

The Jyväskylä Longitudinal Study of Personality and Social Development: Measures used for the study of major topics in different data waves

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The Jyväskylä Longitudinal Study of Personality and Social Development (JYLS) has been conducted at the University of Jyväskylä, Finland. It was begun by Lea Pulkkinen (formerly Pitkänen) in 1968 and she was its Principal Investigator until 2012. Since 2013 Katja Kokko has been the PI. This publication is a supplement to the book *Human Development from Middle Childhood to Middle Adulthood: Growing up to be Middle-aged* (Pulkkinen, 2017) which is the synthesis of the results of the longitudinal study.

The initial sample consisted of 12 entire second-grade school classes drawn randomly from a certain area; the number of pupils in these classes was 369 (196 boys and 173 girls, b. mainly in 1959). The major data waves have been at the average ages of 8 (in 1968), 14, 27, 36, 42, and 50 (in 2009). The effective sample sizes, participation rates and retention rates at each wave can be seen in Table 1. For the terms used in the description of the sample see Pulkkinen and Kokko (2012). The demographic characteristics of the sample were very similar to those of the whole age cohort born in Finland in 1959 (Metsäpelto et al., 2010; Pulkkinen, 2017).

In addition, data were collected at age 33 with a specific purpose for the standardization of a personality test (Pulver, Allik, Pulkkinen, & Hämäläinen, 1995) and television viewing habits (Mustonen & Pulkkinen, 1997). Data have also been collected with intensively studied samples at ages 8, 14, and 20 (see Pulkkinen, 1982). More information about the sample and its characteristics can be found in the books by Pitkänen (1969) and Pulkkinen (2017), and in the reports published after the completion of data waves: Pulkkinen, 1988; Sinkkonen and Pulkkinen, 1996; Pulkkinen, Fyrstén, Kinnunen, U., Kinnunen, M.-L., Pitkänen, and Kokko (2003); and Pulkkinen and Kokko (2010). The edited book by Pulkkinen (1996b) presents research results based on data collected at age 36 (in 1995-1996) with the entire sample, whereas the books by Pulkkinen (1977, 1984) are based on data with an intensively studied sample at ages 14 and 20.

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Data were also collected with the children of the participants and the participants' spouses in 1997-1999 (Offspring Study). The sample of the Offspring Study and the methods used have been described in a report by Pulkkinen, Savioja, Juujärvi, Kokkonen, and Metsäpelto (2000).

Table 1

The size of the sample in each of the major data collection waves.

Age	8		14		27		36		42		50	
Gender	M	F	M	F	M	F	M	F	M	F	M	F
Intended sample	196	173										
<i>Participation rate</i> %	100	100										
Initial sample	196	173	196	173	196	173	196	173	196	173	196	173
Eligible sample	196	173	196	173	196	173	194	173	186	157	174	149
<i>Participation rate</i> %	100	100	96	97	85	90	83	88	81	85	83	85
Effective sample	196	173	189	167	166	155	161	152	151	134	144	127
<i>Retention rate</i> %			96	97	85	90	82	88	77	77	73	73

Note: The number of participants given in the table presents the number of those participants from whom some data were obtained. In adulthood, the participation fluctuated to some extent depending on the assessment method. More details about the number of participants are given in specific articles.

The number of measures used in the JYLS is high. In Table 2, measures used and the data waves in which they have been employed, are listed. For each measure, the developer of the measure is acknowledged. In the column, *Some examples of the JYLS publications*, some references are given to the JYLS publications in which the measure has been used. The references are only examples; some measures have been used in tens of publications, some measures only in a few publications, and some measures have never used in a publication. They might have been used in a Master's thesis the number of which is high based on the data.

Complete lists of JYLS publications, doctoral theses, and Master's theses are available at <https://www.jyu.fi/ytk/laitokset/psykologia/en/research/research-areas/longitudinal-studies/jyls>. Further, it is possible to obtain an access to the original JYLS measures through the Finnish Social Science Data Archive (<http://www.fsd.uta.fi/en/>).

Table 2
Measures used in the Jyväskylä Longitudinal Study of Personality and Social Development (JYLS) and in the Offspring Study.

JYLS Measures	Age of the participants in the data collection wave								Some examples of the JYLS publications	
	8	14	20	27	33	36	42	50		
Socioemotional behavior										
Peer Nomination Inventory (PNI; Pitkänen, 1969)	x	x								See items also in Pulkkinen 1987, 2017; Kokko et al., 2009
* Teacher Rating Form of the PNI	x	x								See items in Pulkkinen, 2017, Pulkkinen, Kokko, & Rantanen, 2012
* Self-rating version of the PNI			x	x		x	x	x		See items in Pulkkinen, 2017
Teacher Questionnaire (Pulkkinen, 1974; see Pulkkinen, 2017)		x								See Hämäläinen & Pulkkinen, 1996
Question Series for proactive and reactive aggression (Pitkänen, 1969)	xi ¹									Follow-up: Pitkänen-Pulkkinen, 1981
Aggression Machine (PAM; Pitkänen, 1973)	xi									Follow-up: Pitkänen-Pulkkinen, 1980
Life conditions and experiences										
Personal interview (Pulkkinen, 1977, 1984)		xi	xi	x		x	x	x		Pulkkinen, 1982; Dissertation: Perttula 1998
- Parent interview (Pulkkinen, 1977, 1982)		xi								Dissertation: Fadjukoff, 2007
Identity Status Interview (Marcia, 1966; see Fadjukoff, Pulkkinen, & Kokko, 2016)				x		x	x	x		Dissertation: Fadjukoff, 2007
Life History Calendar (Caspi et al., 1996; see Immonen & Kokko, 2008)							x	x		Kokko, Pulkkinen, & Mesiäinen, 2009; Dissertation: Räikkönen, 2012
Turning/Branching Points scale (Birren & Hedlund, 1987)						x				Rönkä, Oravala, Pulkkinen, 2003 See Pulkkinen & Kokko, 2010;
Life Situation Questionnaire LSQ 1-4 (developed by Pulkkinen in 1986)				x		x	x	x		Pulkkinen, 2006; Dissertation: Kokko, 2001
- Life Event Inventory (at ages 42-50 Life History Calendar)				x		x				Pulkkinen, 1989
- Education, work, marital status and other sociodemographic data				x		x	x	x		Kokko et al., 2014; Metsäpelto et al., 2010; Pulkkinen, 2017
School success & cognitive performances										
Teacher rating (Pitkänen, 1969)	x									Dubow et al., 2014; Pitkänen, T. et al., 2008
School reports (Pulkkinen, 1989)		x								Viinikainen et al., 2010
LUKILA (vocabulary, reading, arithmetic; Tasola, 1967; Pitkänen, 1969)	xi									
CERAD (Heyman et al., 1997; Pulliainen et al., 1999)							x	x		
Word list recall task										
Word fluency										
Digit Memory span test								x		
Personality traits										
Personality Inventory, KTK I (Cattell & Coan, 1959; Ylinentalo, 1965)	x									Pitkänen, 1969; Pulkkinen, 1982
Junior Eysenck Personality Inventory (Eysenck, 1965)	x									Pitkänen, 1969; Pulkkinen, 1982

Age of the participants in the data collection wave									
JYLS Measures	8	14	20	27	33	36	42	50	Some examples of the JYLS publications
Eysenck Personality Questionnaire, EPQ (Eysenck & Eysenck, 1975; standardized by Haapasalo, 1990)				X					Pulkkinen, 1996a; Pulkkinen, Lyyra, & Kokko, 2009
NEO-Personality Inventory, an authorized adaptation (Costa & McCrae, 1985)					X				Pulver et al., 1995, Hämäläinen et al., 1994
NEO-FFI (Costa & McCrae, 1989)					X		X	X	See Pulkkinen, 2017 for updated profile labels cf. Kinnunen et al., 2012; Kokko, Rantanen, & Pulkkinen, 2015; Rantanen et al., 2007
Personality Styles Inventory, PSI (see Pulkkinen et al., 2000)					X		X		
Vulnerability traits									
Karolinska Scales of Personality, KSP (Schalling, 1986)						X	X	X	Pulkkinen et al., 2000
Aggression Questionnaire (Buss & Perry, 1992; modified Kokko & Pulkkinen, 2005)						X	X	X	Pulkkinen, Lyyra, & Kokko, 2009
Impulsivity scale (Brown et al, 1979); risk-taking							X		Pulkkinen, Lyyra, & Kokko, 2009
Self-report Delinquency Scale (Junger-Tas, Terlouw, & Klein, 1994)						X			Pulkkinen, Lyyra, & Kokko, 2009
- self-report delinquency in Life History Calendar							X	X	
Temperament									
Adult Temperament Questionnaire (Rothbart, Ahadi, & Evans, 2000)							X		Pulkkinen, Kokko, & Rantanen, 2012
Emotion regulation									
Self-Control Inventory & Self-Control Check List (Pulkkinen)			X						Pulkkinen, 1982
Sensation Seeking Scales (Zuckerman, 1979, standardized by Haapasalo, 1990)				X					Pulkkinen, 1996a; Pulkkinen, Lyyra, Kokko, 2009
Brief Mood Introspection Scale (Mayer & Gaschke, 1988)						X	X	X	Kokko et al., 2013; Kokko, Rantanen, & Pulkkinen, 2015
Scales of Meta-Evaluation (Mayer & Stevens, 1994)						X	X	X	Kokkonen & Pulkkinen, 2001b
Scales of Meta-Regulation (Mayer & Stevens, 1994)						X	X	X	Pulkkinen, 2017; Kinnunen et al., 2005
Ambivalence over Expressiveness Questionnaire (King & Emmons, 1990)						X	X	X	Kokkonen & Pulkkinen, 2001a
Self-Control Schedule (Rosenbaum, 1980)						X			
Emotional Intelligence Scale (Mayer & Salovey, 1997; Schütte et al., 1998)							X		
Emotion Control Questionnaire (Roger & Neshschoever, 1987)							X		Tirkkonen, Kokkonen, Pulkkinen, 2004
Emotion Regulation Questionnaire (Gross & John, 2003)								X	
Self									
Personal Control over One's Development, developed by Pulkkinen based on Brandtstädter's (1984) theory (Pulkkinen & Rönkä, 1994)				X		X	X	X	Dissertation: Rönkä, 1999; Pulkkinen, Kokkonen, & Mäkiäho, 1998; Fadjukoff & Pulkkinen, 2006
Life Structure Inventory (included in the LSQ 1-4; Pulkkinen, 2017)									
Personal Value Task				X		X	X	X	Pulkkinen & Polet, 2010a
Pleasure Ranking Task				X		X	X	X	Pulkkinen, 2017

Age of the participants in the data collection wave									
JYLS Measures	8	14	20	27	33	36	42	50	Some examples of the JYLS publications
Future Orientation Questionnaire				X		X	X	X	Feldt, Mäkikangas, & Aunola, 2006
Self-Esteem Scale (Rosenberg, 1965)						X	X	X	Kinnunen, M-L. et al., 2008
Strategy and Attribution Questionnaire (Nurmi, Salmela-Aro, & Haavisto, 1995)						X	X		Aunola et al., 1999; Pulkkinen, Lyyra, & Kokko, 2009
Schwartz Value Survey (Schwartz, 1992; Puohiniemi, 1995)								X	Dissertation: Hietalahti, 2017; Pulkkinen, 2017
Goal Pattern/Life Investment Schedule (Staudinger, 1996; Staudinger & Fleeson, 1996)						X			Hietalahti, Tolvanen, & Kokko, 2015
- with additional items developed in the JYLS (Pulkkinen, 2017)							X	X	
Attitudes towards Own Aging subscale from the Philadelphia Geriatric Center Morale Scale (Liang & Bollen, 1983; Levy et al., 2002)								X	
Regrets (Jokisaari, 2007)								X	Lahtela et al., 2014
Mental well-being and ill-being									
Life Satisfaction Scale (Life Situation Questionnaire 1-4)				X		X	X	X	Kokko et al., 2013; Kokko, Rantanen, & Pulkkinen, 2015; Pulkkinen, Feldt, & Kokko, 2005
- housing, financial situation, choice of occupation, present employment situation, intimate relationship, leisure, friendship									
Mood line (Perho & Korhonen, 1993)						X	X	X	Kokko et al., 2013; Kokko, Rantanen, & Pulkkinen, 2015
Satisfaction with Life Scale (Diener, Emmons, Larsen, & Griffin, 1985).								X	Hietalahti, Rantanen, & Kokko, 2016
International Positive and Negative Affect Schedule Short Form (Thompson, 2007)								X	Hietalahti, Rantanen, & Kokko, 2016; Kokko & Shehadeh, 2016
Scales of Psychological Well-Being (Ryff, 1989)						X	X	X	Kokko et al., 2013; Kokko, Tolvanen, & Pulkkinen, 2013; Pulkkinen, Feldt, & Kokko, 2005
Scales of Social Well-Being (Keyes, 1998)							X	X	Kokko et al., 2013
Generativity Scale (Ryff & Heincke, 1983)							X	X	Kokko & Shehadeh, 2016
Integrity Scale (Ryff & Heincke, 1983)							X	X	Kokko & Shehadeh, 2016
Orientation to Life Questionnaire: Sense of Coherence (Antonovsky, 1987)							X		Feldt, Metsäpelto, Kinnunen & Pulkkinen, 2007
Depression scale of General Behavior Inventory (Depue, 1987)						X	X	X	Kokko & Pulkkinen, 1998; Kokko, Rantanen, & Pulkkinen, 2015; Pulkkinen, Lyyra, & Kokko, 2011
Family									
Child-Rearing Practices Questionnaire composed by Pulkkinen 1996 (see Pulkkinen, 2017)						X	X		Dissertation: Metsäpelto, 2003; Aunola et al., 1999; Fadjuhoff et al, 2016
- Parenting Stress (Abidin, 1990)						X	X	X	Rantanen et al., 2015
Family Atmosphere Scale; present, & childhood home (Hanson, 1989)						X			Saarenpää, 1998 (Offspring-projekti)
Family Climate Form (Lüscher et al., 2000)							X		
Dyadic Adjustment Scale (Busby et al., 1995; Spanier, 1976)						X	X	X	Kinnunen, U. & Pulkkinen, 1998, 2003
Intimate Relationship measure (Tolkki-Nikkonen, 1990)						X	X		Kettunen, Krats, & Kinnunen, 1996
Conflict Tactics Scale (Strauss, 1992)						X			Kinnunen U. et al., 2000
- Revised Conflict Tactics Scale (Strauss & Hamby, 1996)							X		Kinnunen U. & Pulkkinen, 2003

Age of the participants in the data collection wave									
JYLS Measures	8	14	20	27	33	36	42	50	Some examples of the JYLS publications
Sexual relationships and jealousy (Kontula & Koskela, 1991)							X		Suomalainen et al., 2004
Solidarity across Generations (Bengtson & Roberts, 1991)						X	X	X	Hurme, 2006
Social Support Scale (Sarason et al., 1987)							X		
Social Provision Scale (Cutrona & Russell, 1987)								X	
Generation ambivalence (Lüscher et al., 2000)							X		
The Relationship Questionnaire (Bartholomew & Horowitz, 1991)						X	X		Dissertation: Männikkö, 2001
Work									
Significance of work (Kahn & Wiener, 1967)						X	X	X	Pulkkinen, 2017
Control at work (Ahola, Djerf, Heiskanen, & Vikki, 1995)						X	X	X	Kinnunen et al., 2006
Time demands at work adapted from Job Stress Survey (Karasek, 1979)						X	X	X	Jalonen et al., 2015; Kinnunen et al., 2006
Work and mental health (Warr, 1994)						X			
Job Exhaustion (Maslach & Hackson, 1986)						X	X	X	Mäkikangas et al., 2015; Rantanen et al., 2012
Job content Questionnaire; Skill Discretion (Karasek, 1985)							X	X	Jalonen et al., 2015
Work-Home Interaction (Frone, Russell, & Cooper, 1992)						X	X	X	Dissertation: Rantanen, 2008; Rantanen et al., 2012
Reconciliation of work and family life (Geurts, 2000; van Steenbergen, Ellemers & Mooijart, 2007)								X	
Recovery experiences (Sonnetag & Fritz, 2007)								X	Jalonen et al., 2015
Utrecht Work Engagement Scale (Schaufeli, Bakker, & Salanova, 2006)								X	Mäkikangas et al., 2015
Dutch Work Addiction Scale; Workaholism (Schaufeli, Tarris & Bakker, 2008)								X	Mäkikangas et al., 2015; Rantanen et al., 2015
Health behavior									
Self-rated health (LSQ 1-4)				X		X	X	X	Kinnunen et al., 2012
A Symptom Check List (Aro, 1988)						X	X	X	Kinnunen et al., 2005; Kinnunen et al., 2012; Kokkonen et al., 2002
General Health Questionnaire (Goldberg, 1972)						X	X	X	Mäkikangas, 2006
GAGE Questionnaire (Ewing, 1984)						X	X	X	Pitkänen, T. et al., 2008
Michigan Alcoholism Screening Test (Selzer, 1971; mm-MAST adapted by Kristenson & Trell, 1982)						X	X	X	Pitkänen, T. et al., 2008
Quantity x Frequency of Drinking (LSQ 1-4, Pitkänen et al., 2005)				X		X	X	X	Pitkänen, T. et al., 2008
Drinking Behavior: life-time line (Pulkkinen, 1996)									Merikallio-Pajunen, Rönkä, & Pulkkinen, 2006
Leisure activities (Pulkkinen, 2017)		X	X	X		X	X	X	Pulkkinen & Polet, 2010b
TV Viewing Motivations (Rubin, 1983)					X				Dissertation: Mustonen, 1997; Mustonen, 1996
Television Program Choices (Van den Bulck, 1995)					X				Dissertation: Mustonen, 1997
Laboratory tests (Dissertation: Kinnunen, 2005; Pulkkinen, 2006)							X	X	
blood pressure, cholesterol, blood sugar, liver function etc.)									Kinnunen, M.-L. et al., 2005; Kivimäki et al., 2004

Age of the participants in the data collection wave									Some examples of the JYLS publications
JYLS Measures	8	14	20	27	33	36	42	50	
OFFSPRING² study in 1997-1999 (Pulkkinen et al., 2000)									
Measures and publications									
Children									
<i>Cognitive self-regulation</i>									
<ul style="list-style-type: none"> - Help seeking (Puustinen et al., 2004, 2008) - Executive functioning (Lehto et al., 2003) 									
(Cambridge Neuropsychological Test Automated Battery, CANTAB; Neuropsychological Assessment, NEPSY; Trail Making Test; Matching Familiar Figures, WISC-R)									
<i>Behavioral and Emotional self-regulation</i>									
Aggression Machine (PAM computerized; Juujärvi et al., 2001)									
Electrocardiogram Recordings (Juujärvi et al., 2006a, b)									
Emotion Control Questionnaire (Roger & Heshhoever, 1987; Tirkkonen, Kokkonen, & Pulkkinen, 2004)									
Multidimensional Peer Nomination Inventory, MPNI (Pulkkinen, Kaprio, & Rose, 1999; Juujärvi et al., 2001; Metsäpelto & Juujärvi, 2006; Kinnunen & Rantanen, 2006; Puustinen et al., 2004; Pulkkinen, 2017)									
Circle Tracing Task (Puustinen et al., 2004)									
Impulsiveness and Venturesomeness scales from the Junior I ₆ questionnaire by Eysenck et al., 1984; Puustinen et al., 2004)									
<i>Family</i>									
Observations on parent-child interaction (Metsäpelto & Pulkkinen, 2005; Metsäpelto, Pulkkinen, & Poikkeus, 2001; dissertation: Metsäpelto, 2003)									
Family atmosphere Questionnaire (Metsäpelto & Juujärvi, 2006; Metsäpelto & Pulkkinen, 2005)									
JYLS measures for the spouses³									
Self-rating version of the PNI									
Vulnerability traits: Aggressiveness and Impulsiveness scales (a short version composed from the Karolinska Scales of Personality and Aggression Questionnaire by Buss & Perry, 1992)									
Emotional Control Questionnaire									
Personal Control over One's Development									
Self-Esteem Scale									
Drinking Behavior, life-time line									
Child Rearing Practices Questionnaire (see the JYLS measures)									
käytetty Puustinen et al., 2008, Metsäpelto & Juujärvi, 2006; Metsäpelto & Pulkkinen, 2005; dissertation: Metsäpelto, 2003									
Family Atmosphere (Hanson, 1989)									

Age of the participants in the data collection wave										
JYLS Measures	8	14	20	27	33	36	42	50	Some examples of the JYLS publications	
General Health Questionnaire (Goldberg, 1972)										

Notes.

¹ Intensively studied samples.

² Children (71 girls, 78 boys) aged 7 to 13 of the JYLS participants (54 women, 34 men) and 76 spouses of them)

³ Data collected at age 36 were used for the JYLS participants.

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