

## Skill Formation &amp; Education

Construct	Facets	Var	Module	Instrument / Source	Age	tu	mf	s	pq	hh	Further information	Reference
<b>Skill formation and education</b>												
<b>Educational success &amp; educational attainment</b>	Self-report	<b>cer</b>	9_certificate	TwinLife		x	x	x	x		Highest level of education/school grades	<i>Items developed for TwinLife</i>
		<b>cer</b>	9_certificate	photos of school reports/ diplomas (TwinLife)		x		x				<i>Procedure developed for TwinLife</i>
<b>Intelligence</b>		<b>igf</b>	person	CFT 1-R, CFT 20-R		x	x	x	x		Subtests: continue series, classification, matrices (reasoning)	<p><b>- Culture Fair Test:</b>  - Weiß, R. H., &amp; Osterland, J. (2012). Grundintelligenztest Skala 1 - Revision: CFT 1-R. Göttingen: Hogrefe.  - Weiß, R. (2006): CFT 20-R. Grundintelligenztest Skala 2. Manual. Göttingen: Hogrefe.</p>
<b>Private tutoring/ Utilization of special support</b>	Care	<b>car</b>		SOEP 2012							Caregivers and care facilities for twins and sibling by age	<p><u>Adapted from</u> :</p> - The German Socio-Economic Panel Study (SOEP): SOEP Core Study Household 2012 - <i>German and English version</i> , <a href="https://www.econstor.eu/dspace/bitstream/10419/88778/1/77583694X.pdf">https://www.econstor.eu/dspace/bitstream/10419/88778/1/77583694X.pdf</a>
	Care institution	<b>cai</b>		SOEP							Care facilities (group size, number of childcare providers etc.)	<p><u>Adapted from</u> :</p> - Schober, P. S., & Spieß, K. C. (2013-2016). Qualität frühkindlicher Bildung und Betreuung im Sozio-oekonomischen Panel. - <i>Available at</i> : <a href="https://www.diw.de/de/diw_01.c.430776.de/forschung_beratung/qualitaet_fruehkindlicher_bildung_und_betreuung_im_sozio_oekonomischen_panel.html">https://www.diw.de/de/diw_01.c.430776.de/forschung_beratung/qualitaet_fruehkindlicher_bildung_und_betreuung_im_sozio_oekonomischen_panel.html</a>
	Activities	<b>eac</b>		SOEP							Activities in childcare (arts, languages, maths & sciences, visits to library, excursions etc.)	<p><u>Adapted from</u> :</p> - Schober, P. S., & Spieß, K. C. (2013-2016). Qualität frühkindlicher Bildung und Betreuung im Sozio-oekonomischen Panel. - <i>Available at</i> : <a href="https://www.diw.de/de/diw_01.c.430776.de/forschung_beratung/qualitaet_fruehkindlicher_bildung_und_betreuung_im_sozio_oekonomischen_panel.html">https://www.diw.de/de/diw_01.c.430776.de/forschung_beratung/qualitaet_fruehkindlicher_bildung_und_betreuung_im_sozio_oekonomischen_panel.html</a>

## Skill Formation &amp; Education

	School	edu  6_child care	SOEP 2012/2014; Pairfam (wave 4, child); NEPS 2011	< 16	x	x	School (type, grade, federal state)	<p><u>Adapted from:</u></p> <ul style="list-style-type: none"> <li>- The German Socio-Economic Panel Study (SOEP): SOEP Core Study Individual 2014</li> <li>- <i>German and English version:</i> <a href="http://panel.gsoep.de/soep-docs/surveypapers/diw_ssp0235.pdf">panel.gsoep.de/soep-docs/surveypapers/diw_ssp0235.pdf</a></li> <li>- The German Socio-Economic Panel Study (SOEP): SOEP Core Study Life Course 2012</li> <li>- <i>German and English version :</i> <a href="http://hdl.handle.net/10419/88782">http://hdl.handle.net/10419/88782</a>; SOEP Core study Youth 2014</li> <li>- <i>German version :</i> <a href="http://panel.gsoep.de/soep-docs/surveypapers/diw_ssp0238.pdf">http://panel.gsoep.de/soep-docs/surveypapers/diw_ssp0238.pdf</a></li> <li>- Panel analysis of intimate relationships and family dynamics (Pairfam): Pairfam Codebook Child Wave 4 (2011/2012)</li> <li>- <i>German version :</i> <a href="http://www.pairfam.de/fileadmin/user_upload/redakteur/publis/Dokumentation/Codebooks/Release5.0/Codebuch_Kind4_de.pdf">http://www.pairfam.de/fileadmin/user_upload/redakteur/publis/Dokumentation/Codebooks/Release5.0/Codebuch_Kind4_de.pdf</a></li> <li>- <i>English version :</i> <a href="http://www.pairfam.de/fileadmin/user_upload/redakteur/publis/Dokumentation/Codebooks/Release7.0/Codebook_Child_en__pairfam_Wave_4_2011-12.pdf">http://www.pairfam.de/fileadmin/user_upload/redakteur/publis/Dokumentation/Codebooks/Release7.0/Codebook_Child_en__pairfam_Wave_4_2011-12.pdf</a></li> <li>- The German National Educational Panel Study (Nationales Bildungspanel, NEPS):</li> <li>- <i>Starting Cohort Kindergarten (SC2) – Data collection</i></li> </ul>
	Extracurricular activities	aas	Pairfam (parenting, wave 7)				Extracurricular activities (e.g. remedial groups, clubs, leisure activities etc.)	<p><u>Adapted from :</u> Panel analysis of intimate relationships and family dynamics (Pairfam)</p> <ul style="list-style-type: none"> <li>- Pairfam Codebook Eltern Welle 7/Parenting Wave 7 (2014/2015)</li> <li>- <i>German version :</i> <a href="http://www.pairfam.de/fileadmin/user_upload/redakteur/publis/Dokumentation/Codebooks/Release7.0/Codebuch_Eltern_de__pairfam_Welle_7_2014-15.pdf">http://www.pairfam.de/fileadmin/user_upload/redakteur/publis/Dokumentation/Codebooks/Release7.0/Codebuch_Eltern_de__pairfam_Welle_7_2014-15.pdf</a></li> <li>- <i>English version :</i> <a href="http://www.pairfam.de/fileadmin/user_upload/redakteur/publis/Dokumentation/Codebooks/Release7.0/Codebook_Parenting_en__pairfam_Wave_7_2014-15.pdf">www.pairfam.de/fileadmin/user_upload/redakteur/publis/Dokumentation/Codebooks/Release7.0/Codebook_Parenting_en__pairfam_Wave_7_2014-15.pdf</a></li> </ul>
	School grades repeated/ skipped	eca	SOEP 2014				School grades repeated/ skipped	<p><u>Adapted from :</u></p> <ul style="list-style-type: none"> <li>- The German Socio-Economic Panel Study (SOEP): SOEP Core study Youth 2014</li> <li>- <i>German version :</i> <a href="http://panel.gsoep.de/soep-docs/surveypapers/diw_ssp0238.pdf">http://panel.gsoep.de/soep-docs/surveypapers/diw_ssp0238.pdf</a></li> </ul>

## Skill Formation &amp; Education

	Contact information institution	kgc		SOEP					Contact information institution (e.g. address, phone number, pedagogic concept etc.)	<p><u>Adapted from</u> :</p> <p>- Schober, P. S., &amp; Spieß, K. C. (2013-2016). Qualität frühkindlicher Bildung und Betreuung im Sozio-oekonomischen Panel.</p> <p>- Available at :  <a href="https://www.diw.de/de/diw_01.c.430776.de/forschung_beratung/qualitaet_fruehkindlicher_bildung_und_betreuung_im_sozio_oekonomischen_panel.html">https://www.diw.de/de/diw_01.c.430776.de/forschung_beratung/qualitaet_fruehkindlicher_bildung_und_betreuung_im_sozio_oekonomischen_panel.html</a></p> <p><u>Adapted from</u> :</p> <p>- Schober, P. S., &amp; Spieß, K. C. (2013-2016). Qualität frühkindlicher Bildung und Betreuung im Sozio-oekonomischen Panel.</p> <p>- Available at :  <a href="https://www.diw.de/de/diw_01.c.430776.de/forschung_beratung/qualitaet_fruehkindlicher_bildung_und_betreuung_im_sozio_oekonomischen_panel.html">https://www.diw.de/de/diw_01.c.430776.de/forschung_beratung/qualitaet_fruehkindlicher_bildung_und_betreuung_im_sozio_oekonomischen_panel.html</a></p> <p>Items developed for TwinLife</p>	
	Same care twins	cat		SOEP	< 16	x			Same care twins	<p><u>Adapted from</u> :</p> <p>- Schober, P. S., &amp; Spieß, K. C. (2013-2016). Qualität frühkindlicher Bildung und Betreuung im Sozio-oekonomischen Panel.</p> <p>- Available at :  <a href="https://www.diw.de/de/diw_01.c.430776.de/forschung_beratung/qualitaet_fruehkindlicher_bildung_und_betreuung_im_sozio_oekonomischen_panel.html">https://www.diw.de/de/diw_01.c.430776.de/forschung_beratung/qualitaet_fruehkindlicher_bildung_und_betreuung_im_sozio_oekonomischen_panel.html</a></p>	
	Same school twins	twt		TwinLife					For 1st - 13th school grade		
<b>Cognitive development</b>										- The German National Educational Panel Study (Nationales Bildungspanel, NEPS)	
	Competence ratings parents	com	7_parents on child	NEPS; BBK 3-6						<p>- <b>Beobachtungsbogen für 3-bis 6-jährige Kinder (BKK 3-6)</b></p> <p>- Frey, A., Althaus, D., &amp; Duhm, E. (2008). Beobachtungsbogen für 3-bis 6-jährige Kinder: BBK 3-6; Manual. Hogrefe.</p> <p><u>Interviewer ratings, adapted from subscales of</u> :</p> <p>- <b>Beobachtungsbogen für 3-bis 6-jährige Kinder (BKK 3-6)</b></p> <p>- Frey, A., Althaus, D., &amp; Duhm, E. (2008). Beobachtungsbogen für 3-bis 6-jährige Kinder: BBK 3-6; Manual. Hogrefe.</p>	
	Competence ratings interviewer	ctb	Person	Interviewer ratings after IQ-Test (BBK 3-6)	< 12	x	x		E.g. social, verbal, concentration skills		
<b>Media use</b>		med	5_less sensitive information	NEPS		x	x	x	x	E.g. time spent with devices, rules for media use	<p><u>Adapted from</u> :</p> <p>- The German National Educational Panel Study (Nationales Bildungspanel, NEPS)</p>
<b>Motivation</b>											
	Academic self concept	asc		SDQP (verbal, math)		x		x		<p><u>Adapted and translated into German from</u> :</p> <p>- <b>Self Description Questionnaire for Preschoolers (SDQP)</b></p> <p>- Marsh, H. W., Ellis, L. A., &amp; Craven, R. G. (2002). How do preschool children feel about themselves? Unraveling measurement and multidimensional self-concept structure. Developmental psychology, 38, 376.</p>	

## Skill Formation &amp; Education

Self perceived  
ability**spa**

SESSKO; IMI

x x x x

IMI (Subtest: Perceived Competence)

3\_basic modul

Intrinsic motivation

SESSW

x x x

**imo**

Learning motivation

SELLMO-S

x x x x

Achievement  
motivation

GOALS (TwinLife)

x x x x

Adapted from:

- Skalen zur Erfassung des schulischen Selbstkonzepts (SESSKO)
- Dickhäuser, O., Schöne, C., Spinath, B., & Stiensmeier-Pelster, J. (2002). Die Skalen zum akademischen Selbstkonzept. Zeitschrift für Differentielle und Diagnostische Psychologie, 23, 393-405.

Adapted and translated into German from:

- Intrinsic Motivation Inventory (IMI)
- Deci, E. L., & Ryan, R. M. (2003). Intrinsic motivation inventory. Self-Determination Theory.
- Available at:  
<http://www.selfdeterminationtheory.org/intrinsic-motivation-inventory/>
- McAuley, E., Duncan, T., & Tammen, V. V. (1989). Psychometric properties of the Intrinsic Motivation Inventory in a competitive sport setting: A confirmatory factor analysis. Research quarterly for exercise and sport, 60, 48-58.

Adapted from:

- **Skala zur Erfassung subjektiver schulischer Werte (SESSW)**
- Steinmayr, R., & Spinath, B. (2010). Konstruktion und erste Validierung einer Skala zur Erfassung subjektiver schulischer Werte (SESSW). Diagnostica, 56, 195-211.

Adapted from:

- **Skalen zur Erfassung der Lern- und Leistungsmotivation/Version für Schülerinnen (SELLMO-S)**
- Spinath, B., Stiensmeier-Pelster, J., Schöne, C., & Dickhäuser, O. (2002). Skalen zur Erfassung der Lern- und Leistungsmotivation. SELLMO. Göttingen: Hogrefe.

Items developed for TwinLife

## Skill Formation &amp; Education

Self-Efficacy											
		sef	4_sensitive personal information	ASKU (short version)	>= 10	x	x	x	x	Bandura's concept of self efficacy	<p>- Allgemeine Selbstwirksamkeit Kurzskala (ASKU)</p> <p>- Beierlein, C., Kovaleva, A., Kemper, C. J., &amp; Rammstedt, B. (2012). Ein Messinstrument zur Erfassung subjektiver Kompetenzerwartungen: Allgemeine Selbstwirksamkeit Kurzskala (ASKU). GESIS Working Papers 2012/17. Mannheim: GESIS.</p> <p>- Available at:  <a href="http://www.ssoar.info/ssoar/bitstream/handle/document/29235/ssoar-2012-beierlein_et_al-ein_messinstrument_zur_erfassung_subjektiver.pdf?sequence=1">http://www.ssoar.info/ssoar/bitstream/handle/document/29235/ssoar-2012-beierlein_et_al-ein_messinstrument_zur_erfassung_subjektiver.pdf?sequence=1</a></p>
Personality/ Temperament (BIG 5)											
	Self-report	per	4_sensitive personal information	BFI-S; BFI-Schülerversion	>= 10	x	x	x	x	BIG 5: Neuroticism, extraversion, openness to experience, agreeableness, conscientiousness	<p>- <b>Big-Five Inventory-SOEP (BFI-S)</b></p> <p>- Gerlitz J.Y., &amp; Schupp, J. (2005). <i>Zur Erhebung der Big-Five-basierten Persönlichkeitsmerkmale im SOEP. Dokumentation der Instrumentenentwicklung BFI-S auf Basis des SOEP-Pretests 2005.</i> DIW Research, Notes 4.</p>
	Parental-report	per	7_parents on child	BFI form school children (SOEP items)	< 10	x			x		<p>- <b>Big-Five Inventory (BFI) version for school children</b></p> <p>- Weinert, S., Asendorpf, J. B., Beelmann, A., Doil, H., Frevort, S., Lohaus, A., &amp; Hasselhorn, M. (2007). <i>Expertise zur Erfassung von psychologischen Persönlichkeitsmerkmalen bei Kindern im Alter von fünf Jahren im Rahmen des SOEP.</i> Berlin: DIW Berlin. Data Documentation 20.</p>
Self-Esteem											
	Self-report	ses	4_sensitive personal information	Rosenberg SES	>= 13	x	x	x	x	Brief Scale/Single Item measure (adapted from Rosenberg Scale)	<p><u>Translated into German from :</u></p> <p>- <b>Rosenberg Self-esteem Scale - Three-item short version</b></p> <p>- Rosenberg, M. (1965). <i>Rosenberg self-esteem scale (RSE).</i> Acceptance and Commitment Therapy. Measures Package, 61.</p>
	Parental-report	ses	7_parents on child	Single item measure Rosenberg SES	< 13	x			x		<p><u>Adapted and translated into German from :</u></p> <p>- <b>Rosenberg Self-esteem Scale - One-item short version</b></p> <p>- Robins, R. W., Hendin, H. M., &amp; Trzesniewski, K. H. (2001). <i>Measuring global self-esteem: Construct validation of a single-item measure and the Rosenberg Self-Esteem Scale.</i> Personality and social psychology bulletin, 27, 151-161.</p>

Skill Formation & Education

**Notes:**

Var = Variable Stem; tu = Twins; mf = Parents and Stepparents; s = Siblings; pq = Partner of Twins

*General information on SEOP* : Wagner, Gert G., Frick, Joachim R., and Schupp, Jürgen (2007). The German Socio-Economic Panel Study (SOEP) – Scope, Evolution and Enhancements. Schmollers Jahrbuch, 127, 139-169.

*General information on pairfam* : Huinink, J., Brüderl, J., Nauck, B., Walper, S., Castiglioni, L., & Feldhaus, M. (2011). Panel analysis of intimate relationships and family dynamics (pairfam): Conceptual framework and design. ZfF–Zeitschrift für Familienforschung/Journal of Family Research, 23.

*General information on NEPS* : Blossfeld, H.-P., H.-G. Roßbach und J. von Maurice (Hrsg.) (2011). Education as a Lifelong Process – The German National Educational Panel Study (NEPS). Zeitschrift für Erziehungswissenschaft: Sonderheft 14.

Construct	Facets	Var	Module	Instrument / Source	Age	tu	mf	s	pq	hh	Further information	Reference
<b>Career and Labor Market Attainment</b>												
Employment status & current position		emp	3_basic module	SOEP 2014	>= 16	x	x	x	x		Job title, occupational status, economic sector, extend of work activity, unemployment, required qualification for occupation, commuting	<p><u>Adapted from</u> :</p> <ul style="list-style-type: none"> <li>- The German Socio-Economic Panel Study (SOEP): SOEP Core study Individual 2014</li> <li>- <i>German and English version</i> : <a href="http://panel.gsoep.de/soep-docs/surveypapers/diw_ssp0235.pdf">panel.gsoep.de/soep-docs/surveypapers/diw_ssp0235.pdf</a></li> </ul>
		emp; eca	generated variable	ISEI; SIOPS; EGP; ISCO 2008; KldB 2010;	>= 16	x	x	x	x		Classification based on occupation or occupational training; ISCO, KldB: two digits	<ul style="list-style-type: none"> <li>- International Socio-Economic Index of occupational status (ISEI) comparing Treiman's international prestige scale (SIOPS) and Goldthorpe's class categories (EGP):</li> <li>- Ganzeboom, H. B., De Graaf, P. M., &amp; Treiman, D. J. (1992). A standard international socio-economic index of occupational status. <i>Social science research</i>, 21, 1-56, <a href="http://dx.doi.org/10.1016/0049-089X(92)90017-B">http://dx.doi.org/10.1016/0049-089X(92)90017-B</a></li> <li>- Derived from the International Standard Classification of Occupations (ISCO): <a href="http://www.ilo.org/public/english/bureau/stat/isco/isco08/">http://www.ilo.org/public/english/bureau/stat/isco/isco08/</a></li> <li>- Klassifikation der Berufe 2010 (KldB 2010), Bundesagentur für Arbeit</li> <li>- Available at: <a href="https://statistik.arbeitsagentur.de/Navigation/Statistik/Grundlagen/Klassifikation-der-Berufe/KldB2010/Arbeitshilfen/EnglischeKldB2010/KldBEnglisch-Nav.html">https://statistik.arbeitsagentur.de/Navigation/Statistik/Grundlagen/Klassifikation-der-Berufe/KldB2010/Arbeitshilfen/EnglischeKldB2010/KldBEnglisch-Nav.html</a></li> </ul>
		hpr	household questionnaire	SOEP 2014							x	Form of employment of all household members

Wages, welfare dependency

inc 3\_basic module

SOEP 2005/2014;  
B3 Beschäftigungsfragebogen

>=16

x x x x

Monthly personal gross income, social allowances / benefits ( e.g. child and parental benefit, continued pay in maternity leave)

Adapted from:

- The German Socio-Economic Panel Study (SOEP): SOEP Core study Individual 2014  
- German and English version: [panel.gsoep.de/soep-docs/surveypapers/diw\\_ssp0235.pdf](http://panel.gsoep.de/soep-docs/surveypapers/diw_ssp0235.pdf)

- The German Socio-Economic Panel Study (SOEP): Pretest 2005  
- Available at: <http://www.econstor.eu/bitstream/10419/80372/1/756918952.pdf>

- B3 Beschäftigtenbefragung Fragebogen 2012  
- Pausch, S., Harand, J., Schunck, R., & Jacobebbinghaus, P. (2013). Methodenbericht Betriebsbefragung Projekt B3 : Wechselwirkungen zwischen Verwirklichungschancen im Berufs- und Privatleben (SFB 882 Technical Report Series, 2). Bielefeld: DFG Research Center (SFB) 882 From Heterogeneities to Inequalities.  
- Available at: <https://pub.uni-bielefeld.de/download/2615802/2615804>

Perceived job security & satisfaction

emp 3\_basic module

SOEP 2003;  
B3 Beschäftigungsfragebogen

>=16

x x x x

Probability of losing job within next two years, balance between performance and output of job

Adapted from:

- The German Socio-Economic Panel Study (SOEP): SOEP Core Study Individual 2003  
- German version: [https://www.diw.de/documents/dokumentenarchiv/17/diw\\_01.c.38383.de/personen\\_2003.pdf](https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.38383.de/personen_2003.pdf)

- English version: [https://www.diw.de/documents/dokumentenarchiv/17/diw\\_01.c.38957.de/personen\\_en.409727.pdf](https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.38957.de/personen_en.409727.pdf)

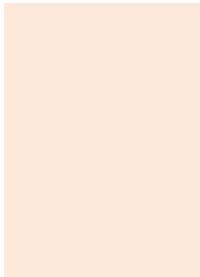
- B3 Beschäftigtenbefragung Fragebogen 2012  
- Pausch, S., Harand, J., Schunck, R., & Jacobebbinghaus, P. (2013). Methodenbericht Betriebsbefragung Projekt B3 : Wechselwirkungen zwischen Verwirklichungschancen im Berufs- und Privatleben (SFB 882 Technical Report Series, 2). Bielefeld: DFG Research Center (SFB) 882 From Heterogeneities to Inequalities.  
- Available at: <https://pub.uni-bielefeld.de/download/2615802/2615804>



Educational career & aspirations

Education	edu 3_basic module	SOEP 2012/2014; Pairfam (wave 4); NEPS 2011 >=4 & <15 >=10 >=16	x x x x	Education (e.g. type of education / training, type of school, grade etc.)	<p><u>Adapted from</u> :</p> <ul style="list-style-type: none"> <li>- The German Socio-Economic Panel Study (SOEP): SOEP Core study Individual 2014</li> <li>- German and English version : panel.gsoep.de/soep-docs/surveypapers/diw_ssp0235.pdf</li> <li>- The German Socio-Economic Panel Study (SOEP): SOEP Core study Life Course 2012</li> <li>- German and English version : <a href="http://hdl.handle.net/10419/88782">http://hdl.handle.net/10419/88782</a></li> <li>- The German Socio-Economic Panel Study (SOEP): SOEP Core study Youth 2014</li> <li>- German version : <a href="http://panel.gsoep.de/soep-docs/surveypapers/diw_ssp0238.pdf">http://panel.gsoep.de/soep-docs/surveypapers/diw_ssp0238.pdf</a></li> <li>- Panel analysis of intimate relationships and family dynamics (Pairfam): Pairfam Codebook Kind Welle 4/Child Wave 4 2011/2012</li> <li>- German version : <a href="http://www.pairfam.de/fileadmin/user_upload/redakteur/publis/Dokumentation/Codebooks/Release5.0/Codebuch_Kind4_de.pdf">http://www.pairfam.de/fileadmin/user_upload/redakteur/publis/Dokumentation/Codebooks/Release5.0/Codebuch_Kind4_de.pdf</a></li> <li>- English version : <a href="http://www.pairfam.de/fileadmin/user_upload/redakteur/publis/Dokumentation/Codebooks/Release7.0/Codebook_Child_en__pairfam_Wave_4_2011-12.pdf">http://www.pairfam.de/fileadmin/user_upload/redakteur/publis/Dokumentation/Codebooks/Release7.0/Codebook_Child_en__pairfam_Wave_4_2011-12.pdf</a></li> <li>- Starting Cohort Kindergarten (SC2) – Data collection 2011 – Integrated telefoninterviews for parents (Teilstudien B12 und B21)</li> <li>- German version : <a href="https://www.neps-data.de/Portals/0/NEPS/Datenzentrum/Forschungsdaten/SC2/Feldversionen/SC2_Q_w2_de.pdf">https://www.neps-data.de/Portals/0/NEPS/Datenzentrum/Forschungsdaten/SC2/Feldversionen/SC2_Q_w2_de.pdf</a></li> </ul> <p>Adapted from:</p> <ul style="list-style-type: none"> <li>- The German Socio-Economic Panel Study (SOEP): SOEP Core study Individual 2014</li> <li>- German and English version: panel.gsoep.de/soep-docs/surveypapers/diw_ssp0235.pdf)</li> <li>- The German Socio-Economic Panel Study (SOEP): SOEP Core study Life Course 2012</li> <li>- German and English version: <a href="http://hdl.handle.net/10419/88782">http://hdl.handle.net/10419/88782</a>)</li> <li>- The German Socio-Economic Panel Study (SOEP): SOEP Core study Youth 2014</li> <li>- German version: <a href="http://panel.gsoep.de/soep-docs/surveypapers/diw_ssp0238.pdf">http://panel.gsoep.de/soep-docs/surveypapers/diw_ssp0238.pdf</a></li> <li>- The German Socio-Economic Panel Study (SOEP): SOEP Core study individual 2012</li> <li>- German and English version: <a href="https://www.econstor.eu/bitstream/10419/100687/1/795572875.pdf">https://www.econstor.eu/bitstream/10419/100687/1/795572875.pdf</a></li> <li>- Deutsches Jugendinstitut (DJI) Jugendsurvey "Jugend und Politik" 1.Welle:</li> <li>- Hoffmann-Lange, U. (Ed.). (2013). Jugend und Demokratie in Deutschland: DJI-Jugendsurvey 1 (Vol. 1). Springer-Verlag.</li> </ul>
Course of education	eca 4_sensitive information	SOEP 2012/2014; DJI Jugendsurvey (wave 1) >=4 and <15; >=10; >=17	x x x x	Course of education (school-leaving qualification / highest educational degree, grade repeated/skipped, educational aspiration etc.)	

		eca	generated variable	ISCED 1997	>= 16	x	x	x	x	Two versions: one digit, two digits	- International standard classification of education ISCED 2011 - UNESCO Institute for Statistics (UIS). (2012). International Standard Classification of Education: ISCED 2011. UIS, Montreal, Quebec. - Available at: <a href="http://www.uis.unesco.org/Education/Documents/isced-2011-en.pdf">http://www.uis.unesco.org/Education/Documents/isced-2011-en.pdf</a>
Economic preferences	Willingness to take a risk	per0200	4_sensitive personal information	SOEP 2008	>=10	x	x	x	x	Willingness to take a risk	<u>Adapted from</u> : - The German Socio-Economic Panel Study (SOEP): SOEP Core study Individual 2008 - German version : <a href="https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.85359.de/personen_2008.pdf">https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.85359.de/personen_2008.pdf</a> - English version : <a href="https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.85645.de/personen_2008_en.pdf">https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.85645.de/personen_2008_en.pdf</a>
			7_parents on child	SOEP 2008	>=4 and <=9	x			x	Willingness to take a risk	<u>Adapted from</u> : - The German Socio-Economic Panel Study (SOEP): SOEP Core study Individual 2008 - German version : <a href="https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.85359.de/personen_2008.pdf">https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.85359.de/personen_2008.pdf</a> - English version : <a href="https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.85645.de/personen_2008_en.pdf">https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.85645.de/personen_2008_en.pdf</a>
	Patience	per0300	4_sensitive personal information	SOEP 2008	>=10	x	x	x	x	Patience	<u>Adapted from</u> : - The German Socio-Economic Panel Study (SOEP): SOEP Core study Individual 2008 - German version : <a href="https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.85359.de/personen_2008.pdf">https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.85359.de/personen_2008.pdf</a> - English version : <a href="https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.85645.de/personen_2008_en.pdf">https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.85645.de/personen_2008_en.pdf</a>



SOEP 2008    >=4 and <=9    x    x    Patience

Adapted from :

- The German Socio-Economic Panel Study (SOEP): SOEP Core study Individual 2008

- German version:

[https://www.diw.de/documents/dokumentenarchiv/17/diw\\_01.c.85359.de/personen\\_2008.pdf](https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.85359.de/personen_2008.pdf)

- English version:

[https://www.diw.de/documents/dokumentenarchiv/17/diw\\_01.c.85645.de/personen\\_2008\\_en.pdf](https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.85645.de/personen_2008_en.pdf)

**Notes:**

Var = Variable Stem; tu = Twins; mf = Parents and Stepparents; s = Siblings; pq = Partner of Twins

*General information on SEOP :* Wagner, Gert G., Frick, Joachim R., and Schupp, Jürgen (2007). The German Socio-Economic Panel Study (SOEP) – Scope, Evolution and Enhancements. Schmollers Jahrbuch, 127, 139-169.

*General information on pairfam :* Huinink, J., Brüderl, J., Nauck, B., Walper, S., Castiglioni, L., & Feldhaus, M. (2011). Panel analysis of intimate relationships and family dynamics (pairfam): Conceptual framework and design. ZfF–Zeitschrift für Familienforschung/Journal of Family Research, 23.

*General information on NEPS :* Blossfeld, H.-P., H.-G. Roßbach und J. von Maurice (Hrsg.) (2011). Education as a Lifelong Process – The German National Educational Panel Study (NEPS). Zeitschrift für Erziehungswissenschaft: Sonderheft 14.

Construct	Facets	Var	Module	Instrument / Source	Age	tu	mf	s	pq	hh	Further information	Reference
<b>Integration and Participation</b>												
<b>Social participation</b>												
	Self-report	sop	5_less sensitive information	AID:A 2009	>=13	x	x	x	x		Social Participation in groups and clubs, Volunteering	Adapted from: - Aufwachsen in Deutschland (AID:A) – DJI-Survey 2009 - Rauschenbach, T., & Bien, W. (2012). Aufwachsen in Deutschland. Aufwachsen in Deutschland. AID: A–Der neue DJI-Survey. Weinheim/Basel, 7-27. - Available at: <a href="http://www.dji.de/cgi-bin/projekte/output.php?projekt=1109">http://www.dji.de/cgi-bin/projekte/output.php?projekt=1109</a>
	Parental report	sop	7_parents on child	AID:A 2009	< 13	x		x			Social Participation in groups and clubs, Volunteering	Adapted from: - Aufwachsen in Deutschland (AID:A) – DJI-Survey 2009 - Rauschenbach, T., & Bien, W. (2012). Aufwachsen in Deutschland. Aufwachsen in Deutschland. AID: A–Der neue DJI-Survey. Weinheim/Basel, 7-27. - Available at: <a href="http://www.dji.de/cgi-bin/projekte/output.php?projekt=1109">http://www.dji.de/cgi-bin/projekte/output.php?projekt=1109</a>
<b>Political participation</b>												
		pop	5_less sensitive information	SOEP 2011; AID:A 2009; Add-health	>9 & <=15 >=13 >=18	x	x	x	x		Domains: Political interest; political activity; turnout; party preferences	Adapted from: - The German Socio-Economic Panel Study (SOEP): SOEP Core Study Individual 2011 - German version: <a href="https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.394133.de/soepfrabo_personen_2011.pdf">https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.394133.de/soepfrabo_personen_2011.pdf</a> - English version: <a href="https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.394180.de/soepfrabo_personen_2011_en.pdf">https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.394180.de/soepfrabo_personen_2011_en.pdf</a> - Aufwachsen in Deutschland (AID:A) – DJI-Survey 2009 - Rauschenbach, T., & Bien, W. (2012). Aufwachsen in Deutschland. Aufwachsen in Deutschland. AID: A–Der neue DJI-Survey. Weinheim/Basel, 7-27. - Available at: <a href="http://www.dji.de/cgi-bin/projekte/output.php?projekt=1109">http://www.dji.de/cgi-bin/projekte/output.php?projekt=1109</a> - Add-Health study (in-home questionnaire political participation) - Harris, K. M., & National Longitudinal Study of Adolescent Health. (2009). Waves I & II, 1994–1996; Wave III, 2001–2002; Wave IV, 2007–2009 [machine-readable data file and documentation]. Chapel Hill, NC: Carolina Population Center, University of North Carolina at Chapel Hill, 10. - Available at: <a href="http://www.cpc.unc.edu/projects/addhealth">http://www.cpc.unc.edu/projects/addhealth</a>

Experiences of discrimination

dis 5\_less sensitive information  
 SOEP; DEAS; TwinLife  
 >=13 x x x x

Experience of discrimination due to different domains, burden

Adapted from :

- The German Socio-Economic Panel Study (SOEP): SOEP Migrantenfragebogen 2006

- German version:

[https://www.diw.de/documents/dokumentenarchiv/17/diw\\_01.c.44391.de/personen\\_2006.pdf](https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.44391.de/personen_2006.pdf)

- English version :

[https://www.diw.de/documents/dokumentenarchiv/17/diw\\_01.c.44392.de/personen\\_en\\_2006.pdf](https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.44392.de/personen_en_2006.pdf)

Adapted from :

- Deutsches Alterssurvey (DEAS), Welle III (Deutsches Zentrum für Altersfragen, DZA)

- Igel, U., Brähler, E., & Grande, G. (2010). *Der Einfluss von Diskriminierungserfahrungen auf die Gesundheit von MigrantInnen*. *Psychiatrische Praxis*, 37, 183–190.

Items developed for TwinLife

Migration & Citizenship

mig 3\_basic module  
 SOEP 2014  
 >=15 x x x x

Information on citizenship

Adapted from :

- The German Socio-Economic Panel Study (SOEP): SOEP Core study Individual 2014

- German and English version : [panel.gsoep.de/soep-docs/surveypapers/diw\\_ssp0235.pdf](http://panel.gsoep.de/soep-docs/surveypapers/diw_ssp0235.pdf)

- The German Socio-Economic Panel Study (SOEP): SOEP Core study Life Course 2014

- German version: [http://panel.gsoep.de/soep-docs/surveypapers/diw\\_ssp0237.pdf](http://panel.gsoep.de/soep-docs/surveypapers/diw_ssp0237.pdf)

- SOEP Core study Youth 2014

- German version : [http://panel.gsoep.de/soep-docs/surveypapers/diw\\_ssp0238.pdf](http://panel.gsoep.de/soep-docs/surveypapers/diw_ssp0238.pdf)

	<p><b>mig</b> 7_parents on child</p>	<p>SOEP 2014</p>	<p>&gt;=4 and &lt;=15</p>	<p>x</p>	<p>x</p>		<p>Information on citizenship</p>	<p><u>Adapted from:</u>                  - The German Socio-Economic Panel Study (SOEP): SOEP Core study Individual 2014                  - German and English version: <a href="http://panel.gsoep.de/soep-docs/surveypapers/diw_esp0235.pdf">panel.gsoep.de/soep-docs/surveypapers/diw_esp0235.pdf</a>                   - The German Socio-Economic Panel Study (SOEP): SOEP Core study Life Course 2014                  - German version : <a href="http://panel.gsoep.de/soep-docs/surveypapers/diw_esp0237.pdf">http://panel.gsoep.de/soep-docs/surveypapers/diw_esp0237.pdf</a>                   - The German Socio-Economic Panel Study (SOEP): SOEP Core study Youth 2014                  - German version : <a href="http://panel.gsoep.de/soep-docs/surveypapers/diw_esp0238.pdf">http://panel.gsoep.de/soep-docs/surveypapers/diw_esp0238.pdf</a></p>
<p>Social networks</p>	<p><b>net</b> 5_less sensitive information</p>	<p>SOEP 2003/2011; SSND; PASS</p>	<p>&gt;=15</p>	<p>x</p>	<p>x</p>	<p>x x</p>	<p>Social networks (trust, friends, most important persons, loneliness)</p>	<p>Adapted from: - The German Socio-Economic Panel Study (SOEP): SOEP Core study Individual 2003                  - German version:  <a href="https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.38383.de/personen_2003.pdf">https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.38383.de/personen_2003.pdf</a>                  - The German Socio-Economic Panel Study (SOEP): SOEP Core study Individual 2011                  - German version:  <a href="https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.394133.de/soepfrabo_personen_2011.pdf">https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.394133.de/soepfrabo_personen_2011.pdf</a>                  - The Social Survey of the Networks of the Dutch (SSND)                  - Flap, H., Snijders, T., Völker, B., &amp; Van Der Gaag, M. (1999). Measurement instruments for social capital of individuals. University Utrecht, Groningen &amp; Amsterdam.                  - Available at: <a href="https://gaag.home.xs4all.nl/work/SSND.pdf">https://gaag.home.xs4all.nl/work/SSND.pdf</a>                  - Panel "Arbeitsmarkt und soziale Sicherung" (PASS): FDZ, Bundesagentur für Arbeit                  - Rudolph, H., &amp; Trappmann, M. (2007). Design und Stichprobe des Panels „Arbeitsmarkt und Soziale Sicherung“ (PASS). Neue Daten für die Sozialstaatsforschung: Zur Konzeption der IAB-Panelerhebung "Arbeitsmarkt und Soziale Sicherung". IAB Forschungsbericht, 12, 60-101.                  - Available at:  <a href="http://fdz.iab.de/de/FDZ_Individual_Data/PASS/Working_Tools.aspx">http://fdz.iab.de/de/FDZ_Individual_Data/PASS/Working_Tools.aspx</a></p>
<p>Self-report</p>								

Integration & Participation

Parental-report	net	7_parents on child	PASS		x		x		Number of close friends
Loneliness	net	5_less sensitive information	SOEP 2008	>=10	x	x	x	x	

Adapted from:

- Panel "Arbeitsmarkt und soziale Sicherung" (PASS) (FDZ, Bundesagentur für Arbeit): PASS Personenfragebogen, Welle 6 Netzwerke/Wave 6 Networks
- Rudolph, H., & Trappmann, M. (2007). Design und Stichprobe des Panels „Arbeitsmarkt und Soziale Sicherung“ (PASS). Neue Daten für die Sozialstaatsforschung: Zur Konzeption der IAB-Panelerhebung “Arbeitsmarkt und Soziale Sicherung“. IAB Forschungsbericht, 12, 60-101.
- Available at: [doku.iab.de/fdz/reporte/2013/DR\\_06-13\\_III.pdf](http://doku.iab.de/fdz/reporte/2013/DR_06-13_III.pdf)

Adapted from :

- The German Socio-Economic Panel Study (SOEP): SOEP Core study Individual 2008
- German version: [https://www.diw.de/documents/dokumentenarchiv/17/diw\\_01.c.85359.de/personen\\_2008.pdf](https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.85359.de/personen_2008.pdf)
- English version: [https://www.diw.de/documents/dokumentenarchiv/17/diw\\_01.c.85645.de/personen\\_2008\\_en.pdf](https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.85645.de/personen_2008_en.pdf)

**Notes:**

Var = Variable Stem; tu = Twins; mf = Parents and Stepparents; s = Siblings; pq = Partner of Twins

*General information on SEOP :* Wagner, Gert G., Frick, Joachim R., and Schupp, Jürgen (2007). The German Socio-Economic Panel Study (SOEP) – Scope, Evolution and Enhancements. Schmollers Jahrbuch, 127, 139-169.

*General information on pairfam :* Huinink, J., Brüderl, J., Nauck, B., Walper, S., Castiglioni, L., & Feldhaus, M. (2011). Panel analysis of intimate relationships and family dynamics (pairfam): Conceptual framework and design. ZfF–Zeitschrift für Familienforschung/Journal of Family Research, 23.

*General information on NEPS :* Blossfeld, H.-P., H.-G. Roßbach und J. von Maurice (Hrsg.) (2011). Education as a Lifelong Process – The German National Educational Panel Study (NEPS). Zeitschrift für Erziehungswissenschaft: Sonderheft 14.

Quality of Life

Construct	Facets	Var	Module	Instrument / Source	Age	tu	mf	s	pq	hh	Further information	Reference
<b>Quality of Life</b>												
<b>Global life satisfaction</b>		gls	5_less sensitive information	SWLS/ SWLS-C	>= 10	x	x	x	x			<p><u>Adapted and translated into German from:</u></p> <ul style="list-style-type: none"> <li>- <b>Satisfaction with Life Scale (SWLS)</b></li> <li>- Diener, E., Emmons, R. A., Larsen, R. J., &amp; Griffin, S. (1985). <i>The Satisfaction with Life Scale</i>. Journal of Personality Assessment, 49, 71-75.</li> <li>- Available at: <a href="http://internal.psychology.illinois.edu/~ediener/SWLS.html">http://internal.psychology.illinois.edu/~ediener/SWLS.html</a></li> </ul> <p><u>Adapted and translated into German from:</u></p> <ul style="list-style-type: none"> <li>- <b>Satisfaction with Life Scale for Children (SWLS-C)</b></li> <li>- Gadermann, A. M., Schonert-Reichl, K. A., &amp; Zumbo, B. D. (2010). <i>Investigating validity evidence of the Satisfaction with Life Scale adapted for children</i>. Social Indicators Research, 96, 229-247.</li> </ul>
<b>Domain satisfaction</b>		sat	4_sensitive personal information	SOEP 2011	>= 10	x	x	x	x		Domains: Health, work/school, income/pocket money, leisure time, family life, partnership/friendships	<p><u>Adapted from:</u></p> <ul style="list-style-type: none"> <li>- The German Socio-Economic Panel Study (SOEP): SOEP Core study Individual 2011</li> <li>- <i>German version</i> : <a href="https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.394133.de/soepfrabo_personen_2011.pdf">https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.394133.de/soepfrabo_personen_2011.pdf</a></li> <li>- <i>English version</i> : <a href="https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.394180.de/soepfrabo_personen_2011_en.pdf">https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.394180.de/soepfrabo_personen_2011_en.pdf</a></li> </ul>
<b>Satisfaction with sibling relation</b>		sat	4_sensitive personal information	TwinLife	>= 10	x		x				<i>Items developed for TwinLife</i>

**Notes:**

Var = Variable Stem; tu = Twins; mf = Parents and Stepparents; s = Siblings; pq = Partner of Twins

*General information on SEOP* : Wagner, Gert G., Frick, Joachim R., and Schupp, Jürgen (2007). The German Socio-Economic Panel Study (SOEP) – Scope, Evolution and Enhancements. Schmollers Jahrbuch, 127, 139-169.

*General information on pairfam* : Huinink, J., Brüderl, J., Nauck, B., Walper, S., Castiglioni, L., & Feldhaus, M. (2011). Panel analysis of intimate relationships and family dynamics (pairfam): Conceptual framework and design. ZfF–Zeitschrift für Familienforschung/Journal of Family Research, 23.

*General information on NEPS* : Blossfeld, H.-P., H.-G. Roßbach und J. von Maurice (Hrsg.) (2011). Education as a Lifelong Process – The German National Educational Panel Study (NEPS). Zeitschrift für Erziehungswissenschaft: Sonderheft 14.



## Health

Construct	Facets	Var	Module	Instrument / Source	Age	tu	mf	s	pq	hh	Further information	Reference
<b>Health</b>												
<b>Subjective health</b>												
		she	5_less sensitive information	SF-8 (1st Item)	>= 10	x	x	x	x		Self-report	<u>Adapted from:</u> - Short form (SF) 8 Health Survey - Ellert, U., Lampert, T., & Ravens-Sieberer, U. (2005). <i>Messung der gesundheitsbezogenen Lebensqualität mit dem SF-8</i> . Bundesgesundheitsblatt-Gesundheitsforschung-Gesundheitsschutz, 48, 1330-1337.
		she	7_parents on child	SF-8 (1st Item)	< 10	x		x			Parental-report	<u>Adapted from:</u> - Short form (SF) 8 Health Survey - Ellert, U., Lampert, T., & Ravens-Sieberer, U. (2005). <i>Messung der gesundheitsbezogenen Lebensqualität mit dem SF-8</i> . Bundesgesundheitsblatt-Gesundheitsforschung-Gesundheitsschutz, 48, 1330-1337.
<b>Objective health/ Diagnoses</b>												
	Diagnoses (adults)	dia	5_less sensitive information	SOEP 2011	>= 16	x	x	x	x		Diagnoses list for adults, self-report	<u>Adapted from:</u> - The German Socio-Economic Panel Study (SOEP): SOEP Core Study Individual 2011 - German version: <a href="https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.394133.de/soepfrabo_personen_2011.pdf">https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.394133.de/soepfrabo_personen_2011.pdf</a> - English version: <a href="https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.394180.de/soepfrabo_personen_2011_en.pdf">https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.394180.de/soepfrabo_personen_2011_en.pdf</a>
	Diagnoses (children)	dia	7_parents on child	SOEP 2011	< 16	x		x			Diagnoses list for children, parental-report	<u>Adapted from:</u> - The German Socio-Economic Panel Study (SOEP): SOEP Core Study Individual 2011 - German version: <a href="https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.394133.de/soepfrabo_personen_2011.pdf">https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.394133.de/soepfrabo_personen_2011.pdf</a> - English version : <a href="https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.394180.de/soepfrabo_personen_2011_en.pdf">https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.394180.de/soepfrabo_personen_2011_en.pdf</a>
	Impairment	imp	5_less sensitive information	TwinLife	>= 16	x	x	x	x		Self-report	<i>Items developed for TwinLife</i>
			7_parents on child	TwinLife	< 16	x		x			Parental-report	<i>Items developed for TwinLife</i>

Health

Body mass index (BMI)

Body mass index (BMI)	Height (Non Twins)	bdy	5_less sensitive information	TwinLife	>= 13	x	x	x	Self-report	Items developed for TwinLife	
	Height (Twins)		7_parents on child	TwinLife	<=13			x	Parental-report	Items developed for TwinLife	
			1_Zygoty	TwinLife			x			Self-report (>= 16), parental-report (< 16)	Items developed for TwinLife
	Weight		5_less sensitive information	TwinLife	>= 13	x	x	x	x	Self-report	Items developed for TwinLife
			7_parents on child	TwinLife	<= 13	x		x		Parental-report	Items developed for TwinLife

Health behavior

Health behavior	Doctor's visit	doc	5_less sensitive information	SOEP 2011	>= 16	x	x	x	x	Self-report	<p><u>Adapted from:</u></p> <ul style="list-style-type: none"> <li>- The German Socio-Economic Panel Study (SOEP): SOEP Core Study Individual 2011</li> <li>- German version: <a href="https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.394133.de/soepfrabo_personen_2011.pdf">https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.394133.de/soepfrabo_personen_2011.pdf</a></li> <li>- English version: <a href="https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.394180.de/soepfrabo_personen_2011_en.pdf">https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.394180.de/soepfrabo_personen_2011_en.pdf</a></li> </ul>
			7_parents on child	SOEP 2011	< 16	x		x		Parental-report	<p><u>Adapted from:</u></p> <ul style="list-style-type: none"> <li>- The German Socio-Economic Panel Study (SOEP): SOEP Core Study Individual 2011</li> <li>- German version : <a href="https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.394133.de/soepfrabo_personen_2011.pdf">https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.394133.de/soepfrabo_personen_2011.pdf</a></li> <li>- English version: <a href="https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.394180.de/soepfrabo_personen_2011_en.pdf">https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.394180.de/soepfrabo_personen_2011_en.pdf</a></li> </ul>
	Smoking, alcohol consumption, medication		5_less sensitive information	SOEP 2010	>= 16	x	x	x	x	Self-report	<p><u>Adapted from:</u></p> <ul style="list-style-type: none"> <li>- The German Socio-Economic Panel Study (SOEP): SOEP Core Study Individual 2010</li> <li>- German version : <a href="https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.369781.de/soepfrabo_personen_2010.pdf">https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.369781.de/soepfrabo_personen_2010.pdf</a></li> <li>- English version: <a href="https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.369775.de/soepfrabo_personen_2010_en.pdf">https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.369775.de/soepfrabo_personen_2010_en.pdf</a></li> </ul>

	Medication (children)	<b>hbe</b> 7_parents on child	SOEP 2010	< 16	x	x	Parental-report	<p><u>Adapted from:</u></p> <ul style="list-style-type: none"> <li>- The German Socio-Economic Panel Study (SOEP): SOEP Core Study Individual 2010</li> <li>- German version: <a href="https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.369781.de/soepfrabo_personen_2010.pdf">https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.369781.de/soepfrabo_personen_2010.pdf</a></li> <li>- English version: <a href="https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.369775.de/soepfrabo_personen_2010_en.pdf">https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.369775.de/soepfrabo_personen_2010_en.pdf</a></li> </ul>	
	General health preventive behavior	5_less sensitive information	List of age related changes (HEALTH domain)	>= 16	x	x	x	x	Self-report
Examination reports ("U-Heft")		<b>nbi</b> 8_health record book	Health record book (TwinLife)		x	x	U1 (Examination of all newborns): length at birth/birth size; birth weight; head circumference; birth defects; abnormalities; previous pregnancies; presented at clinic before birth; number of previous medical check-ups; birth in week ___of pregnancy; risk factors during pregnancy U2-U9: weight, size; head circumference; health issues	Items developed for TwinLife (form to fill-in on the basis of "U-Heft")	

**Notes:**

Var = Variable Stem; tu = Twins; mf = Parents and Stepparents; s = Siblings; pq = Partner of Twins

*General information on SEOP*: Wagner, Gert G., Frick, Joachim R., and Schupp, Jürgen (2007). The German Socio-Economic Panel Study (SOEP) – Scope, Evolution and Enhancements. Schmollers Jahrbuch, 127, 139-169.

*General information on pairfam*: Huinink, J., Brüderl, J., Nauck, B., Walper, S., Castiglioni, L., & Feldhaus, M. (2011). Panel analysis of intimate relationships and family dynamics (pairfam): Conceptual framework and design. ZfF–Zeitschrift für Familienforschung/Journal of Family Research, 23.

*General information on NEPS*: Blossfeld, H.-P., H.-G. Roßbach und J. von Maurice (Hrsg.) (2011). Education as a Lifelong Process – The German National Educational Panel Study (NEPS). Zeitschrift für Erziehungswissenschaft: Sonderheft 14.

Environment

Construct	Facets	Var	Module	Instrument / Source	Age	tu	mf	s	pq	hh	Further information	Reference
<b>Environment</b>												
<b>Parenting</b>	Parenting style (child-report)	<b>pas</b>	3_Basic module	Pairfam (wave 2, parenting; wave 4, child/parents)	< 10		x				Emotional warmth, psychological control, negative communication, monitoring, inconsistent parenting	<i>Adapted from:</i> - Panel analysis of intimate relationships and family dynamics (Pairfam): Pairfam Codebook Kind Welle 4/Child Wave 4 2011/12
	Parenting style (parental-report)	<b>par</b>	4_Sensitive personal information		>= 10		x					
	Involvement	<b>inv</b>	3_Basic module	CoSMoS Child questionnaire	>= 10	x		x			Structure, emotional support, autonomy, control	<i>Adapted from:</i> - <b>CoSMoS Kinderfragebogen</b> - Spinath, F. M., & Wolf, H. (2006). <i>CoSMoS and TwinPaW: Initial Report on two new German twin studies</i> . Twin Research and Human Genetics, 9, 787–790.
<b>Sibling relationship quality</b>												
	Warmth, conflict	<b>sre</b>	4_Sensitive personal information	ASRQ	>= 15	x		x			Frequencies concerning hostile and supportive behavior; feelings of closeness to sibling, feelings of jealousy	<i>Adapted from:</i> - <b>Adult Sibling Relationship Questionnaire (ASRQ)</b> - Stocker, C. M., Lanthier, R. P., & Furman, W. (1997). <i>Sibling relationships in early adulthood</i> . Journal of Family Psychology, 11, 210. - German translation in: Heyeres, U. (2006). <i>Adult sibling relationship questionnaire</i> . Gruppendynamik und Organisationsberatung, 37, 215-225.
	3_Basic module	SRI	< 10	x		x	Frequencies concerning hostile and supportive behavior towards twin and sibling; feelings of closeness to twin and sibling, feelings of jealousy, perceived discriminatory treatment of parents	<i>Adapted from:</i> - <b>Sibling Relationship Inventory (SRI)</b> - Boer, F., Westenberg, P. M., McHale, S. M., Updegraff, K. A., & Stocker, C. M. (1997). <i>The factorial structure of the Sibling Relationship Inventory (SRI) in American and Dutch samples</i> . Journal of Social and Personal Relationships, 14, 851-859. - Available at: <a href="http://spr.sagepub.com/content/14/6/851">http://spr.sagepub.com/content/14/6/851</a>				
Affection, hostility, rivalry									<b>sre</b>	4_Sensitive personal information	CHAOS Scale	>= 10
	Quality of home environment	<b>hoe</b>	4_Sensitive personal information	CHAOS Scale	>= 10	x	x	x				
Family activities									Child-report	<b>acc</b>	Pairfam (wave 2,	< 16
	4_sensitive personal	Pairfam (wave 2,	< 16	x		x	Child-report of frequency of joint singing, reading, sports, excursions	<i>Adapted from:</i> - Panel analysis of intimate relationships and family dynamics (Pairfam): Pairfam Codebook Erziehung Welle 2/Parenting Wave 2 2009/10 - <a href="http://www.pairfam.de/fileadmin/user_upload/redakteur/publis/Dokumentation/Codebooks/Release5.0/Codebuch_Erziehung2_de.pdf">http://www.pairfam.de/fileadmin/user_upload/redakteur/publis/Dokumentation/Codebooks/Release5.0/Codebuch_Erziehung2_de.pdf</a>				

	Parental-report	acp personal information	parenting)	age child < 10	x	Parental-report of frequency of joint singing, reading, sports, excursions	<p><u>Adapted from:</u></p> <ul style="list-style-type: none"> <li>- Panel analysis of intimate relationships and family dynamics (Pairfam): Pairfam Codebook Erziehung Welle 2/Parenting Wave 2 2009/10</li> <li>- <a href="http://www.pairfam.de/fileadmin/user_upload/redakteur/publis/Dokumentation/Codebooks/Release5.0/Codebuch_Erziehung2_de.pdf">http://www.pairfam.de/fileadmin/user_upload/redakteur/publis/Dokumentation/Codebooks/Release5.0/Codebuch_Erziehung2_de.pdf</a></li> </ul>
Relationship with grandparents	Child-report	4_sensitive personal information		>= 10	x	Child reports of e.g. contact, activities, talk about problems	<p><u>Adapted from:</u></p> <ul style="list-style-type: none"> <li>- Panel analysis of intimate relationships and family dynamics (Pairfam): Pairfam Codebook Kind Welle 2/Child Wave 2 2009/10</li> <li>- <a href="http://www.pairfam.de/fileadmin/user_upload/redakteur/publis/Dokumentation/Codebooks/Release7.0/Codebuch_Kind_de__pairfam_Welle_2_2009-10.pdf">http://www.pairfam.de/fileadmin/user_upload/redakteur/publis/Dokumentation/Codebooks/Release7.0/Codebuch_Kind_de__pairfam_Welle_2_2009-10.pdf</a></li> <li>- Panel analysis of intimate relationships and family dynamics (Pairfam): Pairfam Codebook Kind Welle 4/Child M15Wave 4 2011/12</li> <li>- <a href="http://www.pairfam.de/fileadmin/user_upload/redakteur/publis/Dokumentation/Codebooks/Release7.0/Codebuch_Kind_de__pairfam_Welle_4_2011-12.pdf">http://www.pairfam.de/fileadmin/user_upload/redakteur/publis/Dokumentation/Codebooks/Release7.0/Codebuch_Kind_de__pairfam_Welle_4_2011-12.pdf</a></li> </ul>
	Parental-report	7_parents on children	Pairfam (wave 2, child)	age child < 10	x	Frequency of twins and sibling meet grandparents (parental-report)	<p><u>Adapted from:</u></p> <ul style="list-style-type: none"> <li>- Panel analysis of intimate relationships and family dynamics (Pairfam): Pairfam Codebook Kind Welle 2/Child Wave 2 2009/10</li> <li>- <a href="http://www.pairfam.de/fileadmin/user_upload/redakteur/publis/Dokumentation/Codebooks/Release7.0/Codebuch_Kind_de__pairfam_Welle_2_2009-10.pdf">http://www.pairfam.de/fileadmin/user_upload/redakteur/publis/Dokumentation/Codebooks/Release7.0/Codebuch_Kind_de__pairfam_Welle_2_2009-10.pdf</a></li> <li>- Panel analysis of intimate relationships and family dynamics (Pairfam): Pairfam Codebook Kind Welle 4/Child Wave 4 2011/12</li> <li>- <a href="http://www.pairfam.de/fileadmin/user_upload/redakteur/publis/Dokumentation/Codebooks/Release7.0/Codebuch_Kind_de__pairfam_Welle_4_2011-12.pdf">http://www.pairfam.de/fileadmin/user_upload/redakteur/publis/Dokumentation/Codebooks/Release7.0/Codebuch_Kind_de__pairfam_Welle_4_2011-12.pdf</a></li> </ul>
Interviewer ratings on home characteristics		iva household questionnaire	DEAS		x	General household impression (e.g. tidiness, space, furnishing); Number of books in household	<p><u>Adapted from:</u></p> <ul style="list-style-type: none"> <li>- <b>Deutsches Alterssurvey (DEAS)</b>, Welle III (Deutsches Zentrum für Altersfragen, DZA)</li> <li>- Engstler, H., &amp; Schmiade, N. (2013). The German Ageing Survey (DEAS)—A Longitudinal and Time-Series Study of People in the Second Half of Life. <i>Schmollers Jahrbuch</i>, 133, 97-107.</li> <li>- Available at: <a href="https://www.dza.de/fdz/deutscher-alterssurvey/deas-dokumentation.html">https://www.dza.de/fdz/deutscher-alterssurvey/deas-dokumentation.html</a></li> </ul>

Environment

**Childcare and care characteristics**

Caregiver person/  
institution, duration

car 6\_child care

SOEP 2012

age child <= 6 x x x

Caregivers and care facilities for twins and sibling  
by age

Adapted from:

- The German Socio-Economic Panel Study (SOEP): SOEP Core Study Household 2012  
- German and English version:  
<https://www.econstor.eu/dspace/bitstream/10419/88778/1/77583694X.pdf>

Characteristics of  
institution and  
group

cai 6\_child care

SOEP

age child < 3  
or >= 3 x x

Size of the group, N childcare providers, training  
childcare providers,

Adapted from:

- Schober, P. S., & Spieß, K. C. (2013-2016). Qualität frühkindlicher Bildung und Betreuung im Sozio-oekonomischen Panel.  
- Available at:  
[https://www.diw.de/de/diw\\_01.c.430776.de/forschung\\_beratung/qualitaet\\_fruehkindlicher\\_bildung\\_und\\_betreuung\\_im\\_sozio\\_oekonomischen\\_panel.html](https://www.diw.de/de/diw_01.c.430776.de/forschung_beratung/qualitaet_fruehkindlicher_bildung_und_betreuung_im_sozio_oekonomischen_panel.html)

Satisfaction with  
kindergarten

kgc 6\_child care

SOEP

age child <= 6 x x

Number of children in the kindergarten speaking  
other languages than German, satisfaction with  
kindergarten

Adapted from:

- Schober, P. S., & Spieß, K. C. (2013-2016). Qualität frühkindlicher Bildung und Betreuung im Sozio-oekonomischen Panel.  
- Available at:  
[https://www.diw.de/de/diw\\_01.c.430776.de/forschung\\_beratung/qualitaet\\_fruehkindlicher\\_bildung\\_und\\_betreuung\\_im\\_sozio\\_oekonomischen\\_panel.html](https://www.diw.de/de/diw_01.c.430776.de/forschung_beratung/qualitaet_fruehkindlicher_bildung_und_betreuung_im_sozio_oekonomischen_panel.html)

Special  
support/programs

eac 6\_child care

SOEP

age child <= 6 x x

Frequency participation in activities organized by  
care institution

Adapted from:

- Schober, P. S., & Spieß, K. C. (2013-2016). Qualität frühkindlicher Bildung und Betreuung im Sozio-oekonomischen Panel.  
- Available at:  
[https://www.diw.de/de/diw\\_01.c.430776.de/forschung\\_beratung/qualitaet\\_fruehkindlicher\\_bildung\\_und\\_betreuung\\_im\\_sozio\\_oekonomischen\\_panel.html](https://www.diw.de/de/diw_01.c.430776.de/forschung_beratung/qualitaet_fruehkindlicher_bildung_und_betreuung_im_sozio_oekonomischen_panel.html)

Twin raised  
seperatly /  
caregiver person  
when raised  
seperatly

twt 6\_child care

TwinLife

x

Age from which were raised seperatly

Items developed for TwinLife

**Family structure & household characteristics**

Persons in- and  
outside household  
(name, age, gender,  
education)

fpr; fil;  
hpr family protocol;  
household  
questionnaire

Pairfam (wave 4,  
parenting)

x

Name, age, gender and relation to twins of all  
persons in household; name, age, gender of twins;  
name, age, gender and relation to twins of siblings  
and parents who don't live in household; partners  
of twins; form of employment of all household  
members

Adapted from:

- Panel analysis of intimate relationships and family dynamics (Pairfam): Pairfam Codebook Erziehung Welle 4/Parenting Wave 4 2011/12  
- [http://www.pairfam.de/fileadmin/user\\_upload/redakteur/publis/Dokumentation/Codebooks/Release7.0/Codebuch\\_Eltern\\_de\\_\\_pairfam\\_Welle\\_4\\_2011-12.pdf](http://www.pairfam.de/fileadmin/user_upload/redakteur/publis/Dokumentation/Codebooks/Release7.0/Codebuch_Eltern_de__pairfam_Welle_4_2011-12.pdf)

Marital status

fam 3\_basic module

SOEP 2014

>= 10 x x x

Marital status

Adapted from:

- The German Socio-Economic Panel Study (SOEP): SOEP Core study Individual 2014  
- German and English version: [panel.gsoep.de/soep-docs/surveypapers/diw\\_ssp0235.pdf](http://panel.gsoep.de/soep-docs/surveypapers/diw_ssp0235.pdf)

Environment

Partnership/gender Partner	fam	3_basic module	SOEP 2014	>= 10	x	x	x	Permanent relationship, gender of partner	<p><u>Adapted from:</u></p> <ul style="list-style-type: none"> <li>- The German Socio-Economic Panel Study (SOEP): SOEP Core study Individual 2014</li> <li>- <i>German and English version:</i> panel.gsoep.de/soep-docs/surveypapers/diw_ssp0235.pdf</li> </ul>
Housing characteristics	liv	household questionnaire	SOEP 2014; Pairfam (wave 1, anchor)		x			Housing conditions (e.g. subletting, rented apartment/house, residential property), duration of residence in dwelling, type of household (e.g. parental household, own household)	<p><u>Adapted from:</u></p> <ul style="list-style-type: none"> <li>- The German Socio-Economic Panel Study (SOEP): SOEP Core Study Household 2014</li> <li>- <i>German and English version:</i> <a href="http://panel.gsoep.de/soep-docs/surveypapers/diw_ssp0236.pdf">http://panel.gsoep.de/soep-docs/surveypapers/diw_ssp0236.pdf</a></li> <li>- Panel analysis of intimate relationships and family dynamics (Pairfam): Pairfam Codebook Ankerperson Welle 1/Anchor person Wave 1 2008/09</li> <li>- <a href="http://www.pairfam.de/fileadmin/user_upload/redakteur/publis/Dokumentation/Codebooks/Release7.0/Codebuch_Anker_de__pairfam_Welle_1_2008-09.pdf">http://www.pairfam.de/fileadmin/user_upload/redakteur/publis/Dokumentation/Codebooks/Release7.0/Codebuch_Anker_de__pairfam_Welle_1_2008-09.pdf</a></li> </ul>
Gross household income, social benefits	inc	household questionnaire	SOEP 2014; 2003		x			Monthly personal gross income, social allowances / benefits ( e.g. child and parental benefit, continued pay in maternity leave)	<p><u>Adapted from:</u></p> <ul style="list-style-type: none"> <li>- The German Socio-Economic Panel Study (SOEP): SOEP Core Study Household 2014</li> <li>- <a href="http://panel.gsoep.de/soep-docs/surveypapers/diw_ssp0236.pdf">http://panel.gsoep.de/soep-docs/surveypapers/diw_ssp0236.pdf</a></li> <li>- The German Socio-Economic Panel Study (SOEP): SOEP Pretest 2003</li> <li>- <a href="https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.38959.de/personen_pretest_2003.pdf">https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.38959.de/personen_pretest_2003.pdf</a></li> <li>- <b>Organisation for Economic Co-operation and Development (OECD) scheme</b></li> <li>- <i>Available at:</i> <a href="https://www.oecd.org/eco/growth/OECD-Note-EquivalenceScales.pdf">https://www.oecd.org/eco/growth/OECD-Note-EquivalenceScales.pdf</a></li> </ul>
Net equivalent household income	inc	generated variable	OECD equivalence scales		x			New OECD scheme using monthly household net income of all household members and age	<p><u>Adapted from:</u></p> <ul style="list-style-type: none"> <li>- The German Socio-Economic Panel Study (SOEP): SOEP Core Study Household 2014</li> <li>- <a href="http://panel.gsoep.de/soep-docs/surveypapers/diw_ssp0236.pdf">http://panel.gsoep.de/soep-docs/surveypapers/diw_ssp0236.pdf</a></li> <li>- The German Socio-Economic Panel Study (SOEP): SOEP Pretest 2003</li> <li>- <a href="https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.38959.de/personen_pretest_2003.pdf">https://www.diw.de/documents/dokumentenarchiv/17/diw_01.c.38959.de/personen_pretest_2003.pdf</a></li> <li>- <b>Organisation for Economic Co-operation and Development (OECD) scheme</b></li> <li>- <i>Available at:</i> <a href="https://www.oecd.org/eco/growth/OECD-Note-EquivalenceScales.pdf">https://www.oecd.org/eco/growth/OECD-Note-EquivalenceScales.pdf</a></li> </ul>

**Notes:**

Var = Variable Stem; tu = Twins; mf = Parents and Stepparents; s = Siblings; pq = Partner of Twins

*General information on SEOP:* Wagner, Gert G., Frick, Joachim R., and Schupp, Jürgen (2007). The German Socio-Economic Panel Study (SOEP) – Scope, Evolution and Enhancements. Schmollers Jahrbuch, 127, 139-169.

*General information on pairfam:* Huinink, J., Brüderl, J., Nauck, B., Walper, S., Castiglioni, L., & Feldhaus, M. (2011). Panel analysis of intimate relationships and family dynamics (pairfam): Conceptual framework and design. ZfF–Zeitschrift für Familienforschung/Journal of Family Research, 23.

*General information on NEPS:* Blossfeld, H.-P., H.-G. Roßbach und J. von Maurice (Hrsg.) (2011). Education as a Lifelong Process – The German National Educational Panel Study (NEPS). Zeitschrift für Erziehungswissenschaft: Sonderheft 14.

Construct	Facets	Var	Module	Instrument / Source	Age	tu	mf	s	pq	hh	Further information	Reference
<b>Deviant Behavior</b>												
<b>Internalizing</b>												
	Self-report	int	4_sensitive personal information	SDQ	>= 10	x	x	x			Subscales: Emotional symptoms, social problems	<u>Adapted from:</u> - <b>Strength and Difficulties Questionnaire (SDQ)</b> - Goodman, R., Meltzer, H., & Bailey, V. (1998). <i>The Strengths and Difficulties Questionnaire: A pilot study on the validity of the self-report version</i> . European child & adolescent psychiatry, 7, 125-130. - Available at: <a href="http://www.sdqinfo.com">http://www.sdqinfo.com</a>
	Parental-report		7_parents on child	SDQ	< 10	x		x				Subscales: Emotional symptoms, social problems
<b>Externalizing</b>												
	Self-report	ext	4_sensitive personal information	SDQ	>= 10	x	x	x			Subscales: Hyperactivity/attention, behavior problems	<u>Adapted from:</u> - <b>Strength and Difficulties Questionnaire (SDQ)</b> - Goodman, R., Meltzer, H., & Bailey, V. (1998). <i>The Strengths and Difficulties Questionnaire: A pilot study on the validity of the self-report version</i> . European child & adolescent psychiatry, 7, 125-130. - Available at: <a href="http://www.sdqinfo.com">http://www.sdqinfo.com</a>
	Parental-report		7_parents on child	SDQ	< 10	x		x				Subscales: Hyperactivity/attention, behavior problems
<b>Delinquent Behavior</b>												
	Delinquent behavior	del	4_sensitive personal information	SFB 882 Bielefeld (Fragebogen Schülerbefragung Dortmund 2012)	>= 10	x	x	x	x		Illegal activities - frequency, with whom	<u>Adapted from:</u> - <b>Sonderforschungsbereich (SFB) 882</b> „Von Heterogenitäten zu Ungleichheiten“ ( <i>More information available at:</i> <a href="http://www.sfb882.uni-bielefeld.de/">http://www.sfb882.uni-bielefeld.de/</a> ) - Fragebogen Schülerbefragung Dortmund 2012 - Available at: <a href="http://www.uni-bielefeld.de/soz/A2/pdf/Schulerinfo-Dortmund-2012.pdf/">http://www.uni-bielefeld.de/soz/A2/pdf/Schulerinfo-Dortmund-2012.pdf/</a>





Adapted from:

- **Strength and Difficulties Questionnaire (SDQ)**
- Goodman, R., Meltzer, H., & Bailey, V. (1998). *The Strengths and Difficulties Questionnaire: A pilot study on the validity of the self-report version*. European child & adolescent psychiatry, 7, 125-130.
- Available at: <http://www.sdqinfo.com>

**Notes:**

Var = Variable Stem; tu = Twins; mf = Parents and Stepparents; s = Siblings; pq = Partner of Twins

*General information on SEOP* : Wagner, Gert G., Frick, Joachim R., and Schupp, Jürgen (2007). The German Socio-Economic Panel Study (SOEP) – Scope, Evolution and Enhancements. Schmollers Jahrbuch, 127, 139-169.

*General information on pairfam* : Huinink, J., Brüderl, J., Nauck, B., Walper, S., Castiglioni, L., & Feldhaus, M. (2011). Panel analysis of intimate relationships and family dynamics (pairfam): Conceptual framework and design. ZfF–Zeitschrift für Familienforschung/Journal of Family Research, 23.

*General information on NEPS* : Blossfeld, H.-P., H.-G. Roßbach und J. von Maurice (Hrsg.) (2011). Education as a Lifelong Process – The German National Educational Panel Study (NEPS). Zeitschrift für Erziehungswissenschaft: Sonderheft 14.

Zygosity & Twin Questions

Construct	Facets	Var	Module	Instrument / Source	Age	tu	mf	s	pq	hh	Further information	Reference
<b>Zygosity &amp; Twin specific questions</b>												
<b>Zygosity questionnaire</b>												
	Parental-report for cohort 1 & 2	zyg	1_zygosity questionnaire for cohorts 1 & 2	Similarity Questionnaire	< 16	x						<i>Adapted from :</i> - Goldsmith, H. H. (1991). A Zygosity Questionnaire for Young Twins: A Research Note. Behavior Genetics, 21, 257–269. <a href="https://doi.org/10.1007/BF01065819">https://doi.org/10.1007/BF01065819</a>
	Self-report for cohort 3 & 4	zyg	1_zygosity questionnaire for cohorts 3 & 4	Similarity Questionnaire	>= 16	x						<i>Adapted from :</i> - Onisczenko, W., Angleitner, A., Strelau, J., & Angert, T. (1993). The questionnaire of twins' physical resemblance. (Unpublished Manuscript). University of Warsaw, Poland.
	Zygosity determined by saliva test	zyg0101	Person	DNA genotyping		x						<b>DNA genotyping :</b> conducted by the Eurofins Medigenomix Forensik GmbH  Generated variable: - For a detailed description including a SPSS syntax documentation see Lenau, F., & Hahn, E. (2016). TwinLife 2016 – Documentation of Zygosity Determination Data. TwinLife Survey Papers. Bielefeld/Saarbrücken. Available at <a href="https://dbk.gesis.org/DBKSearch/download.asp?db=D&amp;iid=60868">https://dbk.gesis.org/DBKSearch/download.asp?db=D&amp;iid=60868</a>
	Zygosity determined by questionnaire information	zyg0100	Person	TwinLife		x						
	Zygosity determined by questionnaire information; corrected by saliva test if differing	zyg0102	Person	TwinLife		x					'Final' zygosity varibale	<i>Generated variable</i>
<b>Self-rated zygosity</b>												
	Parental-report for cohort 1 & 2	zyg0700	1_zygosity questionnaire for cohorts 1 & 2	Similarity Questionnaire	< 16	x					e.g. „Do you believe the twins are fraternal or identical twins?“	<i>Adapted from :</i> - Goldsmith, H. H. (1991). A Zygosity Questionnaire for Young Twins: A Research Note. Behavior Genetics, 21, 257–269. <a href="https://doi.org/10.1007/BF01065819">https://doi.org/10.1007/BF01065819</a>
	Self-report for cohort 3 & 4	zyg1800	1_zygosity questionnaire for cohorts 3 & 4	Similarity Questionnaire	>= 16	x					e.g. „Do you believe you are fraternal or identical twins?“	<i>Adapted from :</i> - Onisczenko, W., Angleitner, A., Strelau, J., & Angert, T. (1993). The questionnaire of twins' physical resemblance. (Unpublished Manuscript). University of Warsaw, Poland.
<b>Twin specific questions</b>												
		tst	4_sensitive	TwinLife		x						<i>Items developed for TwinLife</i>
		tss	personal	TwinLife				x				<i>Items developed for TwinLife</i>
		tsp	3_Basic module	TwinLife			x					<i>Items developed for TwinLife</i>
		tsf	Person	TwinLife					x			<i>Items developed for TwinLife</i>

**Notes:**

Var = Variable Stem; tu = Twins; mf = Parents and Stepparents; s = Siblings; pq = Partner of Twins

*General information on SEOP* : Wagner, Gert G., Frick, Joachim R., and Schupp, Jürgen (2007). The German Socio-Economic Panel Study (SOEP) – Scope, Evolution and Enhancements. Schmollers Jahrbuch, 127, 139-169.

*General information on pairfam* : Huinink, J., Brüderl, J., Nauck, B., Walper, S., Castiglioni, L., & Feldhaus, M. (2011). Panel analysis of intimate relationships and family dynamics (pairfam): Conceptual framework and design. ZfF–Zeitschrift für Familienforschung/Journal of Family Research, 23.