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**Research Report**

**SOEP-Core v37 - HEALTH**

SOEP Survey Papers, No. 1181

**Provided in Cooperation with:**

German Institute for Economic Research (DIW Berlin)

*Suggested Citation:* Grabka, Markus M. (2022) : SOEP-Core v37 - HEALTH, SOEP Survey Papers, No. 1181, Deutsches Institut für Wirtschaftsforschung (DIW), Berlin

This Version is available at:

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# 1181<sup>2022</sup>

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## SOEP-Core v37 – HEALTH

Markus Grabka and SOEP Group

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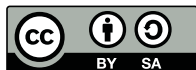
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Please cite this paper as follows:

Markus Grabka and SOEP Group, 2022. SOEP-Core v37 – HEALTH. SOEP Survey Papers 1181: Series D – Variable Descriptions and Coding. Berlin: DIW Berlin/SOEP



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ISSN: 2193-5580 (online)

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# SOEP-Core v37 – HEALTH

Markus Grabka and SOEP Group

2022

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## 1 General Information

Starting in 2002 the SOEP health module in the individual questionnaire has been revised and put into a two year replication period. In the HEALTH-File users find the generated SF-12-Variables and variables on height and weight with imputation flags and a user-friendly longitudinal checked generated variable of the Body Mass Index (BMI). Persons with a successful individual interview ( $\$netto \geq 10$  &  $\$netto < 20$ ) have been selected for the rectype HEALTH. The file has a long-format and additional SORTID with the variable SYEAR (Survey-Year).

In 2006 the SF12 could not any longer been generated for the group of first time respondents (age 16/17 = 307).

In 2010 and 2012 not all sub-samples of the SOEP get the very same questionnaire, thus information to generate MCS and PCS was not surveyed and thus the respective population get a value of “-5” for the variable VALID.

## 2 Variables in File HEALTH

**pid** – Never Changing Person ID

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**syear** – Survey Year

---

1984	12245
1985	11090
1986	10646
1987	10516
1988	10023
1989	9710
1990	13972
1991	13669
1992	13397
1993	13179
1994	13417
1995	13768
1996	13511
1997	13283
1998	14670
... (7 rows omitted)	150639
2006	22665
2007	21232
2008	19945
2009	21035
2010	27124
2011	29264
2012	28520
2013	31523
2014	28042
2015	27743
2016	29870
2017	33265
2018	30997

2019	30397
2020	31083

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

This file contains detailed health information that had been collected since 2002 (wave S) in a two year replication cycle. All persons with successful individual questionnaires have been selected for the rectype HEALTH (\$netto >= 10 & \$netto < 20).

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### cid – Original Household Number, Case ID

---

#### valid – Completeness Of Generation Of SOEPvSF12

---

1	Yes 1	241211
2	No 2	66213
-1	No Answer	0
-2	Does not apply	0
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	20395
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0
-8		422621

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable VALID indicates the completeness status of all twelve variables necessary to calculate the SOEPvSF12 scale.

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### mcs – MCS: Summary Scale Mental (NBS)

---

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable mcs is calculated using explorative factor analysis (PCA, varimax rotation). The mean value of the SOEP 2004 population 50 points and SD of 10 points.

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### pcs – PCS: Summary Scale Physical (NBS)

---

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable pcs is calculated using explorative factor analysis (PCA, varimax rotation). The mean value of the SOEP 2004 population 50 points and SD of 10 points.

*Matthias Nübling, Hanfried H. Andersen, Axel Mühlbacher, Jürgen Schupp, and Gert G. Wagner (2007): Computation of Standard Values for Physical and Mental Health Scale Scores Using the SOEP Version of SF12v2. Schmollers Jahrbuch, Vol. 1278(1), (in print)*

*For more information, contact:* Markus M. Grabka (Tel. +49-30-89789-339 / mgrabka@diw.de)

**pf\_nbs** – Physical Functioning (NBS)

27.2503871917725	20078
35.026439666748	12366
42.8024864196777	55620
50.5785369873047	36145
58.3545875549316	117002
-1	66213
-5	20395
-8	422621

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable pf\_nbs is calculated as a z-transformed scale.

*Matthias Nübling, Hanfried H. Andersen, Axel Mühlbacher, Jürgen Schupp, and Gert G. Wagner (2007): Computation of Standard Values for Physical and Mental Health Scale Scores Using the SOEP Version of SF12v2. Schmollers Jahrbuch, Vol. 1278(1), (in print)*

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**rp\_nbs** – Role Physical (NBS)

21.9236583709717	5191
26.6477699279785	2138
31.3718814849854	16545
36.0959930419922	8336
40.8201065063477	36885
45.5442161560059	15980
50.2683296203613	44865
54.9924430847168	17082
59.716552734375	94189
-1	66213
-5	20395
-8	422621

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable rp\_nbs is calculated as a z-transformed scale.

*Matthias Nübling, Hanfried H. Andersen, Axel Mühlbacher, Jürgen Schupp, and Gert G. Wagner (2007): Computation of Standard Values for Physical and Mental Health Scale Scores Using the SOEP Version of SF12v2. Schmollers Jahrbuch, Vol. 1278(1), (in print)*

*For more information, contact:* Markus M. Grabka (Tel. +49-30-89789-339 / mgrabka@diw.de)

**bp\_nbs** – Bodily Pain (NBS)

23.0029487609863	6334
32.2144432067871	25508
41.4259414672852	49818
50.6374359130859	65032
59.8489303588867	94519



-1	66213
-5	20395
-8	422621

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable `bp_nbs` is calculated as a z-transformed scale.

*Matthias Nübling, Hanfried H. Andersen, Axel Mühlbacher, Jürgen Schupp, and Gert G. Wagner (2007): Computation of Standard Values for Physical and Mental Health Scale Scores Using the SOEP Version of SF12v2. Schmollers Jahrbuch, Vol. 127(1), 171-182.*

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### gh\_nbs – General Health (NBS)

---

24.8463459014893	8316
35.2284049987793	31788
45.610466003418	75033
55.9925231933594	96570
66.3745880126953	29504
-1	66213
-5	20395
-8	422621

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable `gh_nbs` is calculated as a z-transformed scale.

*Matthias Nübling, Hanfried H. Andersen, Axel Mühlbacher, Jürgen Schupp, and Gert G. Wagner (2007): Computation of Standard Values for Physical and Mental Health Scale Scores Using the SOEP Version of SF12v2. Schmollers Jahrbuch, Vol. 127(1), 171-182.*

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### vt\_nbs – Vitality (NBS)

---

26.8213653564453	11953
37.7670745849609	42591
48.7127838134766	104268
59.6584930419922	71501
70.6042022705078	10898
-1	66213
-5	20395
-8	422621

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable `vt_nbs` is calculated as a z-transformed scale.

*Matthias Nübling, Hanfried H. Andersen, Axel Mühlbacher, Jürgen Schupp, and Gert G. Wagner (2007): Computation of Standard Values for Physical and Mental Health Scale Scores Using the SOEP Version of SF12v2. Schmollers Jahrbuch, Vol. 127(1), 171-182.*

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**sf\_nbs** – Social Functioning (NBS)

14.6924066543579	2763
25.299108505249	12258
35.9058113098145	32473
46.5125160217285	48993
57.1192207336426	144724
-1	66213
-5	20395
-8	422621

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable sf\_nbs is calculated as a z-transformed scale.

*Matthias Nübling, Hanfried H. Andersen, Axel Mühlbacher, Jürgen Schupp, and Gert G. Wagner (2007): Computation of Standard Values for Physical and Mental Health Scale Scores Using the SOEP Version of SF12v2. Schmollers Jahrbuch, Vol. 127(1), 171-182.*

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**re\_nbs** – Role Emotional (NBS)

13.3378076553345	1908
18.9306488037109	628
24.5234889984131	7550
30.1163311004639	5378
35.709171295166	24737
41.3020133972168	14223
46.8948554992676	44677
52.4876976013184	14309
58.0805358886719	127801
-1	66213
-5	20395
-8	422621

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable re\_nbs is calculated as a z-transformed scale.

*Matthias Nübling, Hanfried H. Andersen, Axel Mühlbacher, Jürgen Schupp, and Gert G. Wagner (2007): Computation of Standard Values for Physical and Mental Health Scale Scores Using the SOEP Version of SF12v2. Schmollers Jahrbuch, Vol. 127(1), 171-182.*

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**mh\_nbs** – Mental Health (NBS)

19.7313137054443	1012
25.8378124237061	2830
31.9443092346191	13011
38.0508079528809	25848
44.1573028564453	46506

50.263801574707	49420
56.3702964782715	58814
62.4767951965332	31344
68.5832901000977	12426
-1	66213
-5	20395
-8	422621

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable mh\_nbs is calculated as a z-transformed scale.

Matthias Nübling, Hanfried H. Andersen, Axel Mühlbacher, Jürgen Schupp, and Gert G. Wagner (2007): *Computation of Standard Values for Physical and Mental Health Scale Scores Using the SOEP Version of SF12v2. Schmollers Jahrbuch, Vol. 127(1), 171-182.*

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### bmi – Body-Mass-Index

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable BMI represents the Body-Mass-Index of the respondents. It is calculated from the variables BWEIGHT and HEIGHT by the formula  $BMI=BWEIGHT/(HEIGHT)**2$ .

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### height – Body Height In cm

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable HEIGHT represents the body Height of the respondents in cm which is directly asked in every second year since 2002 (Wave S). The corresponding variable can be found in the \$P-file (for teenagers who has responded to the Youth-questionnaire the respective information was surveyed the first time in 2006 wave W and can be found in the \$PAGE17-files).

In contrast to the \$P/\$PAGE17-variable the variable HEIGHT is edited with respect to item-nonresponse and outliers.

In case of item-nonresponse missing values are imputed by the most recent existing value. It is assumed that for a two-year-period a change of body height of more than 10 cm is implausible if the values of the other observation years differ only in a range of at most 2 cm. Thus the respective information is imputed by the average of the other values of the respondent.

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### fheight – Imputation Flag For Height\$\$

0	No Imputation 0	239280
1	Imputed Or Edited 1	57
-1	No Answer	0
-2	Does not apply	0
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	24820

-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0
-8		486283

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable FHEIGHT\$\$ designates imputations of item-nonresponse respectively edited values in the variable HEIGHT.

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### weight – Weight in kg

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*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable BWEIGHT represents the body weight of the respondents in kg which is directly asked in every second year since 2002 (Wave S). The corresponding variable can be found in the \$P-file (for teenagers who has responded to the Youth-questionnaire the respective information was surveyed the first time in 2006 wave W and can be found in the \$PAGE17-files).

In contrast to the \$P/\$PAGE17-variable the variable BWEIGHT is edited with respect outliers but not imputed for item-nonresponse.

It is assumed that for a two-year-period a change of body weight of more than 35 kg is implausible if the values of the other observation years differ only in a range of at most 7 kg. Thus the respective information is imputed by the average of the other values of the respondent.

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### fweight – Imputation Flag For Weight\$\$

---

0	No Imputation 0	239244
1	Imputed Or Edited 1	93
-1	No Answer	0
-2	Does not apply	0
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	24820
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0
-8		486283

*Waves:* This information is available since 2002 (wave S) and will be provided for every second year.

The variable FWEIGHT\$\$ designates imputations of item-nonresponse respectively edited values in the variable BWEIGHT.

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