

Development of life satisfaction in young physicians: results of the prospective SwissMedCareer Study

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Abstract

Purpose The objectives of the study were to investigate the gender-related development of life satisfaction in young physicians over an 8-year period of residency, to compare it with a representative sample, and to analyze the relationships between both person- and health-related factors and life satisfaction.

Methods A prospective study was carried out including five measurement points among a cohort of 337 Swiss physicians. Measurements include domain-specific life satisfaction (FLZ^M), sense of coherence (SOC-13), anxiety and depression (HADS-D), chronic stress (TICS) and socio-demographic variables. Data were analyzed with multivariate procedures.

Results Life satisfaction in physicians of both genders is lower compared to a representative sample. Over the 8-year period of residency, the course of life satisfaction seems to be rather unstable and domain-specific. Female physicians are more satisfied with life than their male counterparts. Depressive symptoms and stress experience are highly negatively associated with life satisfaction in multivariate analysis.

Conclusions To study the development of life satisfaction over time, it is more appropriate to use a domain-specific

life satisfaction questionnaire than a total score. Furthermore, it is a matter of concern that—compared to a representative sample—physicians in residency show lower life satisfaction at all measurement points. Depressive symptoms and chronic stress are found to diminish life satisfaction. This could keep some physicians from staying in the medical profession. Senior physicians should be aware of the negative impact of chronic stress on life satisfaction.

Keywords Life satisfaction · Depressive symptoms · Stress · Physicians · Prospective study

Introduction

Job satisfaction and life satisfaction in the medical community have been important issues in the last years (Buddeberg-Fischer et al. 2005, 2008b; Edwards et al. 2002; Jurkat and Reimer 2001; Jurkat 2008; Shanafelt et al. 2003). Most studies on this topic are cross-sectional. Only few studies report on physicians' levels of life satisfaction prospectively (Nylenna et al. 2005) and compare the data with those of the general population (Kjeldstadli et al. 2006; Tyssen et al. 2009). Gender-related differences in the physicians' assessment of life satisfaction are reported controversially. Jurkat (2008) found higher life satisfaction values in female doctors, while other studies did not (Buddeberg-Fischer et al. 2008b; Rockenbauch et al. 2006). Using domain-specific life satisfaction instruments, gender differences are seen, especially in the domains family, leisure activities, and income (Daig et al. 2009). Several studies report that anxiety and depression are related to life satisfaction (Buddeberg-Fischer et al. 2005, 2008a, b; Daig et al. 2009; Tyssen et al. 2009).

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Dissatisfaction among doctors may be caused by the decreased appreciation of the medical profession by the society in the last years (Buddeberg-Fischer et al. 2006); furthermore, physicians experience less autonomy in practising medicine (Edwards et al. 2002) and complain about their low income compared to the workload and compared to other academics (Buddeberg-Fischer et al. 2006). Well-being and life satisfaction among doctors is known to ensure good patient care and is an important issue to keep doctors in patient care (Williams E et al. 2007; Williams ES et al. 2007).

The terms ‘quality of life,’ ‘life satisfaction,’ and ‘well-being’ are often not clearly differentiated and used synonymously. ‘*Quality of life*’ is defined as a multidimensional measure of the congruence between conditions of a certain objective life standard and the subjective assessment of the respective population (Schumacher et al. 2003). The construct ‘*life satisfaction*’ is part of the perceived quality of life and an important component of well-being (Rockenbach et al. 2006). From a conceptual perspective, life satisfaction is characterized as a subjective, cognitive appraisal of one’s own conditions regarding different life domains. It is a process in which individuals assess the quality of their lives by their own standards, reflecting the difference between individuals’ hopes, expectations, and desires and what individuals consider their current state (Daig et al. 2009). Satisfaction with life can be assessed globally or domain specifically. To date, there is a lack of longitudinal studies on domain-specific life satisfaction. In our prospective *SwissMedCareer Study* (Buddeberg-Fischer et al. 2010), we investigated the development of life satisfaction domain specifically in a cohort of young doctors over an 8 year time period using the Life Satisfaction Questionnaire (FLZ^M) by Henrich and Herschbach (2000).

The objectives of this study are: What are the internal consistency and the retest-reliability of the life satisfaction questionnaire (FLZ^M)? What are the differences in life satisfaction between young physicians and the normal age-adapted community sample? How does the life satisfaction of young physicians develop over an 8-year postgraduate training period; are there gender-related differences? What are the relationships between person- and health-related factors on the one hand and the life satisfaction on the other?

Method

Study design and study sample

The present study is part of an ongoing prospective survey of a cohort of graduates of the three medical schools in German-speaking Switzerland (*SwissMedCareer Study*,

Buddeberg-Fischer et al. 2010), beginning in 2001 (T1). All of the 1,004 registered final-year students were sent a letter explaining the study design, accompanied by a recommendation letter of the deans of the three medical schools, and the baseline questionnaire; the students’ addresses were provided by the university boards. To ensure participants’ anonymity, the returned questionnaires were only identified by a code. The respondents sent their addresses to an independent address-administration office, allowing for follow-up. The study protocol was approved by the ethical committee of Zurich University.

In the first assessment (T1, in 2001), 711 graduates participated (Buddeberg-Fischer et al. 2003). Subjects were reevaluated every 2 years. The present paper refers to results of all five assessments; the last assessment was conducted in 2009, 8 years after the participants’ graduation (Buddeberg-Fischer et al. 2010).

The *study sample* consists of 337 physicians (184 women, 54.6%; 153 men, 45.4%) participating with a full data set in each FLZ^M-module at all 5 measurement points (Response rate = 47.4% ($n = 337$ from $n = 711$ at first measurement)). The mean age of the participants at T5 is 35.2 (SD 2.1 years, range 32–49 years). Of the residents, 289 (85.8%) live in a stable partnership, of whom 174 are married. Sixty-eight (37.0%) of the women and 62 (40.5%) of the men have children.

The participants who did not provide a full FLZ^M data set (missing data from T2 to T5) did not differ from the study sample in terms of gender ($p = .33$), age ($p = .31$) and total life satisfaction score ($p = .30$) at T1.

Measurements

Life satisfaction (FLZ^M)

The FLZ^M was chosen because it is a domain-specific questionnaire. According to Daig et al. (2009), the FLZ^M assesses ‘General Life Satisfaction’ during the past 4 weeks. It focuses on the subjective satisfaction in eight general aspects of life: ‘friends/acquaintances,’ ‘leisure activities/hobbies,’ ‘health,’ ‘income/financial security,’ ‘occupation/work,’ ‘housing/living conditions,’ ‘family life/children,’ and ‘partner relationship/sexuality.’ The respondent is asked to rate his/her satisfaction in a given life domain on a five-point scale from ‘dissatisfied’ to ‘very satisfied’ e.g., ‘How satisfied are you with your income?’. Giving all persons the possibility to answer all domains, the instruction in the FLZ^M is ‘Please answer all questions, also those which do not apparently apply to you: For instance, if you have no partner, please indicate how content you are with your actual situation (without partner).’ The sum of eight life domains is the total life satisfaction, and ranges from 8 to 40. A representative survey of the

German population with 5,036 participants (53.6% female) was conducted in 2006 (Daig et al. 2009). Mean age was 48.4 (SD = 18.0), 59.9% were living with a partner, 86.8% were living in urban area, and 5.8% were unemployed/short time work. The characteristics of the study sample closely match those of the total German population. The reliability in this representative community sample is good with Cronbach's $\alpha = .80$ (eight items). As reference sample for our study, we used the subsample of 30–60-year-old men ($n = 1,161$) and women ($n = 1,404$) (Table 2).

In the original version, importance and satisfaction in the mentioned eight life domains are assessed (Henrich and Herschbach 2000). However, FLZ^M scores are often distributed in the medium sections of the scale as a result of the scoring procedure, i.e., only a combination of both, high subjective importance and high subjective satisfaction, leads to high scores (Goldbeck and Schmitz 2001). To avoid this kind of distortion, we only used the satisfaction score and did not weight the satisfaction score by the importance of the specific domain. This procedure is reported by Daig et al. (2009).

Hospital Anxiety and Depression Scale—German Version HADS-D (Herrmann et al. 1995) is a frequently used screening instrument for anxiety and depression with two continuous scales ranging from 0 to 21. It contains 14 items on a four-point response scale, summed up to separate scores on anxiety (7 items) and depression (7 items); scale scores <8 are in the normal range, 8–10 indicate possible psychiatric morbidity, and >10 probable mood disorder. The HADS-D is validated in general population (Hinz and Schwarz 2001).

The Trier Inventory for the Assessment of Chronic Stress (TICS) (Schulz et al. 2004) measures overall chronic stress by means of a five-point Likert scale ranging from 0 to 4 (never—very often). Twelve items constitute the *Screening Subscale of Chronic Stress (TICS-SSCS)* used in this study. TICS screening items refer to aspects such as being afraid, that something unpleasant may happen, not being able to suppress worrying thoughts, or not being able to cope with all duties. The TICS-SSCS is a sum score of the 12 items and linearly transformed into standard T-values (mean = 50, SD = 10). Higher values indicate greater stress.

Sense of Coherence Scale (SOC-13) (Antonovsky 1987) consists of thirteen items (seven-point Likert scale) and measures a person's resistance to stress and his/her ability to manage stress.

The survey questionnaire also included questions on gender, age, partnership, children, and employment in percent.

Statistical analysis

All analyses were carried out with SPSS Version 15.0 for Windows. Descriptive statistics are given in terms of

means and standard deviations, counts and percentages, respectively. Retest-reliability $r(tt)$ was computed with Pearson correlations; Cronbach's α were calculated for internal consistency. Comparisons with the representative community sample in satisfaction with life were conducted with z -tests. We used MANOVA for repeated measurements, followed by repeated contrasts to estimate the effects of gender and time (independent variables) and their interactions on the eight domains in satisfaction with life as well as FLZ^M total score (dependent variables). Since all Mauchly's tests were significant ($p \leq .05$), sphericity could not be assumed. Therefore, we corrected the effects according to Greenhouse-Geisser and reported F -statistics and partial η^2 . A hierarchical multiple regression analysis was carried out to analyze the relationships between person- and workplace-related factors on the one hand and the life satisfaction on the other: In a first step, we included the socio-demographic variables gender, living in partnership, having own children, and employment in percent in the regression model. In a second step, we additionally included the variables anxiety and depressive symptoms, chronic stress, and sense of coherence, controlled for the mentioned socio-demographic variables. Beta-weights and their standard errors, t -statistics, adjusted R^2 , F -statistics, and change in R^2 and F are reported.

Results

Reliability of FLZ^M

The retest-reliability [stability $r(tt)$] and the internal consistency are shown in Table 1. The stability over the five measurement points amounts from .42 to .61. Cronbach's α achieves satisfactory values with approximately .70.

Comparison of life satisfaction between physicians and representative community sample

The FLZ^M total scores of life satisfaction in physicians are significantly lower (all $p < .01$) in both genders at all measurement points except in men at T3 ($p = .142$) (see

Table 1 Retest reliability $r(tt)$ of the FLZ^M total score and internal consistency (Cronbach's α) of the FLZ^M ($N = 337$)

FLZ ^M total score	T2	T3	T4	T5	Cronbach's α
T1	.46	.43	.42	.48	.65
T2		.51	.49	.43	.70
T3			.61	.54	.69
T4				.51	.70
T5					.70

Table 2) compared to a representative community sample. The significant differences between the study sample and the representative community sample in the FLZ^M total scores result mainly from the significantly lower satisfaction with leisure activities (all $p < .001$) in young physicians and also from the lower satisfaction with family life in female physicians (all $p < .001$). A further result is that satisfaction with work does not differ significantly from the representative community sample except of a higher value in male physicians at T5 ($p = .008$).

Development of life satisfaction in young physicians

Time

As shown in Tables 2 and 3, the FLZ^M total score shows an increase from T2 to T3, followed by a decrease from T3 to T4. The satisfaction with leisure activities and friends decline from T1 to T2, i.e., in the first year of residency, whereas the satisfaction with income rises in the same time period. The satisfaction with family shows a very instable course: it increases from T2 to T3, decreases from T3 to T4, and increases again from T4 to T5; a similar development is found in satisfaction with partner/relationship. The course of satisfaction with work is stable from T1 to T5.

Gender

The only significant difference between men and women is the higher satisfaction with income in women (see Tables 2 and 3, as well as Fig. 1). The importance of income was asked in the former version of the FLZ^M: In our study, male doctors scored higher ($p < .05$) at all measurement points.

Gender × time

The only significant interaction between the factors gender and time appears in the satisfaction with leisure activities (see Tables 2 and 3, as well as Fig. 1): The values of women decrease more than those of men from T1 to T2 and increase from T4 to T5, whereas the values of men decrease in this time period.

Associations between socio-demographic and psychosocial variables and satisfaction with life

The associations between socio-demographic and psychosocial variables on the one hand and satisfaction with life on the other are shown in Table 4. The hierarchical regression analysis shows in the first step that living in partnership plays a significant role for a higher total life

Table 2 Means (SD) [$N = 337$, 184 women (f), 153 men (m)] and age-related norms of FLZ^M domains and FLZ^M total scores

FLZ ^M domains: satisfaction with...	T1 mean (SD)		T2 mean (SD)		T3 mean (SD)		T4 mean (SD)		T5 mean (SD)		Norm (mean) ^a	
	m	f	m	f	m	f	m	f	m	f	m	f
Friends	3.86 (.98)	4.05 (.95)	3.54 (1.09)	3.57 (1.04)	3.65 (.99)	3.67 (1.03)	3.46 (1.03)	3.60 (1.02)	3.39 (1.17)	3.75 (1.03)	3.90	3.95
Leisure activities	3.35 (1.18)	3.51 (1.10)	3.04 (1.07)	2.77 (1.01)	3.23 (1.02)	2.95 (.94)	3.09 (.99)	2.97 (.91)	2.89 (1.08)	3.10 (1.05)	3.72	3.71
Health	3.90 (1.04)	3.75 (1.13)	4.00 (1.02)	3.87 (.98)	3.94 (.98)	3.97 (.93)	4.04 (1.03)	3.93 (1.01)	3.85 (1.07)	3.78 (1.09)	3.84	3.88
Income	2.92 (1.21)	3.09 (1.20)	3.51 (1.12)	3.73 (.95)	3.26 (1.09)	3.52 (.92)	3.13 (1.12)	3.56 (.97)	3.05 (1.15)	3.53 (1.06)	3.38	3.44
Work	3.45 (1.01)	3.59 (.94)	3.55 (1.03)	3.49 (.91)	3.66 (1.10)	3.61 (.96)	3.63 (.91)	3.52 (.94)	3.70 (.98)	3.50 (.95)	3.49	3.48
Living condition	3.92 (1.03)	3.93 (.99)	4.07 (1.03)	4.08 (.92)	3.98 (1.01)	4.10 (.97)	4.12 (.91)	4.11 (.86)	4.05 (.95)	4.09 (.91)	3.96	4.03
Family life	3.62 (1.00)	3.70 (.99)	3.58 (1.02)	3.57 (1.08)	3.81 (1.09)	3.74 (1.09)	3.62 (1.11)	3.49 (1.14)	3.86 (1.17)	3.83 (1.19)	3.91	4.08
Partner/relationship	3.52 (1.42)	3.69 (1.26)	3.43 (1.32)	3.60 (1.33)	3.88 (1.19)	3.91 (1.20)	3.77 (1.10)	3.61 (1.31)	3.51 (1.26)	3.61 (1.27)	3.81	3.79
FLZ ^M total score	3.57 (.69)	3.68 (.58)	3.60 (.62)	3.59 (.59)	3.69 (.59)	3.70 (.57)	3.60 (.58)	3.62 (.59)	3.56 (.65)	3.68 (.66)	3.75	3.80

^a Men ($n = 1,161$, 30–60 years old), women ($n = 1,404$, 30–60 years old)

Table 3 Results of multivariate and univariate analyses of variance of FLZ^M domains and FLZ^M total score (N = 337)

FLZ ^M domains: multivariate ^a	Gender			Time			Gender x time		
	F (8, 328)	p	Partial η ²	F (32, 304)	p	Partial η ²	F (32, 304)	p	Partial η ²
	4.71	<.001	.10	6.94	<.001	.42	1.91	.003	.17
FLZ ^M domains: univariate	Gender			Time			Gender × time		
	F (1, 335)	p	Partial η ²	F (4, 1,340)	p	Partial η ²	F (4, 1,340)	p	Partial η ²
Friends	3.81	.052	.011	14.41	<.001	.041	2.15	.076	.006
Leisure activities	.71	.399	.002	17.11	<.001	.049	5.81	<.001	.017
Health	1.20	.273	.004	3.19	.014	.009	.62	.649	.002
Income	14.28	<.001	.041	20.97	<.001	.059	2.01	.102	.006
Work	.73	.395	.002	1.21	.305	.004	1.73	.147	.005
Living condition	.30	.582	.001	2.24	.066	.007	.27	.889	.001
Family life	.15	.703	<.001	6.15	<.001	.018	.56	.683	.002
Partner/relationship	.42	.518	.001	6.91	<.001	.020	1.35	.251	.004
FLZ ^M total score	1.01	.317	.003	3.10	.016	.009	1.74	.142	.005

^a Multivariate statistics are computed without FLZ^M total score

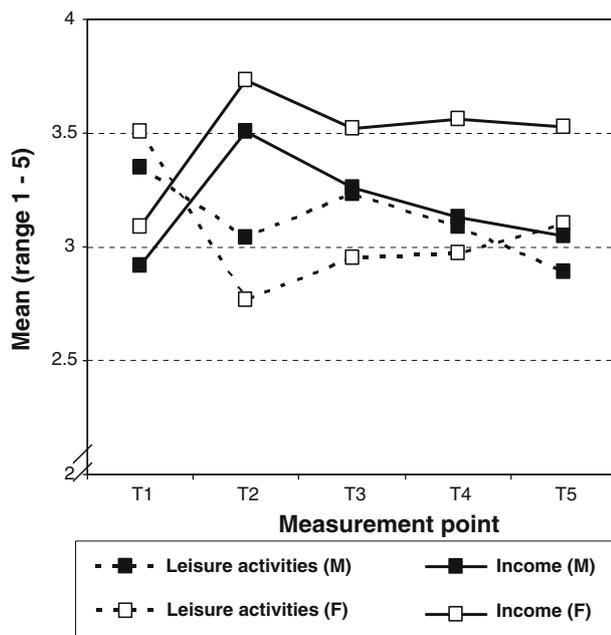


Fig. 1 Gender-related development of the FLZ^M domains ‘satisfaction with leisure activities’ and ‘satisfaction with income’ [N = 337, 184 women (F), 153 men (M)]

satisfaction; gender, employment, and own children do not. Controlled for these variables, the second step reveals that depressive symptoms and chronic stress are highly negatively associated with the total life satisfaction. Since R² change is very high, the latter two associations provide a great amount to the total relationship. Anxiety symptoms and sense of coherence have significant associations with life satisfaction in the bivariate analyses, but they are highly related to depressive symptoms and chronic stress.

Therefore, their contribution (β-weights) to the amount of the total relationship (adjusted R²) diminishes in the multiple regression.

Discussion

The present study is an 8-year follow-up survey of a cohort of medical school graduates. The participants assessed their domain-specific satisfaction with life at five measurement points. The findings were compared with an age-matched representative sample. Furthermore, associations between life satisfaction and person- and health-related factors, respectively, were investigated.

Reliability of FLZ^M

The internal consistency of the FLZ^M in our study is satisfactory at each measurement. The values are slightly below those reported by Daig et al. (2009). This can be explained by the homogeneity of our study sample in terms of age and profession. The retest-reliability cannot be compared with other studies. As far as we know, there are no other papers reporting life satisfaction in doctors using domain-specific instruments and cover an 8-year time period.

The average correlation among the five measurement points is .50. This correlation is sufficiently, but not exceedingly high. This indicates that the assessment of life satisfaction is influenced by external conditions (i.e., career entry, workplace and socio-economic conditions), as well as by subjective norms (i.e., individual level of life satisfaction).

Table 4 Associations between “objective” socio-demographic variables and life satisfaction (FLZ^M total score) and “subjective” variables like anxiety and depressive symptoms (HADS), chronic stress (TICS-SSCS), and sense of coherence (SOC) and life satisfaction (FLZ^M total score), controlled for socio-demographic variables ($N = 337$) (hierarchical regression analysis)

	Life satisfaction (FLZ ^M total score)		
	β (SE)	t	p
“Objective” variables			
Gender (f)	.08 (.06)	1.33	.183
Living in partnership (yes)	.18 (.06)	3.21	.001
Having own children (yes)	.05 (.07)	.73	.467
Employment in percent	-.07 (.07)	-1.06	.291
	Adjusted $R^2 = .05$	$F(4, 328) = 5.17$	<.001
“Subjective” variables			
Anxiety symptoms	-.02 (.07)	-.33	.746
Depressive symptoms	-.44 (.06)	-7.90	<.001
Chronic stress	-.25 (.06)	-4.14	<.001
Sense of coherence	.07 (.05)	1.51	.133
	Adjusted $R^2 = .50$	$F(8, 324) = 41.34$	<.001
	R^2 change = .45	Change in $F = 72.96$	<.001

Life satisfaction in young physicians compared with an age-matched representative community sample

As most psychologic tests, the FLZ^M has no validation particular for the German-speaking part of Switzerland. Usually, the German reference group is consulted for comparisons because this group is most comparable regarding language, cultural background, and environment. All FLZ^M total scores are below the values of the age-matched representative community sample. This result is mainly caused by the low satisfaction with leisure activities. Similar results are reported by other authors who also found lower levels of life satisfaction in physicians in the postgraduate years (Tyssen et al. 2009). These findings can be partly explained by physicians’ general high workload especially during residency. However, another Norwegian study (Nylenna et al. 2005) shows a high level of general life satisfaction in a representative sample of 1,174 Norwegian doctors—and even an increase of life satisfaction in this sample within the time frame from 1994 to 2002. Restrictively, this sample includes doctors of all ages. In a Norwegian prospective study (Kjeldstadli et al. 2006), a decrease in life satisfaction during medical school is reported. Both samples cannot be compared with our study sample.

A further result in our study is the lower satisfaction with family life in women compared to the representative community sample. Most probably, several factors play a role: in the Swiss society, women still feel more responsible for family concerns as men (Maume 2006); another point is a lack of sufficient child care facilities in Switzerland compared to other countries as France or Scandinavia.

As other authors do not report domain-specific results (Kjeldstadli et al. 2006; Tyssen et al. 2009), we cannot compare our findings to other studies.

Development of life satisfaction over time

The domain-specific values show a significant decrease in leisure activities and friends from T1 to T2 and an increase in income in the same time period. The latter finding is not surprising, considering that respondents have just graduated from medical school at T1 and earning their first money in residency at T2.

Overall, our results show the highest life satisfaction at T3. Several factors may play a role: First, in this phase of residency, young doctors have achieved a certain level of confidence by professional experience; second, the participants are meanwhile in a phase of life in which most of them live in a relatively stable personal situation providing emotional and social support. That does not exclude that the satisfaction with partnership and family underlies a certain variability over time, as shown in our data.

Job satisfaction is stable over the whole 8-year time period. As reported in other studies (Buddeberg-Fischer et al. 2006, 2008c; Deberdt 2002), the younger generation attach more importance to leisure activities, friends, and family than the older generation. In addition, the attitude of young physicians toward the medical profession can be characterized as “my job is my life” (Armstrong et al. 2009).

Gender-specific differences are only found in the domain ‘satisfaction with income’: women are more satisfied than men, although they earn the same salary which is regulated by the government. We assume that the socio-economic status is more important for men than for women. Using the former version of the FLZ^M (Henrich and Herschbach 2000), the ‘importance of income’ as an indicator for the socio-economic status was assessed: at all measurement points, male doctors scored higher. Thus, our assumption is confirmed. Furthermore, men compare their

income more often with others, as shown in a meta-analysis (Pinquart and Sörensen 2000).

A significant interaction between gender and time is found in the domain leisure activities: women show a greater decrease from T1 to T2 than men. As known, cultivating friendships is an essential issue for women (Sherman and Walls 1995). The career entry and therewith high workload does not leave them enough time for their social network. The interaction is also significant from T4 to T5: men assess a decrease in leisure activities, and women show an increase. It can be supposed that at the end of residency, male doctors invest more time in their professional career entailing less leisure activities (Buddeberg-Fischer et al. 2008d).

In the course of the FLZ^M total score, it has to be considered that this score is a sum score over the domains. Opposed courses in the various domains at different measurement points might outweigh one another by summarizing the values. For example: from T1 to T2, the satisfaction with income increases, whereas satisfaction with leisure activities decreases, no change in the total score.

Associations between socio-demographic and psychosocial variables and satisfaction with life

As regards objective socio-demographic variables, living in stable partnership is strongly associated with life satisfaction. Partnership has been consistently reported to be related to better life satisfaction, providing emotional and social support (Daig et al. 2009; Jurkat and Reimer 2001; Rockenbauch et al. 2006; Tyssen et al. 2009). Age was not included in the analysis because of the homogeneity of the participants.

Additionally, depressive symptoms and chronic stress are found to diminish life satisfaction, findings also reported by other authors (Daig et al. 2009; Saarni et al. 2007).

Limitations of our study: Participants are a rather homogeneous sample in terms of age and professional status and are not a representative community sample. Over time, only half of the cohort study sample delivered complete data sets. This is almost inevitable in cohort studies tracking individuals over 8 years. However, there are no significant differences between dropouts and participants regarding gender, age, and life satisfaction at T1.

The major *strengths* of this study are the long follow-up period over 8 years with five assessments and the comparison with an age-matched representative community sample. Furthermore, we have used several validated instruments to ensure high reliability of the reported data. In particular, we applied a domain-specific life satisfaction questionnaire. In several studies on life satisfaction in

physicians, only a one-item question is used (Kjeldstadli et al. 2006; Nylenna et al. 2005; Tyssen et al. 2009).

Conclusions

To study the development of life satisfaction over time, it is more appropriate to use specific domains of life satisfaction than a total score. Furthermore, it is a matter of concern that—compared to a representative sample—physicians show lower life satisfaction not only at the beginning of their professional life but also 8 years later, when it could be assumed that at this time, they have adapted to the demands of their profession. Depressive symptoms and chronic stress are found to diminish life satisfaction. This could keep some physicians from staying in the medical profession. Senior physicians should be aware of the negative impact of chronic stress on life satisfaction.

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Conflict of interest statement The authors declare that they have no conflict of interest.

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