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What is offered and treated by non-medical complementary therapists in Switzerland: Results from a national web survey

Barth, Jürgen ; Maier, Stefanie ; Lebet, Françoise ; King, Ryan ; Abersfelder, Andreas ; Bachmann, Roger ;
Keberle, Silva ; Witt, Claudia M

Abstract: Introduction: Complementary therapy is implemented in Switzerland on a legal basis (i.e. by constitution) and can be reimbursed if offered either by physicians or by private health insurance coverage from non-medical therapists. This survey wanted to explore different types of interventions across Switzerland and to identify the most relevant complaints treated by therapists, their job satisfaction and satisfaction concerning the collaboration with medical doctors. Methods: This cross sectional study of therapists registered in the Experience Medicine Register (EMR) was conducted as online survey in 2017 in Switzerland in three different languages. Therapists first selected one possible treatment option as their most often used intervention for their patients. Afterwards, they indicated the complaints treated with this kind of intervention. Data were analysed descriptively. Results: Of 17,647 initially invited therapists 3942 responded (22.3%) and data from 3638 therapists could be analysed. Therapists were often females in their own practice and they had high job satisfaction, but were less satisfied with the collaboration with medical doctors. Therapists stated that they most often provide classical massage, craniosacral therapy, Traditional Chinese Medicine, naturopathic practices and medical massage. French speaking therapists stated that they more often provided osteopathy and manual lymphatic drainage but less often craniosacral therapy compared with the German speaking therapists. Headache and back pain were named as the most common treated complaints. Conclusions: Therapies used by non-medical complementary therapists varied across the different regions in Switzerland. However, we found no regional differences in the complaints being treated by therapists.

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1 **What is offered and treated by non-medical complementary therapists in Switzerland:**

2 **Results from a national web survey**

3

4 **Authors:** Jürgen Barth¹, Stefanie Maier¹, Françoise Lebet², Ryan King⁴, Andreas
5 Abersfelder³, Roger Bachmann³, Silva Keberle², Claudia M. Witt^{1, 4, 5}

6

7 **Affiliations:** ¹Institute for Complementary and Integrative Medicine, University Hospital
8 Zurich and University of Zurich, Zurich, Switzerland

9 ²Experience Medicine Register EMR, Basel, Switzerland

10 ³ SWICA, Winterthur, Switzerland

11 ⁴ Institute for Social Medicine, Epidemiology and Health Economics, Charité

12 Universitätsmedizin Berlin, Berlin, Germany

13 ⁵ University of Maryland School of Medicine, Center for Integrative Medicine, Baltimore,
14 Maryland

15

16 **Corresponding author:** Dr. Jürgen Barth, Institute for Complementary and Integrative
17 Medicine, University Hospital Zurich and University of Zurich, Zurich, Switzerland; Tel. +41
18 44 255 48 96; e-mail: mail@juergen-barth.de

19

20 **Other authors:**

21 Stefanie Maier: stefanie.maier@usz.ch

22 Françoise Lebet: flebet@eskamed.ch

23 Andreas Abersfelder: andreas.abersfelder@swica.ch

24 Ryan King: ryan.king@charite.de

25 Roger Bachmann: roger.bachmann@swica.ch

26 Silva Keberle: skeberle@eskamed.ch

27 Claudia Witt: claudia.witt@uzh.ch

28

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30

31 **Abstract**

32 **Introduction:** Complementary therapy is implemented in Switzerland on a legal basis (i.e.
33 constitution) and can be reimbursed if offered either from physicians or by private health
34 insurance coverage from non-medical therapists. This survey wanted to explore different
35 types of interventions across Switzerland and to identify the most relevant complaints treated
36 by therapists, their job satisfaction and satisfaction concerning the collaboration with medical
37 doctors.

38 **Methods:** This cross sectional study of therapists registered in the Experience Medicine
39 Register (EMR) was conducted as online survey in 2017 in Switzerland in three different
40 languages. Therapists first selected one possible treatment option as their most often used
41 intervention for their patients. Afterwards, they indicated the complaints treated with this kind
42 of intervention. Data were analysed descriptively.

43 **Results:** Of 17,647 initially invited therapists 3,942 responded (22.3%) and data of 3,638
44 therapists could be analysed. Therapists were often females in own practice and had high job
45 satisfaction, but were less satisfied with the collaboration with medical doctors. Therapists
46 stated that they most often provide classical massage, craniosacral therapy, Traditional
47 Chinese Medicine, naturopathic practices and medical massage. French speaking therapists
48 stated that they more often provide osteopathy and manual lymph drainage but less often
49 craniosacral therapy than German speaking therapists. Headache and back pain were named
50 as the most common treated complaints.

51 **Conclusions:** Therapies used by non-medical complementary therapists varied across the
52 different regions in Switzerland. However, we found no regional differences in the complaints
53 being treated by therapists.

54

55 **Keywords:** Survey, complementary medicine, job satisfaction, health services research, cross
56 sectional study, Switzerland

57 **1. Introduction**

58 Complementary medicine was implemented in the Swiss constitution [1] after public voting
59 [2] and health policy makers made efforts to make complementary therapies available for the
60 public. Physicians can actually offer five different treatments in Switzerland (acupuncture,
61 anthroposophic medicine, Traditional Chinese Medicine (TCM), homeopathy, and
62 phytomedicine) within the basic health insurance [3, 4]. In addition to that, in Switzerland,
63 non-medical complementary therapists can also offer their service to patients. About 27,000
64 complementary therapists are registered in Switzerland, which is a pre-requisite for the
65 reimbursement of their service. More than 200 different types of non-medical complementary
66 treatments are registered and therapists with an accreditation in a registry (like Experience
67 Medicine Register EMR) can bill patients for such treatments in a standardised way. This is
68 either reimbursed within a supplementary private health insurance or is paid out of pocket.

69 Despite the fact that around 200 different interventions are available in Switzerland,
70 about 20 of them cover most of the reimbursed treatments from the supplementary private
71 health insurance (health insurance company SWICA, personal communication). On a
72 European level, acupuncture is the most prevalent treatment with a ratio of about 21 therapists
73 per 100.000 inhabitants [5]. Also, in Switzerland acupuncture is often used and about 60% of
74 the general practitioners refer patients to acupuncture [6]. Homeopathy (11/100.000), herbal
75 medicine (6.5/100.000), naturopathy (5/100.000) also account for many consultations on an
76 European level whereas manual therapies including osteopathy (1.2/100.000) and
77 anthroposophic medicine (1/100.000) and others are less often used [5, 6]. The professional
78 interplay between regular medical care (i.e. general practitioners) and complementary
79 treatments are not studied well so far and upcoming studies might help to understand this
80 interprofessional collaboration better.

81 From a consumer perspective there is a regional variability in the use of
82 complementary therapy across Switzerland and also patient characteristics contribute to such

83 user patterns. Results from the Swiss Health Survey showed a higher utilisation of osteopathy
84 especially in the French part of Switzerland compared to other parts of the country [7].
85 Patients with chronic diseases, poor health status and an additional supplemental health
86 insurance more often use complementary interventions in Switzerland [8]. According to an
87 analysis that compared data from 2007 and 2012 there was an increase in the use of
88 homeopathy, osteopathy and herbal medicine but other interventions were used less often [8].

89 The use of complementary therapies also depends on the complaints, which patients
90 experience. A recent survey across Europe showed that neck and back pain, cancer, and
91 digestive symptoms are the most important reasons to consult a complementary therapy
92 provider [9]. Non-medical complementary therapists in Germany reported to treat mainly
93 general or unspecific complaints, musculoskeletal complaints and psychological disorders
94 [10].

95 To get a better insight into the professional situation of complementary therapists and
96 their use of treatments in Switzerland we aimed to explore the variation of the different
97 interventions across the country and to identify the most relevantly treated medical
98 complaints. In addition, we wanted to investigate work related job satisfaction of therapists
99 and the satisfaction concerning the cooperation with medical practitioners.

100

101 **2. Methods**

102 *2.1 Selection and description of therapists*

103 All therapists who have been registered at least 12 months in the Experience Medicine
104 Register (EMR) for one of the most frequently used 20 treatments according to SWICA
105 customer statistics were included in the study (the list of included treatments can be found in
106 Appendix 1). A total of 17,647 therapists (14,788 with German language, 2,614 with French
107 language) fulfilled this inclusion criteria and were invited to participate in the online-survey.
108 The EMR includes the information about preferred language (only German and French),

109 however we also made the survey available in Italian. The higher number of German speaking
110 therapists reflects the structure of the members in the database. Therapists who reported less
111 than 10 hours practicing time per week in the survey were excluded from the analysis.

112 All participating therapists were informed about the study aim before starting to fill in
113 their responses. All data was collected in an anonymous way and no identification of
114 therapists is possible since data from register is only available by EMR and survey data is
115 only available by the Institute for Complementary and Integrative Medicine (IKI). The study
116 protocol and the survey questions were sent to the cantonal ethics committee of Zurich (Req-
117 2017-00136) and evaluated as not being under the scope of the Swiss human research law.

118

119 *2.2 Study design*

120 This cross-sectional survey was performed in Switzerland. The quantitative data was collected
121 with an online survey which was distributed by email to therapists in the EMR registry, who
122 offer one of the 20 most prevalent complementary interventions in Switzerland (see list in
123 Appendix 1). An email sent from the EMR informed the therapists about the study and
124 encouraged them to participate. The email enclosed a link to the online survey, and the data
125 was stored by an external server at the University Hospital Zurich. The study was announced
126 in advance by the EMR through their newsletters in order to increase the response rate later
127 on. Two reminder-emails were sent (two and four weeks after the initial email) to all
128 registered therapists. The survey was accessible for a total of two months. A schematic
129 illustration of the study design is displayed in figure 1.

130

131 *2.3 Procedure and survey*

132 The anonymous online-survey was created with the open source online-survey tool soSci
133 Survey (soSci Survey GmbH, Munich, Germany). The survey was available in three

134 languages (German, French, Italian), each representing one geographical part of Switzerland.
135 Participants could freely choose their language on the entry page. The survey consisted of
136 three sections.

137 *Section 1:* The questions in the first section checked whether participants matched with
138 inclusion criteria (>12 months registered at EMR, office hours >10 hours per week, >12
139 months working in practice). Participants not matching those criteria could not proceed with
140 the survey.

141 *Section 2:* The second section consisted of questions about the therapists' working
142 environment and clients. We asked about the work site (i.e. agglomeration, urban, rural), the
143 typical patients in terms of age group (i.e. children, adolescents, young adolescents, adults,
144 elderly) and the type of disorders (acute, chronic, both). The duration of the treatment was
145 examined with two questions: mean duration of the first treatment and mean duration of the
146 follow-up treatments. We also assessed the therapists most frequently used intervention and
147 the most prevalent complaints of the typical patients which were treated with the respective
148 intervention. In total, therapists had a comprehensive list of 91 different complaints, which
149 could be selected by respondents from this list. This list was generated from the International
150 Classification of Primary Care (ICPC) [11, 12].

151 In the analysis we grouped redundant data from the list of complaints into larger
152 clusters in order to generate information about the prevalence of these comprehensive
153 symptom domains. In the first step, this list of complaints was grouped based on medical
154 reasoning (i.e. related disorders like stroke and paralysis were combined) and high
155 correlations between complaints, which might result in these complaints being summarised
156 into a broader cluster (like musculoskeletal disorders with complaints like osteoporosis,
157 rheumatoid arthritis, fibromyalgia etc.). We generated a list of 25 clusters of complaints with
158 1 to 8 single complaints. In the second step we calculated the mean prevalence across all

159 complaints in one cluster, resulting in one value for the prevalence of this domain in the
160 therapist population.

161 Additionally, satisfaction concerning the collaboration with the physicians (numeric
162 rating scale (NRS), 0-10) and job satisfaction (first year of activity, currently and in five
163 years; NRS, 0-10) were assessed.

164 *Section 3:* In the last section, socio-demographic information was obtained, including sex,
165 age, education, and level of employment of the therapists (i.e. fulltime/part-time employed,
166 self-employed).

167

168 *2.4 Analysis*

169 Statistical analysis of the data was performed with the software SPSS Version 23 [13] and R
170 (Version 3.5.1) [14]. For the analysis, data was stratified according to the language of the
171 therapists. For the description of socio-demographic information, satisfaction, interventions
172 and complaints we used descriptive statistics (frequencies and percentages for categorical
173 variables, mean, standard deviation and median for continuous variables).

174

175 **3. Results**

176 *3.1 Sample description*

177 Of the 17,402 invited complementary therapists, 3,942 started the survey. Out of those, 304
178 were excluded due to incomplete data about type of treatment the therapists provide, business
179 hours with less than 10 hours per week or a working activity as therapist in own practice with
180 less than 12 months. The data of 3,638 participants (3,198 using German language, 352
181 French, 88 Italian) was analysed in a descriptive way (table 1). Interestingly the gender of the
182 therapists varies across language regions with most female therapist with German language
183 (84.2%; n = 2,692) and less females in French speaking (71.9 %; n = 253) or Italian speaking
184 therapists (63.6% (n = 56). In total, the mean age was 51.1 (± 26.4) years and 91.1% (n =

185 3,332) of the therapists were self-employed. On average, the therapists worked for 14.0 years
186 (± 7.8) with a mean of 25.5 office hours (± 11.0) per week. The mean duration of the first
187 treatment was reported to be 73.8 (± 21.6) minutes (mode 90 minutes), whereas the duration of
188 the following treatment was around one hour (58.1 ± 14.5 minutes).

189

190 *3.2 Job satisfaction and satisfaction with professional cooperation*

191 The general job satisfaction of the therapists was high with a mean of 7.3 (± 2.3) in the first
192 year of their work as therapists (table 2). The current job satisfaction was even higher with a
193 mean of 8.9 (± 1.3), as well as the expected job satisfaction with work in five years with a
194 mean of 8.9 (± 1.4). However, the satisfaction with the cooperation with physicians was rather
195 low with 4.4 (± 2.7) with a considerable variation between therapists.

196

197 *3.3 Treatments*

198 The type of therapeutic treatments stratified by therapists' language is presented in table 3.
199 Within the total sample, classical massage was the most frequently mentioned treatment by
200 therapists with 16.1% (n = 586), followed by craniosacral therapy (8.9%, n = 325) and
201 Traditional Chinese Medicine (TCM) treatments (8.2%, n = 298). The least often mentioned
202 treatments were acupressure (1.2%, n = 42), Western phytotherapy (0.5%, n = 17), and
203 polarity (0.2%, n = 6).

204 The comparison of the therapeutic treatments across languages showed considerable
205 variation. Classical massage was the most frequently offered treatment by German speaking
206 therapists (16.2%, n = 519) whereas osteopathy/etiopathy was the most frequently offered by
207 French speaking therapist (23.3%; n = 82). In Italian speaking therapists, medical massage
208 was most prevalent (13.6%; n = 12). While craniosacral therapy ranked second for German
209 speaking therapists (9.8%, n = 315), similar to French speaking therapists (16.8%, n = 59),
210 only 0.6% (n = 2) of the Italian speaking therapists considered craniosacral therapy as their

211 major treatment. Acupunct(ure)-massage was mentioned by 6.6% (n = 212) of the German
212 speaking therapists (8th rank), while none of the French or Italian speaking therapists used this
213 treatment.

214

215 *3.4 Medical complaints*

216 As presented in table 4, most of the therapists commonly treat patients with both, chronic and
217 acute complaints (63.6%, n = 3,211), whereas 30.9% (n = 1,123) mostly deal with chronic
218 patients and only 5.4% (n = 197) work with acute ill patients. The most frequently treated
219 complaint was headache/migraine, followed by neck-/back pain with 90.0% and stress with
220 76.4%. These findings are presented in the Appendix 2.

221 These complaints were grouped into 25 clusters of complaints and table 5 shows the
222 findings about the average percentage of complaints in each cluster. Again, headache, back
223 pain, and mental disorders are commonly treated domains. But also, complaints of women
224 during pregnancy and neuralgia in the face are often treated problems. Overall there was no
225 clear difference between language regions. Information about the grouping of complaints is
226 shown in Appendix 3.

227

228 **4. Discussion**

229 Our study is the first nation-wide survey in Switzerland investigating a large cohort of non-
230 medical complementary therapists and indicating that such therapists offer a huge variability
231 of treatment options. The first ten most prevalent treatments are offered by at least 5% of the
232 therapists each. According to our findings, the therapists usually spend 90 minutes for the first
233 session and 60 minutes for follow-up consultations. According to our findings, the therapists
234 have a focus on treating pain and mental health.

235 Our survey showed regional variation within Switzerland in the offered interventions
236 of non-medical complementary therapists. This finding is in line with the considerable

237 differences in healthcare practice across regions, hospitals and physician practices for almost
238 every condition and procedure around the world [15] and in Switzerland [16-18].

239 Many factors can explain variations in healthcare [19]. First, factors related to
240 geographical regions might affect the demand for complementary therapies, such as patients'
241 attitudes towards these treatments, cultural-related factors, the comorbidity of patients, or
242 socioeconomic factors [20]. Second, differences in the supply of complementary therapies can
243 also exist. These differences are based on the availability of healthcare providers, the absence
244 of a standard training programme for healthcare professionals, the lack of standardisation of
245 CAM practitioners and their practice standards [20], the scarcity of rigorous clinical
246 guidelines, or the reimbursement and the government policies. In this line, complementary
247 therapies may be considered as a good example of 'supply-sensitive care', as the frequency of
248 its use might depend on the local availability of healthcare providers. However, this
249 explanation is difficult to check in the Swiss context as the registration at EMR is not
250 compulsory, and other registers can also be used to become reimbursed as a therapist.

251 An important point to mention is that variation in clinical practice is not always
252 inappropriate as some variation is, in fact, adequate. An example of adequate variation may be
253 due to the consideration of the patients' values and preferences. This survey did not aim to
254 identify 'unwarranted variation', that is, a practice variation that is not explained by the
255 illness, patient risk factors or patient preferences [15, 21]. Therefore, it is yet to be determined
256 if the heterogeneity in practices in non-medical complementary therapy in Switzerland is
257 unwarranted or not.

258 Our study confirms earlier findings with patients suffering from chronic low back pain
259 showing that osteopathy is the most often used complementary treatment in the French
260 speaking part of Switzerland [22]. Dubois et al. found that about half of the patients received
261 osteopathic treatment for their back pain.

262 According to our findings, the complaints treated by non-medical complementary
263 therapists encompass chronic disorders and acute disorders equally with a strong focus on
264 pain and mental health. Earlier studies from Switzerland emphasised that especially patients
265 with a longer treatment history, a longer duration of complaints and non-responsiveness to
266 conventional medical treatment might use complementary therapies [23, 24]. We have no data
267 on the non-responsiveness to conventional medical treatment since we did not ask the
268 therapist about the motives of patients to seek their treatment. The most prevalent complaints
269 mentioned by the therapists in our study are musculoskeletal disorders, pain and mental health
270 disorders, which support the findings about reasons for CAM use from Busato et al, 2006.

271 The non-medical complementary therapists in our study were in general highly
272 satisfied with their job. A study from Germany comparing general practitioners with or
273 without CAM use found a similar job satisfaction between both groups [25]. However, the job
274 satisfaction was much lower compared to a similar sample of GPs in Switzerland [26]. Since
275 no predictors for job satisfaction of complementary therapist in Switzerland have been
276 published we searched for studies about GPs and factors associated with high job satisfaction.
277 This data showed, that autonomy and variation in work tasks is associated with high job
278 satisfaction [27]. For general practitioners it was found that less working hours per week are
279 associated with higher job satisfaction, which supports our findings [28] in our sample that is
280 mainly working part time. As other drivers for the high job satisfaction of therapists in our
281 sample, the lower number of patients per day and the large freedom in working tasks based on
282 the own set agenda can be named. According to our findings, the mean duration of a regular
283 consultation is about 60 minutes which considerably cuts down the number of patients seen
284 per day by Swiss therapists. Also, the high number of females in our sample may contribute to
285 the high job satisfaction. Female gender in itself might contribute to the overall job
286 satisfaction across different jobs, which was in parts explained by a lower expectation of
287 females towards their job in general [29]. In summary the working context of the therapist

288 might be characterised by criteria for low job dissatisfaction (i.e. negative working conditions,
289 regulations, supervision) and criteria for high job satisfaction (i.e. recognition, salary,
290 personal growth) according to the two factor theory by Frederick Herzberg [30]. Most of the
291 therapist work in their own practice and the impact of the team is not that relevant neither for
292 their satisfaction nor their dissatisfaction.

293 A positive job satisfaction can also be regarded as a positive starting point for a
294 therapeutic encounter. Studies on medical personal found an association between job
295 satisfaction of the service provider and the satisfaction with the care of the patients [31, 32].
296 Based on our findings, we can hypothesise that these therapists face in general a rather low
297 risk of burn out, which is often driven by low job satisfaction [33].

298 The therapists indicated a moderate satisfaction with the collaboration with physicians.
299 A closer look for the distribution of this data showed that many therapists rated this item with
300 5 on a 10-point scale. This might be interpreted as “this is not relevant for me in my work”.
301 From a health services perspective there might be a need for care models, that build a bridge
302 between medical care *and* treatments by complementary therapists. However, there might be
303 beliefs on both sides that are barriers for a closer collaboration. There are studies that indicate
304 that GPs and other medical professions have more favourable attitudes towards
305 complementary care if they are, for example, of younger age, have positive own experiences,
306 practice in an urban area [34, 35]. There are many medical practitioners who would refer
307 patients to a therapist. In addition, the access to both health care professions might play a role:
308 Since medical practitioners and therapists can be directly accessed by patients in Switzerland
309 the collaboration of both professions might have a low impact from a patients’ perspective.
310 Results from other countries showed that patients often use CAM in parallel to regular
311 medical care [36], but it is also common not to disclose CAM treatment to medical
312 practitioners [37]. Our results indicate that referral practice between both health care sectors is
313 underdeveloped so far, which is a finding already reported in other countries [38].

314

315 *4.1 Strengths and limitations*

316 Our survey had a response rate of more than 20%, which is a good result for an anonymous
317 web-based survey without any reimbursement, but self-selection bias might be present (i.e.
318 therapists with less duties have more time to contribute). Some subsamples are quite small
319 which is caused by the fact that some regions or interventions strategies are not that often
320 represented in the EMR registry and registration at EMR is not compulsory. The
321 generalisability of the results is limited by these two aspects (non-response and
322 overrepresentation of German speaking therapists). As a reader one might assume that it is a
323 weakness to force therapists to select one specific treatment they use most often since they
324 might be trained for more than one therapy. However, the number of therapists having only
325 one therapy registered is about 70%. This is a large nation-wide study on an important group
326 of health care providers in Switzerland using a widespread register of these therapists. The
327 combination of different medical complaints was necessary to allow a better overview about
328 complex information, but as each summary approach it is based on assumptions and has its
329 limitations. Therefore, we present in Appendix 4 the original data about prevalence of treated
330 complaints across regions with all complaints before clustering. The complaints are grouped
331 in this presentation according to the clusters of the analyses.

332

333 *4.2 Conclusion*

334 The type of therapy used by non-medical complementary therapists varied across the different
335 regions in Switzerland. However, we found no regional difference in the complaints being
336 treated by therapists.

337

338 **Consent for publication**

339 All authors approved this manuscript for publication.

340

341 **Availability of data and material**

342 Access to data sets will be granted individually upon a reasonable request.

343

344 **Conflict of interest & funding**

345 The authors do not have any conflict of interest to declare. This study was funded by SWICA
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347 influence on the analysis and interpretation of findings.

348

349 **Authors' contributions**

350 JB and SM drafted the manuscript and analysed the data. JB and CW developed the study
351 protocol and interpreted the data. All authors read, revised and approved the final version of
352 this manuscript.

353

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457

459 **Table 1.** Descriptive overview of the sample of therapists stratified by therapists' language

| | German (n=3'198) | French (n=352) | Italian (n=88) | Total (n=3'638) |
|---|-----------------------------|-------------------------|-------------------------|-------------------------|
| | mean (SD); median; % (n) | mean (SD); median; % | mean (SD); median; % | mean (SD); median; % |
| Age | 52.9 (26.7); 54.0 | 50.2 (28.3); 52.0 | 50.2 (27.5); 53.0 | 51.1 (26.4); 53.0 |
| Sex | | | | |
| female | 84.2% (2'692) | 71.9% (253) | 63.6% (56) | 82.5% (3'001) |
| male | 15.8% (506) | 28.1% (99) | 36.4% (32) | 17.5% (637) |
| Employment | | | | |
| self-employed | 92.0% (2'937) | 91.7% (320) | 89.5% (77) | 91.9% (3'332) |
| employed | 3.8% (121) | 5.4% (19) | 3.5% (3) | 3.9% (143) |
| both | 4.2% (135) | 2.9% (10) | 7.0% (6) | 4.2% (151) |
| Duration of activity (<i>ys</i>) | 13.9 (7.7); 13.0 | 14.5 (8.7); 13.0 | 13.3 (8.0); 12.5 | 14.0 (7.8); 13.0 |
| Office hours per week (<i>h</i>) | 25.3 (11.0); 24.0 | 26.7 (10.8); 25.0 | 29.0 (12.0); 30.0 | 25.5 (11.0); 24.0 |
| Duration first consultation (<i>min</i>) | 74.9 (21.7); 75.0 | 63.7 (18.0); 60.0 | 72.3 (21.1); 70.0 | 73.8 (21.6); 70.0 |
| Duration follow-up consultation (<i>min</i>) | 58.3 (13.8); 60.0 | 55.7 (21.1); 60.0 | 58.1 (12.4); 60.0 | 58.1 (14.5); 60.0 |

461 **Table 2.** Job satisfaction of the therapists stratified by therapists' language.

| | German | French | Italian | Total |
|---|----------------------|----------------------|----------------------|----------------------|
| | mean (SD); median | mean (SD); median | mean (SD); median | mean (SD); median |
| Job satisfaction in the first year (<i>NRS 0-10</i>) | 7.2 (2.4); 8.0 | 7.7 (2.2); 8.0 | 7.0 (2.6); 7.0 | 7.3 (2.3); 8.0 |
| Current job satisfaction (<i>NRS 0-10</i>) | 8.9 (1.3); 9.0 | 9 (1.3); 9.0 | 8.6 (1.7); 9.0 | 8.9 (1.3); 9.0 |
| Expected job satisfaction in five years (<i>NRS 0-10</i>) | 8.9 (1.4); 9.0 | 9 (1.5); 10.0 | 8.8 (1.3); 9.0 | 8.9 (1.4); 9.0 |
| Satisfaction of cooperation with physicians (<i>NRS 0-10</i>) | 4.3 (2.7); 5.0 | 4.7 (2.7); 5.0 | 4.9 (2.6); 5.0 | 4.4 (2.7); 5.0 |

462

463 **Table 3.** Frequency of therapists' training stratified by therapists' language.

| | German (n=3,198) % (n) | French (n=352) % (n) | Italian (n=88) % (n) | Total (n=3,638) % (n) |
|------------------------------------|------------------------------|----------------------------|----------------------------|-----------------------------|
| Classical massage | 16.2 (519) | 16.8 (59) | 9.1 (8) | 16.1 (586) |
| Craniosacral therapy | 9.8 (315) | 0.6 (2) | 9.1 (8) | 8.9 (325) |
| Traditional chinese medicine (TCM) | 8.1 (259) | 9.1 (32) | 8 (7) | 8.2 (298) |
| Naturopathic practices (NHP) | 8.3 (265) | 3.4 (12) | 9.1 (8) | 7.8 (285) |
| Medical massage | 7.9 (254) | 3.7 (13) | 13.6 (12) | 7.7 (279) |
| Shiatsu | 7.5 (240) | 7.1 (25) | 12.5 (11) | 7.6 (276) |
| Kinesiology | 7.7 (246) | 7.1 (25) | 1.1 (1) | 7.6 (272) |
| Acupunct(ure)-massage | 6.6 (212) | 0 (0) | 0 (0) | 5.8 (195) |
| Classical homeopathy | 5.8 (186) | 1.7 (6) | 3.4 (3) | 5.4 (195) |
| Osteopathy/etiopathy | 2.7 (85) | 23.3 (82) | 5.7 (5) | 4.7 (172) |
| Foot reflexology | 3.9 (126) | 2.6 (9) | 11.4 (10) | 4 (145) |
| Respiratory therapy | 3.8 (122) | 0.9 (3) | 0 (0) | 3.4 (125) |
| Manual lymph drainage | 2.1 (66) | 12.5 (44) | 8 (7) | 3.2 (117) |
| Reflexology | 1.8 (58) | 8 (28) | 4.5 (4) | 2.5 (90) |
| Feldenkrais method | 2.3 (73) | 0.9 (3) | 1.1 (1) | 2.1 (77) |
| Bioresonance therapy | 1.8 (58) | 1.7 (6) | 2.3 (2) | 1.8 (66) |
| Painting therapy | 1.6 (52) | 0.3 (1) | 0 (0) | 1.5 (53) |
| Acupressure | 1.3 (41) | 0.3 (1) | 0 (0) | 1.2 (42) |
| Western phytotherapy | 0.5 (15) | 0.3 (1) | 1.1 (1) | 0.5 (17) |
| Polarity | 0.2 (6) | 0 (0) | 0 (0) | 0.2 (6) |

464 The strength of the colour represents the prevalence of the type of treatment. White colour

465 corresponds to the lowest and dark red to the highest prevalence.

466

467 **Table 4.** Type of patients' complaints treated by therapists (stratified by language region)

| | German | French | Italian | Total |
|----------------------------------|--------------|------------|-----------|--------------|
| | % (n) | % (n) | % (n) | % (n) |
| Both equally often | 63.0 (2,012) | 65.3 (230) | 79.3 (69) | 63.6 (3,211) |
| Patients with chronic complaints | 31.6 (1,009) | 27.8 (98) | 18.4 (16) | 30.9 (1,123) |
| Patients with acute complaints | 5.4 (171) | 6.8 (24) | 2.3 (2) | 5.4 (197) |

468

469 **Table 5.** Average percentage of complaints in one cluster of complaints stratified for the language of therapists

| Number | Complaint | Total avg. % (n=3,638) | German avg. % (n=3,198) | French avg. % (n=352) | Italian avg. % (n=88) |
|--------|-----------------------------|------------------------------|-------------------------------|-----------------------------|-----------------------------|
| 11 | Headache | 90.7% | 91.1% | 88.1% | 86.4% |
| 7 | Backpain | 90.0% | 90.4% | 87.8% | 84.1% |
| 2 | Mental health | 42.9% | 42.7% | 44.7% | 42.4% |
| 24 | Pregnancy | 36.1% | 35.3% | 42.6% | 38.6% |
| 5 | Face neuralgia and tinnitus | 34.7% | 34.2% | 39.5% | 35.5% |
| 23 | Urology | 33.6% | 34.0% | 29.5% | 32.4% |
| 12 | Sensitivity problems | 32.1% | 32.5% | 31.8% | 20.5% |
| 25 | Sexual dysfunction | 29.9% | 29.3% | 34.4% | 32.3% |
| 8 | Rheumatic disorders | 29.7% | 28.9% | 35.7% | 35.4% |
| 4 | Gastrointestinal | 27.7% | 26.3% | 38.7% | 33.4% |
| 3 | Allergia | 25.0% | 25.2% | 22.7% | 26.9% |
| 15 | Cancer | 24.4% | 24.9% | 21.6% | 20.5% |
| 16 | Coronary heart disease | 20.1% | 20.5% | 17.4% | 17.5% |

| | | | | | |
|----|------------------------|-------|-------|-------|-------|
| 1 | Infectious diseases | 19.6% | 19.5% | 20.5% | 17.8% |
| 26 | Children | 17.7% | 17.4% | 19.6% | 19.2% |
| 10 | Skin | 16.6% | 16.8% | 14.8% | 18.4% |
| 20 | Anaemie | 15.6% | 15.4% | 17.3% | 17.0% |
| 18 | Metabolic disorders | 13.6% | 13.5% | 14.3% | 17.0% |
| 13 | Neurological disorders | 11.4% | 11.3% | 11.8% | 12.9% |
| 6 | Obesity | 11.3% | 10.8% | 14.9% | 17.0% |
| 14 | Stroke | 10.2% | 10.0% | 12.6% | 9.7% |
| 9 | COPD | 9.6% | 9.8% | 6.8% | 12.5% |
| 19 | Addiction | 8.6% | 8.2% | 11.1% | 12.9% |
| 17 | Eye and ear | 8.3% | 8.4% | 7.7% | 8.0% |
| 22 | Blood / Lymph | 7.9% | 7.7% | 9.4% | 6.8% |

470

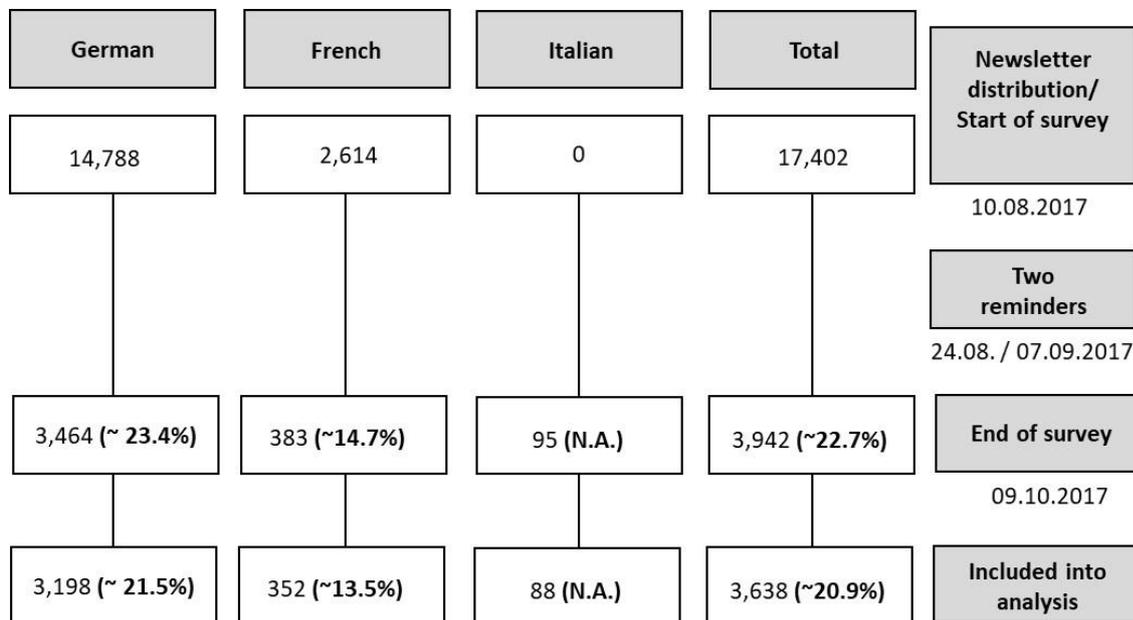
471 **Figure legends**

472 **Legend Figure 1.** Schematic illustration of the study flow. In total, 3,942 therapists started
 473 the survey, however, only 3,638 were analysed since other participants did not fulfill the
 474 inclusion criteria.

475

476 **Figures**

477 **Figure 1:** Flowchart of recruitment stratified for language (response rate and number of
 478 included therapists in the analysis).



479

480

481 **Appendix**

482 Appendix 1: List of included kind of therapists (according to the top 20 number of registered
483 therapists which was cross checked with SWICA reimbursements).

484 Acupressure; Acupunct(ure)-massage; Bioresonance therapy; Classical homeopathy; Classical
485 massage; Craniosacral therapy; Feldenkrais method; Foot reflexology; Kinesiology; Manual
486 lymph drainage; Medical massage; Naturopathic practices; Osteopathy/etiopathy; Painting
487 therapy; Reflexology; Respiratory therapy; Shiatsu; Traditional chinese medicine (TCM);
488 Western phytotherapy; Polarity.

489

490 Appendix 2: Prevalence of 91 complaints in descending order of percentage. The percentage
 491 represents the percentage of therapists treating this disease and does neither reflect the
 492 prevalence in the patient population nor the prevalence in the community.

| Name | Number | % | Cluster |
|---|--------|-------|---------|
| Neurologie: Kopfschmerzen / Migräne | 41 | 90.7% | 12 |
| Bewegungsapparat: Nacken- / Rückenschmerzen | 14 | 90.0% | 8 |
| Häufige Beschwerden Liste: Stress / Nervosität | 4 | 76.4% | 2 |
| Bewegungsapparat: Allgemeine Gelenkschmerzen | 15 | 66.9% | 9 |
| Verdauungssystem: Verdauungsstörungen (Durchfall, Verstopfung, Blähungen) | 22 | 65.8% | 4 |
| Häufige Beschwerden Liste: Schlafstörungen | 5 | 63.1% | 2 |
| Psyche: Depressive Störungen | 35 | 57.8% | 2 |
| Psyche: Burnout | 37 | 57.5% | 2 |
| Häufige Beschwerden Liste: Schwäche / allgemeine Müdigkeit | 3 | 54.2% | 2 |
| Genitale/ Brust: Prämenstruelle / menstruelle Beschwerden | 78 | 53.4% | 26 |
| Augen und Ohren: Tinnitus / Hörsturz | 56 | 52.9% | 6 |
| Schwangerschaft, Geburt, Familienplanung: Schwangerschaftsbegleitung | 76 | 50.6% | 25 |
| Genitale/ Brust: Menopausale Beschwerden (z.B. Hitzewallungen) | 79 | 48.1% | 26 |
| Urologie: Blasenbeschwerden | 73 | 45.2% | 24 |
| Bewegungsapparat: Arthrose | 16 | 41.1% | 9 |
| Psyche: Angststörungen und Phobien | 36 | 40.7% | 2 |
| Kinder: Unruhiges Kind / ADHS | 85 | 38.0% | 27 |
| Verdauungssystem: Reizdarmsyndrom | 23 | 37.2% | 4 |
| Häufige Beschwerden Liste: Schwindel | 10 | 36.4% | 6 |
| Herz-Kreislauf: Hoher Blutdruck | 54 | 35.7% | 17 |
| Schwangerschaft, Geburt, Familienplanung: Kinderwunsch | 75 | 35.3% | 25 |
| Atmungsorgane: Asthma | 29 | 32.8% | 3 |
| Neurologie: Empfindungsstörungen / Missempfindungen | 42 | 32.1% | 13 |
| Bewegungsapparat: Fibromyalgie | 20 | 30.8% | 9 |
| Häufige Beschwerden Liste: Allergien / Heuschnupfen | 6 | 29.7% | 3 |
| Genitale/ Brust: Unterbauch- / Unterleibsbeschwerden | 81 | 28.2% | 26 |
| Haut: Hautausschläge | 32 | 28.1% | 11 |
| Häufige Beschwerden Liste: Bauchschmerzen | 8 | 27.6% | 4 |
| Bewegungsapparat: Kiefergelenkschmerzen | 21 | 27.0% | 6 |
| Herz-Kreislauf: Herzschmerzen / Druck oder Engegefühl in der Brust | 51 | 25.4% | 17 |

493

| Name | Number | % | Cluster |
|---|--------|-------|---------|
| Bösartige Neubildungen: ja | 50 | 24.4% | 16 |
| Häufige Beschwerden Liste: Infektanfälligkeit | 2 | 24.3% | 1 |
| Kinder: Dreimonatskoliken | 86 | 23.8% | 27 |
| Neurologie: Neuralgien | 48 | 22.6% | 6 |
| Schwangerschaft, Geburt, Familienplanung: Stillbeschwerden oder Beschwerden nach der Geburt | 77 | 22.4% | 25 |
| Urologie: Nierenbeschwerden | 74 | 21.9% | 24 |
| Verdauungssystem: Sodbrennen | 25 | 21.2% | 4 |
| Kinder: Bettnässen / Stuhlinkontinenz | 87 | 21.1% | 27 |
| Bewegungsapparat: Rheumatoide Arthritis | 18 | 20.9% | 9 |
| Verdauungssystem: Chronisch entzündliche Darmerkrankung | 24 | 20.0% | 4 |
| Augen und Ohren: Ohrenschmerzen | 57 | 17.4% | 1 |
| Herz-Kreislauf: Herzrhythmusstörungen | 53 | 17.3% | 17 |
| Psyche: Somatisierungsstörungen / Hypochondrie | 38 | 17.2% | 2 |
| Neurologie: Multiple Sklerose | 45 | 17.2% | 14 |
| Häufige Beschwerden Liste: Grippe / Erkältung / Infektionen der oberen Luftwege | 1 | 17.0% | 1 |
| Herz-Kreislauf: Niedriger Blutdruck | 55 | 17.0% | 17 |
| Häufige Beschwerden Liste: Lebensstil im Rahmen einer Erkrankung inkl. Ernährung | 12 | 16.1% | 7 |
| Haut: Juckreiz | 31 | 15.9% | 11 |
| Haut: Psoriasis | 33 | 15.8% | 11 |
| Hämatologie/Immunologie: Anämie (Blutarmut) | 70 | 15.6% | 21 |
| Kinder: Mittelohrentzündung | 90 | 15.6% | 27 |
| Stoffwechsel: Hypo- / Hyperthyreose | 64 | 15.5% | 19 |
| Haut: Überempfindlichkeiten der Haut inkl. Schmerzen | 30 | 15.1% | 11 |
| Stoffwechsel: Diabetes mellitus | 63 | 13.7% | 19 |
| Neurologie: Folgen von Schlaganfall | 49 | 12.8% | 15 |
| Häufige Beschwerden Liste: Nahrungsmittelsensitivitäten (Gluten etc.) | 7 | 12.5% | 3 |
| Verdauungssystem: Gastritis | 26 | 12.3% | 4 |
| Suchterkrankungen: Tabakabhängigkeit | 66 | 11.8% | 20 |
| Stoffwechsel: Erhöhte Blutfettwerte | 62 | 11.7% | 19 |
| Kinder: Zahnen | 84 | 11.5% | 27 |
| Psyche: Essstörungen (Anorexie, Bulimie) | 39 | 10.8% | 2 |

| Name | Number | % | Cluster |
|---|--------|-------|---------|
| Augen und Ohren: Trockenes Auge | 61 | 10.6% | 18 |
| Genitale/ Brust: Beschwerden der Brust | 82 | 10.1% | 26 |
| Bewegungsapparat: Osteoporose | 17 | 10.1% | 9 |
| Genitale/ Brust: Sexuelle Funktionsstörungen | 80 | 9.8% | 26 |
| Atmungsorgane: Chronisch obstruktive Lungenerkrankung (COPD) | 28 | 9.6% | 10 |
| Verdauungssystem: Lebererkrankungen | 27 | 9.5% | 4 |
| Neurologie: Morbus Parkinson | 46 | 8.5% | 14 |
| Neurologie: Krampfanfälle / neurologische Anfälle | 43 | 8.4% | 14 |
| Haut: Warzen | 34 | 8.2% | 11 |
| Bewegungsapparat: Gicht | 19 | 8.2% | 9 |
| Psyche: Stammeln, Stottern, Tic | 40 | 7.9% | 2 |
| Hämatologie/Immunologie: Andere Blut- / Lymph- / Milzkrankungen | 72 | 7.9% | 23 |
| Neurologie: Lähmungen | 44 | 7.6% | 15 |
| Augen und Ohren: Einschränkungen der Sehschärfe | 58 | 7.5% | 18 |
| Kinder: Mandelentzündung | 91 | 7.5% | 27 |
| Suchterkrankungen: Alkoholabhängigkeit | 65 | 7.3% | 20 |
| Augen und Ohren: Erhöhter Augeninnendruck (Glaukom) | 60 | 6.9% | 18 |
| Suchterkrankungen: Medikamentenabhängigkeit | 67 | 6.6% | 20 |
| Häufige Beschwerden Liste: Adipositas | 11 | 6.5% | 7 |
| Kinder: Fieber bei Kindern | 88 | 6.3% | 27 |
| Herz-Kreislauf: Herzinsuffizienz | 52 | 5.5% | 17 |
| Kinder: Kinderkrankheiten (Masern, Windpocken etc.) | 89 | 4.0% | 27 |
| Neurologie: Demenz | 47 | 3.8% | 14 |
| Suchterkrankungen: Drogenabhängigkeit | 68 | 3.6% | 20 |
| Augen und Ohren: Schielen | 59 | 3.2% | 18 |
| Häufige Beschwerden Liste: Zahnbeschwerden | 13 | 3.2% | 6 |
| Suchterkrankungen: Internet- und Spielsucht | 69 | 2.4% | 20 |
| Häufige Beschwerden Liste: Fieber unklaren Ursprungs | 9 | 1.8% | 5 |
| Genitale/ Brust: Geschlechtskrankheiten | 83 | 1.2% | 26 |
| Hämatologie/Immunologie: HIV-Infektion / Aids | 71 | 1.2% | 22 |

496 Appendix 3: Clustering of complaints (total sample).

| Beschwerde | Nummer | Häufigkeit in % | Häufigkeit MW % | Beschwerden-cluster |
|---|--------|-----------------|-----------------|---------------------|
| Häufige Beschwerden Liste: Grippe / Erkältung / Infektionen der oberen Luftwege | 1 | 17.0% | 19.6% | 1 |
| Häufige Beschwerden Liste: Infektanfälligkeit | 2 | 24% | | 1 |
| Augen und Ohren: Ohrenschmerzen | 57 | 17.4% | | 1 |
| Häufige Beschwerden Liste: Schwäche / allgemeine Müdigkeit | 3 | 54.2% | 42.9% | 2 |
| Häufige Beschwerden Liste: Stress / Nervosität | 4 | 76.4% | | 2 |
| Häufige Beschwerden Liste: Schlafstörungen | 5 | 63.1% | | 2 |
| Psyche: Depressive Störungen | 35 | 57.8% | | 2 |
| Psyche: Angststörungen und Phobien | 36 | 40.7% | | 2 |
| Psyche: Burnout | 37 | 57.5% | | 2 |
| Psyche: Somatisierungsstörungen / Hypochondrie | 38 | 17.2% | | 2 |
| Psyche: Essstörungen (Anorexie, Bulimie) | 39 | 10.8% | | 2 |
| Psyche: Stammelnen, Stottern, Tic | 40 | 7.9% | | 2 |
| Häufige Beschwerden Liste: Allergien / Heuschnupfen | 6 | 29.7% | | 25.0% |
| Häufige Beschwerden Liste: Nahrungsmittelsensitivitäten (Gluten etc.) | 7 | 12.5% | 3 | |
| Atmungsorgane: Asthma | 29 | 32.8% | 3 | |
| Häufige Beschwerden Liste: Bauchschmerzen | 8 | 27.6% | 27.7% | 4 |
| Verdauungssystem: Verdauungsstörungen (Durchfall, Verstopfung, Blähungen) | 22 | 65.8% | | 4 |
| Verdauungssystem: Reizdarmsyndrom | 23 | 37.2% | | 4 |
| Verdauungssystem: Chronisch entzündliche Darmerkrankung | 24 | 20.0% | | 4 |
| Verdauungssystem: Sodbrennen | 25 | 21.2% | | 4 |
| Verdauungssystem: Gastritis | 26 | 12.3% | | 4 |
| Verdauungssystem: Lebererkrankungen | 27 | 9.5% | | 4 |

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|--|----|-------|-------|----|
| Häufige Beschwerden Liste: Schwindel | 10 | 36.4% | 34.7% | 5 |
| Bewegungsapparat: Kiefergelenkschmerzen | 21 | 27.0% | | 5 |
| Neurologie: Neuralgien | 48 | 22.6% | | 5 |
| Augen und Ohren: Tinnitus / Hörsturz | 56 | 52.9% | | 5 |
| Häufige Beschwerden Liste: Adipositas | 11 | 6.5% | 11.3% | 6 |
| Häufige Beschwerden Liste: Lebensstil im Rahmen einer Erkrankung inkl. Ernährung | 12 | 16.1% | | 6 |
| Bewegungsapparat: Nacken- / Rückenschmerzen | 14 | 90.0% | 90.0% | 7 |
| Bewegungsapparat: Allgemeine Gelenkschmerzen | 15 | 66.9% | 29.7% | 8 |
| Bewegungsapparat: Arthrose | 16 | 41.1% | | 8 |
| Bewegungsapparat: Osteoporose | 17 | 10.1% | | 8 |
| Bewegungsapparat: Rheumatoide Arthritis | 18 | 20.9% | | 8 |
| Bewegungsapparat: Gicht | 19 | 8.2% | | 8 |
| Bewegungsapparat: Fibromyalgie | 20 | 30.8% | | 8 |
| Atmungsorgane: Chronisch obstruktive Lungenerkrankung (COPD) | 28 | 9.6% | 9.6% | 9 |
| Haut: Überempfindlichkeiten der Haut inkl. Schmerzen | 30 | 15.1% | 16.6% | 10 |
| Haut: Juckreiz | 31 | 15.9% | | 10 |
| Haut: Hautausschläge | 32 | 28.1% | | 10 |
| Haut: Psoriasis | 33 | 15.8% | | 10 |
| Haut: Warzen | 34 | 8.2% | | 10 |
| Neurologie: Kopfschmerzen / Migräne | 41 | 90.7% | 90.7% | 11 |
| Neurologie: Empfindungsstörungen / Missempfindungen | 42 | 32.1% | 32.1% | 12 |
| Neurologie: Krampfanfälle / neurologische Anfälle | 43 | 8.4% | 11.4% | 13 |
| Neurologie: Multiple Sklerose | 45 | 17.2% | | 13 |
| Neurologie: Morbus Parkinson | 46 | 8.5% | | 13 |
| Neurologie: Lähmungen | 44 | 7.6% | 10.2% | 14 |
| Neurologie: Folgen von Schlaganfall | 49 | 12.8% | | 14 |
| Bösartige Neubildungen: ja | 50 | 24.4% | 24.4% | 15 |

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|---|----|-------|-------|----|
| Herz-Kreislauf: Herzschmerzen / Druck oder Engegefühl in der Brust | 51 | 25.4% | 20.1% | 16 |
| Herz-Kreislauf: Herzinsuffizienz | 52 | 5.5% | | 16 |
| Herz-Kreislauf: Herzrhythmusstörungen | 53 | 17.3% | | 16 |
| Herz-Kreislauf: Hoher Blutdruck | 54 | 35.7% | | 16 |
| Herz-Kreislauf: Niedriger Blutdruck | 55 | 17.0% | | 16 |
| Augen und Ohren: Einschränkungen der Sehschärfe | 58 | 7.5% | 8.3% | 17 |
| Augen und Ohren: Erhöhter Augeninnendruck (Glaukom) | 60 | 6.9% | | 17 |
| Augen und Ohren: Trockenes Auge | 61 | 10.6% | | 17 |
| Stoffwechsel: Erhöhte Blutfettwerte | 62 | 11.7% | 13.6% | 18 |
| Stoffwechsel: Diabetes mellitus | 63 | 13.7% | | 18 |
| Stoffwechsel: Hypo- / Hyperthyreose | 64 | 15.5% | | 18 |
| Suchterkrankungen: Alkoholabhängigkeit | 65 | 7.3% | 8.6% | 19 |
| Suchterkrankungen: Tabakabhängigkeit | 66 | 11.8% | | 19 |
| Suchterkrankungen: Medikamentenabhängigkeit | 67 | 6.6% | | 19 |
| Hämatologie/Immunologie: Anämie (Blutarmut)? | 70 | 15.6% | 15.6% | 20 |
| Hämatologie/Immunologie: Andere Blut- / Lymph- / Milzkrankungen | 72 | 7.9% | 7.9% | 22 |
| Urologie: Blasenbeschwerden | 73 | 45.2% | 33.6% | 23 |
| Urologie: Nierenbeschwerden | 74 | 21.9% | | 23 |
| Schwangerschaft, Geburt, Familienplanung: Kinderwunsch | 75 | 35.3% | 36.1% | 24 |
| Schwangerschaft, Geburt, Familienplanung: Schwangerschaftsbegleitung | 76 | 50.6% | | 24 |
| Schwangerschaft, Geburt, Familienplanung: Stillbeschwerden oder Beschwerden nach der Geburt | 77 | 22.4% | | 24 |
| Genitale/ Brust: Prämenstruelle / menstruelle Beschwerden | 78 | 53.4% | 29.9% | 25 |
| Genitale/ Brust: Menopausale Beschwerden (z.B. Hitzewallungen) | 79 | 48.1% | | 25 |
| Genitale/ Brust: Sexuelle Funktionsstörungen | 80 | 9.8% | | 25 |
| Genitale/ Brust: Unterbauch- / Unterleibsbeschwerden | 81 | 28.2% | | 25 |
| Genitale/ Brust: Beschwerden der Brust | 82 | 10.1% | | 25 |

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|---------------------------------------|----|-------|-------|----|
| Kinder: Zahnen | 84 | 11.5% | 17.7% | 26 |
| Kinder: Unruhiges Kind / ADHS | 85 | 38.0% | | 26 |
| Kinder: Dreimonatskoliken | 86 | 23.8% | | 26 |
| Kinder: Bettnässen / Stuhlinkontinenz | 87 | 21.1% | | 26 |
| Kinder: Fieber bei Kindern | 88 | 6.3% | | 26 |
| Kinder: Mittelohrentzündung | 90 | 15.6% | | 26 |
| Kinder: Mandelentzündung | 91 | 7.5% | | 26 |

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498 Appendix 3: Clustering of complaints stratified by language (total sample).

| Beschwerden | Nummer | Deutsch % | Deutsch MW % | Franz. % | Franz. MW % | Ital. % | Ital. MW % | Beschwerden-cluster |
|---|--------|-----------|--------------|----------|-------------|---------|------------|---------------------|
| Häufige Beschwerden Liste: Grippe / Erkältung / Infektionen der oberen Luftwege | 1 | 16.7% | | 18.8% | | 20.5% | | 1 |
| Häufige Beschwerden Liste: Infektanfälligkeit | 2 | 25.4% | 19.5% | 16.8% | 20.5% | 15.9% | 17.8% | 1 |
| Augen und Ohren: Ohrenschmerzen | 57 | 16.5% | | 26.1% | | 17.0% | | 1 |
| Häufige Beschwerden Liste: Schwäche / allgemeine Müdigkeit | 3 | 54.9% | | 49.7% | | 47.7% | | 2 |
| Häufige Beschwerden Liste: Stress / Nervosität | 4 | 76.1% | | 79.0% | | 76.1% | | 2 |
| Häufige Beschwerden Liste: Schlafstörungen | 5 | 63.0% | | 64.8% | | 61.4% | | 2 |
| Psyche: Depressive Störungen | 35 | 58.8% | | 52.3% | | 43.2% | | 2 |
| Psyche: Angststörungen und Phobien | 36 | 39.8% | 42.7% | 46.9% | 44.7% | 50.0% | 42.4% | 2 |
| Psyche: Burnout | 37 | 58.1% | | 54.8% | | 45.5% | | 2 |
| Psyche: Somatisierungsstörungen / Hypochondrie | 38 | 15.5% | | 28.4% | | 34.1% | | 2 |
| Psyche: Essstörungen (Anorexie, Bulimie) | 39 | 9.7% | | 18.8% | | 17.0% | | 2 |
| Psyche: Stammelnen, Stottern, Tic | 40 | 8.0% | | 7.7% | | 6.8% | | 2 |
| Häufige Beschwerden Liste: Allergien / Heuschnupfen | 6 | 30.0% | | 27.3% | | 27.3% | | 3 |
| Häufige Beschwerden Liste: Nahrungsmittelsensitivitäten (Gluten etc.) | 7 | 12.1% | 25.2% | 13.6% | 22.7% | 19.3% | 26.9% | 3 |
| Atmungsorgane: Asthma | 29 | 33.4% | | 27.3% | | 34.1% | | 3 |
| Häufige Beschwerden Liste: Bauchschmerzen | 8 | 25.0% | | 49.4% | | 33.0% | | 4 |
| Verdauungssystem: Verdauungsstörungen (Durchfall, Verstopfung, Blähungen) | 22 | 64.9% | | 74.4% | | 64.8% | | 4 |
| Verdauungssystem: Reizdarmsyndrom | 23 | 36.7% | | 41.8% | | 37.5% | | 4 |
| Verdauungssystem: Chronisch entzündliche Darmerkrankung | 24 | 19.3% | 26.3% | 24.7% | 38.7% | 28.4% | 33.4% | 4 |
| Verdauungssystem: Sodbrennen | 25 | 18.8% | | 41.2% | | 31.8% | | 4 |
| Verdauungssystem: Gastritis | 26 | 10.5% | | 23.6% | | 29.5% | | 4 |
| Verdauungssystem: Lebererkrankungen | 27 | 8.8% | | 15.6% | | 9.1% | | 4 |

| | | | | | | | | |
|--|----|-------|-------|-------|-------|-------|-------|----|
| Häufige Beschwerden Liste: Schwindel | 10 | 36.9% | | 34.7% | | 23.9% | | 5 |
| Bewegungsapparat: Kiefergelenkschmerzen | 21 | 25.7% | 34.2% | 36.1% | 39.5% | 35.2% | 35.5% | 5 |
| Neurologie: Neuralgien | 48 | 20.0% | | 40.9% | | 40.9% | | 5 |
| Augen und Ohren: Tinnitus / Hörsturz | 56 | 53.9% | | 46.3% | | 42.0% | | 5 |
| Häufige Beschwerden Liste: Adipositas | 11 | 5.6% | 10.8% | 12.5% | 14.9% | 15.9% | 17.0% | 6 |
| Häufige Beschwerden Liste: Lebensstil im Rahmen einer Erkrankung inkl. Ernährung | 12 | 15.9% | | 17.3% | | 18.2% | | 6 |
| Bewegungsapparat: Nacken- / Rückenschmerzen | 14 | 90.4% | 90.4% | 87.8% | 87.8% | 84.1% | 84.1% | 7 |
| Bewegungsapparat: Allgemeine Gelenkschmerzen | 15 | 65.5% | | 78.7% | | 71.6% | | 8 |
| Bewegungsapparat: Arthrose | 16 | 40.0% | | 48.9% | | 50.0% | | 8 |
| Bewegungsapparat: Osteoporose | 17 | 9.6% | 28.9% | 12.5% | 35.7% | 15.9% | 35.4% | 8 |
| Bewegungsapparat: Rheumatoide Arthritis | 18 | 20.6% | | 24.4% | | 18.2% | | 8 |
| Bewegungsapparat: Gicht | 19 | 8.2% | | 8.0% | | 8.0% | | 8 |
| Bewegungsapparat: Fibromyalgie | 20 | 29.1% | | 41.5% | | 48.9% | | 8 |
| Atmungsorgane: Chronisch obstruktive Lungenerkrankung (COPD) | 28 | 9.8% | 9.8% | 6.8% | 6.8% | 12.5% | 12.5% | 9 |
| Haut: Überempfindlichkeiten der Haut inkl. Schmerzen | 30 | 15.4% | | 13.1% | | 13.6% | | 10 |
| Haut: Juckreiz | 31 | 15.4% | | 19.0% | | 20.5% | | 10 |
| Haut: Hautausschläge | 32 | 29.3% | 16.8% | 17.0% | 14.8% | 26.1% | 18.4% | 10 |
| Haut: Psoriasis | 33 | 15.0% | | 20.7% | | 23.9% | | 10 |
| Haut: Warzen | 34 | 8.6% | | 4.3% | | 8.0% | | 10 |
| Neurologie: Kopfschmerzen / Migräne | 41 | 91.1% | 91.1% | 88.1% | 88.1% | 86.4% | 86.4% | 11 |
| Neurologie: Empfindungsstörungen / Missempfindungen? | 42 | 32.5% | 32.5% | 31.8% | 31.8% | 20.5% | 20.5% | 12 |
| Neurologie: Krampfanfälle / neurologische Anfälle | 43 | 9.0% | | 3.7% | | 8.0% | | 13 |
| Neurologie: Multiple Sklerose | 45 | 16.6% | 11.3% | 22.4% | 11.8% | 15.9% | 12.9% | 13 |
| Neurologie: Morbus Parkinson | 46 | 8.3% | | 9.4% | | 14.8% | | 13 |
| Neurologie: Lähmungen | 44 | 7.8% | 10.0% | 7.1% | 12.6% | 5.7% | 9.7% | 14 |
| Neurologie: Folgen von Schlaganfall | 49 | 12.2% | | 18.2% | | 13.6% | | 14 |
| Bösartige Neubildungen: ja | 50 | 24.9% | 24.9% | 21.6% | 21.6% | 20.5% | 20.5% | 15 |

| | | | | | | | | |
|---|----|-------|-------|-------|-------|-------|-------|----|
| Herz-Kreislauf: Herzschmerzen / Druck oder Engegefühl in der Brust | 51 | 26.5% | | 18.8% | | 10.2% | | 16 |
| Herz-Kreislauf: Herzinsuffizienz | 52 | 5.2% | | 8.0% | | 5.7% | | 16 |
| Herz-Kreislauf: Herzrhythmusstörungen | 53 | 17.3% | 20.5% | 18.8% | 17.4% | 11.4% | 17.5% | 16 |
| Herz-Kreislauf: Hoher Blutdruck | 54 | 36.5% | | 27.3% | | 37.5% | | 16 |
| Herz-Kreislauf: Niedriger Blutdruck | 55 | 17.1% | | 14.2% | | 22.7% | | 16 |
| Augen und Ohren: Einschränkungen der Sehschärfe | 58 | 7.5% | | 7.1% | | 9.1% | | 17 |
| Augen und Ohren: Erhöhter Augeninnendruck (Glaukom) | 60 | 7.2% | 8.4% | 4.5% | 7.7% | 4.5% | 8.0% | 17 |
| Augen und Ohren: Trockenes Auge | 61 | 10.6% | | 11.4% | | 10.2% | | 17 |
| Stoffwechsel: Erhöhte Blutfettwerte | 62 | 11.8% | | 9.4% | | 15.9% | | 18 |
| Stoffwechsel: Diabetes mellitus | 63 | 14.0% | 13.5% | 11.1% | 14.3% | 13.6% | 17.0% | 18 |
| Stoffwechsel: Hypo- / Hyperthyreose | 64 | 14.5% | | 22.4% | | 21.6% | | 18 |
| Suchterkrankungen: Alkoholabhängigkeit | 65 | 7.1% | | 8.8% | | 10.2% | | 19 |
| Suchterkrankungen: Tabakabhängigkeit | 66 | 11.1% | 8.2% | 16.5% | 11.1% | 18.2% | 12.9% | 19 |
| Suchterkrankungen: Medikamentenabhängigkeit | 67 | 6.3% | | 8.0% | | 10.2% | | 19 |
| Hämatologie/Immunologie: Anämie (Blutarmut) | 70 | 15.4% | 15.4% | 17.3% | 17.3% | 17.0% | 17.0% | 20 |
| Hämatologie/Immunologie: Andere Blut- / Lymph- / Milzerkrankungen | 72 | 7.7% | 7.7% | 9.4% | 9.4% | 6.8% | 6.8% | 22 |
| Urologie: Blasenbeschwerden | 73 | 46.0% | | 39.5% | | 39.8% | | 23 |
| Urologie: Nierenbeschwerden | 74 | 22.0% | 34.0% | 19.6% | 29.5% | 25.0% | 32.4% | 23 |
| Schwangerschaft, Geburt, Familienplanung: Kinderwunsch | 75 | 34.3% | | 42.3% | | 40.9% | | 24 |
| Schwangerschaft, Geburt, Familienplanung: Schwangerschaftsbegleitung | 76 | 49.7% | 35.3% | 59.4% | 42.6% | 50.0% | 38.6% | 24 |
| Schwangerschaft, Geburt, Familienplanung: Stillbeschwerden oder Beschwerden nach der Geburt | 77 | 21.9% | | 26.1% | | 25.0% | | 24 |
| Genitale/ Brust: Prämenstruelle / menstruelle Beschwerden | 78 | 52.8% | | 57.1% | | 60.2% | | 25 |
| Genitale/ Brust: Menopausale Beschwerden (z.B. Hitzewallungen) | 79 | 47.5% | | 50.9% | | 58.0% | | 25 |
| Genitale/ Brust: Sexuelle Funktionsstörungen | 80 | 9.2% | 29.3% | 14.8% | 34.4% | 11.4% | 32.3% | 25 |
| Genitale/ Brust: Unterbauch- / Unterleibsbeschwerden | 81 | 27.6% | | 34.1% | | 25.0% | | 25 |
| Genitale/ Brust: Beschwerden der Brust | 82 | 9.6% | | 15.1% | | 6.8% | | 25 |

| | | | | | | | | |
|---------------------------------------|----|-------|-------|-------|-------|-------|-------|----|
| Kinder: Zahnen | 84 | 11.5% | | 9.1% | | 18.2% | | 26 |
| Kinder: Unruhiges Kind / ADHS | 85 | 38.7% | | 32.7% | | 34.1% | | 26 |
| Kinder: Dreimonatskoliken | 86 | 22.5% | | 34.9% | | 27.3% | | 26 |
| Kinder: Bettnässen / Stuhlinkontinenz | 87 | 20.8% | 17.4% | 21.9% | 19.6% | 28.4% | 19.2% | 26 |
| Kinder: Fieber bei Kindern | 88 | 6.4% | | 5.4% | | 6.8% | | 26 |
| Kinder: Mittelohrentzündung | 90 | 14.5% | | 26.1% | | 11.4% | | 26 |
| Kinder: Mandelentzündung | 91 | 7.5% | | 7.4% | | 8.0% | | 26 |

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