References**

699

- 700 1. Haute Autorité de Santé. Note de Cadrage : Révision de la Stratégie de Vaccination contre la
701 Grippe saisonnière. 2022.
- 702 2. Campese C. Surveillance de la Grippe en France, Saison 2018-2019.
- 703 3. Langer J, Welch VL, Moran MM, Cane A, Lopez SMC, Srivastava A, et al. High Clinical Burden
704 of Influenza Disease in Adults Aged ≥ 65 Years: Can We Do Better? A Systematic Literature Review. *Adv*
705 *Ther.* avr 2023;40(4):1601-27.
- 706 4. Iuliano AD, Roguski KM, Chang HH, Muscatello DJ, Palekar R, Tempia S, et al. Estimates of
707 global seasonal influenza-associated respiratory mortality: a modelling study. *Lancet Lond Engl.* 31 mars
708 2018;391(10127):1285-300.
- 709 5. Andrew MK, MacDonald S, Godin J, McElhaney JE, LeBlanc J, Hatchette TF, et al. Persistent
710 Functional Decline Following Hospitalization with Influenza or Acute Respiratory Illness. *J Am Geriatr*
711 *Soc.* mars 2021;69(3):696-703.
- 712 6. Fried LP, Ferrucci L, Darer J, Williamson JD, Anderson G. Untangling the Concepts of Disability,
713 Frailty, and Comorbidity: Implications for Improved Targeting and Care. *J Gerontol Ser A.* 1 mars
714 2004;59(3):M255-63.
- 715 7. Lees C, Godin J, McElhaney JE, McNeil SA, Loeb M, Hatchette TF, et al. Frailty Hinders
716 Recovery From Influenza and Acute Respiratory Illness in Older Adults. *J Infect Dis.* 6 juill
717 2020;222(3):428-37.
- 718 8. Données de couverture vaccinale grippe par groupe d'âge [Internet]. [cité 21 juin 2023].
719 Disponible sur: [https://www.santepubliquefrance.fr/determinants-de-sante/vaccination/donnees-de-](https://www.santepubliquefrance.fr/determinants-de-sante/vaccination/donnees-de-couverture-vaccinale-grippe-par-groupe-d-age)
720 [couverture-vaccinale-grippe-par-groupe-d-age](https://www.santepubliquefrance.fr/determinants-de-sante/vaccination/donnees-de-couverture-vaccinale-grippe-par-groupe-d-age)
- 721 9. Santé publique France. Bulletin de Santé publique : Vaccination, édition région Centre Val de
722 Loire [Internet]. 2022 [cité 21 juin 2023] Disponible sur :
723 [https://www.santepubliquefrance.fr/regions/centre-val-de-loire/documents/bulletin-regional/2022/bulletin-](https://www.santepubliquefrance.fr/regions/centre-val-de-loire/documents/bulletin-regional/2022/bulletin-de-sante-publique-vaccination-en-centre-val-de-loire.-avril-2022)
724 [de-sante-publique-vaccination-en-centre-val-de-loire.-avril-2022.](https://www.santepubliquefrance.fr/regions/centre-val-de-loire/documents/bulletin-regional/2022/bulletin-de-sante-publique-vaccination-en-centre-val-de-loire.-avril-2022)
- 725 10. Santé Publique France. Bilan préliminaire de la grippe, saison 2022-2023 [Internet]. 2023. [cité le
726 21 juin 2023]. Disponible sur : [https://www.santepubliquefrance.fr/maladies-et-traumatismes/maladies-et-](https://www.santepubliquefrance.fr/maladies-et-traumatismes/maladies-et-infections-respiratoires/grippe/documents/bulletin-national/bulletin-epidemiologique-grippe-semaine-18.-bilan-preliminaire.-saison-2022-2023)
727 [infections-respiratoires/grippe/documents/bulletin-national/bulletin-epidemiologique-grippe-semaine-18.-](https://www.santepubliquefrance.fr/maladies-et-traumatismes/maladies-et-infections-respiratoires/grippe/documents/bulletin-national/bulletin-epidemiologique-grippe-semaine-18.-bilan-preliminaire.-saison-2022-2023)
728 [bilan-preliminaire.-saison-2022-2023.](https://www.santepubliquefrance.fr/maladies-et-traumatismes/maladies-et-infections-respiratoires/grippe/documents/bulletin-national/bulletin-epidemiologique-grippe-semaine-18.-bilan-preliminaire.-saison-2022-2023)
- 729 11. Programme national d'amélioration de la politique vaccinale 2012-2017 [Internet]. [cité 21 juin
730 2023]. Disponible sur:
731 [https://sante.gouv.fr/IMG/pdf/programme_national_d_amelioration_de_la_politique_vaccinale_2012-](https://sante.gouv.fr/IMG/pdf/programme_national_d_amelioration_de_la_politique_vaccinale_2012-2017_2_.pdf)
732 [2017_2_.pdf](https://sante.gouv.fr/IMG/pdf/programme_national_d_amelioration_de_la_politique_vaccinale_2012-2017_2_.pdf)

- 733 12. Paterson P, Chantler T, Larson HJ. Reasons for non-vaccination: Parental vaccine hesitancy and
734 the childhood influenza vaccination school pilot programme in England. *Vaccine*. 28 août
735 2018;36(36):5397-401.
- 736 13. Stephens AB, Hofstetter AM, Stockwell MS. Influenza Vaccine Hesitancy: Scope, Influencing
737 Factors, and Strategic Interventions. *Pediatr Clin North Am*. avr 2023;70(2):227-41.
- 738 14. Schmid P, Rauber D, Betsch C, Lidolt G, Denker ML. Barriers of Influenza Vaccination Intention
739 and Behavior - A Systematic Review of Influenza Vaccine Hesitancy, 2005 - 2016. *PloS One*.
740 2017;12(1):e0170550.
- 741 15. Larson HJ, Figueiredo A de, Xiahong Z, Schulz WS, Verger P, Johnston IG, et al. The State of
742 Vaccine Confidence 2016: Global Insights Through a 67-Country Survey. *eBioMedicine*. 1 oct
743 2016;12:295-301.
- 744 16. Verger P, Bocquier A, Vergélys C, Ward J, Peretti-Watel P. Flu vaccination among patients with
745 diabetes: motives, perceptions, trust, and risk culture - a qualitative survey. *BMC Public Health*. 2 mai
746 2018;18(1):569.
- 747 17. Elias C, Fournier A, Vasiliu A, Beix N, Demillac R, Tillaut H, et al. Seasonal influenza
748 vaccination coverage and its determinants among nursing homes personnel in western France. *BMC Public
749 Health*. 7 juill 2017;17(1):634.
- 750 18. Teo LM, Smith HE, Lwin MO, Tang WE. Attitudes and perception of influenza vaccines among
751 older people in Singapore: A qualitative study. *Vaccine*. 16 oct 2019;37(44):6665-72.
- 752 19. Silvonon T, Kesten J, Cabral C, Coast J, Ben-Shlomo Y, Christensen H. Views and Perceptions of
753 People Aged 55+ on the Vaccination Programme for Older Adults in the UK: A Qualitative Study.
754 *Vaccines*. 20 avr 2023;11(4):870.
755

Table 1. Participants' characteristics.

	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12
Socio-demographic characteristic and health status												
Gender	Female	Male	Female	Female	Male	Female	Female	Male	Male	Female	Female	Female
Age (yo)	87	88	90	99	81	76	84	87	89	87	81	90
Duration*	19'02	13'42	30'20	18'34	39'02	32'49	29'40	31'23	29'14	25'42	16'55	47'41
Live alone	No	No	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes
Living area	Rural	Urban	Urban	Rural	Urban	Urban	Rural	Urban	Urban	Urban	Urban	Urban
Declared morbidity	Neurological	Hepatic	None	Diabetes	Cardiac	Diabetes	Thyroid disorders	Cardiac	Respiratory, cardiac	Neurological	Diabetes	None
Treatment management	Myself	Myself	Myself	Nurse	Myself	Myself	Myself	Myself	Myself	Myself	Myself	NT
Perceived polypharmacy	No	No	No	Yes	No	No	No	No	Yes	No	Yes	No
Visit to GP**	2	2	No GP	2	0	2	2	2	2	2	2	1
History of influenza vaccination and illness												
Influenza disease	No	No	Yes	No	No	No	No	-	No	No	Yes	No
Influenza vaccine	No	No	Yes	Yes	Yes	Yes	No	No	No	No	Yes	No
Influenza despite vaccination	-	-	No	No	No	Yes	-	-	-	-	Non	-
Vaccination status												
DTP[‡]	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes
PV[§]	No	No	No	No	No	No	No	No	No	Yes	No	No
ZV[°]	No	No	No	No	No	No	No	No	No	No	No	No
COV[§]	Yes	Yes	Yes	Yes	Yes	No	No	No	No	Yes	Yes	No

Abbreviations: GP, general Practitioner, NT, no treatment

* The duration of the interviews conducted with the participants

**Number of visits to the General Practitioner in the last 6 months

DTP[‡] Diphtheria-Tetanus-Poliomyelitis Vaccine

PV[§] Pneumococcal Vaccine

ZV[°] Zoster Vaccine

COV[§] Covid19 Vaccine

Table 2. Participants' Perspectives and Proposals for Personalized Approaches

Based on the responses of the participants and in alignment with the recommendations proposed by the Centers for Disease Control and Prevention (CDC), several perspectives and public health policy proposals emerge regarding influenza vaccination.

Patient level	Knowledge and Views about Influenza Disease and Related Vaccination
	Develop targeted educational campaigns to improve knowledge about influenza disease, its complications, and emphasize the benefits of vaccination.
	Provide accessible and accurate information about the safety and effectiveness of the influenza vaccine through multiple channels, including websites, brochures, and social media.
	Alternative Approaches to Vaccination
	Promote a holistic approach to health that incorporates both preventive measures like vaccination and alternative remedies, ensuring individuals understand the benefits of both.
Educate individuals about the limitations and potential risks of alternative treatments compared to evidence-based vaccination.	
Provide information on the importance of herd immunity and how individual vaccination contributes to the overall protection of the community.	
Collaborate with complementary and alternative medicine practitioners to discuss the role of vaccination in preventive healthcare.	
Provider level	Interpersonal Interaction
	Encourage healthcare providers to have open and non-judgmental conversations with patients about their concerns and reservations regarding influenza vaccination.
	Collaborate with healthcare professionals to deliver consistent and evidence-based messages about influenza vaccination.
	Offer educational sessions and workshops for healthcare professionals to enhance their knowledge and understanding of influenza disease and vaccination.
	Engage with community leaders and influencers to promote accurate information about influenza vaccination
	Train healthcare professionals in effective communication techniques to address vaccine hesitancy and build trust.
	Provide opportunities for individuals to discuss their concerns and experiences with influenza vaccination in support groups or community forums.
	Foster positive peer influence by sharing success stories of individuals who have been vaccinated and have had positive outcomes.
Encourage healthcare professionals to address vaccine hesitancy among their colleagues and share their own experiences with influenza vaccination	
System level	System-Level Aspects
	Simplify the process of accessing influenza vaccination by offering walk-in clinics and mobile vaccination services.
	Improve vaccine availability and distribution by collaborating with pharmacies, clinics, and healthcare facilities.
Strengthen vaccine surveillance systems to monitor vaccine safety and effectiveness, addressing concerns in real-time.	



Figure 1. Explanatory Model of Vaccination’s Refusal: Six Key Theme Groups

The figure presents a suggested comprehensive model that categorizes participants' views on vaccination into six main groups of themes. These themes consider knowledge including views about influenza disease and vaccination, the choice of alternative approaches to vaccination, the desire of simplicity and freedom, the feeling of not being concerned by vaccination and targeted reserves concerning influenza vaccination. This model provides a simplified structured framework for understanding the complex factors influencing vaccination attitudes.

ANNEXES

Guide d'entretien :

Introduction :

Bonjour,

Je me présente, je suis Maëlle Brault. Je suis interne en gériatrie. Aujourd'hui, on a prévu cet entretien dans le cadre de ma thèse qui a pour but de mieux comprendre les réticences à la vaccination contre la grippe chez les patients de plus de 75ans qui habitent en Indre et Loire.

Pour déterminer ces éléments, je réalise des entretiens semi-dirigés d'une trentaine de minutes qui sont enregistrés, si vous êtes d'accord. Les données recueillies sont anonymisées et ne seront utilisées que dans le cadre de ma thèse.

Je vais donc vous poser plusieurs questions auxquelles vous pouvez choisir de répondre ou non. Mon objectif n'est pas de vous juger, il n'y a pas de bonne ou de mauvaise réponse. Ces questions sont volontairement ouvertes pour vous laisser répondre ce que vous souhaitez sans vous influencer. L'idéal c'est de répondre le plus spontanément et le plus sincèrement possible.

Avant de commencer, avez-vous des questions ?

Entretien :

Tout d'abord, Que vous évoque le mot « grippe » ?

A. Vécu de la grippe :

- Si vous l'avez déjà eu ou votre entourage, est ce que vous pouvez me raconter comment cela s'est passé ?
- Comment vous savez que vous ne l'avez jamais eu ?
- Si vous l'attrapiez aujourd'hui, qu'est-ce qu'il se passerait à votre avis ? en quoi cela changerait votre vie ?
- Et qu'est ce qui est le plus probable pour vous, que vous vous en sortiez sans séquelle ou que vous en mourriez ?

B. Vaccination :

• Vécu de la vaccination antigrippale : Que pensez-vous de la vaccination antigrippale ?

- Si déjà vaccinée : Vous vous êtes déjà fait vacciner contre la grippe, comment cela s'est passé ? Des effets indésirables ?

- Vous en pensez quoi de la sureté des vaccins contre la grippe ?
- Si répond que ça rend malade : si le vaccin rend malade, vous pensez qu'il vous arriverait quoi si vous tombiez vraiment malade ? Et les autres vaccins ?
- Si répond que l'entourage a été malade : Combien de personnes dans votre entourage ? Ils avaient quoi ?

• Connaissances du fonctionnement du vaccin antigrippal : Le vaccin, il sert à quoi selon vous ?

- Et à propos de son efficacité ? / L'efficacité du vaccin, que pouvez-vous m'en dire ?
- Que faites vous dans votre quotidien pour éviter d'attraper la grippe ?
- Homéopathie : Qu'est-ce que vous en pensez de l'homéopathie ? et par rapport au vaccin ?
 - Est-ce que l'homéopathie est un vaccin ? ou alors en quoi est-ce différent ?
 - Est-ce que vous pensez que c'est efficace ? Et si oui comment vous savez si c'est plus efficace ?
- Facteurs de réticence au processus de vaccination : Qu'est-ce qui vous pousse à ne pas vous faire vacciner ou à hésiter ?
 - Le vaccin est remboursé pour toutes les personnes à risque notamment les personnes de plus de 65ans, vous en pensez quoi ?
 - Aujourd'hui on vous considère comme vulnérable, vous en pensez quoi ? qui est vulnérable ?
 - Avez-vous des personnes vulnérables autour de vous ? Vous pensez à vous faire vacciner dans le but de les protéger ?
 - Et si le vaccin était un comprimé ?
 - Si vous deviez vous faire vacciner, comment est-ce que vous vous organiseriez ? Au niveau du lieu ? du jour ? des transports ? des frais ? ...
 - Lors du covid, l'organisation pour se faire vacciner c'était compliqué : est ce que c'est pareil pour la grippe ? et pourquoi ?
- Autres vaccins : Si le patient a répondu « oui » à la vaccination par au moins un autre vaccin :
 - Dans le formulaire vous notez que vous êtes favorable à d'autres vaccins... Pourquoi cette différence ?
 - Si vaccin covid : Grippe et covid c'est pareil pour vous ? En quoi ce n'est pas pareil ?
 - Si répond par argument de fréquence : Le tétanos c'est rare mais vous êtes vacciné pourquoi ?
 - Si dis que grave : Pourtant la grippe ça a des conséquences graves et c'est fréquent, en quoi c'est différent pour vous ?

C. Dès qu'il aborde l'entourage ou le médecin traitant : Moyens d'informations :

- Et autour de vous, qu'est-ce qu'on en dit de la grippe ? du vaccin ?
- A qui faites-vous le plus confiance pour obtenir des informations ?
(Médias comme les journaux, la télé, ou quelqu'un de votre famille ? des amis ?)
- Et votre médecin traitant dans tout ça ?
- Et les autres professionnels de santé, qu'est-ce qu'ils en pensent ? Infirmiers ? Kiné ? Pharmacien ?

D. Perspectives :

- De manière générale, qu'est ce qui, selon vous, pourrait faire changer les personnes contre la vaccination antigrippale ?
- Et vous ?

Voilà cette question concluait mes interrogations. Juste une dernière question : Qu'avez-vous pensé de notre entretien ? Merci beaucoup d'avoir pris le temps de cette discussion avec moi, je vous libère et bonne journée.

17) Si oui pourquoi ? (Problème de transport ? Trouble de la marche ? Inquiétude familiale ?)

.....

18) Estimez-vous vous vivez loin du lieu d'exercice de votre :

Médecin traitant..... OUI NON

Pharmacien..... OUI NON

Infirmière..... OUI NON

19) Recevez-vous, chaque année, la feuille de prise en charge de la Sécurité Sociale pour la vaccination anti grippale ?..... OUI NON

Moyens d'informations :

20) Avez-vous internet ?..... OUI NON

21) Si oui, l'utiliser vous couramment ?..... OUI NON

22) Avez-vous une télévision à la maison ? OUI NON

23) La regarder vous régulièrement ? (Nombre d'heure environ par jour ?) :heure/jour

Vaccination antigrippale :

24) Avez-vous déjà eu la grippe ?..... OUI NON

25) Avez-vous déjà été vacciné contre la grippe ?..... OUI NON

26) Avez-vous déjà eu la grippe alors que vous aviez été vacciné ? ... OUI NON

27) Accepteriez-vous de vous faire vacciner par les autres vaccins recommandés ?

Diphtérie- Tétanos- Poliomyélite (DTPolio) OUI NON

Coqueluche OUI NON

Pneumocoques si recommandé OUI NON

Zona OUI NON

Covid OUI NON

Fait à

Le.....

Signature

FORMULAIRE DE CONSENTEMENT

Titre de la recherche : « Identifier les raisons des réticences à la vaccination anti-grippale chez les personnes de plus de 75ans : Etude qualitative. »

Je, soussigné(e).....,

déclare accepter, librement, et de façon éclairer, de participer comme sujet à l'étude portant sur les freins à la vaccination anti-grippale chez les personnes âgées de plus de 75ans,

Sous la direction du Dr AIDOUUD Amal, Gériatre du CHU et mené par BRAULT Maëlle, interne en 4e semestre du DES de Gériatrie affiliée à l'Université de Médecine de Tours.

L'étude va consister à identifier les raisons des réticences à la vaccination grippale et se déroulera via des entretiens semi-dirigés. Les données recueillies sont anonymes et ne seront en aucun utilisées à d'autres fins que la réalisation de l'étude de ma thèse.

Le consentement pour poursuivre l'étude peut être retiré à tout moment sans donner de raison et sans encourir aucune responsabilité ni conséquence. Les réponses aux questions ont un caractère facultatif et le défaut de réponse n'aura aucune conséquence pour moi.

Je déclare avoir lu et compris la fiche d'information qui m'a été remise et eu la possibilité d'obtenir des informations supplémentaires concernant cette étude.

Toutes les informations concernant les participants seront conservées de façon anonyme et confidentielle. Le traitement informatique n'est pas nominatif, il n'entre pas de ce fait dans la loi Informatique et Liberté. La transmission des informations concernant le participant pour l'expertise ou pour la publication scientifique sera elle aussi anonyme.

L'investigateur s'engage à mener cette étude selon les dispositions éthiques et déontologiques et à préserver absolument la confidentialité et le secret professionnel pour toutes les informations concernant le participant.

Après en avoir discuté et avoir obtenu la réponse à toutes mes questions, j'accepte librement et volontairement de participer à la recherche qui m'est proposée.

Fait à

Le.....

Si vous souhaitez que les résultats de l'étude vous soit communiqués, renseigner votre adresse/mail

Adresse :

.....

Courriel :

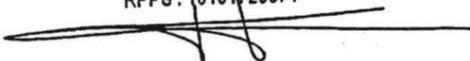
Signatures : Le participant

Dr AIDOUUD Amal

Maëlle BRAULT

Vu, le Directeur de Thèse

Hôpital Bretonneau Tours
Médecin Gériatrique
Dr AIDOU Amal
Praticien Hospitalier
RPPS : 10101723574

A handwritten signature in black ink, consisting of several loops and a long horizontal stroke, positioned below the printed text.

**Vu, le Doyen
De la Faculté de Médecine de Tours
Tours, le**

Braut Maëlle

46 pages ; 2 tableaux ; 1 figure ; 3 documents en annexes

Résumé :

Introduction : Malgré leur vulnérabilité accrue à la grippe, les personnes âgées ne sont pas suffisamment vaccinées contre cette maladie. Cette étude vise à approfondir notre compréhension des perceptions des personnes âgées qui sont réticentes à la vaccination antigrippale, afin d'explorer les facteurs qui influencent leur refus de se faire vacciner.

Méthode : Des entretiens individuels semi-dirigés ont été réalisés avec des participants âgés de 75 ans et plus, qui avaient exprimé leur refus de se faire vacciner contre la grippe. Ces participants ont été recrutés au sein du Centre Hospitalier Régional Universitaire (CHRU) de Tours. L'analyse des données a été effectuée en suivant la méthodologie de la théorie ancrée.

Résultats : Nous avons mené douze entretiens avec des personnes âgées de 76 à 99 ans. Les raisons les plus fréquemment évoquées pour justifier leur refus de se faire vacciner étaient le sentiment d'invulnérabilité face à la maladie, la crainte des effets indésirables et la perception banalisée de la grippe, entre autres. L'hésitation à se faire vacciner était également influencée par l'entourage, en particulier la famille, à travers leurs expériences négatives de la vaccination. Les décisions prises étaient également renforcées par l'opinion des professionnels de santé, soit par leur manque d'implication, soit par leurs recommandations directes. Le concept de la vaccination semblait confus pour plusieurs participants, avec des distorsions du raisonnement émotionnel (croyance en un bon état de santé malgré une fragilité) ou une perception de la vaccination comme une stratégie curative plutôt que préventive. Enfin, de nombreux participants déclaraient néanmoins mettre en œuvre des stratégies préventives telles que l'homéopathie ou le respect des mesures barrières. L'élément le plus fréquemment mentionné comme étant susceptible de favoriser un changement d'attitude et une adhésion à la vaccination était l'incitation de la part du médecin traitant

Discussion : Les personnes âgées qui manifestent une réticence à se faire vacciner contre la grippe ont principalement remis en question la balance bénéfique/risque associée au vaccin. Les influences de l'entourage et des professionnels de santé ont été identifiées comme des facteurs significatifs dans leur décision. Dans le but de promouvoir une meilleure adhésion à la vaccination, il est essentiel de cibler en priorité l'incitation de la part des médecins traitants, ce qui devrait être pris en compte dans les futures campagnes vaccinales.

Mots clés : Vaccination antigrippale, Personnes âgées, Hésitation vaccinale, Vieillesse, Vieillesse/sain/vieillesse, Barrières, Motivations, France

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Date de soutenance : 08/09/2023