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Prosthetic and Orthotic Students' attitudes towards addressing sexual health in their future profession

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Abstract

Study design

Cross-sectional study

Background

Prosthetists and Orthotists have a responsibility to direct treatment towards enabling their clients to perform desired activities and to facilitate participation of their clients in all areas of life. This may include provision of assistive technologies to help clients meet goals related to participation in sexual activities. To help prosthetic and orthotic (P&O) students develop competencies in dealing with the sexual health of their future clients, it is necessary to generate knowledge of their own perceived competence and capacity.

Objectives

To explore P&O students' attitudes and competence towards working with sexual health and to evaluate reliability and validity of the Students' Attitudes Towards Addressing Sexual Health questionnaire (SA-SH).

Methods

Students enrolled in all three years of an undergraduate P&O program were requested to complete the SA-SH questionnaire (n=65). Reliability and validity were evaluated using the Content Validity Index (CVI) and Chronbach's alpha.

Results

Students felt unprepared to talk about sexual health with future clients and thought that they would be embarrassed if they raised the issue. No differences were identified

between students enrolled in each of the three years of the program and few differences were observed between male and female students. CVI values were low but improved as the students' level of education increased. Internal consistency of the questionnaire was acceptable ($\alpha=0.86$).

Conclusions

Prosthetic and orthotic students are unprepared to address sexual health issues with their future clients. There is a need to provide students with training related to sexual health issues.

(Word count = 243)

Key words

Sexual health, Education, Rehabilitation, Prosthetics, Orthotics

Clinical Relevance statement (word count =47)

This study indicates the need for additional education of prosthetic and orthotic students in issues related to sexual health and how to address sexual health issues with clients.

Results can be used to develop training programs for students and will serve to improve the sexual health of individuals who receive prosthetic and orthotic services.

1 **Background**

2 Persons with physical disabilities have an interest
3 and desire for sexual expression which often goes
4 unrecognized. A consequence of this is that they
5 often experience low sexual esteem and decreased
6 sexual health³. Many of the client groups regularly
7 managed by prosthetist/orthotists have been
8 identified as experiencing sexual health problems.

Sexual health is defined by the World Health Organization as, “a state of physical, emotional, mental and social well-being in relation to sexuality¹⁴”. Achieving sexual health and wellbeing without fear, discrimination, threat, or violence is recognized as a fundamental human right²

9 These individuals include people who have had a stroke^{4,5}, individuals with cerebral
10 palsy^{6,7}, persons with spinal cord injuries^{8,9} and those who have undergone an
11 amputation¹⁰⁻¹².

12 Clients often feel uncomfortable in initiating discussions about sexual issues with health
13 professionals and indicate that they expect the clinician to initiate discussion related to
14 the topic^{13,14}. Unfortunately, many medically trained professionals are not comfortable
15 in discussing sexual health issues either and discussions related to sexual wellbeing are
16 subsequently neglected¹⁵. In a survey of amputation team members, including
17 prosthetists, 78% of participants indicated that they had not received any questions
18 about sexuality in the four weeks prior to administration of the survey, while 67%
19 reported that they did not address sexuality with their clients¹⁶. Prosthetists have rated

20 their self-perceived knowledge and ability to recognize sexual problems as
21 “insufficient”¹⁶.

22 In accordance with the International Classification of Functioning Disability and Health
23 (ICF) model, health professionals have a responsibility to direct treatment towards
24 enabling their clients to perform desired activities and to facilitate participation of their
25 clients in all areas of life ^{14, 17}. As providers of assistive technologies,
26 prosthetist/orthotists can play an important role in helping their clients to meet goals
27 related to participation in sexual activities, as a means of maintaining or establishing
28 sexual relationships. Individuals who have undergone an amputation have indicated that
29 development of prostheses and assistive devices to facilitate sexual activity would
30 improve their sexual life ¹⁸. These could include, orthoses to facilitate positioning ¹⁹ ,
31 limb prostheses specifically for sexuality-related reasons ²⁰ and cosmetic prostheses to
32 enhance a person’s perceived body image and attractiveness¹².

33 There are numerous factors which influence the ability of health professionals to
34 address issues related to sexual health. Personal attitudes and beliefs can affect a
35 professional’s level of comfort in addressing sexual health issues²¹, while the level of
36 communicative training received in dealing with sexual health issues has also been
37 demonstrated to affect level of knowledge, conversational skills, recognition of sexual
38 problems and personal comfort¹⁴. Failure of health professionals to recognize sexual
39 health issues means that they may remain unresolved.

40 To develop an educational intervention which will allow prosthetic and orthotic students
41 to feel competent and able to assist in improving sexual health for their future clients, it
42 is vital to create knowledge of their own perceived competence and capacity as well as
43 their educational needs in this field. In a recent study of Swedish occupational therapy,
44 physiotherapy and nursing students, respondents expressed a need for increased sexual
45 health education and improved communication skills regarding sexual health²².

46 Interestingly, this study identified differences in attitudes of working with sexual health
47 between students studying in different programs, with occupational therapy and nursing
48 students demonstrating a more positive attitude towards working with sexual health
49 issues than physiotherapy students. Given that prosthetic and orthotic students were not
50 included in these, or any other studies related to professional attitudes and competencies
51 in sexual health issues, there is a need to explore the topic further. To enable
52 comparisons with students from other professions, it is beneficial if studies involving
53 prosthetic and orthotic students utilise the same instrument, Students' Attitudes towards
54 addressing Sexual Health questionnaire (SA-SH) ²².

55 The aim of the present study was to explore prosthetic and orthotic students' attitudes
56 and perceived competence towards working with sexual health in their future
57 profession. Given that psychometrics of questionnaires may differ in various
58 populations, the study also aimed to evaluate aspects of reliability and validity of the

59 Students' Attitudes Towards Addressing Sexual Health questionnaire (SA-SH) for
60 prosthetic and orthotic students.

61

62 **Methods**

63 Participants

64 Sixty-five of a total of 81 students enrolled in all three years of an undergraduate
65 prosthetic and orthotic program responded to the survey (80%). The sample size was
66 determined by the number of students enrolled in the program, which is the only
67 program educating prosthetist/orthotists in Sweden. All students present at the time of
68 data collection agreed to participate and there was no missing data. The mean age of
69 participants was 24 years (SD= 5; range 19-41) and most respondents were women
70 (n=43).

71

72 Procedures

73 The paper-based SA-SH questionnaire, with written information about the study, was
74 distributed during face-to-face lectures to all prosthetic and orthotic students enrolled at
75 a Swedish University. The questionnaire was distributed approximately half-way
76 through the academic year, in January 2017. The procedure was chosen to enhance the

77 response rate and avoid low response bias²³. Prior to receiving the questionnaire,
78 students were given verbal information concerning the study and were assured that
79 participation was voluntary and confidential. Students had the option to openly decline
80 to answer the questionnaire, to answer the questionnaire, or to hand in the questionnaire
81 unanswered/partly answered.

82

83 The SA-SH questionnaire

84 The SA-SH questionnaire addresses student attitudes towards addressing sexual health
85 issues in their future profession. The SA-SH is comprised of 22 items distributed across
86 four domains; present feelings of comfort in addressing sexual health, future working
87 environment, fear of negative influence on future client relations and educational needs
88 ²². Items within the questionnaire are to be answered on a Likert scale with five
89 options: disagree, partly disagree, partly agree, agree, and strongly agree. Items 9-14,
90 and 16-18 were reversed for analysis as these items were phrased in a negative way
91 compared to all other items²⁴. Descriptive questions related to gender, age, and
92 educational level within the program are also included.

93

94 Analysis

95 Descriptive statistics were used to analyse each item within the SA-SH questionnaire.
96 Boxplots were used to show all 22 items for the entire group of respondents in medians,
97 quartiles (25 and 75%) and the lowest and highest values that were not outliers (1.5 x
98 IQR). The Kruskal-Wallis test was used to determine if differences existed between
99 students enrolled in each of the three years of the program while a Mann-Whitney test
100 was used to determine differences between male and female respondents.

101 All analyses were performed in SPSS version 21 (IBM Corp., Armonk, NY, USA). The
102 significance level was set at $p < 0.05$. When the Kruskal-Wallis test was applied, a
103 Bonferroni adjustment was made to account for multiple comparisons ($p < 0.017$).

104

105 Psychometric testing of the SA-SH

106 The SA-SH has been demonstrated as valid and reliable for students representing
107 numerous healthcare professions^{22, 25} but has not previously been used with prosthetic
108 and orthotic students. As a result, some psychometric testing was considered necessary
109 in this pilot study. The psychometric testing of the SA-SH for prosthetic and orthotic
110 students was conducted by computing the Content Validity Index (CVI) and by
111 investigating internal consistency of items in the questionnaire. The CVI was used to
112 assess the relevance of each item on a four-point scale (1 = extremely relevant, 2 = quite
113 relevant, 3 = slightly relevant, 4 = not relevant). The scale was dichotomized by

114 combining extremely relevant/quite relevant (1 & 2) in one group and slightly
115 relevant/not relevant (3 & 4) in the other group. Relevance recommendations are, item-
116 level CVI (I-CVI) >0.78 per item and sum of the CVI (S-CVI) for each item >0.90^{26, 27}.
117 Reliability, measured as internal consistency, was analysed using Cronbach's alpha,
118 with a Cronbach's alpha of 0.70–0.95 considered as an acceptable range²⁸.

119

120 Ethics

121 Ethical issues have been considered and informed consent to participate in the study
122 was obtained by answering the questionnaire, after being given verbal and written
123 information regarding the study. The data collected were anonymous to the researcher
124 analysing the results and no identification, such as name or student identification, was
125 used on the questionnaires. This study does not fall under Swedish law for ethical
126 approval but was approved by the head of the department.

127

128 **Results**

129 Table 1 presents the number of students and responses per year level. Descriptive
130 results for each item included in the questionnaire are presented for each domain
131 (figures 1-4). In relation to comfortableness (fig 1), the sex and cultural background of

132 clients appeared to influence how comfortable students felt in discussing sexual health
133 issues. In general, students felt unprepared to talk about sexual health with future
134 clients. The students believed that future clients might feel embarrassed and uneasy if
135 they brought up sexual issues and that such conversations might create a distance
136 between them and their client (fig 2). They also indicated that they would not take time
137 to deal with client's sexual issues in their future profession (fig 2).

138 The students agreed that their future colleagues would feel uneasy if the student, as a
139 future professional, brought up issues related to sexual health and thought that their
140 future colleagues would be uncomfortable and reluctant to talk about sexual health
141 issues. (fig 3). Students indicated that they had received education about sexual health
142 but did not have sufficient competence to discuss issues with future clients (fig 4).

143 No significant difference was observed in item responses when comparing students
144 from years 1,2 and 3 of the prosthetics and orthotics undergraduate program ($p>0.05$).

145 Significant differences between male and female students were observed in questions
146 15; I will take time to deal with clients' sexual issues in my future profession ($p=0.002$)
147 and question 21; I have sufficient competence to talk about sexual health with my future
148 clients ($p=0.036$). In both cases, female students were more positive in their responses
149 than male students.

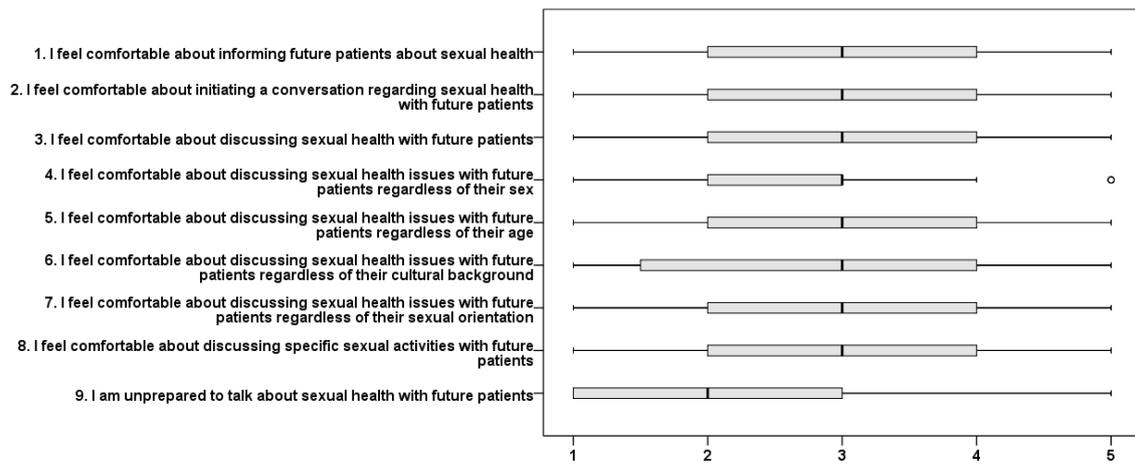
150

151

Education level	Registered students	Responses	I-CVI, variance for all items	S-CVI/A	Students scoring items as relevant or highly relevant (median)
Year 1	35	23 (66%)	0.33-0.70	0.52	0.61
Year 2	25	24 (95%)	0.52-0.83	0.67	0.82
Year 3	21	18 (86%)	0.52-0.83	0.69	0.98

152 *Table 1.* Participants, responses received, Item-level CVI (I-CVI) variance, sum of the
153 CVI (S-CVI) results and median values regarding how students' scored the relevance of
154 each question.

155



156

157 **Fig. 1** Present feelings of comfort in addressing sexual health (9 variables) boxes

158 depict medians and quartiles while whiskers represent lowest and highest values that

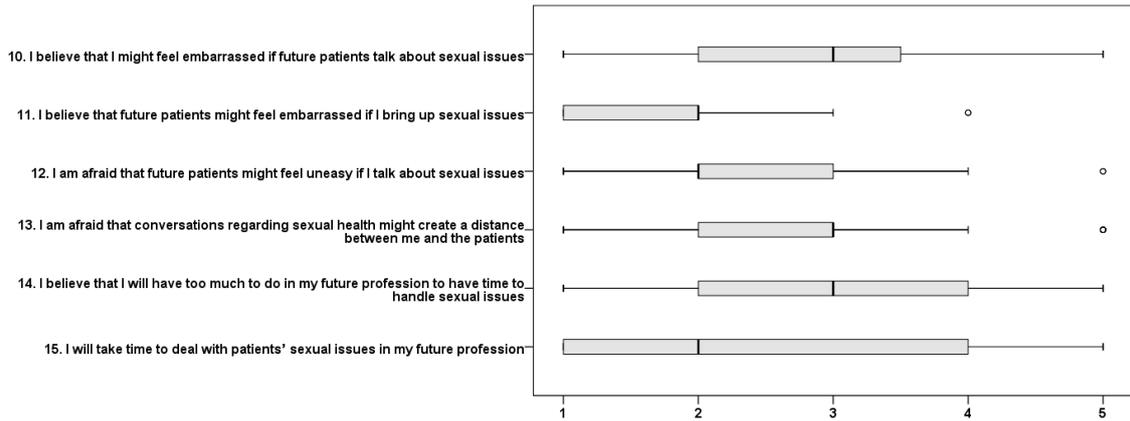
159 are not outliers (°). 1=disagree, 2=partly disagree, 3=partly agree, 4=agree,

160 5=strongly agree.

161

162

163

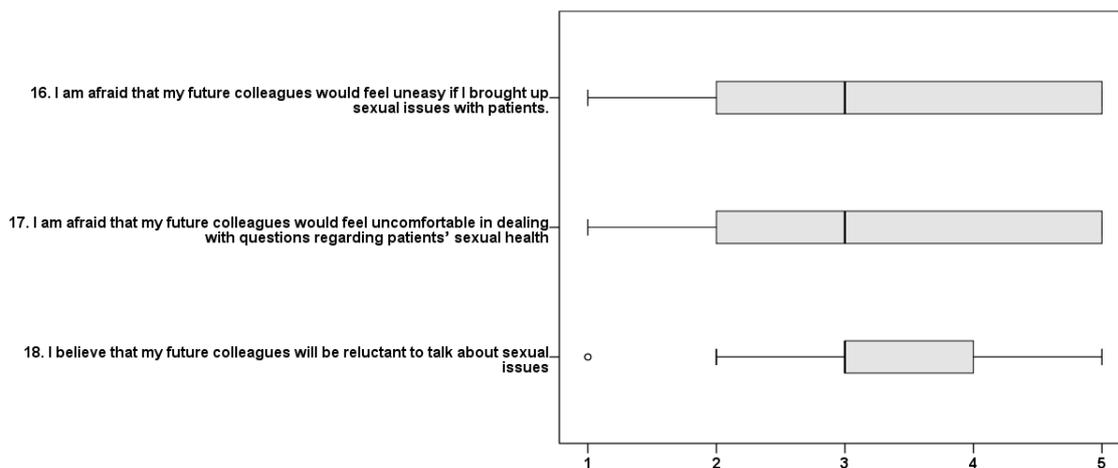


164

165

166 **Fig 2** Future working environment (6 variables) boxes depict medians and quartiles
167 while whiskers represent lowest and highest values that are not outliers (°). 1=disagree,
168 2=partly disagree, 3=partly agree, 4=agree, 5=strongly agree.

169



170

171

172 **Fig.3** Future colleagues (3 variables) boxes depict medians and quartiles while

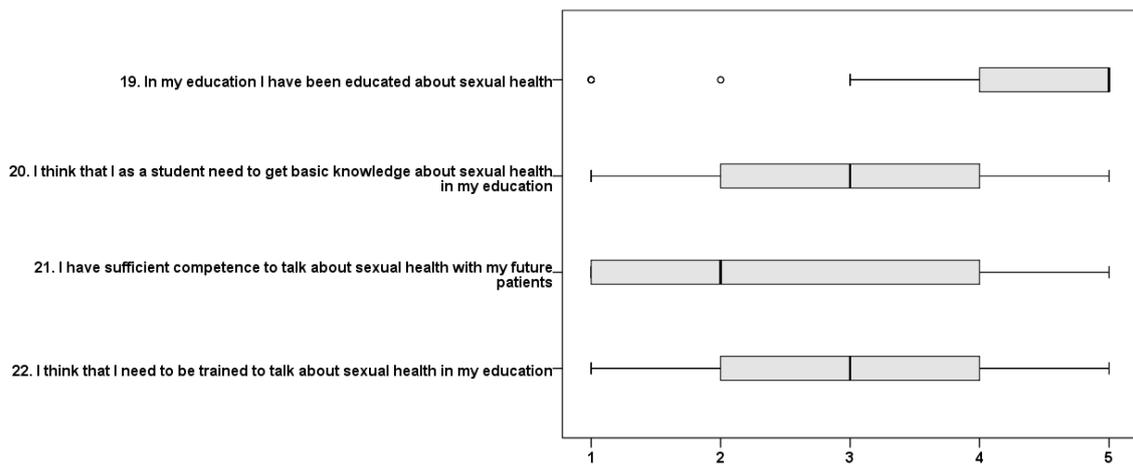
173 whiskers represent lowest and highest values that are not outliers (°). 1=disagree,

174 2=partly disagree, 3=partly agree, 4=agree, 5=strongly agree.

175

176

177



178

179 **Fig. 4** Education (4 variables) boxes depict medians and quartiles while whiskers
180 represent lowest and highest values that are not outliers (°). 1=disagree, 2=partly
181 disagree, 3=partly agree, 4=agree, 5=strongly agree.

182

183

184

185 Reliability and Validity

186 Item-level CVI (I-CVI) and sum of the CVI (S-CVI) results are presented in table 1.

187 Results indicated that items were not considered relevant enough, by the students, to

188 reach the set goals for I-CVI and S-CVI, but there is improvement as students' progress

189 through their education. There was a great deal of variance between individuals in the

190 rated relevance of items. Ratings in year 1 varied between 0-0.95, in year 2 between
191 0.14-1.0 and in year 3 between 0-1.0.

192

193 Psychometric testing of internal consistency was performed with Cronbach's alpha
194 showing 0.86 over the 22 items. Scores for individual domains ranged from a high of
195 0.91 for feelings of comfort in addressing sexual health, 0.75 for fear of negative
196 influence on future client relations, 0.65 for future working environment, to a low of
197 0.28 for educational needs.

198

199

200 **Discussion**

201 Individuals who have a physical disability often struggle with low sexual esteem, low
202 levels of sexual satisfaction and limited sexual expression³. Assistive technologies,
203 provided by prosthetist/orthotists to facilitate sexual activity, have been identified by
204 clients as having the potential to change their sexual life for the better¹⁸. Despite this,
205 prosthetist/orthotists do not appear to be addressing sexual health issues with their
206 clients²⁰. To change this pattern of behavior it is necessary to introduce formal training

207 on sexual health care into prosthetic and orthotic educational programs. This will first
208 require an understanding of students' current knowledge and perceived needs.

209 Results of this study indicate that prosthetic and orthotic students who responded to the
210 questionnaire are not prepared to appropriately manage client related sexual health
211 issues in their future professional role. Despite indicating that they had been educated
212 about sexual health, the group of students included in this study did not feel that they
213 had sufficient competence to talk about sexual health with their future clients and did
214 not indicate that they would take time to address sexual health issues in their future
215 profession.

216 Many students responding to the questionnaire indicated that they did not feel
217 comfortable discussing sexual health issues and this appeared to be more problematic
218 when communicating with clients from different sexes and clients from different
219 cultural backgrounds. Discomfort in discussing sexual health issues with clients from
220 another gender has been a recurring theme in several studies involving health care
221 providers^{29,30}, as is the preconceived notion that sex is less openly discussed by
222 minority ethnic groups³¹. Results highlight the need for education which focuses on
223 communication with clients on sexuality and sexual health.

224 Students felt that their future clients would feel more embarrassed in talking about
225 sexual issues than they would themselves. They also believed that future clients would

226 feel uneasy if they raised issues related to sexual health. Results reflect a common
227 misconception among health professionals, who often believe that clients will initiate a
228 discussion about sexual health issues if they have concerns³¹. Clients however indicate
229 that they would prefer the health care provider to raise the topic²⁹ and feel more
230 embarrassed if they are required to raise the subject themselves³¹.

231 The SA-SH has previously been used to explore perceptions of working with sexual
232 health issues for students enrolled in nursing, physiotherapy and occupational therapy
233 programs³². Compared to students from other professional programs, prosthetic and
234 orthotic students responding to this survey were less comfortable in dealing with sexual
235 health issues and felt that their future colleagues would feel more uneasy,
236 uncomfortable and reluctant in talking about sexual issues. This issue could be
237 addressed by introducing sexual health education in an interprofessional learning
238 environment. A notion which is supported by Penwell-Waines et al ³³ who suggest that
239 interdisciplinary sexual health education would facilitate interprofessional referrals and
240 teamwork when students enter their professional lives.

241 Students in the present study rated the need for knowledge and to be trained to talk
242 about sexual issues lower than students from other health professions³². Surprisingly,
243 prosthetic and orthotic students in this study reported that they had received more
244 education about sexual issues when compared to results from other health professions³².
245 Given that no significant difference was observed across years 1 to 3 of the program,

246 one can only assume that the education students received in relation to sexual health
247 was prior to entering the prosthetics and orthotics program. Results may reflect the fact
248 that the prosthetic and orthotic program in particular has a large proportion of students
249 from other Scandinavian countries. Students from these countries may have had a
250 different experience regarding sexual health education than their Swedish peers. It is
251 also relevant to note that the majority of students in this study were female. This may
252 have affected results and should be explored further with a larger sample of students.
253 Gender differences have been reported in previous studies which have applied the SA-
254 SH, with female students indicating a greater need for training and being less
255 comfortable discussing sexual health issues with clients³².

256 Results of this investigation support findings from previous work which has indicated
257 that prosthetists involved as members of amputation teams have insufficient knowledge
258 about sexual health issues that may affect their clients¹⁶. In contrast to the present
259 study however, prosthetists working in the Netherlands have indicated that discussing
260 sexuality with their clients is part of their professional responsibility¹⁶. Results indicate
261 that the relevance of sexual health issues for prosthetist/orthotists does not become clear
262 until after clinicians have entered the profession.

263 Several issues have been identified that should be addressed in the education of
264 prosthetist orthotists. Firstly, students need to be aware that it will be their
265 responsibility, and not the responsibility of their future clients, to routinely raise issues

266 related to sexual health. They should receive training in sexual health issues and obtain
267 skills in communicating with clients regarding to improve their level of comfort in
268 raising and discussing the topic. Importantly communication with clients from the
269 opposite sex and minority groups should be emphasised. Students should also be made
270 aware of the role that other health professionals play in addressing sexual health issues.
271 We suggest that this issue should be addressed using a co-productive approach
272 incorporating the students' views of their educational needs together with the needs of
273 the clients³⁴.

274 The extent to which results of this study can be generalized to other prosthetic and
275 orthotic programs is not clear. Scandinavia is well known for its tolerance for sexuality
276 and a progressive approach to sex education³⁵, and although results did not reflect this
277 progressive approach to sexual education it is possible that individuals from more
278 conservative countries would have different views.

279

280 *Psychometric testing*

281 The CVI is typically used to assess expert opinion regarding the relevance of a
282 questionnaire to the topic under investigation. While prosthetic and orthotic students are
283 experts at being students, they cannot be considered experts on the topic of sexual
284 health related to their future profession. This may be a reason for the relatively low CVI

285 values in this study, and may also provide an explanation for the increased CVI values
286 recorded for third year students. Prior to conducting this pilot project, lecturers from the
287 prosthetic and orthotic program were invited to comment on the relevance of the
288 questionnaire. Their assessment was that the questionnaire was highly relevant.

289 It is possible that the level of relevance of items rated by students reflects their
290 knowledge of the profession. Results clearly demonstrated that the relevance of items,
291 as perceived by students, increased as they progressed through their education. As
292 students proceed through their education they participate in theoretical and practical
293 training as well as clinical placements. During this time, they would be expected to
294 become more and more aware of the role of prosthetist/orthotists and the relevance of
295 addressing sexual health issues.

296 While relevance of each item within the questionnaire was evaluated using the CVI,
297 psychometric testing of internal consistency was performed with Cronbach's alpha.
298 Results for the total 22 items included in the SA-SH demonstrated acceptable results
299 however, Chronbach's alpha for the educational needs domain was low. This is likely
300 due to the varied responses to items within this domain. For example, most students
301 indicate that they have received education related to sexual health (item 1 in the
302 domain) but rate low on having sufficient competence to talk about sexual health issues.
303 The low alpha value has minor implications for the present study as clustered items
304 were not analysed.

305

306 **Conclusion**

307 Sexual health assessment and intervention should be an integral part of prosthetic and
308 orthotic practice. Students within the undergraduate program included in this study are
309 clearly not sufficiently prepared to address issues related to sexual health with their
310 future clients. They are not comfortable in discussing sexual health with their future
311 clients and do not consider that they have sufficient competence to talk about sexual
312 health issues. Improved training and education of prosthetic and orthotic students is
313 required regarding sexual health issues and to allow students to develop strategies for
314 communicating with future clients from a range of backgrounds.

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Author Contributions

All authors contributed equally in the preparation of this manuscript

References

1. World Health Organisation. Sexual and reproductive health - Defining sexual health, http://www.who.int/reproductivehealth/topics/sexual_health/sh_definitions/en/ (2006, accessed 29 Sept 2017).
2. Khosla R, Say L and Temmerman M. Sexual health, human rights, and law. *Lancet (London, England)* 2015; 386: 725-726. DOI: 10.1016/S0140-6736(15)61449-0.
3. Taleporos G and McCabe MP. Physical disability and Sexual Esteem. *Sexuality and disability* 2001; 19: 131-148.
4. Guo M, Bosnyak S, Bontempo T, et al. Let's Talk About Sex! - Improving sexual health for patients in stroke rehabilitation. *BMJ Quality Improvement Reports* 2015 ; 19: 4. DOI: 10.1136/bmjquality.u207288.w2926.
5. Schmitz MA and Finkelstein M. Perspectives on poststroke sexual issues and rehabilitation needs. *Topics In Stroke Rehabilitation* 2010; 17: 204-213. DOI: 10.1310/tsr1703-204.
6. Cho S-R, Park ES, Park CI, et al. Characteristics of psychosexual functioning in adults with cerebral palsy. *Clinical Rehabilitation* 2004; 18: 423-429.
7. Wiegerink DJHG, Roebroek ME, van der Slot WM, et al. Importance of peers and dating in the development of romantic relationships and sexual activity of young adults with cerebral palsy. *Developmental Medicine And Child Neurology* 2010; 52: 576-582. DOI: 10.1111/j.1469-8749.2010.03620.x.
8. Phelps J, Albo M, Dunn K, et al. Spinal cord injury and sexuality in married or partnered men: activities, function, needs, and predictors of sexual adjustment. *Archives Of Sexual Behavior* 2001; 30: 591-602.
9. Kreuter M, Sullivan M and Siösteen A. Sexual adjustment and quality of relationship in spinal paraplegia: a controlled study. *Archives Of Physical Medicine And Rehabilitation* 1996; 77: 541-548.
10. Geertzen JHB, Van Es CG and Dijkstra PU. Sexuality and amputation: a systematic literature review. *Disability And Rehabilitation* 2009; 31: 522-527. DOI: 10.1080/09638280802240589.
11. Verschuren JEA, Geertzen JH, Enzlin P, et al. Sexual functioning and sexual well-being in people with a limb amputation: a cross-sectional study in the Netherlands. *Disability And Rehabilitation* 2016; 38: 368-373. DOI: 10.3109/09638288.2015.1044029.
12. Woods L, Hevey D, Ryall N, et al. Sex after amputation: the relationships between sexual functioning, body image, mood and anxiety in persons with a lower limb amputation. *Disability And Rehabilitation*; DOI: 10.1080/09638288.2017.1306585.
13. Kedde H, van de Wiel H, Schultz WW, et al. Sexual health problems and associated help-seeking behavior of people with physical disabilities and chronic diseases. *Journal Of Sex & Marital Therapy* 2012; 38: 63-78. DOI: 10.1080/0092623X.2011.569638.
14. Pieters R, Kedde H and Bender J. Training rehabilitation teams in sexual health care: A description and evaluation of a multidisciplinary intervention. *Disability And Rehabilitation* 2017; 40; 6 : 732-739. DOI: 10.1080/09638288.2016.1271026.
15. Haboubi NHJ and Lincoln N. Views of health professionals on discussing sexual issues with patients. *Disability And Rehabilitation* 2003; 25: 291-296.
16. Verschuren JEA, Enzlin P, Geertzen JHB, et al. Sexuality in people with a lower limb amputation: a topic too hot to handle? *Disability And Rehabilitation* 2013; 35: 1698-1704. DOI: 10.3109/09638288.2012.751134.
17. Jarl G and Ramstrand N. A model to facilitate implementation of the International Classification of Functioning, Disability and Health into prosthetics and orthotics. *Prosthetics And Orthotics International* DOI: 10.1177/0309364617729925.
18. Ide M, Watanabe T and Toyonaga T. Sexuality in persons with limb amputation. *Prosthetics And Orthotics International* 2002; 26: 189-194.
19. Rowen TS, Stein S and Tepper M. Sexual health care for people with physical disabilities. *The Journal Of Sexual Medicine* 2015; 12: 584-589. DOI: 10.1111/jsm.12810.

20. Verschuren JEA, Zhdanova MA, Geertzen JHB, et al. Let's talk about sex: lower limb amputation, sexual functioning and sexual well-being: a qualitative study of the partner's perspective. *Journal Of Clinical Nursing* 2013; 22: 3557-3567. DOI: 10.1111/jocn.12433.
21. West L, Stepleman L, Wilson C, et al. It's Supposed to Be Personal: Personal and Educational Factors Associated with Sexual Health Attitudes, Knowledge, Comfort and Skill in Health Profession Students. *American Journal of Sexuality Education* 2012; 7: 329-354. DOI: 10.1080/15546128.2012.740945.
22. Areskoug-Josefsson K, Juuso P, Gard G, et al. Health care students' attitudes towards addressing sexual health in their future profession: Validity and reliability of a questionnaire. *International Journal of Sexual Health* 2016; 28: 243-250.
23. Crow R, Gage H, Hampson S, et al. The measurement of satisfaction with health care: implications for practice from a systematic review of the literature. *Health Technology Assessment* 2003; 6: 1-244.
24. Areskoug Josefsson K, Juuso P, Gard G, et al. Health care students' attitudes towards addressing sexual health in their future profession: Validity and reliability of a questionnaire. *International Journal of Sexual Health* 2016; 28 ; 3 : 243-250.
25. Gerbild H, Larsen CM, Rolander B, et al. Health Care Students' Attitudes Towards Addressing Sexual Health in Their Future Professional Work: Psychometrics of the Danish version of the Students' Attitudes Towards Addressing Sexual Health Scale. *Sexuality and Disability* 2017; 35: 73-87. journal article. DOI: 10.1007/s11195-016-9469-1.
26. Polit DF and Beck CT. The content validity index: are you sure you know what's being reported? Critique and recommendations. *Research in Nursing and Health* 2006; 29: 489-497. 2006/09/16. DOI: 10.1002/nur.20147.
27. Polit DF, Beck CT and Owen SV. Is the CVI an acceptable indicator of content validity? Appraisal and recommendations. *Research in Nursing and Health* 2007; 30: 459-467. Review 2007/07/27. DOI: 10.1002/nur.20199.
28. Terwee CB, Bot SD, de Boer MR, et al. Quality criteria were proposed for measurement properties of health status questionnaires. *Journal of Clinical Epidemiology* 2007; 60: 34-42. 2006/12/13. DOI: 10.1016/j.jclinepi.2006.03.012.
29. Gott M, Galena E, Hinchliff S, et al. "Opening a can of worms": GP and practice nurse barriers to talking about sexual health in primary care. *Family Practice* 2004; 21: 528-536.
30. Hinchliff S, Gott M and Galena E. GPs' perceptions of the gender-related barriers to discussing sexual health in consultations--a qualitative study. *The European Journal Of General Practice* 2004; 10: 56-60.
31. Dyer K and das Nair R. Why don't healthcare professionals talk about sex? A systematic review of recent qualitative studies conducted in the United kingdom. *The Journal Of Sexual Medicine* 2013; 10: 2658-2670. DOI: 10.1111/j.1743-6109.2012.02856.x.
32. Areskoug Josefsson K, Larsson A, Gard G, et al. Health care students' attitudes towards working with sexual health in their professional roles: Survey of students at nursing, physiotherapy and occupational therapy programmes. *Sexuality and Disability* 2016; 34: 289-302. DOI: 10.1007/s11195-016-9442-z.
33. Penwell-Waines L, Wilson CK, Macapagal KR, et al. Student perspectives on sexual health: implications for interprofessional education. *Journal Of Interprofessional Care* 2014; 28: 317-322. DOI: 10.3109/13561820.2014.884553.
34. Athakkakath M, Al-Maskari A and Kumudha A. Coproduction of Knowledge: A Literature Review and Synthesis for a University Paradigm. *Quality approaches in higher education* 2015; 6: 37-46.
35. Boëthius CG. Sex education in Swedish schools: the facts and the fiction. *Family Planning Perspectives* 1985; 17: 276-279.

