

Swiss-SEP 2.0 index

Report 1.08 - data analysis

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February 25, 2021

Contents

1 PCA on n'hood aggregated characteristics	2
2 Building age	2
3 Hybrid version of SEP	3
3.1 Index deciles	3
3.2 Quantiles	3
3.3 Bland Altman plots of diffs	6
4 Maps	7
5 Validation - SHP data	8
5.1 Income graph - original	8
5.2 Income graph - new indices	8
5.3 Financial variables table - original	9
5.4 Financial variables table - 1.0	10
5.5 Financial variables table - 2.0	13
5.6 Financial variables table - 3.0	16
6 Validation - SNC mortality	19
6.1 All cause mortality - original	19
6.2 All cause mortality - new indices	19
6.3 All cause mortality - three indices, stratified by age	21
6.4 Cause specific mortality - original	22
6.5 Cause specific mortality - 1.0	23
6.6 Cause specific mortality - 2.0 results	24
6.7 Cause specific mortality - 3.0 results	25
7 Validation - SNC SE mortality	26
7.1 All cause mortality - 3.0	26
7.2 Cause specific mortality - 3.0	27

1 PCA on n'hood aggregated characteristics

Principal components/correlation
Number of obs = 1,527,173
Number of comp. = 4
Trace = 4
Rho = 1.0000

Component	Eigenvalue	Difference	Proportion	Cumulative
Comp1	1.95642	.776499	0.4891	0.4891
Comp2	1.17992	.731361	0.2950	0.7841
Comp3	.448564	.0334764	0.1121	0.8962
Comp4	.415087	.	0.1038	1.0000

Principal components (eigenvectors)

Variable	Comp1	Comp2	Comp3	Comp4	Unexplained
ocu1p	0.6054	-0.1324	0.4427	0.6481	0
edu1p	0.5902	0.2424	0.3022	-0.7082	0
ppri	0.2401	0.7990	-0.4817	0.2680	0
rent	-0.4770	0.5341	0.6933	0.0812	0

(score assumed)

(3 components skipped)

Scoring coefficients

sum of squares(column-loading) = 1

Variable	Comp1	Comp2	Comp3	Comp4
ocu1p	0.6054	-0.1324	0.4427	0.6481
edu1p	0.5902	0.2424	0.3022	-0.7082
ppri	0.2401	0.7990	-0.4817	0.2680
rent	-0.4770	0.5341	0.6933	0.0812

2 Building age

Construction period of the building is retrieved from STATPOP 2018 dataset. Detailed typology is recoded to binary indicator flagging buildings constructed on or after 2001. Buildings with missing information about age are treated as 'old' ones.

Building period (binary)	Freq.	Percent	Cum.
0	1,330,347	86.35	86.35
1	210,237	13.65	100.00
Total	1,540,584	100.00	

3 Hybrid version of SEP

This solution is mixing versions 1.0 & 2.0. First the new buildings have value of index 1.0 assigned using the closest (linear distance) neighbour.

Then, construction period of the building is retrieved from STATPOP 2018 dataset and then buildings built before year 2000 have the values of 1.0 index assigned and buildings constructed after 2000 have new values assigned. Buildings without the defined period of construction keep values 1.0 also.

3.1 Index deciles

(SSEP 3.0 - user dataset of index and XY coordinates)			
Summary for variables: ssep3 by categories of: ssep3_d (Swiss-SEP 3.0 - deciles)			
ssep3_d	min	mean	max
1	0.00	45.06	50.89
2	43.96	52.57	55.45
3	49.12	56.34	58.69
4	52.84	59.36	61.49
5	56.14	62.10	64.14
6	59.25	64.77	66.84
7	62.27	67.62	69.76
8	65.54	70.80	73.20
9	69.37	74.74	77.63
10	74.31	81.29	100.00
Total	0.00	63.51	100.00

3.2 Quantiles

Note that the original quantiles of second version :

Swiss-SEP 2.0 - deciles	Freq.	Percent	Cum.
1	152,718	10.00	10.00
2	152,717	10.00	20.00
3	152,718	10.00	30.00
4	152,739	10.00	40.00
5	152,695	10.00	50.00
6	152,717	10.00	60.00
7	152,718	10.00	70.00
8	152,721	10.00	80.00
9	152,722	10.00	90.00
10	152,708	10.00	100.00
Total	1,527,173	100.00	

... are tad 'broken' after replacements:

Swiss-SEP 3.0 - deciles	Freq.	Percent	Cum.
1	147,320	9.65	9.65
2	151,620	9.93	19.57
3	152,917	10.01	29.59
4	153,411	10.05	39.63
5	154,626	10.12	49.76
6	155,147	10.16	59.92
7	154,730	10.13	70.05
8	154,709	10.13	80.18
9	153,520	10.05	90.23
10	149,173	9.77	100.00
Total	1,527,173	100.00	

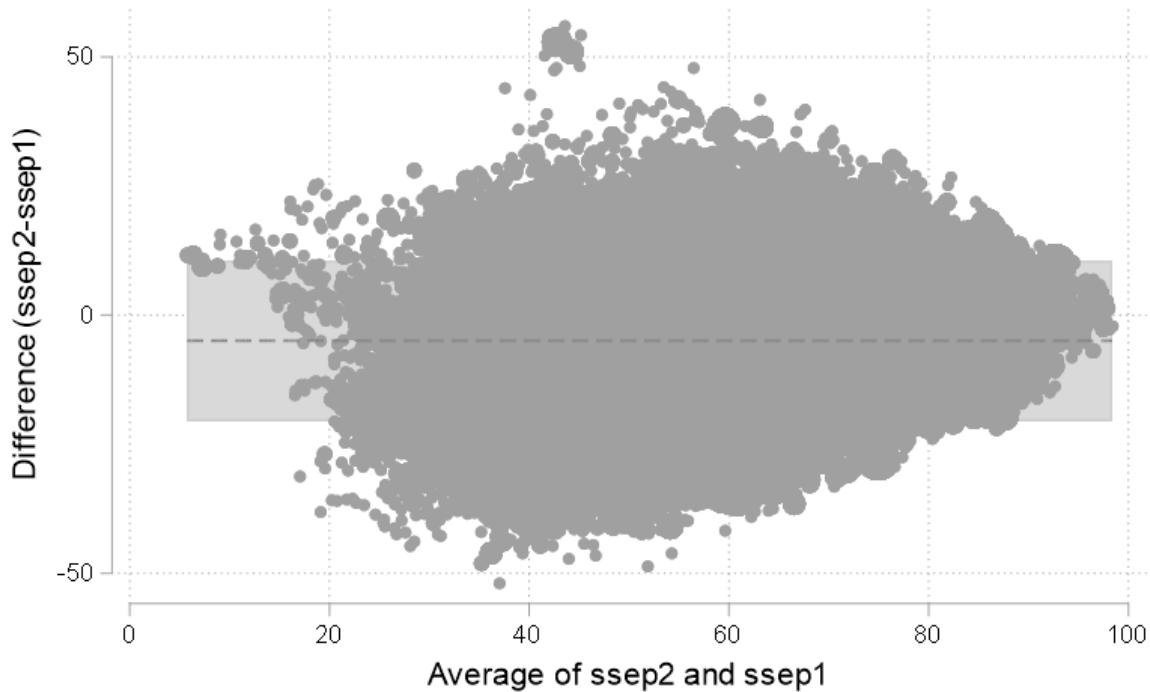
Some transitions happened:

Swiss-SEP 2.0 - deciles		Swiss-SEP 3.0 - deciles								Total
		1	2	3	4	5	6	7	8	
1	74,083	33,153	19,523	12,166	6,909	3,951	1,844	825	152,718	
2	30,691	48,157	24,952	19,420	13,169	8,566	4,839	2,085	152,717	
3	18,941	23,894	44,112	21,394	17,301	12,667	8,154	4,196	152,718	
4	10,865	18,287	21,706	41,800	20,040	16,820	11,962	7,284	152,739	
5	6,600	12,418	16,774	19,633	43,100	19,344	16,595	11,374	152,695	
6	3,157	7,984	11,906	16,116	19,297	44,870	20,652	16,209	152,717	
7	1,630	4,485	7,452	11,952	16,635	19,972	46,642	22,679	152,718	
8	872	2,194	4,473	7,061	10,740	15,500	21,353	51,045	152,721	
9	353	756	1,538	2,943	5,741	9,894	15,706	25,720	152,722	
10	128	292	481	926	1,694	3,563	6,983	13,292	152,708	
Total	147,320	151,620	152,917	153,411	154,626	155,147	154,730	154,709	1,527,173	

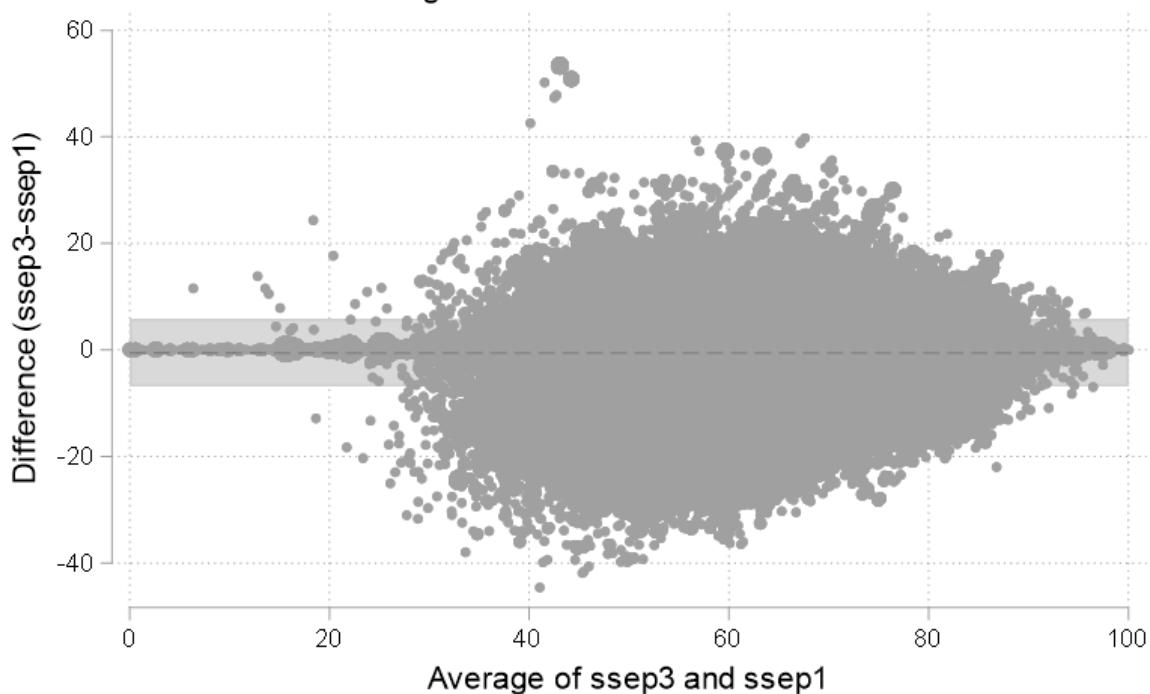
Swiss-SEP 2.0 - deciles		Swiss-SEP 3.0 - deciles								Total	
		9	10								
1	245	19	152,718								
2	683	155	152,717								
3	1,764	295	152,718								
4	3,360	615	152,739								
5	5,647	1,210	152,695								
6	9,900	2,626	152,717								
7	16,149	5,122	152,718								
8	26,623	12,860	152,721								
9	59,037	31,034	152,722								
10	30,112	95,237	152,708								
Total	153,520	149,173	1,527,173								

3.3 Bland Altman plots of diffs

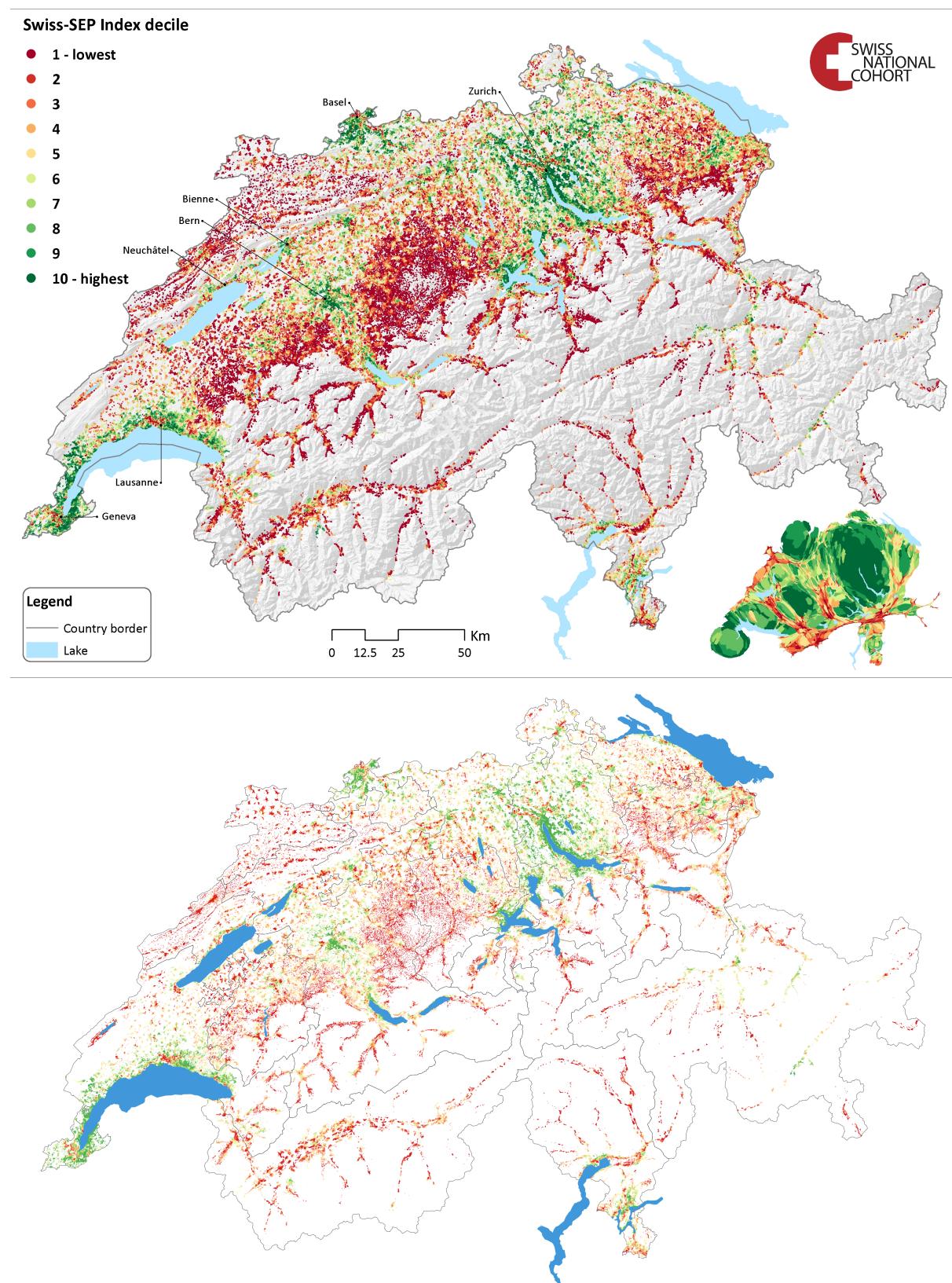
$80429/1527173 = 5.27\%$ outside the limits of agreement
Mean difference -4.978
95% limits of agreement (-20.557, 10.602)
Averages lie between 5.763 and 98.394



$92951/1527173 = 6.09\%$ outside the limits of agreement
Mean difference -0.561
95% limits of agreement (-6.874, 5.752)
Averages lie between 0.000 and 100.000

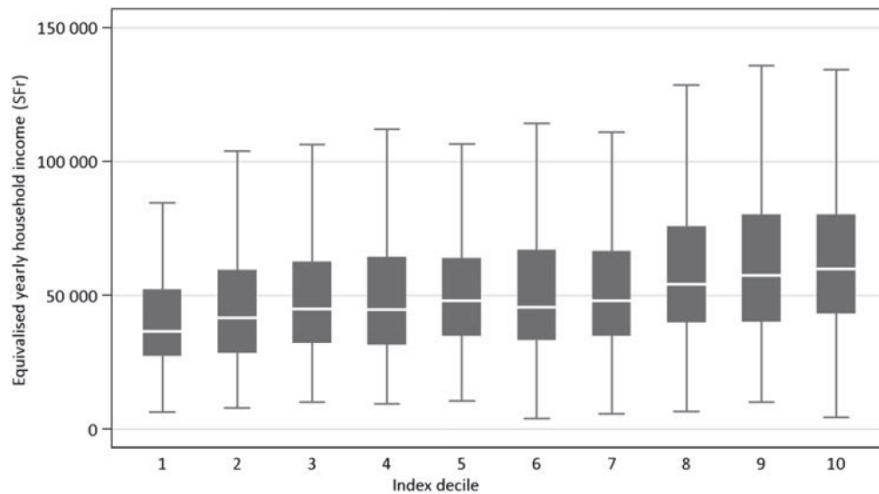


4 Maps

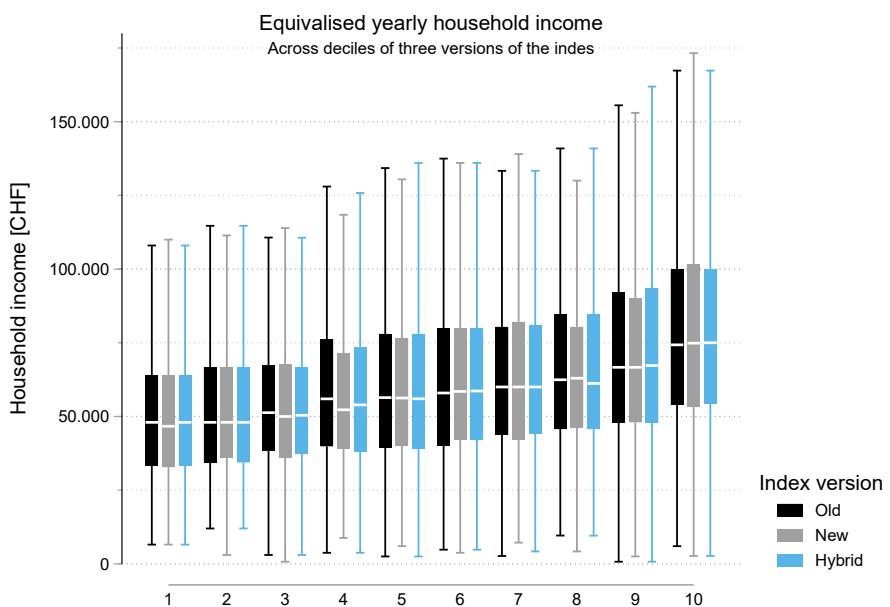


5 Validation - SHP data

5.1 Income graph - original



5.2 Income graph - new indices



5.3 Financial variables table - original

Characteristic	Index decile			Total N (%)	p Value
	1 N (%)	5 N (%)	10 N (%)		
Number of households	437 (100.0)	447 (100.0)	426 (100.0)	4460 (100.0)	—
Mean yearly equivalised* household net income in SFr (SD)	42 329 (21 253)	54 785 (33 488)	72 074 (56 796)	55 372 (38 781)	<0.0001
Saving at least 100 SFr/month					
No answer/does not know	4 (0.9)	5 (1.1)	6 (1.4)	54 (1.2)	<0.0001
Yes	329 (75.3)	366 (81.9)	363 (85.2)	3629 (81.4)	
No	104 (23.8)	76 (17.0)	57 (13.4)	777 (17.4)	
Reason why not saving at least 100 SFr/month					
Inapplicable	333 (76.2)	371 (83.0)	369 (86.6)	3683 (82.6)	<0.0001
Because you cannot afford it	88 (20.1)	66 (14.8)	47 (11.0)	642 (14.4)	
For another reason	16 (3.7)	10 (2.2)	10 (2.3)	135 (3.0)	
Voluntary private pension scheme					
No answer/does not know	9 (2.1)	8 (1.8)	4 (0.9)	67 (1.5)	<0.0001
Yes	210 (48.1)	266 (59.5)	266 (62.4)	2581 (57.9)	
No	218 (49.9)	173 (38.7)	156 (36.6)	1812 (40.6)	
Reason why no voluntary private pension scheme					
Inapplicable	219 (50.1)	274 (61.3)	270 (63.4)	2648 (59.4)	<0.0001
No answer/does not know	1 (0.2)	0 (0.0)	2 (0.5)	25 (0.6)	
Because you cannot afford it	81 (18.5)	53 (11.9)	30 (7.0)	553 (12.4)	
For another reason	136 (31.1)	120 (26.8)	124 (29.1)	1234 (27.7)	
Reception of financial help					
No answer/does not know	1 (0.2)	5 (1.1)	1 (0.2)	23 (0.5)	0.002
Yes	102 (23.3)	75 (16.8)	56 (13.1)	765 (17.2)	
No	334 (76.4)	367 (82.1)	369 (86.6)	3672 (82.3)	
Assessment of household income and expenses					
No answer/does not know	2 (0.5)	3 (0.7)	7 (1.6)	38 (0.9)	<0.0001
Your household can save money	189 (43.2)	233 (52.1)	239 (56.1)	2262 (50.7)	
Your household spends what it earns	212 (48.5)	170 (38.0)	152 (35.7)	1821 (40.8)	
Your household eats into its assets and savings	27 (6.2)	39 (8.7)	23 (5.4)	296 (6.6)	
Your household gets into debt	7 (1.6)	2 (0.4)	5 (1.2)	43 (1.0)	
Financial situation manageable, mean (SD)†	6.6 (2.6)	7.5 (2.3)	8.0 (2.1)	7.3 (2.3)	<0.0001

5.4 Financial variables table - 1.0

Summary for variables: i13eqon
by categories of: ssep1_d (Swiss-SEP 1.0 - deciles)

ssep1_d	mean	sd
1	52394.3	28775.6
5	62061.8	33486.4
10	86319.0	54720.8

Summary for variables: h13i51
by categories of: ssep1_d (Swiss-SEP 1.0 - deciles)

ssep1_d	mean	sd
1	6.8	2.4
5	7.5	2.1
10	8.2	1.8

Savings min. 500 SFrs monthly	Swiss-SEP 1.0 - deciles			Total
	1	5	10	
no answer / doesn't k	17 2.28	20 2.41	14 1.92	51 2.21
yes	354 47.58	480 57.90	519 71.10	1,353 58.75
no	373 50.13	329 39.69	197 26.99	899 39.04
Total	744 100.00	829 100.00	730 100.00	2,303 100.00

Reason why no savings min. 500 Sfrs monthly	Swiss-SEP 1.0 - deciles			Total
	1	5	10	
inapplicable	371 49.87	500 60.31	533 73.01	1,404 60.96
no answer	1 0.13	0 0.00	0 0.00	1 0.04
no answer / doesn't k	0 0.00	1 0.12	0 0.00	1 0.04
because you cannot af	313 42.07	255 30.76	141 19.32	709 30.79
for another reason	59 7.93	73 8.81	56 7.67	188 8.16
Total	744 100.00	829 100.00	730 100.00	2,303 100.00

Savings into 3rd pillar	Swiss-SEP 1.0 - deciles			Total
	1	5	10	
does not know	18 2.42	8 0.97	8 1.10	34 1.48
yes	379 50.94	500 60.31	448 61.37	1,327 57.62
no	347 46.64	321 38.72	274 37.53	942 40.90
Total	744 100.00	829 100.00	730 100.00	2,303 100.00

Reasons why no savings into 3rd pillar	Swiss-SEP 1.0 - deciles			Total
	1	5	10	
inapplicable	397 53.36	508 61.28	456 62.47	1,361 59.10
no answer / doesn't k	9 1.21	3 0.36	1 0.14	13 0.56
because you cannot af	134 18.01	84 10.13	41 5.62	259 11.25
for another reason	204 27.42	234 28.23	232 31.78	670 29.09
Total	744 100.00	829 100.00	730 100.00	2,303 100.00

Financial help: health insurance	Swiss-SEP 1.0 - deciles			Total
	1	5	10	
inaplicable / no answ	7 0.94	8 0.97	4 0.55	19 0.83
yes	190 25.54	170 20.51	89 12.19	449 19.50
no	547 73.52	651 78.53	637 87.26	1,835 79.68
Total	744 100.00	829 100.00	730 100.00	2,303 100.00
Income: Assessment of income and expenses	Swiss-SEP 1.0 - deciles			Total
	1	5	10	
inaplicable / no answ	6 0.81	10 1.21	8 1.10	24 1.04
your household can sa	375 50.40	469 56.57	443 60.68	1,287 55.88
your household spends	280 37.63	275 33.17	205 28.08	760 33.00
your household eats i	65 8.74	59 7.12	70 9.59	194 8.42
your household gets i	18 2.42	16 1.93	4 0.55	38 1.65
Total	744 100.00	829 100.00	730 100.00	2,303 100.00

5.5 Financial variables table - 2.0

Summary for variables: i13eqon
by categories of: ssep2_d (Swiss-SEP 2.0 - deciles)

ssep2_d	mean	sd
1	51405.8	26113.2
5	62935.3	33764.0
10	86560.1	69105.5

Summary for variables: h13i51
by categories of: ssep2_d (Swiss-SEP 2.0 - deciles)

ssep2_d	mean	sd
1	6.8	2.3
5	7.4	2.2
10	8.0	2.0

Savings min. 500 SFrs monthly	Swiss-SEP 2.0 - deciles			Total
	1	5	10	
no answer / doesn't k	23 2.68	11 1.42	22 2.65	56 2.27
yes	390 45.45	431 55.68	560 67.47	1,381 56.09
no	445 51.86	332 42.89	248 29.88	1,025 41.63
Total	858 100.00	774 100.00	830 100.00	2,462 100.00

Reason why no savings min. 500 Sfrs monthly	Swiss-SEP 2.0 - deciles			Total
	1	5	10	
inapplicable	413 48.14	442 57.11	582 70.12	1,437 58.37
no answer	0 0.00	1 0.13	0 0.00	1 0.04
no answer / doesn't k	0 0.00	1 0.13	0 0.00	1 0.04
because you cannot af	358 41.72	263 33.98	182 21.93	803 32.62
for another reason	87 10.14	67 8.66	66 7.95	220 8.94
Total	858 100.00	774 100.00	830 100.00	2,462 100.00

Savings into 3rd pillar	Swiss-SEP 2.0 - deciles			Total
	1	5	10	
does not know	23 2.68	8 1.03	13 1.57	44 1.79
yes	424 49.42	483 62.40	522 62.89	1,429 58.04
no	411 47.90	283 36.56	295 35.54	989 40.17
Total	858 100.00	774 100.00	830 100.00	2,462 100.00

Reasons why no savings into 3rd pillar	Swiss-SEP 2.0 - deciles			Total
	1	5	10	
inapplicable	447 52.10	491 63.44	535 64.46	1,473 59.83
no answer / doesn't k	7 0.82	4 0.52	4 0.48	15 0.61
because you cannot af	139 16.20	76 9.82	57 6.87	272 11.05
for another reason	265 30.89	203 26.23	234 28.19	702 28.51
Total	858 100.00	774 100.00	830 100.00	2,462 100.00

Financial help: health insurance	Swiss-SEP 2.0 - deciles			Total
	1	5	10	
inaplicable / no answ	6 0.70	4 0.52	5 0.60	15 0.61
yes	209 24.36	150 19.38	95 11.45	454 18.44
no	643 74.94	620 80.10	730 87.95	1,993 80.95
Total	858 100.00	774 100.00	830 100.00	2,462 100.00
Income: Assessment of income and expenses	Swiss-SEP 2.0 - deciles			Total
	1	5	10	
inaplicable / no answ	6 0.70	4 0.52	10 1.20	20 0.81
your household can sa	402 46.85	412 53.23	502 60.48	1,316 53.45
your household spends	356 41.49	278 35.92	236 28.43	870 35.34
your household eats i	73 8.51	67 8.66	78 9.40	218 8.85
your household gets i	21 2.45	13 1.68	4 0.48	38 1.54
Total	858 100.00	774 100.00	830 100.00	2,462 100.00

5.6 Financial variables table - 3.0

Summary for variables: i13eqon
by categories of: ssep3_d (Swiss-SEP 3.0 - deciles)

ssep3_d	mean	sd
1	52299.8	28674.5
5	62299.0	33642.6
10	85795.6	53880.8

Summary for variables: h13i51
by categories of: ssep3_d (Swiss-SEP 3.0 - deciles)

ssep3_d	mean	sd
1	6.8	2.4
5	7.5	2.2
10	8.2	1.8

Savings min. 500 SFrs monthly	Swiss-SEP 3.0 - deciles			Total
	1	5	10	
no answer / doesn't k	18 2.43	17 2.15	15 2.01	50 2.20
yes	354 47.84	451 57.16	531 70.99	1,336 58.67
no	368 49.73	321 40.68	202 27.01	891 39.13
Total	740 100.00	789 100.00	748 100.00	2,277 100.00

Reason why no savings min. 500 Sfrs monthly	Swiss-SEP 3.0 - deciles			Total
	1	5	10	
inapplicable	372 50.27	468 59.32	546 72.99	1,386 60.87
no answer	1 0.14	0 0.00	0 0.00	1 0.04
because you cannot af	306 41.35	254 32.19	145 19.39	705 30.96
for another reason	61 8.24	67 8.49	57 7.62	185 8.12
Total	740 100.00	789 100.00	748 100.00	2,277 100.00

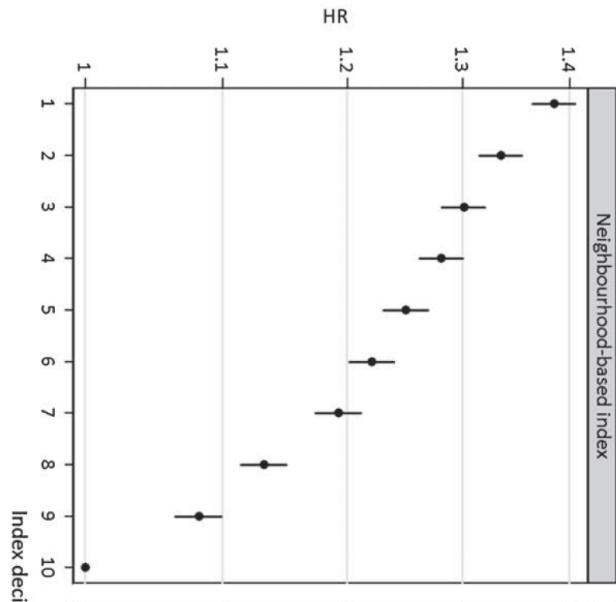
Savings into 3rd pillar	Swiss-SEP 3.0 - deciles			Total
	1	5	10	
does not know	21 2.84	6 0.76	9 1.20	36 1.58
yes	375 50.68	477 60.46	465 62.17	1,317 57.84
no	344 46.49	306 38.78	274 36.63	924 40.58
Total	740 100.00	789 100.00	748 100.00	2,277 100.00

Reasons why no savings into 3rd pillar	Swiss-SEP 3.0 - deciles			Total
	1	5	10	
inapplicable	396 53.51	483 61.22	474 63.37	1,353 59.42
no answer / doesn't k	9 1.22	4 0.51	2 0.27	15 0.66
because you cannot af	136 18.38	79 10.01	42 5.61	257 11.29
for another reason	199 26.89	223 28.26	230 30.75	652 28.63
Total	740 100.00	789 100.00	748 100.00	2,277 100.00

Financial help: health insurance	Swiss-SEP 3.0 - deciles			Total
	1	5	10	
inaplicable / no answ	7 0.95	6 0.76	4 0.53	17 0.75
yes	188 25.41	166 21.04	88 11.76	442 19.41
no	545 73.65	617 78.20	656 87.70	1,818 79.84
Total	740 100.00	789 100.00	748 100.00	2,277 100.00
Income: Assessment of income and expenses	Swiss-SEP 3.0 - deciles			Total
	1	5	10	
inaplicable / no answ	7 0.95	9 1.14	9 1.20	25 1.10
your household can sa	366 49.46	446 56.53	451 60.29	1,263 55.47
your household spends	285 38.51	260 32.95	214 28.61	759 33.33
your household eats i	64 8.65	57 7.22	70 9.36	191 8.39
your household gets i	18 2.43	17 2.15	4 0.53	39 1.71
Total	740 100.00	789 100.00	748 100.00	2,277 100.00

6 Validation - SNC mortality

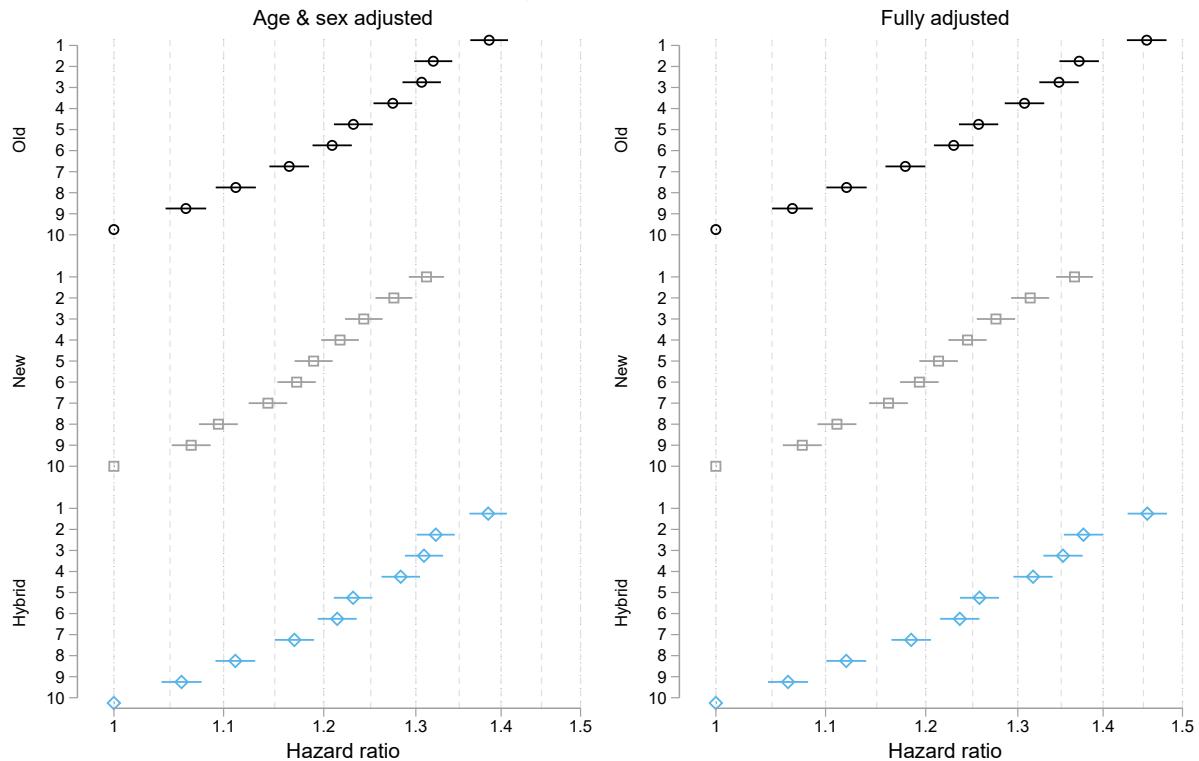
6.1 All cause mortality - original



Note: Calculations from 'old' SNC data from the **2001 - 2008 period**, as described in original paper!

6.2 All cause mortality - new indices

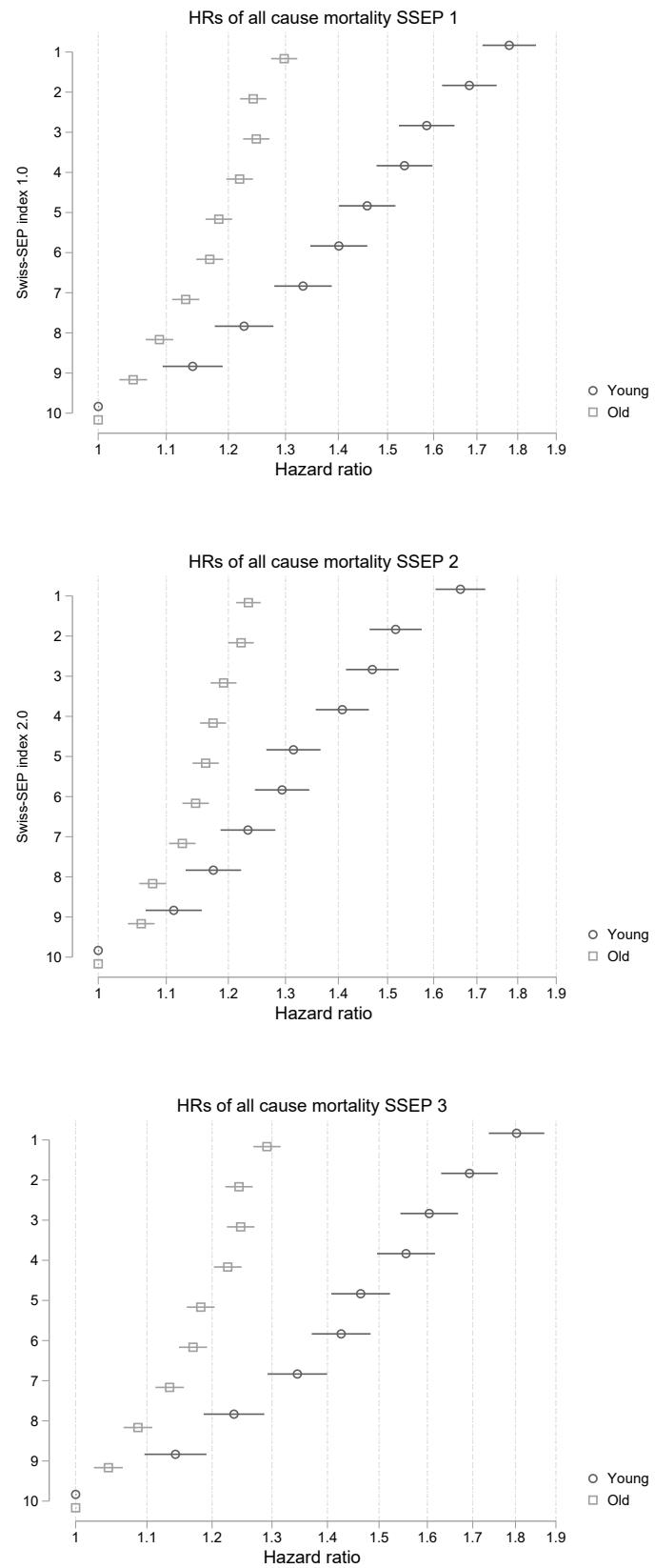
Hazard ratios of all cause mortality across deciles of three versions of the indices



Note: Results from Cox models. Calculations from 'new' SNC data from the **2012 - 2018 period!** 'Age & sex' - adjusted for age (via `stset`) and sex (as in original figure above); 'Adjusted' - additionally adjusted

for civil status, nationality, level of urbanization and language region. This is not the smae adjustment as in
adjsudsted models in original papers since we are missing some crucial variables.

6.3 All cause mortality - three indices, stratified by age



6.4 Cause specific mortality - original

Cause	Age and sex adjusted
	HR (95% CI)
All-causes	1.38 (1.36 to 1.41)
Lung cancer	1.83 (1.71 to 1.95)
Breast cancer	0.93 (0.85 to 1.02)
Prostate cancer	1.17 (1.07 to 1.28)
Cardiovascular diseases	1.48 (1.44 to 1.51)
Myocardial infarction	1.68 (1.57 to 1.80)
Stroke	1.28 (1.20 to 1.36)
Respiratory diseases	1.99 (1.87 to 2.12)
Traffic accidents	2.42 (1.94 to 3.01)
Suicide	0.86 (0.78 to 0.95)

6.5 Cause specific mortality - 1.0

	Age & sex HR	95% CI	Adjusted HR	95% CI
Lung cancer	1.93 (1.79, 2.08)		2.00 (1.84, 2.16)	
Breast can-r	1.09 (0.97, 1.22)		1.13 (1.00, 1.28)	
Prostate c-r	1.15 (1.03, 1.29)		1.18 (1.05, 1.33)	
Cardiovasc-r	1.49 (1.44, 1.54)		1.56 (1.51, 1.61)	
Myocardial-n	1.64 (1.48, 1.80)		1.79 (1.62, 1.99)	
Stroke	1.25 (1.14, 1.36)		1.29 (1.18, 1.42)	
Respiratory	1.81 (1.68, 1.94)		1.78 (1.65, 1.92)	
Traffic ac-s	1.80 (1.36, 2.39)		1.47 (1.09, 1.97)	
Suicide	1.32 (1.14, 1.51)		1.38 (1.19, 1.59)	

Note for both tables: HRs for the 10th (lowest SEP) decile compared to 1st (highest SEP). Breast and prostate cancer: for men and women respectively.

6.6 Cause specific mortality - 2.0 results

	Age & sex HR	95% CI	Adjusted HR	95% CI
Lung cancer	1.79 (1.67, 1.92)		1.84 (1.71, 1.98)	
Breast can-r	1.01 (0.91, 1.13)		1.05 (0.94, 1.17)	
Prostate c-r	1.13 (1.02, 1.26)		1.14 (1.02, 1.27)	
Cardiovasc-r	1.38 (1.34, 1.43)		1.44 (1.39, 1.48)	
Myocardial-n	1.53 (1.40, 1.67)		1.67 (1.52, 1.83)	
Stroke	1.25 (1.15, 1.35)		1.28 (1.18, 1.40)	
Respiratory	1.63 (1.53, 1.74)		1.60 (1.49, 1.72)	
Traffic ac-s	2.13 (1.59, 2.86)		1.80 (1.33, 2.43)	
Suicide	1.31 (1.15, 1.49)		1.37 (1.20, 1.57)	

Note for both tables: HRs for the 10th (lowest SEP) decile compared to 1st (highest SEP). Breast and prostate cancer: for men and women respectively.

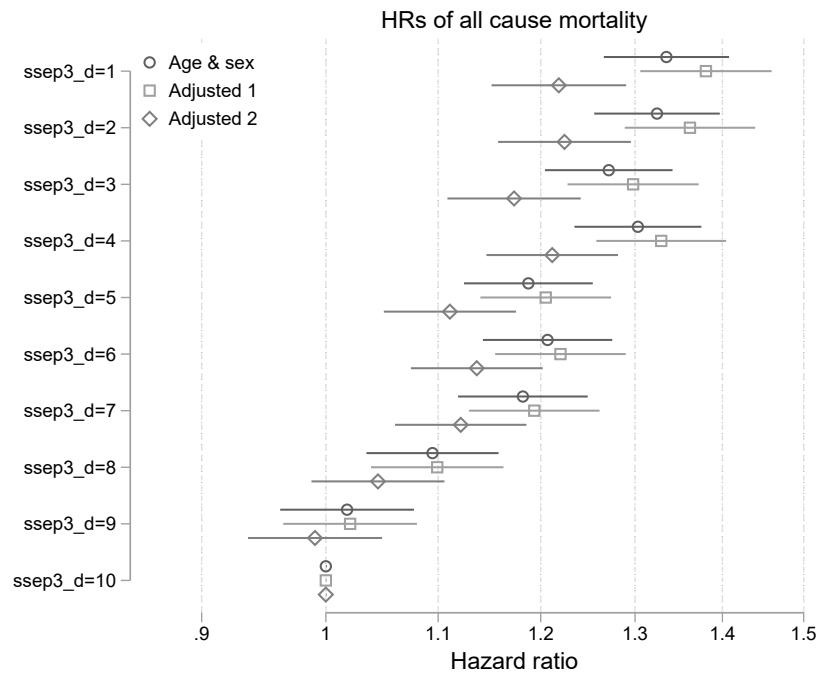
6.7 Cause specific mortality - 3.0 results

	Age & sex HR	95% CI	Adjusted HR	95% CI
Lung cancer	1.93 (1.79, 2.08)		2.01 (1.85, 2.17)	
Breast can-r	1.08 (0.97, 1.22)		1.13 (1.00, 1.27)	
Prostate c-r	1.17 (1.04, 1.30)		1.19 (1.06, 1.34)	
Cardiovasc-r	1.49 (1.44, 1.54)		1.56 (1.51, 1.61)	
Myocardial-n	1.62 (1.47, 1.79)		1.78 (1.61, 1.97)	
Stroke	1.24 (1.14, 1.35)		1.28 (1.17, 1.41)	
Respiratory	1.83 (1.71, 1.97)		1.81 (1.68, 1.96)	
Traffic ac-s	2.05 (1.54, 2.73)		1.69 (1.25, 2.29)	
Suicide	1.34 (1.16, 1.54)		1.41 (1.22, 1.62)	

Note for both tables: HRs for the 10th (lowest SEP) decile compared to 1st (highest SEP). Breast and prostate cancer: for men and women respectively.

7 Validation - SNC SE mortality

7.1 All cause mortality - 3.0



Note: See notes from previous section. 'Adjusted 2' - additionally adjusted for education and occupation.

7.2 Cause specific mortality - 3.0

	Age & sex		Adjusted 1		Adjusted 2	
	HR	95% CI	HR	95% CI	HR	95% CI
Lung cancer	1.92	(1.49, 2.48)	1.98	(1.52, 2.58)	1.45	(1.11, 1.91)
Breast can-r	0.91	(0.63, 1.32)	0.94	(0.64, 1.39)	0.94	(0.63, 1.41)
Prostate c-r	0.77	(0.54, 1.10)	0.77	(0.53, 1.12)	0.78	(0.53, 1.15)
Cardiovasc-r	1.51	(1.35, 1.69)	1.56	(1.38, 1.75)	1.35	(1.20, 1.53)
Myocardial-n	1.50	(1.10, 2.05)	1.58	(1.14, 2.19)	1.32	(0.95, 1.84)
Stroke	1.50	(1.10, 2.05)	1.60	(1.16, 2.20)	1.49	(1.07, 2.06)
Respiratory	2.03	(1.59, 2.59)	1.93	(1.50, 2.50)	1.63	(1.26, 2.13)
Traffic ac-s	1.55	(0.65, 3.70)	1.70	(0.68, 4.26)	1.88	(0.73, 4.86)
Suicide	0.82	(0.51, 1.30)	0.87	(0.53, 1.41)	0.73	(0.44, 1.20)

Note: results of traffic accidents have small number of events resulting in large CI (n=91)