## Classification of Findings

<table>
<thead>
<tr>
<th>Correlate Code</th>
<th>Correlate Name</th>
<th>Number of Studies on this Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>P 13</td>
<td>PSYCHO-SOMATIC COMPLAINTS</td>
<td>0</td>
</tr>
<tr>
<td>P 13.1</td>
<td>Psycho-somatic career</td>
<td>0</td>
</tr>
<tr>
<td>P 13.1.1</td>
<td>Earlier psycho-somatic complaints</td>
<td>4</td>
</tr>
<tr>
<td>P 13.1.2</td>
<td>Change in psycho-somatic complaints</td>
<td>0</td>
</tr>
<tr>
<td>P 13.1.3</td>
<td>History of current complaints</td>
<td>0</td>
</tr>
<tr>
<td>P 13.1.4</td>
<td>Later psycho-somatic complaints</td>
<td>3</td>
</tr>
<tr>
<td>P 13.2</td>
<td>Current psycho-somatic complaints</td>
<td>30</td>
</tr>
<tr>
<td>P 13.2.1</td>
<td>Current physical complaints</td>
<td>2</td>
</tr>
<tr>
<td>P 13.2.2</td>
<td>Current mental complaints</td>
<td>14</td>
</tr>
<tr>
<td>P 13.3</td>
<td>Attitudes to psycho-somatic complaints</td>
<td>0</td>
</tr>
</tbody>
</table>

Appendix 1: Happiness queries used
Appendix 2: Statistics used
Appendix 3: About the World Database of Happiness
Appendix 4: Further Findings in the World Database of Happiness
Appendix 5: Related Topics

Cite as: Veenhoven, R.: Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS
World Database of Happiness. Internet: www.eur.nl/fsw/research/happiness
Erasmus University Rotterdam, 2003, Netherlands
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

<table>
<thead>
<tr>
<th>Study</th>
<th>BACHM 1978*</th>
</tr>
</thead>
</table>

**Reported in:** Bachman, J. G., O'Malley, P. M., Johnston, J.
Youth in transition, vol. VI: Adolescence to adulthood, change and stability in the Institute for Social Research, University of Michigan, Ann Arbor, Michigan, 1978

**Population:** Public highschool boys followed 8 years from grade 10, USA, 1966-74

<table>
<thead>
<tr>
<th>Sample:</th>
<th>Non-Response:</th>
</tr>
</thead>
</table>

2.8% at T1,
17.2% at T2,
21.0% at T3,
28.9% at T4,
28.5% at T5

<table>
<thead>
<tr>
<th>N:</th>
<th>t1 - T5:</th>
</tr>
</thead>
</table>

2213/1886/1799/
1620/1628

**Measured Correlate**

<table>
<thead>
<tr>
<th>Class:</th>
<th>Earlier psycho-somatic complaints Code: P 13.1.1</th>
</tr>
</thead>
</table>

**Measurement:** 
Mean based on an 18-item checklist of physical complaints, including such questions as: "Have you ever had spells of dizziness?", "Are you ever bothered by nightmares?"
Scale: 1.00 = never to 5.00 = always.
Assessed at T1, T2, T3, and T4

**Measured Values:**

**Error Estimates:**

**Remarks:**

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-HP/g/mq/v/5/a</td>
<td>tau=-p&lt;.001</td>
<td></td>
</tr>
</tbody>
</table>

Happiness Query | Statistics
---|---
O-HP/g/mq/v/5/a | tau=-p<.001

<table>
<thead>
<tr>
<th>Happiness</th>
<th>Somatic symptoms</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1</td>
<td>.33 T2 T3 T4</td>
</tr>
<tr>
<td>T2</td>
<td>.28 T3 T4</td>
</tr>
<tr>
<td>T3</td>
<td>.22 T4 T4</td>
</tr>
<tr>
<td>T4</td>
<td>.24 .28 .30</td>
</tr>
</tbody>
</table>

All significant (p < .001)
### Study

COSTA 1980/2

**Reported in:** Costa, P.T. & McCrae, R.R.  
Influence of extraversion and neuroticism on subjective well-being: happy and unhappy people.  

**Population:** 25-75 aged white males (largely veterans), followed 10 years, USA, 1965-76

**Sample:**

**Non-Response:** 234

**Class:** Earlier psycho-somatic complaints  
Code: P 13.1.1

**Measurement:**  
Cattell (1973) Sixteen Personality Factor Questionnaire  
Assessed at T1 (10 years ago)

**Measured Values:**

**Error Estimates:**

**Remarks:**

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
</table>
| A-BB/cy/mq/v/2/a | r=-.30 p<.001 | Hedonic level assessed at T2  
NAS: r = +.39 (001)  
PAS: r = -.08 ns |
Study COSTA 1981

Reported in: Costa, P.T., McCrae, R.R. & Morris, A.H.
Personal adjustment to aging: Longitudinal prediction from neuroticism and extraversion.

Population: 17-97 aged males, visitors of the Gerontology Research Centre, followed ± 10 years
Baltimore, USA. 1958-70

Sample: Attrition 79% at T3, mostly among psychologically least adjusted

N: 557 at T1, 423 at T2, 117 at T3

Measured Correlate

Class: Earlier psycho-somatic complaints
Code: P 13.1.1

High loadings on: emotional stability, objectivity, friendliness and personal relationships.

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-A/h/sq/v/3/a</td>
<td>r=</td>
<td>p&lt;.s</td>
</tr>
<tr>
<td></td>
<td>T1 neuroticism by T1 happiness:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Young (18-49): r= -.17 (001)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Old (50-97): r= -.15 (01)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>r=-.19</td>
<td>p&lt;.01</td>
</tr>
<tr>
<td></td>
<td>T1 neuroticism by T2 happiness (2-10 yrs later)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>r=-.11</td>
<td>ns</td>
</tr>
<tr>
<td></td>
<td>T1 neuroticism by T3 happiness (10-17 yrs later)</td>
<td></td>
</tr>
</tbody>
</table>

World Database of Happiness: www.eur.nl/fsw/research/happiness
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

Correlate Code: P 13

Study ORMEL 1980 Page in Report: 350,250,60

Reported in: Ormeling, H.
Moeite met leven of een moeilijk leven (Difficulty in living or a difficult life)
Dissertation 1980, University of Groningen, the Netherlands, publisher: Konstapel, Groningen, the Netherlands.

Population: 15-60 aged, general public, followed 12 month, The Netherlands, 1967-77

Sample: Non-Response: 18%
N: 296

Measured Correlate

Class: Earlier psycho-somatic complaints Code: P 13.1.1
Measurement: 14-item additive index about occurrence of neurotic symptoms. 0: 'not often', 1: 'often' or no answer.
Typical items are:
- Do you sometimes feel very unhappy without knowing why?
- Are you dizzy sometimes?
- Do your troubles often prevent you from falling asleep?
- Do you sometimes have the feeling that your life is senseless?
Corrected at T1(1970)

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query Statistics Remarks
A-BB/cw/mq/v/4/c r=.40 p<.01 T2 happiness by T1 neuroticism
r=-.44 p<.01 T3 happiness by T1 neuroticism.

βL=-.24 T2 happiness by T1 neuroticism.
βL path coefficient in a LISREL model, also involving self-esteem, internal control, intimacy with partner, adequacy of coping, self- and externally induced burdens.

βL=-.36 T3 happiness by T1 neuroticism.
βL path coefficient in a LISREL model, also involving self-esteem, internal control, intimacy with partner, quality of life and adequacy of coping.
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

Correlate Code: P 13

$\beta_L = -.32 \quad p < .01$

$T_2$ happiness by $T_1$ neuroticism.
$\beta_L$ path coefficient in a LISREL model, also involving self esteem, internal control, unhappy childhood and traumatic childhood experiences.
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

Correlate Code: P 13

**Study**  
**BACHM 1978**

* Reported in:  
Bachman, J. G., O'Malley, P. M., Johnston, J.  
Youth in transition, vol. VI: Adolescence to adulthood, change and stability in the lives  
Institute for Social Research, University of Michigan, Ann Arbor, Michigan, 1978

* Population:  
Public highschool boys followed 8 years from grade 10, USA, 1966-74

* Sample:

Non-Response:  
2.8% at T1,  
17.2% at T2,  
21.0% at T3,  
28.9% at T4,  
28.5% at T5

N:  
T1 - T5:  
2213/1886/1799/ 
1620/1628

---

**Measured Correlate**

* Class:  
Later psycho-somatic complaints  
Code: P 13.1.4

* Measurement:  
Mean based on an 18-item checklist of physical complaints, including such questions as: "Have you ever had spells of dizziness?", "Are you ever bothered by nightmares?"  
Scale: 1.00 = never to 5.00 = always. Assessed at T1, T2, T3 and T4

* Measured Values:

* Error Estimates:

* Remarks:

---

**Observed Relation with Happiness**

**Happiness Query**

O-HP/g/mq/v/5/a

**Statistics**

tau=-  
p<.001

**Remarks**

Somatic symptoms

<table>
<thead>
<tr>
<th>Happiness T1</th>
<th>T2</th>
<th>T3</th>
<th>T4</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1</td>
<td>-.33</td>
<td>-.26</td>
<td>-.22</td>
</tr>
<tr>
<td>T2</td>
<td>-.28</td>
<td>-.35</td>
<td>-.27</td>
</tr>
<tr>
<td>T3</td>
<td>-.22</td>
<td>-.31</td>
<td>-.40</td>
</tr>
<tr>
<td>T4</td>
<td>-.24</td>
<td>-.28</td>
<td>-.30</td>
</tr>
</tbody>
</table>

All significant (0.01)

### Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

Correlate Code: P 13

#### Study

**BRENN 1979**  
Reported in: Brenner, B.  
Depressed affect as a cause of associated somatic problems.  
*Psychological Medicine, 1979, vol.9, p. 737-746.*

**Population:** 18+ aged, general public, Washington County, USA, 1973

**Sample:**

**Non-Response:** Non-response: 23% Not selected for follow up; 36%  
Dropout: ±23 %  
**N:** 1755

#### Measured Correlate

**Class:** Later psycho-somatic complaints  
**Code:** P 13.1.4

**Measurement:** Three-item index:  
1. 'I felt that everything I did was an effort.'  
2. 'I did not feel like eating; my appetite was poor.'  
3. 'My sleep was restless.'  
Subjects were asked for each item to indicate how often they felt this way during the past week: 1: rarely or none of the time, 2: some or a little of the time, 3: occasionally or a moderate amount of time, 4: most or all of the time. These categories were recoded in: rarely experiencing depressed affect (1), occasionally experiencing depressed affect (2+3), frequently experiencing depressed affect (4). Items are drawn from the 20-item CES-D scale of depressive symptomatology (Comstock & Helsing, 1976; Radloff, 1977).

**Measured Values:**

**Error Estimates:**

**Remarks:**

#### Observed Relation with Happiness

**Happiness Query**  
A-BBr/cw/mq/v/4/b

<table>
<thead>
<tr>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>G = -.32 p &lt; .001</td>
<td>Synchronic correlation at T1.</td>
</tr>
</tbody>
</table>

G = -.06 ns  
Synchronic correlation at T1 controlled for happiness (AFF 2.2a).
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

**Study**  
**MCCRA 1990**  
**Page in Report:** 23/24

**Reported in:** McCrae, R.R. & Costa Jr, P.T.  
Adding Liebe und Arbeit. The full five factor model and Well-being  

**Population:** Single males and couples followed 7 years, Baltimore, USA, 1979-86  

**Sample:**  
Non-Response:  
N: 429

**Measured Correlate**  
Class: Later psycho-somatic complaints  
Code: P 13.1.4

**Measurement:** Index of closed questions answered by Ss and spouse. NEO  
Personality Inventory (Costa ea 1985). Typical characteristics of high scores are:  
- Worrying, nervous, emotional  
- Inadequate, insecure  
- Hypochondriacal  
Assessed at T1(1979), T2(1981) and T3(1986)

**Measured Values:**

**Error Estimates:**

**Remarks:**

**Observed Relation with Happiness**

**Happiness Query**  
**Statistics**  
**Remarks**

A-BB/cm/mq/v/2/a  
r=-.33  p<.01  T1 happiness (ABS) by T3 self-rated neuroticism

A-BB/cm/mq/v/2/a  
r=-.37  p<.01  T2 happiness (ABS) by T3 self-rated neuroticism

A-BB/cm/mq/v/2/a  
r=-.44  p<.01  T1 happiness (ABS) by T3 spouse-rated neuroticism

A-BB/cm/mq/v/2/a  
r=-.33  p<.01  T2 happiness (ABS) by T3 spouse-rated neuroticism

O-DT/u/sq/v/7/a  
r=-.27  p<.01  T1 happiness (LS) by T3 self-rated neuroticism

O-DT/u/sq/v/7/a  
r=-.32  p<.01  T2 happiness (LS) by T3 self-rated neuroticism

O-DT/u/sq/v/7/a  
r=-.37  p<.01  T1 happiness (LS) by T3 spouse-rated neuroticism

O-DT/u/sq/v/7/a  
r=-.38  p<.01  T2 happiness (LS) by T3 spouse-rated neuroticism
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS  
Correlate Code: P 13

<table>
<thead>
<tr>
<th>Study</th>
<th>ALLAR 1973/1</th>
<th>Page in Report:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reported in:</td>
<td>Allardt, E.</td>
<td></td>
</tr>
<tr>
<td>About dimensions of wellfare:</td>
<td>an explanatory analysis of a comparative Research Reports, no.1, 1973; research group for comparativesociology , University of Helsinki.</td>
<td></td>
</tr>
<tr>
<td>Population:</td>
<td>15-64 aged, general public, Denmark, 1972</td>
<td></td>
</tr>
<tr>
<td>Sample:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-Response:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>N:</td>
<td>1000</td>
<td></td>
</tr>
</tbody>
</table>

Measured Correlate

| Class:                  | Current psycho-somatic complaints Code: P 13.2                              |                |
| Measurement:           | 10 questions on psychosomatic diseases; answer categories: 1=yes, 2=no, 3=can't say, no information |                |
| Measured Values:       |                                                                              |                |
| Error Estimates:       |                                                                              |                |
| Remarks:               |                                                                              |                |

Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-HL/c/sq/v/4/a</td>
<td>rpc=-.30</td>
<td>Controlled for: Income, housing density, education, social status, chronic illness, frequency of meetings with relatives, number of friends, opportunities to make personal contacts, possibilities to decide on matters concerning one's own personal life, number of memberships in clubs and communities, interesting life, easyness of life, loneliness, feelings of being liked, feeling of being able to use knowledge and skills, feeling of chance to succeed, gets sufficient attention, satisfaction with income, age, gender, no. of communities in which lived.</td>
</tr>
</tbody>
</table>
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

Correlate Code: P 13

Study  ALLAR 1973/2

Reported in: Allardt, E.
About dimensions of wellfare: an explanatory analysis of a comparative
Research Reports, no.1, 1973; research group for comparativesociology , University
of Helsinki.

Population: 15-64 aged, general public, Finland, 1972

Sample:

Non-Response:

N: 1000

Measured Correlate

Class: Current psycho-somatic complaints Code: P 13.2

Measurement: 10 questions on psychosomatic diseases; answer categories: 1=yes, 2=no, 3=can’t say, no information

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query Statistics Remarks
O-HL/c/sq/v/4/a rpc=-.35

Controlled for: Income, housing density, education, social status, chronic illness, frequency of meetings with relatives, number of friends, opportunities to make personal contacts, possibilities to decide on matters concerning one’s own personal life, number of memberships in clubs and communities, interesting life, easyness of life, loneliness, feelings of being liked, feeling of being able to use knowledge and skills, feeling of chance to succeed, gets sufficient attention, satisfaction with income, age, gender, no. of communities in which lived.
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

Correlate Code: P 13

Study

ALLAR 1973/3

Reported in:
Allardt, E.
About dimensions of welfare: an explanatory analysis of a comparative
Research Reports, no.1, 1973; research group for comparativesociology , University
of Helsinki.

Population:
15-64 aged, general public, Norway, 1972

Sample:

Non-Response:

N: 1000

Measured Correlate

Class: Current psycho-somatic complaints Code: P 13.2

Measurement:
10 questions on psychosomatic diseases; answer categories: 1=yes, 2=no, 3=can’t say, no information

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query Statistics Remarks
O-HL/c/sq/v/4/a rpc=-.27 Controlled for: Income, housing density, education, social status, chronic illness, frequency of meetings with relatives, number of friends, opportunities to make personal contacts, possibilities to decide on matters concerning one’s own personal life, number of memberships in clubs and communities, interesting life, easyness of life, loneliness, feelings of being liked, feeling of being able to use knowledge and skills, feeling of chance to succeed, gets sufficient attention, satisfaction with income, age, gender, no. of communities in which lived.
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

### Study

**ALLAR 1973/4**

**Reported in:** Allardt, E.  
*About dimensions of welfare: an explanatory analysis of a comparative*  
*Research Reports, no.1, 1973; research group for comparativesociology, University of Helsinki.*

**Population:** 15-64 aged, general public, Sweden, 1972

**Sample:**

**Non-Response:**

**N:** 1000

### Measured Correlate

**Class:** Current psycho-somatic complaints  
*Code: P 13.2*

**Measurement:** 10 questions on psychosomatic diseases; answer categories: 1=yes, 2=no, 3=can't say, no information

### Measured Values:

### Error Estimates:

### Observed Relation with Happiness

**Happiness Query**  
O-HL/c/sq/v/4/a

**Statistics**  
\( rpc = -.25 \)

**Remarks**

*Controlled for: income, housing density, education, social status, chronic illness, freq. of meetings with relatives, no. of friends, opportunities to make personal contacts, no. of memberships in clubs and associations, possibilities to decide on matters concerning one's own personal life, interesting life, easyness of life, loneliness, gets sufficient attention, feeling of being liked, feeling of chance to succeed, feeling of being able to use knowledge and skills, satisfaction with income, age, gender, no. of communities in which lived.*
### Study

**BACHM 1970**  
*Reported in:* Bachman, J.G./Kahn, R.L./Mednick, M./Davidson, T.N.  

**Population:** Public highschool boys followed 3 years from grade 10, USA, 1966-69

**Sample:**

**Non-Response:** 2.8% incomplete information in 1966

**N:** T1:2213, T2: 1886, T3: 1799

### Measured Correlate

**Class:** Current psycho-somatic complaints  
*Code:* P 13.2

**Measurement:** 18-item checklist of physical complaints containing nervousness, headaches, loss of appetite, upset stomach, trouble getting out of bed, work affected by ill health, shortness of breath, hard heart beating, dizziness, nightmares, losing weight, trembling hands, sweating hands, troubles to get going, bad health, having a cold, trouble falling asleep, absent from school because of illness (adapted from Gurin et al., 1960).

**Measured Values:**

**Error Estimates:**

**Remarks:**

### Observed Relation with Happiness

**Happiness Query**  
O-HP/g/mq/v/5/a

**Statistics**  
$r=-.28$  
$p<.001$

**Remarks**  
Both variables assessed at T1.
### Study

<table>
<thead>
<tr>
<th>Reported in:</th>
<th>Bakker, P. &amp; Berg, N. van de</th>
</tr>
</thead>
</table>

| Sample: |
| Non-Response: | 34% refusal and unattainable. |
| N: | 1552 |

### Measured Correlate

| Class: | Current psycho-somatic complaints Code: P 13.2 |
| Measurement: | 88-item inventory containing symptoms indicative of both physical bad health, and psycho-somatic and social problems. |

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-HP/g/sq/ol/7/a</td>
<td>$G = -0.41$, $p &lt; 0.05$</td>
<td>Unaffected by age and sex. Lowest among medium S.E.S. and strongest among lower S.E.S. Stronger among lower educated.</td>
</tr>
</tbody>
</table>
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

**Study**

**BRADB 1965/1**

*Reported in:* Bradburn, N.M. & Caplovitz D.
Reports on happiness
Aldine Publishing Company, 1965, Chicago USA

*Population:* Adult, general public, 4 towns, varying in economic prosperity, Illinois, USA, 1962

*Sample:*

*Non-Response:* -

*N:* 2006

**Measured Correlate**

*Class:* Current psycho-somatic complaints  Code: P 13.2

*Measurement:* 6-item index of closed questions on dizziness, general aches and pains, headaches, muscle twitches, nervousness, and rapid heart beat; during last week.

(items from Stouffer et al. 1949)

**Measured Values:***

**Error Estimates:***

**Remarks:**

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-BB/cw/mq/v/4/e</td>
<td>G = - p&lt;.</td>
<td>Index of Positive Affects: (G' = +.02) (ns)</td>
</tr>
<tr>
<td>O-HL/c/sq/v/3/aa</td>
<td>G = -.33 p&lt;. 01</td>
<td>Index of Negative Affects: (G' = +.53) (01)</td>
</tr>
</tbody>
</table>
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

**Study**

**HAAVI 1971**

*Reported in:* Haavio-Mannila, E.
Satisfaction with family, work, leisure and life among men and women.

*Population:* 15-64 aged, general public, Finland, 1966

*Sample:* 

*Non-Response:* 

*N:* 948

---

**Measured Correlate**

*Class:* Current psycho-somatic complaints  
Code: P 13.2

*Measurement:* Question on anxiousness about things, using a symptoms list, including nervousness, headache, insomnia, excessive appetite, nightmares, loneliness, chest pains, bad appetite, or trembling hands.

*Measured Values:* 

*Error Estimates:* 

*Remarks:* 

---

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-SLW/?/sq/v/3/b</td>
<td>r=-</td>
<td></td>
</tr>
</tbody>
</table>

unmarried employed males : $r = -0.22$ (ns)
unmarried employed females : $r = -0.29$ (0.05)
marrried employed males : $r = -0.18$ (0.05)
marrried employed females : $r = -0.10$ (ns)
marrried non-employed females: $r = +0.07$ (ns)
### Study

**MELEI 1982**

Reported in: Meleis, A.I.
Effects of modernization on Kuwaiti women

Population: 17-40 aged females, Kuwait, 1982

Sample:

Non-Response:

N: 248

### Measured Correlate

Class: Current psycho-somatic complaints Code: P 13.2

Measurement:

Measured Values:

Error Estimates:

Remarks:

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-H?/?/oq/?/0/a</td>
<td>r=-.50</td>
<td>p&lt;.001</td>
</tr>
<tr>
<td></td>
<td>r=-.50</td>
<td></td>
</tr>
<tr>
<td></td>
<td>tb=-.11</td>
<td>p&lt;.02</td>
</tr>
</tbody>
</table>
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

Correlate Code: P 13

Study  
MOSER 1969

Reported in: Moser - Peters, C.M.J.


Sample: 

Non-Response: 14%
unattainable etc.

N: 300

Measured Correlate

Class: Current psycho-somatic complaints  Code: P 13.2

Measurement: 21-item index of psycho-somatic complaints (VOEG scale; see Dirken, 1967)
no complaints / some complaints / a lot of complaints.

Measured Values:

Error Estimates: 

Remarks:

Observed Relation with Happiness

Happiness Query  Statistics  Remarks

O-HL/c/sq/v/5/c  G=-.10  ns  U-shaped curve: Ss with some complaints being most happy.
DM=-  p<.05
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

<table>
<thead>
<tr>
<th>Study</th>
<th>MOSER 1969</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reported in:</td>
<td>Moser - Peters, C.M.J.</td>
</tr>
<tr>
<td>Sample:</td>
<td></td>
</tr>
<tr>
<td>Non-Response:</td>
<td>14% unattainable etc.</td>
</tr>
<tr>
<td>N:</td>
<td>300</td>
</tr>
</tbody>
</table>

Measured Correlate

- **Class:** Current psycho-somatic complaints  
- Code: P 13.2
- **Measurement:** Direct question: Have you taken 'something against the nerves' during the last 14 days? Nothing vs swallowed something.

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-HL/c/sq/v/5/c</td>
<td>G=-.41</td>
<td>p&lt;.01</td>
</tr>
</tbody>
</table>
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

Correlate Code: P 13

Study

NEUBE 1978

Reported in: Neuberger, O. & Allerbeck, M.
Messung und Analyse von Arbeitszufriedenheit. (Measurement and Analysis of Work-Verlag Hans Huber, 1978, Bern, Switzerland

Population: Employees, glass-repairing industry, West-Germany, 1976

Sample:

Non-Response:

N: 106

Measured Correlate

Class: Current psycho-somatic complaints  Code: P 13.2

Measurement: Index of direct questions about:
Psychosomatic complaints, respectively the amount in which bodily symptoms are consciously registrated.
Part of 114 item Freiburger Persönlichkeits-Inventar (Freiburger Personality Inventory: Fahrenberg & Selg, 1973, short form A).

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query Statistics Remarks

O-SLS/c/sq/t/7/a r=-.28 p<.05

Print date: 7-2-2003  World Database of Happiness: www.eur.nl/fsw/research/happiness  Page 21 of 77
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS               Correlate Code: P 13

Study                NEUBE 1978                                      Page in Report:  147

  Reported in:        Neuberger, O. & Allerbeck, M.
                     Messung und Analyse von Arbeitszufriedenheit. (Measurement and Analysis of Work-
                     Verlag Hans Huber, 1978, Bern, Switzerland

  Population:        Employees, glass-repairing industry, West-Germany, 1976
  Sample:            
  Non-Response:      N: 106

Measured Correlate

  Class:              Current psycho-somatic complaints  Code: P 13.2
  Measurement:       Index of direct questions about:
                     Psychosomatic complaints, respectively the amount in which bodily
                     symptoms are consciously registrated.
                     Part of 114 item Freiburger Persönlichkeits-Inventar (Freiburger
                     Personality Inventory: Fahrenberg & Selg, 1973, short form A).

Measured Values:

  Error Estimates:

  Remarks:

Observed Relation with Happiness

  Happiness Query       Statistics       Remarks
  O-SLS/c/sq/t/7/a           r=-.28     p<.05

Print date: 7-2-2003         World Database of Happiness: www.eur.nl/fsw/research/happiness   Page 22 of 77
<table>
<thead>
<tr>
<th>Study</th>
<th>NEUBE 1978/2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reported in</td>
<td>Neuberger, O. &amp; Allerbeck, M.</td>
</tr>
<tr>
<td>Messung und Analyse von Arbeitszufriedenheit. (Measurement and Analysis of Work-Zufriedenheit)</td>
<td></td>
</tr>
<tr>
<td>Population</td>
<td>Employees, commercial and textile-manufacturing occupations, West-Germany, 1977</td>
</tr>
<tr>
<td>Sample</td>
<td>110</td>
</tr>
</tbody>
</table>

**Measured Correlate**

| Class                  | Current psycho-somatic complaints Code: P 13.2 |
| Measurement            | Index of direct questions about:  
Psychosomatic complaints, respectively the amount in which bodily symptoms are consciously registrated.  
Part of 114 item Freiburger Persönlichkeits Inventar (Freiburger Personality Inventory: Fahrenberg & Selg, 1973, short form A). |
| Measured Values        | |
| Error Estimates        | |
| Remarks                | |

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-SLS/c/sq/t/7/a</td>
<td>r = ns</td>
<td></td>
</tr>
<tr>
<td>Study</td>
<td>NEUBE 1978/2</td>
<td>Page in Report: 147</td>
</tr>
<tr>
<td>---------------</td>
<td>-------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>Reported in</td>
<td>Neuberger, O. &amp; Allerbeck, M.</td>
<td>Measurement and Analysis of Work-Zufriedenheit. (Measurement and Analysis of Work-Zufriedenheit)</td>
</tr>
<tr>
<td>Population</td>
<td>Employees, commercial and textile-manufacturing occupations, West-Germany, 1977</td>
<td></td>
</tr>
<tr>
<td>Sample</td>
<td>Non-Response:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>N: 110</td>
<td></td>
</tr>
</tbody>
</table>

### Measured Correlate

<table>
<thead>
<tr>
<th>Class:</th>
<th>Current psycho-somatic complaints Code: P 13.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement:</td>
<td>Index of direct questions about: Psychosomatic complaints, respectively the amount in which bodily symptoms are consciously registrated. Part of 114 item Freiburger Persönlichkeits Inventar (Freiburger Personality Inventory: Fahrenberg &amp; Selg, 1973, short form A).</td>
</tr>
</tbody>
</table>

### Measured Values:

### Error Estimates:

### Remarks:

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-SLS/c/sq/t/7/a</td>
<td>r = ns</td>
<td></td>
</tr>
</tbody>
</table>
### Study

**NEUBE 1978/3**

*Reported in:* Neuberger, O. & Allerbeck, M.  
Messung und Analyse von Arbeitszufriedenheit. (Measurement and Analysis of Work-Satisfaction)  
Verlag Hans Huber, 1978, Bern, Switzerland

*Population:* Employees, metal-industry, West-Germany, 1977

*Sample:*  
*Non-Response:*  
*N:* 84

### Measured Correlate

**Class:** Current psycho-somatic complaints  
**Code:** P 13.2

**Measurement:**  
Index of direct questions about:  
Psychosomatic complaints, respectively the amount in which bodily symptoms are consciously registered.  
Part of 114 item Freiburger Persönlichkeits-Inventar (Freiburger Personality Inventory: Fahrenberg & Selg, 1973, short form A).

**Measured Values:**  
**Error Estimates:**  
**Remarks:**

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-SLS/c/sq/t/7/a</td>
<td>r = ns</td>
<td></td>
</tr>
</tbody>
</table>

---
# Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

## Correlate Code: P 13

### Study

**NEUBE 1978/3**  
**Reported in:** Neuberger, O. & Allerbeck, M.  
Messung und Analyse von Arbeitszufriedenheit. (Measurement and Analysis of Work-  
Verlag Hans Huber, 1978, Bern, Switzerland)

**Population:** Employees, metal-industry, West-Germany, 1977

**Sample:**

**Non-Response:**

**N:** 84

### Measured Correlate

**Class:** Current psycho-somatic complaints  
**Code:** P 13.2

**Measurement:**  
Index of direct questions about:  
Psychosomatic complaints, respectively the amount in which bodily  
symptoms are consciously registered.  
Part of 114 item Freiburger Persönlichkeits-Inventar (Freiburger Personality Inventory: Fahrenberg & Selg, 1973, short form A).

**Measured Values:**

**Error Estimates:**

**Remarks:**

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-SLS/c/sq/t/7/a</td>
<td>r = ns</td>
<td></td>
</tr>
</tbody>
</table>

---

Print date: 7-2-2003  
World Database of Happiness: www.eur.nl/fsw/research/happiness  
Page 26 of 77
<table>
<thead>
<tr>
<th>Study</th>
<th>NEUBE 1978/4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reported in:</td>
<td>Neuberger, O. &amp; Allerbeck, M.</td>
</tr>
<tr>
<td>Messung und Analyse von Arbeitszufriedenheit. (Measurement and Analysis of Work-Verlag Hans Huber, 1978, Bern, Switzerland</td>
<td></td>
</tr>
<tr>
<td>Population:</td>
<td>Skilled labourers, West-Germany, 1976</td>
</tr>
<tr>
<td>Sample:</td>
<td></td>
</tr>
<tr>
<td>Non-Response:</td>
<td>55</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Measured Correlate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class:</td>
</tr>
<tr>
<td>Measurement:</td>
</tr>
<tr>
<td>Measured Values:</td>
</tr>
<tr>
<td>Error Estimates:</td>
</tr>
<tr>
<td>Remarks:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Observed Relation with Happiness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Happiness Query</td>
</tr>
<tr>
<td>O-SLS/c/sq/f/7/a</td>
</tr>
</tbody>
</table>
### Study

**NEUBE 1978/4**

**Reported in:** Neuberger, O. & Allerbeck, M.
Messung und Analyse von Arbeitszufriedenheit. (Measurement and Analysis of Work-
Verlag Hans Huber, 1978, Bern, Switzerland

**Population:** Skilled labourers, West-Germany, 1976

**Sample:**

**Non-Response:**

**N:** 55

---

### Measured Correlate

**Class:** Current psycho-somatic complaints

**Code:** P 13.2

**Measurement:**

- **Index of direct questions about:**
  - Psychosomatic complaints, respectively the amount in which bodily
  symptoms are consciously registred.
  - Part of 114 item Freiburger Persönlichkeits-Inventar (Freiburger
  Personality Inventory: Fahrenberg & Selg, 1973, short form A).

**Measured Values:**

**Error Estimates:**

**Remarks:**

---

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-SLS/c/sq/f/7/a</td>
<td>r=-.34</td>
<td>p&lt;.05</td>
</tr>
</tbody>
</table>
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

Correlate Code: P 13

Study

NEUBE 1978/5

Reported in: Neuberger, O. & Allerbeck, M. Messung und Analyse von Arbeitszufriedenheit. (Measurement and Analysis of Work-
Verlag Hans Huber, 1978, Bern, Switzerland

Population: Administrative employees, General Sickfund, West-Germany, 1976

Sample:

Non-Response:

N: 60

Measured Correlate

Class: Current psycho-somatic complaints Code: P 13.2

Measurement: Index of direct questions about:
Psychosomatic complaints, respectively the amount in which bodily
symptoms are consciously registrated.
Part of 114 item Freiburger Persönlichkeits-Inventar (Freiburger
Personality Inventory: Fahrenberg & Selg, 1973, short form A).

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query Statistics Remarks

O-SLS/c/sq/l7/a r= ns

Page 29 of 77

Print date: 7-2-2003 World Database of Happiness: www.eur.nl/fsrresearch/happiness
### Study

**NEUBE 1978/5**

*Reported in:* Neuberger, O. & Allerbeck, M.
Neueberg und Analyse von Arbeitszufriedenhheit. (Measurement and Analysis of Work-
Verlag Hans Huber, 1978, Bern, Switzerland

*Population:* Administrative employees, General Sickfund, West-Germany, 1976

*Sample:*

*Non-Response:*

| N: | 60 |

---

### Measured Correlate

*Class:* Current psycho-somatic complaints  
*Code:* P 13.2

*Measurement:*

- Index of direct questions about:
  - Psychosomatic complaints, respectively the amount in which bodily
  - symptoms are consciously registred.
  - Part of 114 item Freiburger Persönlichkeits-Inventar (Freiburger
  - Personality Inventory: Fahrenberg & Selg, 1973, short form A).

*Measured Values:*

*Error Estimates:*

*Remarks:*

---

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-SLS/c/sq/t/7/a</td>
<td>r = ns</td>
<td></td>
</tr>
</tbody>
</table>
### Study

**NEUBE 1978/7**

**Reported in:** Neuberger, O. & Allerbeck, M.

**Population:** Employees, assembly-industry, West-Germany, 1976

**Sample:**

**Non-Response:**

**N:** 111

### Measured Correlate

**Class:** Current psycho-somatic complaints  Code: P 13.2

**Measurement:** Index of direct questions about:
Psychosomatic complaints, respectively the amount in which bodily symptoms are consciously registered.
Part of 114 item Freiburger Persönlichkeits-Inventar (Freiburger Personality Inventory: Fahrenberg & Selg, 1973, short form A).

**Measured Values:**

**Error Estimates:**

**Remarks:**

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-SLS/c/sq/f/7/a</td>
<td>r=-.37</td>
<td>p&lt;.01</td>
</tr>
</tbody>
</table>
### Study

**NEUBE 1978/7**

*Reported in:* Neuberger, O. & Allerbeck, M.  
Messung und Analyse von Arbeitszufriedenheit. (Measurement and Analysis of Work-Verlag Hans Huber, 1978, Bern, Switzerland)

*Population:* Employees, assembly-industry, West-Germany, 1976

*Sample:*

*Non-Response:* 111

*N:* 111

### Measured Correlate

<table>
<thead>
<tr>
<th>Class</th>
<th>Current psycho-somatic complaints</th>
<th>Code: P 13.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement</td>
<td>Index of direct questions about: Psychosomatic complaints, respectively the amount in which bodily symptoms are consciously registered. Part of 114 item Freiburger Persönlichkeits-Inventar (Freiburger Personality Inventory: Fahrenberg &amp; Selg, 1973, short form A).</td>
<td></td>
</tr>
</tbody>
</table>

### Measured Values:

### Error Estimates:

### Remarks:

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-SLS/c/sq/f/7/a</td>
<td>$r = -.37$</td>
<td>$p &lt; .01$</td>
</tr>
</tbody>
</table>
Study NEUBE 1978/9

*Reported in:* Neuberger, O. & Allerbeck, M.
Messung und Analyse von Arbeitszufriedenheit. (Measurement and Analysis of Work-
Verlag Hans Huber, 1978, Bern, Switzerland)

*Population:* Young female employees, cure-clinic, West Germany, 1976

*Sample:*

*Non-Response:* 150

*Measured Correlate*

*Class:* Current psycho-somatic complaints  Code: P 13.2

*Measurement:* Index of direct questions about:
Psychosomatic complaints, respectively the amount in which bodily
symptoms are consciously registered. Part of 114 item
Freiburger Persönlichkeits-Inventar (Freiburger Personality

*Measured Values:*

*Error Estimates:*

*Remarks:*

*Observed Relation with Happiness*

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-SLS/c/sq/t/7/a</td>
<td>r=-.23</td>
<td>p&lt;.05</td>
</tr>
</tbody>
</table>
Study NEUBE 1978/9

Reported in: Neuberger, O. & Allerbeck, M.
Messung und Analyse von Arbeitszufriedenheit. (Measurement and Analysis of Work-
Verlag Hans Huber, 1978, Bern, Switzerland

Population: Young female employees, cure-clinic, West Germany, 1976

Sample:
Non-Response: 150

Measured Correlate

Class: Current psycho-somatic complaints Code: P 13.2
Measurement: Index of direct questions about:
Psychosomatic complaints, respectively the amount in which bodily
symptoms are consciously registrated. Part of 114
item Freiburger Persönlichkeits-Inventar (Freiburger Personality

Measured Values:
Error Estimates:
Remarks:

Observed Relation with Happiness

Happiness Query Statistics Remarks
O-SLS/c/sq/f/7/a r=-.23 p<.05
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

**Study**  
PAYNE 1974  

**Reported in:** Payne, R.L.  
N.M. Bradburn's measures of psychological well-being: an attempt at replication.  
Memo No: 61, MRC Social and Applied Psychology. Unit, Dpt.ofPsychology  

**Population:** Employed males, supervising jobs, England, 197?

**Sample:**

**Non-Response:** 4% incomplete.

**N:** 192

---

**Measured Correlate**

**Class:** Current psycho-somatic complaints  
**Code:** P 13.2

**Measurement:** 13-item index of physical and psychological symptoms; e.g. dizziness, headaches, upset stomach, nervousness.

**Measured Values:**

**Error Estimates:**

**Remarks:**

---

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
</table>
| A-BB/cm/mq/v/5/a | G=- | Index of Positive Affects: G = +.02  
Index of Negative Affects: G = +.13 |

---

Print date: 7-2-2003  
World Database of Happiness: www.eur.nl/fsw/research/happiness  
Page 35 of 77
Study SCHUL 1985B

Reported in: Schulz, W.; Költringer, R.; Norden, G.; Tüchler, H. Lebensqualität in Osterreich (Quality-of-life in Austria) Research paper nr 10/1, Institut für Soziologie, University of Vienna, Austria 1985

Population: Adults, non-institutionalized, Austria, 1984

Sample: ?
Non-Response: 1776
N: 52,54,143

Measured Correlate

Class: Current psycho-somatic complaints Code: P 13.2
Measurement: Five item index of direct questions on psychosomatic diseases (ulserpains, headaches, heart beatings, sleeplessness, sweating). Answer categories yes/no.

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query Statistics Remarks
O-QL?/c/mq/v/5/a r=-.34 8 controlled for: gender, age, community size, education, professional status, marital status, income, body weight, healthy eating habits, weight control, alcohol consumption, physical fitness activity, illness and satisfaction with health. 

Beta=-.1 p<.05
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

Reported in: VENTE 1995

Ventegodt, S.
Livskvalitet i Danmark. (Quality of Life in Denmark)
Forskningscentrets Forlag (The Quality of Life Research Center), København, Denmark,
ISBN 8790190017

Population: 18-88 aged, general public, Denmark, 1993
Sample: Non-probability purposive sample (unspecified)
Non-Response: 39%
N: 1494

Measured Correlate

Class: Current psycho-somatic complaints Code: P 13.2
Measurement: Suffer a lot from these health problems:
a: no severe inconvenience
b: pain/discomfort shoulder/nap of neck
c: pain/discomfort back/loin
d: discomfort arms, legs, hip or joints
e: headache
f: palpitations
g: nervousness, anxiety
h: difficult sleeping or insomnia
i: melancholy, depressed or unhappy
j: tiredness
k: stomach pain
l: indigestion or diarrhoea/constipation
m: eczema, rash itching
n: cold, head cold or cough
o: breathing difficulties
p: discomfort or problems in the internal female sexual organs


Error Estimates:
Remarks:

Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-AOL/m/sq/v/5/a</td>
<td>DMt=</td>
<td></td>
</tr>
<tr>
<td>a: Mt=8.20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b: Mt=6.59</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c: Mt=6.63</td>
<td></td>
<td></td>
</tr>
<tr>
<td>d: Mt=6.46</td>
<td></td>
<td></td>
</tr>
<tr>
<td>e: Mt=6.51</td>
<td></td>
<td></td>
</tr>
<tr>
<td>f: Mt=5.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>g: Mt=4.30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>h: Mt=4.86</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

World Database of Happiness: www.eur.nl/fsw/research/happiness
### Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

<table>
<thead>
<tr>
<th>Code</th>
<th>Mean (Mt)</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-HL/c/sq/v/5/h</td>
<td>DMt=</td>
</tr>
<tr>
<td>a:</td>
<td>Mt = 7.18</td>
</tr>
<tr>
<td>b:</td>
<td>Mt = 6.56</td>
</tr>
<tr>
<td>c:</td>
<td>Mt = 6.30</td>
</tr>
<tr>
<td>d:</td>
<td>Mt = 6.59</td>
</tr>
<tr>
<td>e:</td>
<td>Mt = 6.39</td>
</tr>
<tr>
<td>f:</td>
<td>Mt = 5.75</td>
</tr>
<tr>
<td>g:</td>
<td>Mt = 4.55</td>
</tr>
<tr>
<td>h:</td>
<td>Mt = 4.86</td>
</tr>
<tr>
<td>i:</td>
<td>Mt = 3.44</td>
</tr>
<tr>
<td>j:</td>
<td>Mt = 6.05</td>
</tr>
<tr>
<td>k:</td>
<td>Mt = 5.86</td>
</tr>
<tr>
<td>l:</td>
<td>Mt = 5.74</td>
</tr>
<tr>
<td>m:</td>
<td>Mt = 6.38</td>
</tr>
<tr>
<td>n:</td>
<td>Mt = 6.64</td>
</tr>
<tr>
<td>o:</td>
<td>Mt = 6.35</td>
</tr>
<tr>
<td>p:</td>
<td>Mt = 6.15</td>
</tr>
<tr>
<td>All</td>
<td>Mt = 6.85</td>
</tr>
<tr>
<td>O-SLu/c/sq/v/5/e</td>
<td>DMt=</td>
</tr>
<tr>
<td>a:</td>
<td>Mt = 7.76</td>
</tr>
<tr>
<td>b:</td>
<td>Mt = 6.68</td>
</tr>
<tr>
<td>c:</td>
<td>Mt = 6.59</td>
</tr>
<tr>
<td>d:</td>
<td>Mt = 6.63</td>
</tr>
<tr>
<td>e:</td>
<td>Mt = 6.60</td>
</tr>
<tr>
<td>f:</td>
<td>Mt = 6.00</td>
</tr>
<tr>
<td>g:</td>
<td>Mt = 4.63</td>
</tr>
<tr>
<td>h:</td>
<td>Mt = 4.93</td>
</tr>
<tr>
<td>i:</td>
<td>Mt = 3.06</td>
</tr>
<tr>
<td>j:</td>
<td>Mt = 5.90</td>
</tr>
<tr>
<td>k:</td>
<td>Mt = 5.55</td>
</tr>
<tr>
<td>l:</td>
<td>Mt = 5.46</td>
</tr>
<tr>
<td>m:</td>
<td>Mt = 7.11</td>
</tr>
<tr>
<td>n:</td>
<td>Mt = 7.13</td>
</tr>
<tr>
<td>o:</td>
<td>Mt = 6.46</td>
</tr>
<tr>
<td>p:</td>
<td>Mt = 5.78</td>
</tr>
<tr>
<td>All</td>
<td>Mt = 7.29</td>
</tr>
</tbody>
</table>
**Study**

**VENTE 1995**

*Reported in:* Ventegodt, S.
Livskvalitet i Danmark. (Quality of Life in Denmark)
Forskningscentrets Forlag (The Quality of Life Research Center), København, Denmark,
ISBN 8790190017

*Population:* 18-88 aged, general public, Denmark, 1993

*Sample:* Non-probability purposive sample (unspecified)

*Non-Response:* 39%

*N:* 1494

---

**Measured Correlate**

*Class:* Current psycho-somatic complaints  Code: P 13.2

*Measurement:* Single question:
'Do you at present suffer from any of the following illnesses or disorders?'

a: no illnesses/disorders
b: nervous/mental disorders
c: anorexia/bulimia
d: mental depression

*Measured Values:* N: a:367, b:70, c:8, d:12

*Error Estimates:*

---

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-AOL/m/sq/v/5/a</td>
<td>DMt=-</td>
<td></td>
</tr>
<tr>
<td>a: no illnesses/disorders</td>
<td>Mt = 8.18</td>
<td></td>
</tr>
<tr>
<td>b: nervous/mental disorders</td>
<td>Mt = 5.33</td>
<td></td>
</tr>
<tr>
<td>c: anorexia/bulimia</td>
<td>Mt = 5.31</td>
<td></td>
</tr>
<tr>
<td>d: mental depression</td>
<td>Mt = 4.79</td>
<td></td>
</tr>
<tr>
<td>All</td>
<td>Mt = 7.60</td>
<td></td>
</tr>
<tr>
<td>O-HL/c/sq/v/5/h</td>
<td>DMt=</td>
<td></td>
</tr>
<tr>
<td>a: no illnesses/disorders</td>
<td>Mt = 7.19</td>
<td></td>
</tr>
<tr>
<td>b: nervous/mental disorders</td>
<td>Mt = 5.18</td>
<td></td>
</tr>
<tr>
<td>c: anorexia/bulimia</td>
<td>Mt = 6.56</td>
<td></td>
</tr>
<tr>
<td>d: mental depression</td>
<td>Mt = 4.79</td>
<td></td>
</tr>
<tr>
<td>All</td>
<td>Mt = 6.80</td>
<td></td>
</tr>
<tr>
<td>O-SLu/c/sq/v/5/e</td>
<td>DMt=-</td>
<td></td>
</tr>
<tr>
<td>a: no illnesses/disorders</td>
<td>Mt = 7.78</td>
<td></td>
</tr>
<tr>
<td>b: nervous/mental disorders</td>
<td>Mt = 5.08</td>
<td></td>
</tr>
<tr>
<td>c: anorexia/bulimia</td>
<td>Mt = 5.00</td>
<td></td>
</tr>
<tr>
<td>d: mental depression</td>
<td>Mt = 4.16</td>
<td></td>
</tr>
<tr>
<td>All</td>
<td>Mt = 7.21</td>
<td></td>
</tr>
</tbody>
</table>

---

Print date: 7-2-2003  World Database of Happiness: www.eur.nl/fsw/research/happiness  Page 39 of 77
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

Correlate Code: P 13

Summary score of 16 symptoms indicative of psychological and psychosomatic symptom complaints: (10 ranks)
(adapted from McMillan, 1957).

Study: VEROF 1962

Reported in: Veroff, J., Feld, S. & Gurin, G.
Dimensions of subjective adjustment.

Population: 21+ aged, married, with children, USA, 1957

Sample:
Non-Response: -
N: 797

Measured Correlate

Class: Current psycho-somatic complaints Code: P 13.2
Measurement: Summary score of 16 symptoms indicative of psychological and psychosomatic symptom complaints: (10 ranks)
adapted from McMillan, 1957).

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query Statistics Remarks
O-HL/u/sq/v/3/a tb = - p<.01 Males : b = -.24 (01)
Females : b = -.18 (01)
### Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

**Correlate Code: P 13**

#### Study

**BEISE 1974**

**Reported in:** Beiser, M.  
Components and correlates of mental well-being  
Journal of Health and Social Behavior, 1974, vol. 15,  
p. 320-327

**Population:** 18+ aged, general public, Stirling County, Canada, 1968

**Sample:**

**Non-Response:** 10%

**N:** 112

#### Measured Correlate

**Class:** Current physical complaints  
Code: P 13.2.1

**Measurement:** Number of psycho-psychological disorders reported, e.g.  
psychophysiological gastrointestinal reaction, asthma, hypertension, etc.

#### Observed Relation with Happiness

**Happiness Query**  
A-BB/cq/mq/vi/3/a

<table>
<thead>
<tr>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
</table>
| r = -      | Index of Negative Affects: $r = +.37 \ (01)$  
Unrelated to Index of Positive Affects |
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

**Study**

**BRADB 1969**

*Reported in:* Bradburn, N.M.
The structure of psychological well-being
Aldine Publishing Company, 1969, Chicago, USA

*Population:* 21-60 aged, general public, urban areas, USA, 1963 - 64

*Sample:*

*Non-Response:* ± 20%, Attrition
± 30%

*N:* 2787

---

**Measured Correlate**

*Class:* Current physical complaints
*Code:* P 13.2.1

*Measurement:* 55-item index of closed questions on general aches and pains, headaches, dizziness, rapid heart beat, and hands sweating and feeling damp and clammy; during the past few weeks (items from Stouffer et al., 1950).

*Measured Values:*

*Error Estimates:*

*Remarks:* Data T1. Not computed for summed ABS.

---

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-BB/cm/mq/v/2/a</td>
<td>G=</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Index of Positive Affects:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Males: G= +.00 (Data T1. Not computed for summed ABS.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Females: G= -.02</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Index of Negative Affects:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Males: G= +.47</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Females: G=+.45</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Stronger among those who are healthy than among those who are sick.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Unaffected by expecting a nervous breakdown.</td>
<td></td>
</tr>
</tbody>
</table>

Print date: 7-2-2003  World Database of Happiness: www.eur.nl/fsw/research/happiness  Page 42 of 77
**Study**

**BACHM 1970**

*Reported in:* Bachman, J.G./Kahn, R.L./Mednick, M./Davidson, T.N.

*Population:* Public highschool boys followed 3 years from grade 10, USA, 1966-69

*Sample:*

*Non-Response:* 2.8% incomplete information in 1966

*N:* T1:2213, T2: 1886, T3: 1799

---

**Measured Correlate**

*Class:* Current mental complaints  
*Code:* P 13.2.2

*Measurement:* 40-item index of closed questions on irritability (7 items), general anxiety (7 items), anxiety and tension (5 items), depression (6 items), anomie (8 items) and resentment (7 items).

*Measured Values:*

*Error Estimates:*

*Remarks:*

---

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-HP/g/mq/v/5/a</td>
<td>r=-.51</td>
<td>p&lt;.001</td>
</tr>
</tbody>
</table>

Both variables assessed at T1.
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS  

Study  **BOELH 1999**  

*Reported in:*  Boelhouwer, J. & Stoop, I.  
Measuring Well-Being in the Netherlands  
Social Indicators Research, vol 48, 51-75, 1999  

*Population:*  18+ aged, general public, The Netherlands, 1974-1997  

*Sample:*  Probability sample (unspecified)  

*Non-Response:*  
N:  ±3500 each year  

**Measured Correlate**  

*Class:*  Current mental complaints  
Code: P 13.2.2  

*Measurement:*  Score for psychosomatic symptoms on a Dutch subjective health inventory (VOEG)  
1 Below average  
2 Above average  

**Measured Values:**  

**Error Estimates:**  

**Remarks:**  

**Observed Relation with Happiness**  

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-HP/u/sq/v/5/a</td>
<td>r=-.25</td>
<td>p&lt;.05</td>
</tr>
<tr>
<td></td>
<td>r=-.25</td>
<td>p&lt;.05</td>
</tr>
</tbody>
</table>
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

Correlate Code: P 13

Study

BRADB 1969

Reported in: Bradburn, N.M.
The structure of psychological well-being
Aldine Publishing Company, 1969, Chicago, USA

Population: 21-60 aged, general public, urban areas, USA, 1963 - 64

Sample:

Non-Response: ± 20%, Attrition
± 30%

N: 2787

Measured Correlate

Class: Current mental complaints

Code: P 13.2.2

Measurement: 3-item index of closed questions on nervousness or tenseness
during the last weeks, having trouble getting to sleep at night,
and having enough energy to do the things one would like to do.

Measured Values:

Error Estimates:

Remarks: Data T1. Not computed for summed ABS.

Observed Relation with Happiness

Happiness Query Statistics Remarks

A-BB/cm/mq/v/2/a G=-

Index of Positive Affects:
- Males: G= +.04
- Females: G= +.02

Index of Negative Affects:
- Males: G= +.47
- Females: G= +.45
- Stronger among those who are healthy than
  among those who are sick.
- Unaffected by expecting a nervous breakdown.
<table>
<thead>
<tr>
<th>Study</th>
<th>BRENN 1970</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Reported in:</strong></td>
<td>Brenner, B.</td>
</tr>
<tr>
<td><strong>Population:</strong></td>
<td>Highschool pupils, New York State, USA, 1960</td>
</tr>
<tr>
<td><strong>Sample:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Non-Response:</strong></td>
<td>1%</td>
</tr>
<tr>
<td><strong>N:</strong></td>
<td>5204</td>
</tr>
</tbody>
</table>

**Measured Correlate**

- **Class:** Current mental complaints  Code: P 13.2.2
- **Measurement:** 10-item index of closed questions on sleeping problems, trembling hands, nervousness, heart beating hard, pressures or pains in head, biting fingernails, shortness of breath, sweating hands, sick headaches, nightmares (see Rosenberg, 1965).

**Measured Values**

**Error Estimates**

**Remarks**

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
</table>
| A-AOL/g/sq/v/5/a | G = -.24 | Females : G = -.32  
Males : G = -.23  
V = .11  
p < .01 |
| O-HL/u/sq/v/4/b | G = -.28 | After control for:  
- usual mood  
- having fun in life  
- frequency of low mood  
- tending to be a discouraged person  
- tending to be a lonely person  
Females: G = -.35  
Males : G = -.28 |
### Study

**BRENN 1975B**

**Reported in:** Brenner, B.

Enjoyment as a preventive of depressive affect.


**Population:** 18+ aged, general public, county and big city, USA, 1972

**Sample:**

**Non-Response:** 19% in Washington, and 25% in Kansas City.

**N:** 2168

---

### Measured Correlate

**Class:** Current mental complaints  
**Code:** P 13.2.2

**Measurement:** 3-item index of closed questions on problems with energy, appetite, and/or sleep during past week rarely/ occasionally/ most days.

**Measured Values:**

**Error Estimates:**

**Remarks:**

---

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-TH/g/sq/v/5/b</td>
<td>G=-.43</td>
<td>p&lt;.001</td>
</tr>
</tbody>
</table>

When controlled for depressive affect: Gs = -.31
**Study**  
COVIN 1999  

**Reported in:** Covinsky, K.E.; Wu,A.W.; Landefeld,C.S.; Connors Jr.,A.F. et al  
Health Status versus Quality of Life in Older Patients:Does the Distinction Matter?  

**Population:** 80+ aged cognitively intact patients interviewed 2 months after hospitalization, 1994, USA

**Sample:** Non-probability purposive-expert sample

**Non-Response:** 564  
**N:** 493

---

**Measured Correlate**

**Class:** Current mental complaints  
**Code:** P 13.2.2

**Measurement:** Self-report on 14 questions about depression and anxiety during the prior week(McNair et. al Moods Profile)  
Psychological distress scores were calculated by summing the profiles of mood states, depression and anxiety scales:  
1=lowest tertile (least distressed)  
2=middle tertile  
3=highest tertile (most distressed)

**Measured Values:**  
N: 1=151, 2=157, 3=154

**Error Estimates:**

**Remarks:**

---

**Observed Relation with Happiness**

**Happiness Query**  
O-QLS/c/sq/v/5/b

**Statistics**  
DM=-  
rs=-.38  
C=-.70

**Remarks**  
1. M=3.28 SD=.95  
2. M=2.96 SD=.90  
3. M=2.42 SD=.98  

"good or better" versus "fair or worse"  
Chance controlled for:  
- physical capacity  
- independence in daily activities  
- pain

---

Print date: 7-2-2003  
World Database of Happiness: www.eur.nl/fsw/research/happiness  
Page 48 of 77
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

Correlate Code: P 13

Study

FORTI 1983

Reported in: Th.J. Forti, M.S. Hyg
A Documented Evaluation of Primary Prevention through Consultation
Community Mental Health Journal, 1983, p 290-304

Population: Catholic nuns, re-organized cloister, followed 4 years, Louisiana, USA, 1977-1981

Sample

Non-Response: T1: 18%, T2: 14%, T3: 23%

N: T1: 146, T2: 154, T3: 137

Measured Correlate

Class: Current mental complaints Code: P 13.2.2

Measurement: Index of closed questions, rated on a 2-point scale, ranging from
true to false. (Order reversed)
1. No more nervous than most other people
2. Keyed up most of the time
3. Can't keep mind on one thing very long
4. Bothered by things not a bother to others
5. Worrying about something most of the time
6. Calm - don't get upset easily
7. Anxious about someone/something almost all of the time
8. Happy most of the time
9. Nervous some days - can't sit still very long
10. Hard time keeping mind on work/task
11. Don't worry about what other people think about me any more than most people
12. Take things hard (get hurt easily)
13. Life a strain much of the time
14. At times think I'm just no good at all
15. Lack faith in self
16. Feel useless at times
17. Things upset me easier than most people
18. So many problems feel couldn't handle
19. Feel about to go to pieces
20. Deny trouble/difficult problem

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query Statistics Remarks

1. +.03 (ns) +.03 (ns) +.32 (01)

Print date: 7-2-2003 World Database of Happiness: www.eur.nl/fsw/research/happiness Page 49 of 77
### Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

Correlate Code: P 13

<table>
<thead>
<tr>
<th></th>
<th>T1</th>
<th>T2</th>
<th>T3</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.</td>
<td>-.18 (01)</td>
<td>-.45 (01)</td>
<td>-.40 (01)</td>
</tr>
<tr>
<td>3.</td>
<td>-.02 (ns)</td>
<td>-.02 (ns)</td>
<td>-.06 (ns)</td>
</tr>
<tr>
<td>4.</td>
<td>-.05 (ns)</td>
<td>-.14 (05)</td>
<td>-.14 (05)</td>
</tr>
<tr>
<td>5.</td>
<td>-.26 (01)</td>
<td>-.24 (01)</td>
<td>-.34 (01)</td>
</tr>
<tr>
<td>6.</td>
<td>+.20 (01)</td>
<td>+.21 (01)</td>
<td>+.35 (01)</td>
</tr>
<tr>
<td>7.</td>
<td>-.10 (ns)</td>
<td>-.23 (01)</td>
<td>-.30 (01)</td>
</tr>
<tr>
<td>8.</td>
<td>+.43 (01)</td>
<td>+.35 (01)</td>
<td>+.44 (01)</td>
</tr>
<tr>
<td>9.</td>
<td>-.03 (ns)</td>
<td>+.01 (ns)</td>
<td>-.23 (01)</td>
</tr>
<tr>
<td>10.</td>
<td>-.10 (ns)</td>
<td>-.08 (ns)</td>
<td>-.19 (01)</td>
</tr>
<tr>
<td>11.</td>
<td>+.25 (01)</td>
<td>+.16 (05)</td>
<td>+.22 (01)</td>
</tr>
<tr>
<td>12.</td>
<td>-.23 (01)</td>
<td>-.18 (01)</td>
<td>-.24 (01)</td>
</tr>
<tr>
<td>13.</td>
<td>-.36 (01)</td>
<td>-.37 (01)</td>
<td>-.53 (01)</td>
</tr>
<tr>
<td>14.</td>
<td>-.34 (01)</td>
<td>-.16 (05)</td>
<td>-.34 (01)</td>
</tr>
<tr>
<td>15.</td>
<td>-.31 (01)</td>
<td>-.35 (01)</td>
<td>-.29 (01)</td>
</tr>
<tr>
<td>16.</td>
<td>-.34 (01)</td>
<td>-.17 (05)</td>
<td>-.33 (01)</td>
</tr>
<tr>
<td>17.</td>
<td>-.20 (01)</td>
<td>-.20 (01)</td>
<td>-.29 (01)</td>
</tr>
<tr>
<td>18.</td>
<td>-.17 (05)</td>
<td>-.23 (01)</td>
<td>-.42 (01)</td>
</tr>
<tr>
<td>19.</td>
<td>-.25 (01)</td>
<td>-.12 (ns)</td>
<td>-.24 (01)</td>
</tr>
<tr>
<td>20.</td>
<td>+.02 (ns)</td>
<td>-.09 (ns)</td>
<td>-.05 (ns)</td>
</tr>
</tbody>
</table>

*All variables assessed at T1, T2, and T3.*

*Correlation concerns same time measures.*
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

Study

GEHMA 1987

Reported in: Gehmacher, E.
Gebaute Gemeinschaft  (Built community: effects of architecture on social contacts
Sozial Wissenschaftliche Rundschau (SWS)  vol 27, 1987, page 147-156

Population: Residents housing estates, Vienna, Austria, 1987

Sample:
Non-Response: ?
N: 218

Measured Correlate

Class: Current mental complaints  Code: P 13.2.2
Measurement: Self report of nervous complaints:
1. every day very tense
2.
6. never

Measured Values:
Error Estimates:
Remarks: β controled for age, sex, postmaterialism, physical health, education, occupational status and satisfactions (with housing, leisure, social contacts and activities).

Observed Relation with Happiness

Happiness Query  Statistics  Remarks
M-FH/cm/sq/v/5/a r=+.23  β controled for age, sex, postmaterialism, physical health, education, occupational status and satisfactions (with housing, leisure, social contacts and activities).
Beta=+.1 p<.05
O-SLL/c/sq/v/5/b r=+.24  β controled for age, sex, postmaterialism, physical health, education, occupational status and satisfactions (with housing, leisure, social contacts and activities).
Beta=+.1 ns
## Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

Correlate Code: P 13

<table>
<thead>
<tr>
<th>Study</th>
<th>HARDE 1969</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reported in:</td>
<td>Harder, J.M.</td>
</tr>
<tr>
<td>Self-actualization, mood, and personality adjustment in married women.</td>
<td></td>
</tr>
<tr>
<td>Unpublished doctoral dissertation, 1969, Teachers College, Columbia University, USA</td>
<td></td>
</tr>
<tr>
<td>Population:</td>
<td>Married females, USA, 196?</td>
</tr>
<tr>
<td>Sample:</td>
<td>-</td>
</tr>
<tr>
<td>Non-Response:</td>
<td>-</td>
</tr>
<tr>
<td>N:</td>
<td>62</td>
</tr>
</tbody>
</table>

### Measured Correlate

- **Class:** Current mental complaints  
  - **Code:** P 13.2.2
- **Measurement:** Index of statements about feelings of nervousness, strain, distraction, embarrassment and fear. (Taylor Manifest Anxiety Scale; see Taylor, 1953).
- **Measured Values:**
- **Error Estimates:**
- **Remarks:**

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-AOL/cy/sq/v/10/a</td>
<td>r=-.24</td>
<td>ns</td>
</tr>
</tbody>
</table>

Print date: 7-2-2003  
World Database of Happiness: www.eur.nl/fsw/research/happiness  
Page 52 of 77
### Study

**MAKAR 1962**

**Reported in:** Makarczyk, W.
Factors affecting life satisfaction among people in Poland.

**Population:** Adults, general public, students and peasants excluded, Poland, 1960

**Sample:**

**Non-Response:** 5%

**N:** 2387

---

### Measured Correlate

**Class:** Current mental complaints  **Code:** P 13.2.2

**Measurement:** Single question on being a nervous person: definitely no / rather no / rather yes / decidedly yes.

**Measured Values:**

**Error Estimates:**

**Remarks:**

---

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-SLW/u/sq/v/5/a</td>
<td>T=-.11</td>
<td>p&lt;.001</td>
</tr>
</tbody>
</table>
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

11 item index. Typical items are:
- Your hands sweat so that you feel damp and clammy.
- You have nightmares.
- You lose your appetite.

For each item, the respondent was asked if he experienced the symptom many times/sometimes/hardly ever/never.
Many times or sometimes (score 1, hardly ever or never : score 0) were considered as an indicator of emotional strain (item analysis, fact validity of the answer categories). Those with four or more of these strains were labelled emotionally ill; those with three or less are considered to be healthy.
Score range: 0 - 11.

MITCH 1972/2

Reported in: Mitchell, R.E.
Levels of emotional strain in Southeast Asian cities
Asian Folklore & social life monographs, The Orient culturalServic 1972, Taipei, Formosa

Population: 18+ aged, general public, Hong Kong, South East Asia, 1967

Non-Response: 21%

Measured Correlate

Class: Current mental complaints

Measurement: 11 item index. Typical items are:
- Your hands sweat so that you feel damp and clammy.
- You have nightmares.
- You lose your appetite.

For each item, the respondent was asked if he experienced the symptom many times/sometimes/hardly ever/never.
Many times or sometimes (score 1, hardly ever or never : score 0) were considered as an indicator of emotional strain (item analysis, fact validity of the answer categories). Those with four or more of these strains were labelled emotionally ill; those with three or less are considered to be healthy.
Score range: 0 - 11.

Observed Relation with Happiness

Happiness Query O-HL/c/sq/v/4/a
Statistics G=-.32 p<.01
Remarks Figures based on half of the sample.
There is a stronger connection between illness and unhappiness when there is lower social involvement.

Print date: 7-2-2003
World Database of Happiness: www.eur.nl/fsw/research/happiness
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

**Study**

**VEROF 1962**

*Reported in:* Veroff, J., Feld, S. & Gurin, G.
Dimensions of subjective adjustment.

*Population:* 21+ aged, married, with children, USA, 1957

*Sample:*

*Non-Response:*

*N:* 797

**Measured Correlate**

*Class:* Current mental complaints  Code: P 13.2.2

*Measurement:* Factor containing direct questions on difficulties with getting up in the morning, and sweating hands (6 ranks).

*Measured Values:*

*Error Estimates:*

*Remarks:*

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
</table>
| O-HL/u/sq/v/3/a  | tb = -     | Males : \( b = -0.12 \) (01)  
Females : \( b = -0.02 \) (ns) |
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

**Study**

**VEROF 1962**

*Reported in:* Veroff, J., Feld, S. & Gurin, G.
Dimensions of subjective adjustment.

*Population:* 21+ aged, married, with children, USA, 1957

*Sample:*

*Non-Response:* -
*N:* 797

**Measured Correlate**

*Class:* Current mental complaints  
*Measurement:* Factor of closed questions on having trouble falling asleep or staying asleep and being bothered by nervousness, feeling fidgety and tense.

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
</table>
| O-HL/u/sq/v/3/a  | tb = - p < .01 | Males: _b = -.16 (01)  
|                 |            | Females: _b = -.19 (01) |
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

**CORRELATE CODE: P 13**

**Study**

**VEROOF 1962**

*Reported in:* Veroff, J., Feld, S. & Gurin, G.
Dimensions of subjective adjustment.

*Population:* 21+ aged, married, with children, USA, 1957

*Sample:*

*Non-Response:* -

*N:* 797

**Measured Correlate**

*Class:* Current mental complaints  Code: P 13.2.2

*Measurement:* Factor containing direct questions on having ever been bothered by shortness of breath, and by one's heart beating hard: never / hardly never / sometimes / many times (6 ranks).

**Measured Values:**

**Error Estimates:**

**Remarks:**

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-HL/u/sq/v/3/a</td>
<td>tb= -</td>
<td>p&lt; .01</td>
</tr>
<tr>
<td>Males: _b = -.12 (01)</td>
<td>Females: _b = -.15 (01)</td>
<td></td>
</tr>
</tbody>
</table>

Print date: 7-2-2003  World Database of Happiness: www.eur.nl/fsw/research/happiness
Appendix 1  

Queries on Happiness used in reported Studies

Happiness Query Code  Full Text

A-AOL/cy/sq/v/10/a  
Selfreport on single question:

"In thinking over the past year, indicate how elated or depressed, happy or unhappy you have felt....?"

10  Complete elation, rapturous joy and soaring ecstasy
9  Very elated and in very high spirits. Tremendous delight and buoyancy.
8  Elated and in high spirits.
7  Feeling very good and cheerful.
6  Feeling pretty good, "OK".
5  Feeling a little bit low. Just so-so.
4  Spirits low and somewhat "blue".
3  Depressed and feeling very low. Definitely "blue".
2  Tremendously depressed.
   Feeling terrible, really miserable, "just awful".
1  Utter depression and gloom. Completely down.
   All is black and leaden. Wish it were all over.

A-AOL/g/sq/v/5/a  
Selfreport on single question:

"In general, how would you say you feel most of the time - in good spirits or in low spirits....?"

5  very good spirits
4  fairly good spirits
3  neither good spirits nor low spirits
2  fairly low spirits
1  very low spirits.

A-AOL/m/sq/v/5/a  
Single direct question:

‘How are you feeling now....?’

5  very good
4  good
3  neither good nor poor
2  poor
1  very poor

Original text in Danish:
‘Hvordan har du det for tiden?’

5  meget godt
4  godt
3  hverken godt eller darligt
2  dårligt
1  meget dårligt

A-BB/cm/mq/v/2/a  
Selfreport on 10 questions:

"During the past few weeks, did you ever feel .....?" (yes/no)
A  Particularly exited or interested in something?
B  So restless that you couldn't sit long in a chair?
C  Proud because someone complimented you on something
you had done?
D  Very lonely or remote from other people?
E  Pleased about having accomplished something?
F  Bored?
G  On top of the world?
H  Depressed or very unhappy?
I  That things were going your way?
J  Upset because someone criticized you?

Answer options and scoring:
yes = 1
no  = 0

Summation:
- Positive Affect Score (PAS): A+C+E+G+I
- Negative Affect Score (NAS): B+D+F+H+J
- Affect Balance Score (ABS): PAS minus NAS
Possible range: -5 to +5

Name: Bradburn's 'Affect Balance Scale' (standard version)

Selfreport on 13 questions:
"During the past four weeks have you ever felt....?" (yes/no)
A  Pleased about having accomplished something.
B  Things going my way.
C  Proud because someone complimented me on something I had done.
D  Particularly excited or interested in something I had done.
E  On top of the world.
F  A deep sense of joy.
G  Pleased because my life feels orderly and secure.
H  Bored.
I  Very lonely and remote from other people.
J  Jealous of somebody.
K  Angry with someone.
L  Disappointed in myself..
M  Unhappy about the small number of times I have pleasant feelings and experiences.

Answer options:
0 no
yes
If yes: How often did you feel so?
5  every day
4  several times a week
3  once a week
2  2 or 3 times a month
1  once a month

Summation:
- Positive Affect Score (PAS): Average A to G
- Negative Affect Score (NAS): Average H to M
- Affect Balance Score (AB): PAS minus NAS
Possible range: +42 tot -30

Name : Bradburn's "Affected Balance Scale’ (modified version)

A-BB/cq/mq/v/3/a
Selfreport on 10 questions:

"During the past few months, have you ever felt..... (often, sometimes, never?)"

A  Particularly exited or interested in something?
B  So restless that you couldn't sit long in a chair?
C  Proud because someone complimented you on something you had done?
D  Very lonely or remote from other people?
E  Pleased about having accomplished something?
F  Bored?
G  Depressed or very unhappy?
H  That things were going your way?
I  Upset because someone criticized you?

Answer options and scoring:
0 = no
if yes
3  often
2  sometimes
1  never

Summation:
-Positive Affect Score (PAS): A+C+E+I
-Negative Affect Score (NAS): B+D+F+H+J
-Affect Balance Score (ABS): PAS minus NAS
Possible range: -15 to +12

Name: Bradburn's 'Affect Balance Scale' (standard version)

A-BB/cw/mq/v/4/c
Selfreport on 8 questions:

" In the past few weeks did you ever feel.....?"
A  Pleased about having accomplished something
B  Upset because someone critized you
C  Proud because someone complimented you one something you had done
D  That things are going your way
E  So restless you couldn't sit long in a chair
F  Unhappy or depressed
G  Particularly interested in something
H  Lonely and remote from other people

Response options:
0  not at all
1  sometimes
2  often
3  very often

Scoring: a = 0........d  = 3
Summation:
Positive Affect Score (PAS): summed scores on A, C, D, G
Negative Affect Score (NAS): summed scores on B, E, F, H
Affect Balance Score (ABS): PAS minus NAS

Name: Bradburn's Affect Balance Scale (variant)

Selfreport on 9 questions:

"We are interested in the way people are feeling these days. The following list describes some of the ways people feel at different times. Please indicate how often you felt each way during the last week.

"How often last week did you feel .....?"

A  On the top of the world
B  Very lonely or remote from other people
C  Particularly excited or interested in something
D  Depressed or very unhappy
E   Pleased about having accomplished something
F   Bored
G  Proud because someone complimented you on something you had done
H  So restless you couldn't sit long in a chair
I    Vaguely uneasy about something without knowing why

Answer options:
0  not at all
1  once
2  several times
3  often

Summation:
Positive Affect Score (PAS): summed scores on A, C, E, G
Negative Affect Score (NAS): summed scores on B, D, F, H, I
Affect Balance Score (ABS): PAS minus NAS

Possible range:  -15 tot +12

Name: Bradburn's 'Affect Balance Scale' (modified version)

Selfreport on 10 questions asked 4 times a year at 3 month intervals.

"During the past few weeks, did you ever feel.....?" (yes/no)
A  Particularly exited, or interested in something?
B  So restless that you could not sit long in a chair?
C  Proud because someone complimented you on something you had done?
D  Very lonely or remote from people?
E   Pleased about having accomplished something?
F   Bored?
G  On top of the world?
H  Depressed?
I  That things were going your way?
J  Upset because someone criticized you?

Scoring: yes = 1, no is = 0
Summation:
- Positive Affect Score (PAS): A+C+E+G+I
- Negative Affect Score (NAS): B+D+F+H+J
- Affect Balance Score (ABS): PAS minus NAS
Possible: range: -5 to +5

Name: Bradburn’s ‘Affect Balance Scale’

Selfreport on 2 questions:

“Please tell me how often you have felt this way during the past week...?”

A  I enjoyed life
B  I was happy

Answer options:
1  rarely or none of the time
2  some or a little of the time
3  occasionally or a moderate amount of time
4  most of the time

Summation: average score on A an B

Selfreport on single question:

“How do you feel about what you have accomplished in life...?”

3  well satisfied
2  reasonable satisfied
1  dissatisfied:

Selfreport on single question:

“How would you rate the last month of your life. Was it a happy or an unhappy time for you......?”

5  very happy time
4  fairly happy time
3  happy nor unhappy
2  rather unhappy time
1  very unhappy time

Original text in German:
“Wie wurden Sie den letzten Monat Ihres Lebens einstufen? War das für Sie eine glückliche oder eine unglückliche Zeit......?”

e  sehr glückliche Zeit
d  recht glückliche Zeit
c  weder glücklich noch unglücklich
b  eher unglückliche Zeit
a  sehr unglückliche Zeit

Self report on single question:
"How often do you feel that you are really enjoying life? Would you say.....?"
5 very often
4 fairly often
3 occasionally
2 rarely
1 never

O-DT/u/sq/t/7/a Selfreport on single question:

"Which face comes closest to expressing feeling about life as a whole?",  
7 delighted
6 very satisfying
5 satisfying
4 mixed
3 dissatisfying
2 very dissatisfying
1 terrible
- No opinion

Name: Andrews & Withey's "Delighted-Terrible Scale" (modified version)

O-DT/u/sq/v/7/a Selfreport on single question:

"How do you feel about your life as a whole.....?"
7 delighted
6 pleased
5 mostly satisfied
4 mixed
3 mostly dissatisfied
2 unhappy
1 terrible

Name: Andrews & Withey's `Delighted-Terrible Scale' (original version)

O-H/?/oq/?/0/a Selfreport on single question:

Open question on happiness.
Text not reported.

O-HL/c/sq/v/3/aa Selfreport on single question:

'Taken all together, how would you say things are these days?  Would you say that you are.....?"
3 very happy
2 pretty happy
1 not too happy

O-HL/c/sq/v/4/a Selfreport on single question:

"Do you feel your life at present is.....?"
4 very happy
3 quite happy
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

2 quite unhappy
1 very unhappy

O-HL/c/sq/v/5/c Selfreport on single question:

"Taking all things together, how would you say you are these days.....?"
5 extremely happy
4 very happy
3 happy
2 pretty happy
1 not too happy

In Dutch:
"Hoe gelukkig voelt u zich alles bij elkaar genomen op het ogenblik?"
e buitengewoon gelukkig
d zeer gelukkig
c gelukkig
b tamelijk gelukkig
a niet zo gelukkig

O-HL/c/sq/v/5/h Selfreport on single question

'How happy are you now?'
5 very happy
4 happy
3 neither happy nor unhappy
2 unhappy
1 very unhappy

Original text in Danish:
'Hvor lykkelig er du for tiden?'
5 meget lykkelig
4 lykkelig
3 hverken eller
2 ulyykkelig
1 meget ulyykkelig

O-HL/u/sq/v/3/a Selfreport on single question:

"Taking all together: how happy would you say you are? Would you say you are.....?"
3 very happy
2 pretty happy
1 not too happy

O-HL/u/sq/v/4/b Selfreport on single question:

"On the whole, how happy would you say you are.....?"
4 very happy
3 fairly happy
2 not very happy
1 very unhappy

O-HP/g/mq/v/5/a Selfreport on 6 questions:

" Describe the kind of person you are. Please read each sentence, then mark how
often it is true for you"
1 I feel like smiling
2 I generally feel in good spirits
3 I feel happy
4 I am very satisfied with life
5 I find a good deal of happiness in life
6 I feel sad

Response options:
5 almost always true
4 often true
3 sometimes true
2 seldom true
1 never true

Summation: average
Possible range: 1 to 5

O-HP/g/sq/ol/7/a Selfreport on single question:
“Generally speaking are you a happy person.......?”

Responses were made on an open line scale, and were later coded in 7 categories:
1 very unhappy
2
3
4
5
6
7 very happy.

Original text in Dutch:
"Bent u over het algemeen een gelukkig mens?"
 a zeer ongelukkig
 b
c
d
e
f
g zeer gelukkig

O-HP/u/sq/v/5/a Selfreport on single question

"To what extend do you consider yourself a happy person....?"
5 very happy
4 happy
3 neither happy nor unhappy
2 not very happy
1 unhappy

In Dutch:
"In welke mate vindt u zichzelf een gelukkig mens?"
5  erg gelukkig
4   gelukkig
3  niet gelukkig, niet ongelukkig
2  niet zo gelukkig
1  ongelukkig
-  weigert
-  weet niet

O-QL?/c/mg/v/5/a Selfreport on 3 questions:

A  "When you consider your present life as-a-whole, would you say you are....?"
5  very happy
4  fairly happy
3  rather happy than unhappy
2  rather unhappy than happy
1  very unhappy
-  DK/NA

B  "When you consider your present life as-a-whole, would you say you are.....?"
5  very satisfied
4  fairly satisfied
3  rather satisfied than dissatisfied
2  rather dissatisfied than satisfied
1  fairly dissatisfied
-  DK/NA

C  "How do you feel right now? Is your well-being.....?"
5  very high
4  high
3  moderate
2  rather low
1  very low
-  DK/NA

Summation: The summed scores were divided in three strata: low, medium and high quality of life

In German:
A  "Wenn Sie ihr Leben jetzt alles in allem betrachten, sind Sie......?"
  e  sehr glücklich
  d  ziemlich glücklich
  c  eher glücklich
  b  eher unglücklich
  a  ziemlich unglücklich
  -  keine Angabe

B  "Wenn Sie ihr Leben jetzt in allem betrachten, sind Sie.....?"
  e  sehr zufrieden
  d  ziemlich zufrieden
  c  eher zufrieden
  b  eher unzufrieden
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

O-QLS/c/sq/v/5/b
Selfreport on single question:

'How would you rate the quality of your life at present? Would you say it is ..
5 excellent
4 very good
3 good
2 fair
1 poor

O-SLL/c/sq/v/5/b
Selfreport on single question:

"How satisfied are you with the life you lead these days......?"
5 very satisfied
4 fairly satisfied
3 neither satisfied nor dissatisfied
2 rather dissatisfied
1 very dissatisfied

In German:
"Wie zufrieden sind sie mit dem Leben, wie Sie es zur Zeit furhren.....?"
5 sehr zufrieden
4 recht zufrieden
3 weder zufrieden noch unzufrieden
2 eher unzufrieden
1 sehr unzufrieden

O-SLS/c/sq/f/7/a
Selfreport on single question:

" When you're not only thinking of your job, but of your total present situation (house, prices, health, love, politics, neighbours, etc.), how satisfied are you with your life as-a-whole? Please mark the appropriate face below."

Rated on pictorial scale, consisting of seven smilies, expressing variations from very dissatisfied (a) to very satisfied (g) (Kunin's 'Faces scale'). Pictures not reproduced here).
1 unhappy face
. .
4 neutral face
.
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

In German:
"Wenn Sie nun nicht nur die Arbeit betrachten, sondern Ihre gesamte derzeitige Situation berücksichtigen (Wohnung, Preise, Gesundheit, Liebe, Politik, Nachbarn usw.), wie zufrieden sind Sie dann insgesamt mit Ihrem Leben? Streichen Sie bitte das zutreffende Gesicht an."

Item in the "Arbeitsbeschreibungsblogen" (job-description questionnaire).

O-SLu/c/sq/v/5/e
Selfreport on single question:

'How satisfied are you with your life now?'
5 very satisfied
2 satisfied
3 neither satisfied nor dissatisfied
2 dissatisfied
1 very dissatisfied

Original text in Danish:
'Hvor tilfreds er du med dit liv for tiden?'
5 meget tilfreds
4 tilfreds
3 hverken tilfreds eller utilfreds
2 utilfreds
1 meget utilfreds

O-SLW/?/sq/v/3/b
Selfreport on single question:

".....satisfaction with overall life....."
(Full questions not reported)
3 very satisfied
2 fairly satisfied
1 not satisfied
- NA

O-SLW/u/sq/v/5/a
Selfreport on single question:

"On the whole, are you satisfied with your life.....?"
5 definitely yes
4 rather yes
3 don't know
2 rather no
1 definitely no
- no reply

On the web you will find an overview of valid queries on happiness and an explanation of the classification used. Go to: www.eur.nl/fsw/research/happiness/hap_quer/hqi_fp.htm. This is the introductory text to the Catalog of Happiness Queries.
Appendix 2  Statistics used in reported studies

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Explanation</th>
</tr>
</thead>
</table>
| Beta   | (B) STANDARDIZED REGRESSION COEFFICIENT  
Type: test statistic.  
Measurement level: Correlates: all metric, Happinessl: metric.  
Range: [-1 ; +1]  
Meaning:  
beta > 0 « a higher correlate level corresponds with, on an average, higher happiness rating.  
beta < 0 « a higher correlate level corresponds with, on an average, lower happiness rating.  
beta = 0 « no correlation.  
beta = + 1 or -1 « perfect correlation. |
| C      | Pearson's CONTINGENCY COEFFICIENT  
Type: test statistic  
Measurement level: Correlate: nominal, Happinessl: ordinal  
Range: [0; SQRT(1-1/s)], where s = the lesser of c and r, the number of columns and rows respectively.  
Meaning:  
C = 0 « no association.  
C = SQRT( 1-1/s) « strongest possible association |
| DM     | DIFFERENCE of MEANS  
Type: descriptive statistic only.  
Measurement level: Correlate: dichotomous, Happiness: metric  
Range: depending on the happiness rating scale of the author; range symmetric about zero.  
Meaning: the difference of the mean happiness, as measured on the author’s rating scale, between the two correlate levels. |
| DMt    | DIFFERENCE of MEANS AFTER TRANSFORMATION  
Type: descriptive statistic only.  
Measurement level: Correlate: dichotomous, Happiness: metric  
Theoretical range: [-10; +10]  
Meaning: the difference of the mean happiness (happiness measured at a 0-10 rating scale) between the two correlate levels. |
| G      | GOODMAN & Kruskal's GAMMA  
Type: test statistic  
Measurement level: Correlate: ordinal, Happinessl: ordinal  
Range: [-1; +1]  
Meaning:  
G = 0 « no rank correlation  
G = +1 « strongest possible rank correlation, where high correlate values correspond with high happiness ratings.  
G = -1 « strongest possible rank correlation, where high correlate values correspond |
with low happiness ratings.

Gs
PARTIAL GAMMA. See: GAMMA
Range: [-1, +1].
Seldom used in happiness research. See excerpted report.

OR
ODDS RATIO
Type: descriptive statistic only.
Measurement level: Correlate: dichotomous, Happiness level: dichotomous
Range: nonnegative unlimited

Meaning:
OR = 1 « no association at all;
OR = 0 or infinite « at least one level of the correlate allows an error-free prediction of the happiness.

r
PRODUCT-MOMENT CORRELATION COEFFICIENT (Also "Pearson's correlation coefficient" or simply 'correlation coefficient')
Type: test statistic.
Measurement level: Correlate: metric, Happiness: metric
Range: [-1; +1]

Meaning:
r = 0 « no correlation ,
r = 1 « perfect correlation, where high correlate values correspond with high happiness values, and
r = -1 « perfect correlation, where high correlate values correspond with low happiness values.

rpc
PARTIAL CORRELATION COEFFICIENT
Type: test statistic.
Measurement level: Correlate: metric, Happiness: metric
Range: [-1; +1]

Meaning: a partial correlation between happiness and one of the correlates is that correlation, which remains after accounting for the contribution of the other influences, or some of them, to the total variability in the happiness scores.
Under that conditions
rpc > 0 « a higher correlate level corresponds with a higher happiness rating,
rpc < 0 « a higher correlate level corresponds with a lower happiness rating,

rs
SPEARMAN'S RANK CORRELATION COEFFICIENT
Type: test statistic.
Measurement level: Correlate: ordinal, Happiness: ordinal.
Range: [-1; +1]

Meaning:
rs = 0 « no rank correlation
rs = 1 « perfect rank correlation, where high correlate values are associated with high happiness ratings
rs =-1 « perfect rank correlation, where high correlate values are associated with low happiness ratings

βL
PATH COEFFICIENT OBTAINED IN A LISREL MODEL.
Range: unlimited, but seldom exceeds [-1, +1].
In the Catalogue of Correlational Findings, this statistic or statistical procedure occurs very rarely only. The reader is referred to the excerpted publication for detailed information or for further reference.

**T**

TSCHUPROW'S T
Type: test statistic.
Measurement level: Correlate: nominal, Happiness: ordinal
Range: \[0 : \sqrt{\frac{\min(r,c)-1}{\max(r,c) -1}}\], c and r being the numbers of columns resp. rows in a cross tabulation.

Meaning:
\( T = 0 \) « no association
\( T \to 1 \) « strongest possible association.

NOTE: sometimes the square value is reported instead!

**\( \tau \)**

GOODMAN & Kruskal's TAU
Type: descriptive statistic only.
Measurement level: Correlate: nominal, Happiness: ordinal
Range: \([0; +1]\)

Meaning:
\( \tau = 0 \) « knowledge of the correlate value does not improve the prediction quality of the happiness rating.
\( \tau = 1 \) « knowledge of the correlate value enables a perfect (error-free) prediction of the happiness rating.

**\( t_b \)**

KENDALL'S RANK CORRELATION COEFFICIENT TAU-B
Type: test statistic
Measurement level: Correlate: ordinal, Happiness: ordinal
Range: \([-1; +1]\)

Meaning:
\( t_b = 0 \) « no rank correlation
\( t_b = 1 \) « perfect rank correlation, where high values of the correlate correspond with high happiness ratings.
\( t_b = -1 \) « perfect rank correlation, where high values of the correlate correspond with low happiness ratings.

**V**

CRAMÉR's V
Type: test statistic
Measurement level: Correlate: nominal, Happiness: ordinal
Range: \([0; 1]\)

Meaning:
\( V = 0 \) « no association
\( V = 1 \) « strongest possible association

On the web you will find a text explaining the statistics used in more detail. Go to: www.eur.nl/fsw/research/happiness/hap_cor/cor_fp.htm. This is the introductory text to the Catalog of Correlational Findings. An overview of all statistics is in chapter 4.
Appendix 3: About the World Database of Happiness

The World Database of Happiness is an ongoing register of scientific research on subjective appreciation of life. It brings together findings that are scattered throughout many studies and provides a basis for synthetic analysis. The research literature is processed as follows:

Literature on happiness

Selection on subject

Bibliography (1)
Directory (2)

Selection of Empirical studies on valid measurement

Happiness Queries (3)

Testbank

Abstracting and classification of findings

Distributional Findings
Correlational Findings

How happy people are

Happiness in Nations (4)

What goes with happiness

Happiness in Publics (6)

1 BIBLIOGRAPHY OF HAPPINESS Presents all contemporary scientific publications. Detailed subject-classification. Current contents: 3422 titles, mainly in English.

2 DIRECTORY OF INVESTIGATORS Names and addresses of most authors on the subject. Enumerates years of publication. Current contents: 5818 names and 3073 addresses. Part of Bibliography.

3 CATALOG OF HAPPINESS QUERIES (testbank) Presents all indicators that tap happiness as defined here. Current content: 522 measures, mostly single questions. Queries are classified by focus, time reference, mode of observation, rating and wording.

4 CATALOG OF HAPPINESS IN NATIONS Presents distributional research findings, in particular responses to questions on happiness in national survey studies. Allows comparison across time and nations. Current content: 1889 surveys in 112 nations, 1946-2000.

5 CATALOG OF HAPPINESS IN PUBLICS Distributional findings on happiness in special publics within nations, such as aged people. Current contents: 705 studies. Part of Catalog of Correlational Findings.

### Appendix 4  Further Findings in the World Database of Happiness

<table>
<thead>
<tr>
<th>Main Category’s</th>
<th>Category Name</th>
<th>Number of Studies in this Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>A 1</td>
<td>ACTIVITY LEVEL (how much one does)</td>
<td>53</td>
</tr>
<tr>
<td>A 2</td>
<td>ACTIVITY PATTERN (what one does)</td>
<td>7</td>
</tr>
<tr>
<td>A 3</td>
<td>AFFECTIVE LIFE</td>
<td>31</td>
</tr>
<tr>
<td>A 4</td>
<td>AGE</td>
<td>279</td>
</tr>
<tr>
<td>A 5</td>
<td>AGGRESSION</td>
<td>11</td>
</tr>
<tr>
<td>A 6</td>
<td>ANOMY</td>
<td>30</td>
</tr>
<tr>
<td>A 7</td>
<td>APPEARANCE (good looks)</td>
<td>8</td>
</tr>
<tr>
<td>A 8</td>
<td>ATTITUDES</td>
<td>4</td>
</tr>
<tr>
<td>A 9</td>
<td>AUTHORITARIANISM</td>
<td>4</td>
</tr>
<tr>
<td>B 3</td>
<td>BODY</td>
<td>66</td>
</tr>
<tr>
<td>C 1</td>
<td>CHILDREN 1:</td>
<td>4</td>
</tr>
<tr>
<td>C 10</td>
<td>CREATIVENESS</td>
<td>6</td>
</tr>
<tr>
<td>C 11</td>
<td>CULTURE (Arts and Sciences)</td>
<td>6</td>
</tr>
<tr>
<td>C 2</td>
<td>CHILDREN: WANT FOR (Parental aspirations)</td>
<td>6</td>
</tr>
<tr>
<td>C 3</td>
<td>CHILDREN: HAVING (parental status)</td>
<td>145</td>
</tr>
<tr>
<td>C 4</td>
<td>CHILDREN’s CHARACTERISTICS</td>
<td>19</td>
</tr>
<tr>
<td>C 5</td>
<td>CHILDREN: RELATION WITH</td>
<td>8</td>
</tr>
<tr>
<td>C 6</td>
<td>CHILDREN: REARING (parental behavior)</td>
<td>11</td>
</tr>
<tr>
<td>C 7</td>
<td>COMMUNAL LIVING</td>
<td>1</td>
</tr>
<tr>
<td>C 8</td>
<td>CONCERNS</td>
<td>15</td>
</tr>
<tr>
<td>C 9</td>
<td>COPING</td>
<td>27</td>
</tr>
<tr>
<td>D 1</td>
<td>DAILY JOYS &amp; HASSLES</td>
<td>4</td>
</tr>
<tr>
<td>E 1</td>
<td>EDUCATION</td>
<td>243</td>
</tr>
<tr>
<td>E 2</td>
<td>EMPLOYMENT</td>
<td>180</td>
</tr>
<tr>
<td>E 3</td>
<td>ETHNICITY</td>
<td>63</td>
</tr>
<tr>
<td>E 4</td>
<td>EXPRESSIVE BEHAVIOR</td>
<td>10</td>
</tr>
<tr>
<td>F 1</td>
<td>FAMILY OF ORIGIN (earlier family for adults, current for young)</td>
<td>195</td>
</tr>
<tr>
<td>F 2</td>
<td>FAMILY OF PROCREATION</td>
<td>42</td>
</tr>
<tr>
<td>F 3</td>
<td>FAMILY OF RELATIVES</td>
<td>145</td>
</tr>
<tr>
<td>F 4</td>
<td>FARMING</td>
<td>30</td>
</tr>
<tr>
<td>F 5</td>
<td>FREEDOM</td>
<td>24</td>
</tr>
<tr>
<td>F 6</td>
<td>FRIENDSHIP</td>
<td>123</td>
</tr>
<tr>
<td>G 1</td>
<td>GENDER</td>
<td>252</td>
</tr>
<tr>
<td>G 2</td>
<td>GRIEF</td>
<td>1</td>
</tr>
<tr>
<td>H 10</td>
<td>HOPE</td>
<td>3</td>
</tr>
<tr>
<td>H 11</td>
<td>HOUSEHOLD: COMPOSITION</td>
<td>90</td>
</tr>
<tr>
<td>H 12</td>
<td>HOUSEHOLD: WORK</td>
<td>10</td>
</tr>
<tr>
<td>H 13</td>
<td>HOUSING</td>
<td>75</td>
</tr>
<tr>
<td>H 2</td>
<td>HANDICAP</td>
<td>13</td>
</tr>
</tbody>
</table>
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS  

<table>
<thead>
<tr>
<th>Code</th>
<th>Category</th>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>H 3</td>
<td>HAPPINESS: ATTITUDES</td>
<td></td>
<td>39</td>
</tr>
<tr>
<td>H 5</td>
<td>HAPPINESS CAREER</td>
<td></td>
<td>144</td>
</tr>
<tr>
<td>H 6</td>
<td>HAPPINESS: CURRENT LEVEL</td>
<td></td>
<td>260</td>
</tr>
<tr>
<td>H 8</td>
<td>HEALTH-BEHAVIOR</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>H 9</td>
<td>HELPING</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>I 1</td>
<td>INCOME</td>
<td></td>
<td>415</td>
</tr>
<tr>
<td>I 2</td>
<td>INSTITUTIONAL LIVING</td>
<td></td>
<td>28</td>
</tr>
<tr>
<td>I 3</td>
<td>INTELLIGENCE</td>
<td></td>
<td>63</td>
</tr>
<tr>
<td>I 4</td>
<td>INTERESTS</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>I 5</td>
<td>INTERVIEW</td>
<td></td>
<td>49</td>
</tr>
<tr>
<td>I 6</td>
<td>INTIMACY</td>
<td></td>
<td>70</td>
</tr>
<tr>
<td>L 1</td>
<td>LANGUAGE</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>L 10</td>
<td>LOCAL ENVIRONMENT</td>
<td></td>
<td>270</td>
</tr>
<tr>
<td>L 11</td>
<td>LOTTERY</td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>L 12</td>
<td>LOVE-LIFE</td>
<td></td>
<td>26</td>
</tr>
<tr>
<td>L 2</td>
<td>LEADERSHIP</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>L 3</td>
<td>LEISURE</td>
<td></td>
<td>128</td>
</tr>
<tr>
<td>L 4</td>
<td>LIFE APPRAISALS: OTHER THAN HAPPINESS4</td>
<td></td>
<td>290</td>
</tr>
<tr>
<td>L 5</td>
<td>LIFE-CCHANGE</td>
<td></td>
<td>26</td>
</tr>
<tr>
<td>L 6</td>
<td>LIFE-EVENTS</td>
<td></td>
<td>63</td>
</tr>
<tr>
<td>L 7</td>
<td>LIFE-GOALS</td>
<td></td>
<td>52</td>
</tr>
<tr>
<td>L 8</td>
<td>LIFE HISTORY</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>L 9</td>
<td>LIFE STYLE</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>M 1</td>
<td>MARRIAGE: MARITAL STATUS CAREER</td>
<td></td>
<td>32</td>
</tr>
<tr>
<td>M 10</td>
<td>MIGRATION: MIGRANT WORK</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>M 11</td>
<td>MILITARY LIFE</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>M 12</td>
<td>MODERNITY</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>M 13</td>
<td>MOOD</td>
<td></td>
<td>181</td>
</tr>
<tr>
<td>M 2</td>
<td>MARRIAGE: CURRENT MARITAL STATUS</td>
<td></td>
<td>315</td>
</tr>
<tr>
<td>M 3</td>
<td>MARRIAGE: RELATIONSHIP</td>
<td></td>
<td>99</td>
</tr>
<tr>
<td>M 4</td>
<td>MARRIAGE: PARTNER</td>
<td></td>
<td>34</td>
</tr>
<tr>
<td>M 5</td>
<td>MEANING</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>M 6</td>
<td>MEDICAL TREATMENT</td>
<td></td>
<td>49</td>
</tr>
<tr>
<td>M 7</td>
<td>MENTAL HEALTH</td>
<td></td>
<td>99</td>
</tr>
<tr>
<td>M 8</td>
<td>MIGRATION: OTHER COUNTRY</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>M 9</td>
<td>MIGRATION: MOVING WITHIN COUNTRY (residential mobility)</td>
<td></td>
<td>17</td>
</tr>
<tr>
<td>N 1</td>
<td>NATIONALITY</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>N 2</td>
<td>NATION: TIME &amp; PLACE</td>
<td></td>
<td>20</td>
</tr>
<tr>
<td>N 3</td>
<td>NATIONAL CHARACTER (modal personality)</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>N 4</td>
<td>NATION'S CONDITION</td>
<td></td>
<td>52</td>
</tr>
<tr>
<td>N 6</td>
<td>ATTITUDES TO THE NATION</td>
<td></td>
<td>111</td>
</tr>
<tr>
<td>N 7</td>
<td>LIVABILITY OF THE NATION</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>N 8</td>
<td>NUTRITION</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>O 1</td>
<td>OCCUPATION</td>
<td></td>
<td>133</td>
</tr>
</tbody>
</table>
Findings on Happiness & PSYCHO-SOMATIC COMPLAINTS

Correlate Code: P 13

O 2  ORGAN TRANSPLANTATION  11
P 1  PERSONALITY: HISTORY  44
P 10  POSSESSIONS  26
P 12  PROBLEMS  20
P 13  PSYCHO-SOMATIC COMPLAINTS  53
P 2  PERSONALITY: CHANGE  7
P 3  PERSONALITY: CURRENT ORGANIZATION  7
P 4  PERSONALITY: CURRENT TRAITS  392
P 5  PERSONALITY: LATER  23
P 6  PHYSICAL HEALTH  286
P 7  PLANNING  7
P 8  POLITICS  197
P 9  POPULARITY  22
R 1  RELIGION  198
R 2  RESOURCES  8
R 3  RETIREMENT  46
R 4  ROLES  13
S 1  SCHOOL  92
S 10  SOCIAL SUPPORT: RECEIVED  26
S 11  SOCIAL SUPPORT: Provided  3
S 12  SPORTS  32
S 13  STIMULANTS  33
S 14  SUICIDE  4
S 15  SUMMED EFFECTS ON HAPPINESS  71
S 2  SELF-IMAGE  193
S 3  SEX-LIFE  54
S 4  SLEEP  10
S 5  SOCIAL MOBILITY  16
S 6  SOCIAL PARTICIPATION: PERSONAL CONTACTS  50
S 7  SOCIAL PARTICIPATION: VOLUNTARY ASSOCIATIONS  111
S 8  SOCIAL PARTICIPATION: TOTAL (personal + associations)  25
S 9  SOCIAL STATUS (Socio-Economic Status)  140
T 1  TIME  27
T 2  THERAPY  9
T 3  TOLERANCE  37
V 1  VALUE CAREER  8
V 2  VALUES: CURRENT PREFERENCES (own)  49
V 3  VALUES: CLIMATE (current values in environment)  4
V 4  VALUES: SIMILARITY (current fit with others)  5
V 5  VICTIM  11
W 1  WAR  5
W 2  WORK CAREER  1
W 3  WORK CONDITIONS  34
W 4  WORK-ATTITUDES  313
<table>
<thead>
<tr>
<th>Code</th>
<th>Category</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>W 5</td>
<td>WORK-PERFORMANCE (current)</td>
<td>6</td>
</tr>
<tr>
<td>W 6</td>
<td>WORRIES</td>
<td>27</td>
</tr>
<tr>
<td>X</td>
<td>UNCLASSIFIED</td>
<td>22</td>
</tr>
</tbody>
</table>
## Appendix 5  Related Topics

<table>
<thead>
<tr>
<th>This Topic</th>
<th>Related Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classification Page 1</td>
<td>In Subject List on Appendix 4</td>
</tr>
</tbody>
</table>

| P 13 | PSYCHO-SOMATIC COMPLAINTS |
| P 13.1 | Psycho-somatic career |
| P 13.1.1 | Earlier psycho-somatic complaints |
| P 13.1.2 | Change in psycho-somatic complaints |
| P 13.1.3 | History of current complaints |
| P 13.1.4 | Later psycho-somatic complaints |
| P 13.2 | Current psycho-somatic complaints |
| P 13.2.1 | Current physical complaints |
| P 13.2.2 | Current mental complaints |
| P 13.3 | Attitudes to psycho-somatic complaints |
| M 7 | MENTAL HEALTH |
| P 6 | PHYSICAL HEALTH |
| L 4.7.1 | STRESS |
| M 13.3.9 | Life-stress inventories |
| M 13.3.13 | Feeling secure (vs threatened) |
| P 6.2.2.2 | Feeling tranquil (vs restless) |
| P 6.2.3.1 | . number of health complaints |
| P 6.2.3.2 | . fatigue |
| M 7.2.2.2 | . pain |
| M 7.2.2.3 | . scores on symptom inventories |
| M 7.2.2.3 | . feels close to mental breakdown |

### End of Report