Original article. Scand J Work Environ Health. 2017;43(4):316–324.

A life course perspective on mental health problems, employment and work outcomes [1]

by Karin Veldman, Phd,[2] Sijmen A Reijneveld, Phd, Frank C Verhulst, Phd, Josue Almansa , Phd, Ute Bültmann, Phd

1. *Supplementary tables*
2. *Correspondence to Karin Veldman, Department of Health Sciences, Community & Occupational Medicine, University Medical Center Groningen, P.O. Box 196, FA 10, 9700 AD, Groningen, The Netherlands. [E-mail: k.veldman@umcg.nl].*

Table 3. Class membership of mental health trajectories as predictors of employment conditions: results from linear and logistic regression analysis (N=360)

	Model 1 (crude)						Model 2 (adjusted for background variables)						Model 3 (adjusted for background variables and comorbidity					
	Working hours		Contract (permanent vs. temporary)		Income (Low vs. not low)		Working hours		Contract (permanent vs. temporary)		Income (Low vs. not low)		Working hours		Contract (permanent vs. temporary)		Income (Low vs. not low)	
	B	95% CI	OR	95% CI	OR	95% CI	B	95% CI	OR	95% CI	OR	95% CI	B	95% CI	OR	95% CI	OR	95% CI
Externalizing problems																		
High-stable	**4.24**	**0.59-7.89**	0.60	0.31-1.17	0.59	0.30-1.13	**4.29**	**0.61-7.97**	0.63	0.31-1.26	0.51	0.26-1.02	**6.71**	**2.82-10.6**	0.67	0.32-1.41	**0.33**	**0.15-0.71**
Decreasing	3.13	-1.32-7.58	1.56	0.66-3.70	0.75	0.34-1.66	3.02	-1.43-7.46	1.58	0.65-3.83	0.66	0.29-1.51	3.47	-1.02-7.97	1.50	0.60-3.73	0.58	0.25-1.37
Moderate-stable	**4.74**	**1.05-8.42**	0.84	0.42-1.65	**0.48**	**0.24-0.93**	**4.87**	**1.17-8.56**	0.87	0.43-1.75	**0.43**	**0.21-0.85**	**6.23**	**2.48-9.98**	0.89	0.43-1.83	**0.34**	**0.16-0.70**
Low-stable	0		1		1		0		1		1		0		1		1	
Internalizing problems																		
High-stable	**-4.04**	**-7.84--0.24**	0.76	0.38-1.51	**2.43**	**1.19-4.95**	**-4.09**	**-7.93--0.24**	0.76	0.37-1.54	**2.38**	**1.14-4.96**	**-6.07**	**-10.1--2.05**	0.90	0.42-1.91	**3.44**	**1.53-7.74**
Decreasing	-0.44	-4.39-3.50	1.42	0.68-2.96	1.42	0.68-2.99	-0.64	-4.60-3.32	1.49	0.70-3.16	1.35	0.63-2.87	-0.41	-4.44-3.62	1.28	0.59-2.80	1.33	0.60-2.95
Moderate-stable	-2.15	-5.25-0.95	0.93	0.53-1.63	1.43	0.79-2.59	-2.37	-5.48-0.73	0.93	0.52-1.67	1.39	0.76-2.56	**-3.77**	**6.93--0.62**	1.01	0.55-1.84	1.84	0.96-3.52
Low-stable	0		1		1		0		1	1	1		0		1		1	

Table 4. Class membership of mental health trajectories as predictors of psychosocial work characteristics: results from linear regression analysis (N=360)

	Model 1 (crude)						Model 2(adjusted for background variables)						Model 3 (adjusted for background variables and comorbidity)					
	Quantitative demands		Work pace		Decision authority		Quantitative demands		Work pace		Decision authority		Quantitative demands		Work pace		Decision authority	
	B	95% CI	B	95% CI	B	95% CI	B	95% CI	B	95% CI	B	95% CI	B	95% CI	B	95% CI	B	95% CI
Externalizing problems																		
High-stable	0.33	-0.08-0.74	0.06	-0.48-0.60	0.14	-0.43-0.72	0.34	-0.07-0.75	0.05	-0.50-0.59	0.14	-0.44-0.72	0.15	-0.28-0.59	-0.09	-0.68-0.50	0.32	-0.31-0.94
Decreasing	-0.08	-0.58-0.42	-0.53	-1.19-0.14	0.02	-0.68-0.72	-0.10	-0.59-0.39	-0.51	-1.17-0.15	0.01	-0.69-0.71	-0.13	-0.63-0.37	-0.57	-1.24-0.11	0.07	-0.65-0.79
Moderate-stable	0.15	-0.26-0.57	-0.31	-0.86-0.23	-0.08	-0.65-0.50	0.20	-0.21-0.61	-0.29	-0.84-0.26	-0.02	-0.60-0.57	0.13	-0.29-0.55	-0.40	-0.96-0.17	0.11	-0.49-0.71
Low-stable	0		0		0		0		0		0		0		0		0	
Internalizing problems																		
High-stable	**0.70**	**0.28-1.12**	0.44	-0.13-1.00	-0.17	-0.76-0.42	**0.64**	**0.22-1.06**	0.34	-0.24-0.91	-0.26	-0.86-0.34	**0.59**	**0.14-1.04**	0.30	-0.31-0.91	-0.39	-1.03-0.25
Decreasing	-0.04	-0.47-0.40	0.07	-0.52-0.66	-0.11	-0.72-0.50	-0.04	-0.47-0.40	0.02	-0.57-0.61	-0.16	-0.77-0.46	0.03	-0.42-0.48	0.13	-0.48-0.74	-0.13	-0.77-0.50
Moderate-stable	0.12	-0.22-0.46	0.35	-0.11-0.81	-0.33	-0.81-0.15	0.15	-0.19-0.49	0.33	-0.13-0.79	-0.35	-0.83-0.13	0.12	-0.24-0.47	0.36	-0.11-0.84	-0.41	-0.91-0.10
Low-stable	0		0		0		0		0		0		0		0		0	

Table 4 continued. Class membership of mental health trajectories as predictors of psychosocial work characteristics: results from linear regression analysis (N=360)

	Model 1 (crude)						Model 2 (adjusted for background variables)						Model 3 (adjusted for background variables and comorbidity)					
	Possibilities for development		Meaning of work		Job satisfaction		Possibilities for development		Meaning of work		Job satisfaction		Possibilities for development		Meaning of work		Job satisfaction	
	B	95% CI	B	95% CI	B	95% CI	B	95% CI	B	95% CI	B	95% CI	B	95% CI	B	95% CI	B	95% CI
Externalizing problems																		
High-stable	-0.12	-0.75-0.51	-0.59	-1.23-0.05	-0.19	-0.41-0.04	-0.07	-0.71-0.57	-0.56	-1.20-0.08	-0.18	-0.41-0.05	0.17	-0.51-0.85	-0.19	-0.87-0.49	-0.08	-0.32-0.16
Decreasing	-0.01	-0.77-0.76	-0.48	-1.26-0.30	-0.14	-0.42-0.13	0.02	-0.74-0.79	-0.40	-1.17-0.38	-0.15	-0.42-0.13	0.01	-0.77-0.80	-0.43	-1.21-0.36	-0.06	-0.34-0.22
Moderate-stable	0.25	-0.38-0.89	-0.19	-0.84-0.45	-0.03	-0.26-0.20	0.31	-0.33-0.95	-0.19	-0.83-0.45	-0.03	-0.26-0.20	0.43	-0.22-1.09	0.02	-0.64-0.67	0.06	-0.17-0.29
Low-stable	0		0		0		0		0		0		0		0		0	
Internalizing problems																		
High-stable	**-0.52**	**-1.18--0.13**	**-0.84**	**-1.51--0.18**	**-0.32**	**-0.55--0.09**	-0.55	-1.22-0.11	**-0.82**	**-1.48--0.16**	**-0.32**	**-0.55--0.08**	-0.57	-1.27-0.14	**-0.75**	**-1.45--0.04**	**-0.27**	**-0.52--0.02**
Decreasing	0.17	-0.51-0.84	0.28	-0.40-0.97	**-0.32**	**-0.55--0.08**	0.15	0.53-.0.83	0.26	-0.43-0.94	**-0.31**	**-0.55--0.07**	0.20	-0.51-0.90	0.36	-0.35-1.06	**-0.30**	**-0.55--0.05**
Moderate-stable	-0.17	-0.70-0.36	-0.43	-0.97-0.11	**-0.39**	**-0.58--0.20**	-0.18	-0.72-0.35	-0.48	-1.01-0.05	**-0.39**	**-0.58--0.20**	-0.24	-0.79-0.32	-0.45	-1.01-0.10	**-0.38**	**-0.57--0.18**
Low-stable	0		0		0		0		0		0		0		0		0	

Table 5. Overview of raw and mean scores of externalizing and internalizing problems (YSR and ASR) per measurement point.

	Age	Raw scores		Mean scores	
		Mean	SD	Mean	SD
Externalizing problems*					
YSR	11	8.46	6.50	0.26	0.20
YSR	13.5	9.26	6.07	0.29	0.19
YSR	16	10.6	7.29	0.33	0.23
ASR	19	9.12	9.43	0.22	0.20
ASR	22	6.79	6.39	0.19	0.18
Internalizing problems**					
YSR	11	11.1	7.18	0.36	0.23
YSR	13.5	10.2	7.63	0.33	0.24
YSR	16	10.1	7.74	0.32	0.25
ASR	19	7.78	6.94	0.23	0.24
ASR	22	9.96	9.88	0.26	0.25

YSR: Youth Self-Report | ASR: Adult Self-Report

* Cut-off point for subclinical (clinical) scores is for boys 17 (20), and for girls 16 (21)

** Cut-off point for subclinical (clinical) scores is for boys 14 (18), and for girls 19 (24)

Table 4b. Model 2

Externalizing versus internalizing problems	Model 2 (adjusted for background variables)					
	Quantitative demands		Work pace		Decision authority	
	B	95% CI	B	95% CI	B	95% CI
Externalizing						
High-stable	0.34	-0.07–0.75	0.05	-0.50–0.59	0.14	-0.44–0.72
Decreasing	-0.10	-0.59–0.39	-0.51	-1.17–0.15	0.01	-0.69–0.71
Moderate-stable	0.20	-0.21–0.61	-0.29	-0.84–0.26	-0.02	-0.60–0.57
Low-stable	0		0		0	
Internalizing						
High-stable	**0.64**	**0.22–1.06**	0.34	-0.24–0.91	-0.26	-0.86–0.34
Decreasing	-0.04	-0.47–0.40	0.02	-0.57–0.61	-0.16	-0.77–0.46
Moderate-stable	0.15	-0.19–0.49	0.33	-0.13–0.79	-0.35	-0.83–0.13
Low-stable	0		0		0	
Externalizing						
High-stable	-0.07	-0.71-0.57	-0.56	-1.20-0.08	-0.18	-0.41-0.05
Decreasing	0.02	-0.74-0.79	-0.40	-1.17-0.38	-0.15	-0.42-0.13
Moderate-stable	0.31	-0.33-0.95	-0.19	-0.83-0.45	-0.03	-0.26-0.20
Low-stable	0		0		0	
Internalizing						
High-stable	-0.55	-1.22–0.11	**-0.82**	**-1.48– -0.16**	**-0.32**	**-0.55– -0.08**
Decreasing	0.15	0.53–0.83	0.26	-0.43–0.94	**-0.31**	**-0.5–- -0.07**
Moderate-stable	-0.18	-0.72–0.35	-0.48	-1.01–0.05	**-0.39**	**-0.58– -0.20**
Low-stable	0		0		0	