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Joaquim Prud'Homm, Aline Corvol, Aude Aguillon, Marine Olivieri,

Valentine Rousseau, Dominique Somme

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# Why choose geriatric medicine? A national survey among French postgraduate medical students.

4 Prud'homm J<sup>1,2</sup>, Corvol A<sup>1,2,3</sup>, Aguillon A<sup>1</sup>, Olivieri M<sup>1</sup>, Rousseau V<sup>1</sup>, Somme D<sup>1,2,3</sup>.

- 6 1 CHU de Rennes, Rennes, France.
- 7 2 Université Rennes 1, Faculté de Médecine, Rennes, France.
- 8 3 Arènes, UMR 6051, Rennes, France.
- 9

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Abstract: Since 2017, geriatric medicine has been available as a postgraduate specialty to 10 11 French year 7 medical students. We investigated the incentives of the 171 French medical 12 students who opted for geriatric medicine as a postgraduate specialty subsequent to year 6 13 national qualifying examinations in 2017. A prospective quantitative survey-based study was 14 conducted by means of a questionnaire compiled online and sent by email between 15 December 2017 and May 2018. The questionnaire comprised 43 questions, including 14 16 single or multiple choice questions, 28 scaled questions evaluating factors of influence using 17 a 5-point Likert scale, and 1 open-ended contingency question. Of the 171 students, 139 18 responses were received. The national response rate to this questionnaire was 81.2%. One 19 hundred fourteen students (82.6 %) had previous experience of training in geriatric medicine, 20 which for 95 (84.0 %) students took place between years 3 and 6 of medical training. This 21 training influenced the choice of 102 respondents (90.2 %). Factors reported as having 22 exerted a strong or very strong influence were in particular the rewards of working with older 23 adults; positive personal encounters with older adults in the past; the appeal of 24 interprofessional teamwork; the challenge of cases involving complex diagnostic and 25 therapeutic decisions; the challenge of patients with chronic conditions. The present study is 26 the first to focus on the reasons why French students choose to specialize in geriatric 27 medicine. The results emphasize the importance of training programs in geriatric medicine to 28 promote enthusiasm for this specialty.

- 30 Word counts for the abstract: 244
- 31
- 32 Key words: geriatrics training, geriatrics career, students' incentives, students' preferences

#### 33 INTRODUCTION

34 As of January 1 2018, the number of individuals over the age of 60 in France was estimated 35 at 13 146 259 (19.5% of the population) and those aged over 75 years at 6 149 436 (9.1%) 36 [1]. The number of geriatricians was 1781 (1 geriatrician per 3452 inhabitants) [2]. Although 37 a consensus of a European undergraduate and postgraduate curriculum in geriatric 38 medicine has been agreed, geriatricians' national curricula and certificates vary [3, 4, 5, 6, 7]. The timeframe of the harmonization of these curricula is difficult to define at the present 39 40 time. Nevertheless, the shortness of the Geriatrics medical workforce is an international 41 concern. In France, geriatric medicine was recognized as a specialty by French health 42 authorities in 2004 [8]. Virtually all geriatricians practice as salaried employees [2]. As a 43 specialty, its potential to recruit physicians is limited as demonstrated by the fact that public 44 sector vacancies tend to remain unfilled [9].

45

French medical studies are made up of three 'cycles' [10, 11, 12]. The first 3 years begin with 46 47 a basic foundation year leading to selection by competitive examination of students eligible 48 to pursue. Successful completion of years 1-3 corresponds to an undergraduate degree. 49 Successful completion of years 4-6 awards a qualification corresponding to a Master's 50 degree. During these 3 years, theoretical and practical training are combined to include 51 clinical internships usually lasting 3 months and undertaken in various hospital departments 52 as well as in private practice. Students may work as interns in years 6 and 7 during their 53 vacation time. The final phase of medical studies spans a period of 3-6 years during which 54 time students work as full-time interns within hospital medical teams or in private practice 55 under the supervision of senior physicians in charge of their training. On successful completion of internships, teaching modules and doctoral thesis, interns graduate as fully 56 57 qualified doctors of medicine together with postgraduate qualifications in their chosen 58 specialty.

60 Since 2004, year 6 students have taken national ranking examinations as a prerequisite to 61 the final years of medical study [13]. In 2017, 8372 year 6 students were ranked from first to 62 last subsequent to written computer-based examinations [14, 15]. Ranking affords students 63 precedence over others in their choice of specialty and place of study subject to the number 64 of places made available by the Ministry of Health and Higher Education [16]. Decisions are 65 therefore dictated not just by choice of specialty but also by choice of prospective town of 66 study. The selection process takes place in two phases: firstly students apply for specialty 67 and town of study by compiling a non-exhaustive list of wishes by order of preference; next a 68 final choice is made by means of the national selection process.

69

70 Reforms in 2016 to the final years of medical studies in France resulted in the creation of a 71 diploma of specialized studies in geriatric medicine [17, 18]. The following year, finishing 72 year 6 French medical students were in 2017 able to opt for this medical specialty for the 73 first time subsequent to national ranking examinations. Of the 200 posts in geriatric medicine 74 on offer throughout France, 171 were filled via the national selection process, demonstrating 75 a recruitment rate of 86%. By comparison, the average rate of recruitment via national 76 ranking examination across all medical specialties excluding general medicine is 98% [9, 77 19]. Against a backdrop of limited attractiveness of this recently created geriatric specialty, 78 we have attempted to document why these year 7 French students decided to lead the way 79 in choosing to specialize in geriatric medicine in 2017.

#### 80 METHODS

81 We conducted a nationwide prospective quantitative study in France by means of a 82 questionnaire compiled online using the Surveymonkey fr website. The study population 83 involved French 7 years medical students enrolled in a specialized postgraduate study 84 program in geriatric medicine in 2017. Mean ranking of students enrolled in specialized 85 studies programs in geriatric medicine subsequent to national ranking examinations was 5922 +- 1613. Reconstructive plastic and cosmetic surgery obtained the highest mean 86 87 student ranking (706 +- 335) and occupational health and medicine (6756 +- 1440) obtained 88 the lowest [9, 19]. Hence, a large proportion of students had no choice but to opt for geriatric 89 medicine as a means of pursuing their studies in a given town whereas the opposite (i.e. no 90 possibility of opting for geriatric medicine notwithstanding the availability of other specialties 91 in that particular town) was a much rarer occurrence [9, 19].

92

93 The questionnaire items were designed to assess why interns chose geriatric medicine. 94 Given that the respondents had also decided on their town of study by this stage, certain 95 questions focused specifically on this criteria so as to determine any relative precedence of 96 one choice factor over the other. The questionnaire items compiled were based on 97 hypotheses adapted from a previous United Kingdom study conducted in 2016 [20]. The 98 questionnaire consisted of 43 questions: 14 single or multiple choice questions, 28 scaled 99 questions evaluating factors of influence using a 5-point Likert scale and 1 open-ended 100 contingency question. These questionnaire items were designed to gain insight into the 101 incentives underlying student choices based on their perceptions of geriatric medicine, 102 subject to the student's ranking. We therefore investigated immediate incentives (those 103 present regardless of student ranking) and second-best incentives (incentives related to the 104 fact that another choice probably better suited to a student was no longer available). There 105 are elements pertaining to student perceptions of geriatric medicine in the questionnaire that 106 in the present context have not been scrutinized for accuracy but simply reflect whether or 107 not they have an impact on decisions. For instance, rather than investigating whether the

108 respondents thought that it was easier to pursue an academic career in geriatric medicine 109 than in another specialty, we merely examined whether this was an influencing factor in their 110 choice (it was not a matter of whether this opinion was true or not, which in itself could 111 constitute subject matter for further research). For each choice factor, the 5-point Likert scale 112 ranged from "very little influence" to "very strong influence". The factors rated by the Likert 113 scale were presented to the respondents in random order. Responses to these factors were sorted into 3 groups: 1 "strong or very strong" response group whereby 50% or more of the 114 students responded by "strong influence" or "very strong influence"; 1 "little or very little 115 influence" response group whereby 50% or more of the students responded by "little 116 influence" or "very little influence"; and 1 so-called "homogeneous influence" response group 117 118 where the distribution of responses to the various influencing factors was consistent with 119 neither of the above groups. The questionnaire was tested for comprehensibility and ease of 120 response selection by 3 students enrolled in a specialized complementary studies program 121 in geriatric medicine and was adjusted in line with their comments. The present study took 122 place between December 2017 and May 2018. The questionnaire was conveyed to the 123 appropriate interns by email through a professor, local coordinator of the Geriatric diploma, 124 of each faculty. A total of 3 reminder emails were sent. The responses were collected 125 anonymously. The questionnaire is provided in Supplement (Supplementary Text S1).

126

127 The analysis presented is essentially descriptive. Continuous variables are expressed as 128 mean +- standard deviation. Categorical variables are expressed as counts and/or 129 percentages. The calculations were computed using Microsoft Excel (2010) ® software.

#### 130 RESULTS

We received 142 responses out of a population of 171 individuals. Three duplicate 131 132 responses were excluded. The total national response rate to this questionnaire was 81.2% 133 (139/171). Mean completion rate per questionnaire was 88.0%. We received 130 (91.5 %) 134 responses within the first 3 months of the study, corresponding to the 2nd to 5th month 135 period following the beginning of year 7 for the respondents. Of the 139 responses, 97 were provided by female (69.7%) and 42 by male respondents (30.3%). Mean age of the 136 137 respondents was 25.9 years +- 1.5 years. Thus, 119 (85.61 %) students had completed 138 years 4-6 of their medical studies in France and 20 (14.3 %) abroad.

139

One hundred and fourteen students (82.6 %) who opted for geriatric medicine had already 140 141 gained experience in geriatric training. Thus, 95 (84.0 %) of these students took part in 142 geriatric training between years 4-6 of their medical studies, 10 (8.8 %) had worked as 143 interns, and 9 (7.2 %) had taken part in several training programs over the course of their 144 studies. Geriatric training programs influenced choice of specialty in 102 students (90.2%). 145 Sixty students (43.8%) decided on their choice of specialty during years 4-6 of their medical 146 training, 51 students (37.2%) during the vacation between year 6 and the national selection 147 process, 15 (10.9%) as acting interns, and 11 (8.0%) at the last moment, namely when a 148 final decision was due. None of the students reported having already chosen their specialty 149 before admission to a faculty of medicine or during years 1-3 of their medical training.

150

Geriatric medicine was the first-choice specialty requested in the national selection process for 83 students (60.5%). Of the remaining students, 36 (73.4%) opted for a medical specialty as their first choice. In cases where geriatric medicine was not the first-choice specialty, mean rank of preference for this option was 2.3 +- 0.7 (including 4 outliers: rank of preference 12, 18, 27 and 42). Seventy-five students (54.7%) rated choice of specialty as equally as important as choice of town; 54 students (39.4%) rated choice of specialty as more important than choice of town; 8 students (5.8%) judged choice of town to be moreimportant than choice of specialty.

159

160 Of the 28 factors evaluated by a 5-point Likert scale, 7 (25%) had a strong or very strong 161 influence on why students decided to specialize in geriatric medicine (Table 1). It is noteworthy that none of the students responded "very little influence" or "little influence" to 162 the factor "rewards of working with older adults". Eleven factors (40%) were judged to have 163 164 little or very little influence on why students chose to specialize in geriatric medicine (Table 165 2). The factors underlying the second-best specialty decisions analyzed (no other specialty 166 of interest or no possibility of choosing internal medicine whatever the faculty) emerged as 167 the factors having the least influence on choice of specialty. The 10 other factors (35%) had 168 a homogeneous influence (Table 3). Within this category, rate of occurrence of the response "strong influence" or "very strong influence" on choice of specialty ranged from 24.6% 169 170 (regarding high nationwide esteem for geriatric medicine which thus appears to have little 171 impact) to 42.0% (regarding greater ease in finding employment after geriatric training by 172 comparison with other specialties as expressed by a non-negligible proportion of the 173 respondents). Conversely, rate of occurrence of the response "little influence" or "very little 174 influence" ranged from 46.2% (regarding status of faculty of medicine which is therefore of 175 little consequence) to 21.4% (regarding a preference for salaried employment as expressed 176 by a non-negligible proportion of the respondents).

177

178 Lastly, 123 students (97.6%) replied "no" to the question "Do you regret your decision to179 specialize in geriatric medicine?"

180 DISCUSSION

This pioneering study describes the characteristics of the first students to enroll in a diploma of specialized studies in geriatric medicine in France and their incentives for choosing this specialty when it was recognized as such via reform to the final years of medical training.

Our results highlight the importance of training programs in geriatrics in the course of medical studies. The responses to our questionnaire confirm that there is a greater likelihood of students making a well-informed, constructive decision to specialize in geriatric medicine as a result of such training experience.

189

190 We then attempted to determine the incentives for choosing to specialize in geriatric 191 medicine using a pragmatic approach [21]. The first conclusions to be drawn from this 192 survey are that second-best options have little or very little influence on choice of specialty. 193 Furthermore, the incentive criteria that we proposed can be classified according to Max 194 Weber's theory of behavior, whereby individuals act in line with various types of rationality 195 [22]: a) purposeful rational behavior (i.e. behavior emphasizing life balance, stability, nature 196 of work and status); b) value-oriented behavior (i.e. ethical behavior in accordance with 197 one's beliefs and values); c) behavior shaped by emotion (i.e. acting on impulse/frame of 198 mind). Most of our factors underpinning choice ultimately pertained to purposeful rational 199 behavior (26/28). It is therefore likely that we underestimated incentives stemming from 200 values or emotions. It is however noteworthy that the factor demonstrating the highest level 201 of influence on choice of geriatric medicine as a specialty corresponds to "value-oriented 202 behavior" (rewards of working with older adults), and that the factor related to behavior 203 shaped by "emotion" (positive personal encounters with older adults in the past) was also 204 one of the top 5 factors with strong or very strong influence. Ultimately, the remaining three top 5 factors were rational and reflected the fundamental characteristics of geriatric care 205 206 (interdisciplinary teamwork, complexity, multimorbidity) above and beyond any 207 considerations of career prospects or choice of town. Analysis of our results reflects the fact

208 that the decision to specialize in geriatric medicine resulted from quite well-informed 209 knowledge of practice in this field, and was therefore a constructive decision rather than a 210 second-best option. These results are consistent with those obtained by Fisher et al. in the 211 United Kingdom [20] and the meta-analysis by Meiboom et al. [23]. It is of interest that in 212 both of these studies, physicians opting for geriatric medicine were shown to display greater 213 enthusiasm for complexity and interdisciplinary teamwork than their counterparts. Fisher et 214 al. surveyed 269 geriatricians who had for the most part been practicing for 3 to 5 years and 215 who demonstrated a very strong affinity for the field (which was named as first-choice specialty by 93.4% of the respondents, exceeding our rate of 60.5%) [20]. Conversely 216 217 Meiboom et al. surveyed individuals who had not opted for a career in this field because they 218 felt uncomfortable with the inappropriateness of standard guidelines resulting from the high 219 complexity of the conditions involved [23], whereas we reported in the present study that 220 complexity was one of the five factors having strong or very strong influence on selection of 221 this specialty.

222

The major strength of the present study is its very high response rate, with a national response rate of 81.2%. Its main limitation is absence of a social desirability test which may have caused bias in the student responses [24].

226

227 In conclusion, in the light of contemporary challenges in terms of demographics and epidemiology, it appears important to promote the development of geriatric medicine as a 228 229 specialty. The present pioneering study involving students enrolled in a specialized 230 postgraduate study program in geriatric medicine has highlighted the importance of geriatric 231 training programs during years 4-6 of medical studies. Our results confirm that students 232 make a constructive decision to pursue this career path, inspired by a desire to work with 233 older patients, the benefits of interdisciplinary teamwork and the challenge of complex 234 clinical cases. Further research is required to investigate why other students have so far 235 shunned this career path.

237 Words count for the main text: 2500

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### 319 TABLES

Factors influencing postgraduate choice of geriatric medicine as a specialty	Rate of occurrence of high/very high influence response
rewards of working with older adults	88.8
challenge of cases involving complex diagnostic and therapeutic decisions	85.7
appeal of interprofessional teamwork	83.3
opportunities for developing a wide range of professional skills (in relation to acute geriatric units, rehabilitation departments, long term chronic care facilities etc.)	77.7
positive personal encounters with older adults in the past	70.6
challenge of patients with chronic conditions	65.8
extraprofessional lure of region of study	61.9

320

321 Table 1: Factors receiving over 50% of responses related to "strong" or "very strong"

322 influence on decision of respondent (choice of geriatric medicine as specialty in a given

323 faculty). Reading of percentage analysis: higher percentage is commensurate with higher

324 level of influence on decision of respondents.

.0			
	Factors influencing postgraduate choice of geriatric medicine as a specialty	Rate of occurrence of little/very little influence response	
•	speciality		
	easier to have more free time in geriatric medicine than in other specialties	52.3	
i	nformation initiatives from prospective team during selection period	55.5	
,	wariness of private practice	56.3	
I	renown of international geriatric scientific community	57.9	
ļ	ocal travel time between various internship and training facilities	58.1	
I	prestige of geriatric medicine as a profession in France	65.8	
t	ravel time from town of study to Paris	67.4	
I	no other specialty of interest in town of study	70.6	
(	nformation initiatives from French Society of Geriatrics and Gerontology and/or Association for Young Hospital Geriatricians during selection period	73.0	
(	doubts over coping with any another medical specialty	83.3	
I	no possibility of opting for internal medicine as a specialty	85.7	

327 Table 2: Factors receiving over 50% of responses related to "little" or "very little" influence on

328 decision of respondent (choice of geriatric medicine as a specialty in a given faculty).

329 Reading of percentage analysis: higher percentage is commensurate with lower level of

330 influence on decision of respondents.

	Factors influencing postgraduate choice of geriatric	Rate of	Rate of
	medicine as a specialty	occurrence of	occurrence of
		strong/very	little/very little
		strong influence	influence
		response	response
	greater availability of hospital posts after geriatric training programs	42.0	35.7
	prestige of academic geriatricians from prospective town of study	41.2	34.9
	French population figures	40.4	30.1
	travel time from town of study to home town	36.5	42.0
	value of prospectus for diploma of specialized studies in geriatric medicine in Official Journal	34.1	39.6
	preference for salaried employment	34.1	32.5
	greater academic career prospects in geriatric medicine	32.5	21.4
	working conditions at geriatric department in town of study	31.7	35.7
	prestige of faculty of medicine	25.4	46.2
	high national renown of geriatric teaching	24.6	35.7
22			

333 Table 3: Factors receiving less than 50% of responses regarding "strong"/"very strong

influence and less than 50% of "little"/"very little" influence on choice of respondents (choice

335 of geriatric medicine as a specialty in a given faculty).

336 SUPPLEMENTS337 Annex 1 Questionnaire338

339 Dear Colleague,

340

My name is Joaquim Prud'homm, and I am a chief resident-assistant physician in geriatric medicine at Rennes (France). As part of my postgraduate complementary specialized study thesis, I have taken a particular interest in the reasons why students choose to specialize in geriatric medicine. My research work has the support of the National College of Geriatric Teaching Staff, which explains why the academic supervisor of your university town has been informed.

347

348 I would therefore like to ask you to fill in a questionnaire. It will only take 10 minutes and I am 349 grateful for your time. Please feel free to contact me if you encounter any technical 350 problems. I would also be grateful for your email address so as to inform you, should you so 351 wish, of the results of my research work.

352

I intend to store the data acquired offline, ensuring of course that no access to personal data
is available to academic supervisors. Data analysis will be strictly anonymous and will be
classified in such a way as to rule out any individual identification.

356

357 The aim of my study is to gain better insight into your needs and expectations. Thank you358 once again for your time.

- 359
- 360 Joaquim
- 361

362

363

- 365 Choice of Geriatric Medicine as Graduate Specialty
- 366 1. Are you: male/female?
- 367 2. How old are you?
- 368 3. Have you been studying medicine in France? Yes/No
- 369 4. At which faculty were you enrolled when geriatric modules were taught between years 3-6
- 370 of your medical training? Name of French faculty of medicine to be selected from a
- 371 dropdown list
- 5. At which faculty are you enrolled in a specialized postgraduate study program? Name of
- 373 French faculty of medicine in to be selected from a dropdown list
- 6. Have you had experience of training in a department of geriatric medicine in the course ofyour studies? Yes/No
- 376 7. In what capacity? Paramedical training/Year 3-6 student/Acting intern/Other (please377 specify)
- 378 8. Did geriatric training influence your decision? Yes/No
- 9. When exactly did you decide to specialize in geriatric medicine? Before admission to
  faculty of medicine or during first 3 years/During years 3-6 of medical training/During the
  vacation period between years 6 and 7/While acting as an intern/Last minute decision at final
  selection stage
- 383 10. Which criteria is more important to you, specialty or town of study? Town of study more
  384 than specialty/Specialty more than town of study/Specialty just as important as town/No
  385 notion of choice
- 386 11. Was geriatric medicine your first-choice specialty (discounting town of study)? Yes/No
- 387 12. What was your first-choice specialty? Medical/surgical specialty to be selected from a
- 388 dropdown list (contingency question if the respondent ticked "No" to question 11)
- 389 13. Where did you place geriatric medicine in your order of specialty preference (regardless
- 390 of whether or not you were awarded your town of study)?

- 391 14. Please indicate the level of influence of the following factors on your final choice of
- 392 specialty and town of study: (response options for each factor: very little influence, little
- 393 influence, moderate influence, strong influence, very strong influence)
- 394 Greater prospects for an academic career in geriatric medicine
- 395 Greater availability of hospital posts after geriatric training
- 396 Doubts over coping with any other medical specialty
- 397 Wariness of private practice
- 398 No possibility of opting for internal medicine as a specialty
- 399 No other specialty of interest in town of study
- 400 French demographics
- 401 Travel time from town of study to Paris
- 402 Travel time from town of study to home town
- 403 Local travel time between various internship and training facilities
- 404 Extraprofessional lure of region of study
- 405 Prestige of prospective faculty of medicine
- 406 Prestige of academic geriatricians in prospective town of study
- 407 Information initiatives from prospective team during selection period
- 408 Information initiatives from French Society of Geriatrics and Gerontology and/or Association
- 409 for Young Hospital Geriatricians during selection period
- 410 Preference for salaried employment
- 411 Opportunities for developing a wide range of professional skills (in relation to acute geriatric
- 412 units, rehabilitation departments, long term chronic care facilities etc.)
- 413 Value of prospectus for diploma of specialized studies in geriatric medicine in Official
- 414 Journal
- 415 High national renown of geriatric teaching
- 416 Renown of international geriatric scientific community
- 417 Working conditions at geriatric department in town of study
- 418 Rewards of working with older adults

- 419 Appeal of interprofessional teamwork
- 420 Challenge of cases involving complex diagnostic and therapeutic decisions
- 421 Challenge of patients with chronic conditions
- 422 Positive personal encounters with older adults in the past (outside the workplace)
- 423 Prestige of geriatric medicine as a profession in France
- 424 Easier to have more free time in geriatric medicine than in other specialties
- 425 15. Do you regret choosing geriatric medicine as a specialty? Yes/No
- 426 16. Please give your reasons in one sentence (contingency question if the respondent ticked
- 427 "No" to question 15)
- 428
- 429 Thank you for filling in this questionnaire. We would like to get to know you better. It is highly
- 430 likely there will be a follow-up study within a few years with a view to comparing present-day
- data with potential data in the future. If you are willing, please provide the details below.
- 432 Name (optional)
- 433 First name (optional)
- 434 National ranking (optional)
- 435 Email address (optional)
- 436

437 For further information, please contact us at the following email address:

438 joaquim.prud'homm@chu-rennes.fr

439

440 Links to articles:

441 –Fisher, James Michael, Mark J. Garside, Peter Brock, Vicky Gibson, Kelly Hunt, Sally
442 Briggs, and Adam Lee Gordon. "Why Geriatric Medicine? A Survey of UK Specialist
443 Trainees in Geriatric Medicine." Age and Ageing 46, no. 4 (July 1, 2017): 672–77.
444 <u>https://doi.org/10.1093/ageing/afx009</u>. http://eprints.nottingham.ac.uk/39459/

-Meiboom, Ariadne A., Henk de Vries, Cees M.P.M. Hertogh, and Fedde Scheele. "Why
Medical Students Do Not Choose a Career in Geriatrics: A Systematic Review." BMC

- 447 Medical Education 15 (June 5, 2015). <u>https://doi.org/10.1186/s12909-015-0384-4</u>.
- 448 https://bmcmededuc.biomedcentral.com/articles/10.1186/s12909-015-0384-4