

Changes in working life expectancy with disability in the Netherlands, 1992–2016¹

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1. *Supplementary material*
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Supplementary file A

Cohort	Age	WLE without disability		WLE with disability		Total WLE	
		Years	95% CI	Years	95% CI	Years	95% CI
1992-1996	55	3.92	3.33-4.47	1.00	0.68-1.35	4.93	4.23-5.48
	56	3.56	3.05-4.01	0.93	0.63-1.27	4.49	3.93-4.99
	57	3.22	2.75-3.67	0.86	0.60-1.16	4.08	3.55-4.57
	58	2.91	2.46-3.32	0.79	0.55-1.10	3.70	3.19-4.18
	59	2.61	2.22-3.03	0.73	0.48-1.00	3.34	2.86-3.81
	60	2.34	1.96-2.76	0.66	0.45-0.96	3.01	2.57-3.48
	61	2.09	1.74-2.47	0.61	0.40-0.91	2.70	2.26-3.12
	62	1.86	1.51-2.27	0.55	0.35-0.85	2.41	2.00-2.88
	63	1.65	1.30-2.08	0.50	0.29-0.78	2.15	1.75-2.60
	64	1.45	1.13-1.84	0.45	0.26-0.71	1.91	1.51-2.33
	65	1.27	0.97-1.58	0.41	0.22-0.63	1.68	1.31-2.04
	66	1.10	0.83-1.42	0.36	0.19-0.59	1.46	1.14-1.83
	67	0.94	0.66-1.20	0.31	0.15-0.51	1.24	0.94-1.53
	68	0.75	0.54-0.95	0.25	0.12-0.39	1.00	0.76-1.20
2002-2006	55	4.62	4.03-5.12	1.31	1.00-1.63	5.94	5.33-6.44
	56	4.23	3.70-4.74	1.22	0.89-1.55	5.45	4.87-6.00
	57	3.85	3.37-4.35	1.14	0.85-1.42	4.99	4.45-5.52
	58	3.50	3.00-4.00	1.06	0.77-1.34	4.55	4.00-5.08
	59	3.17	2.73-3.67	0.98	0.69-1.24	4.14	3.63-4.69
	60	2.86	2.41-3.32	0.90	0.60-1.23	3.76	3.25-4.27
	61	2.57	2.16-3.04	0.83	0.54-1.14	3.40	2.89-3.94
	62	2.30	1.88-2.76	0.76	0.48-1.07	3.06	2.54-3.55
	63	2.05	1.64-2.46	0.69	0.43-1.00	2.74	2.27-3.18
	64	1.81	1.41-2.18	0.62	0.36-0.90	2.43	1.97-2.86
	65	1.59	1.22-1.97	0.56	0.31-0.84	2.14	1.70-2.56
	66	1.37	1.04-1.70	0.49	0.26-0.70	1.85	1.49-2.22
	67	1.14	0.84-1.41	0.41	0.20-0.61	1.55	1.20-1.83
	68	0.88	0.68-1.08	0.32	0.16-0.45	1.20	0.97-1.38
2012-2016	55	5.19	4.62-5.76	1.90	1.50-2.34	7.09	6.39-7.67
	56	4.76	4.18-5.26	1.78	1.38-2.20	6.54	5.87-7.05

	57	4.35	3.80-4.84	1.65	1.27-2.07	6.01	5.34-6.57
	58	3.97	3.42-4.45	1.54	1.16-1.96	5.50	4.86-6.03
	59	3.60	3.09-4.08	1.42	1.05-1.79	5.03	4.40-5.55
	60	3.26	2.78-3.71	1.31	0.90-1.66	4.57	3.98-5.06
	61	2.94	2.43-3.41	1.20	0.84-1.59	4.14	3.53-4.64
	62	2.63	2.15-3.08	1.10	0.72-1.46	3.73	3.15-4.20
	63	2.34	1.90-2.75	0.99	0.61-1.36	3.33	2.76-3.76
	64	2.06	1.65-2.43	0.89	0.56-1.20	2.95	2.46-3.32
	65	1.79	1.40-2.13	0.79	0.46-1.10	2.58	2.11-2.93
	66	1.52	1.17-1.83	0.68	0.37-0.95	2.20	1.75-2.49
	67	1.25	0.97-1.52	0.56	0.30-0.76	1.80	1.43-2.04
	68	0.94	0.72-1.12	0.42	0.24-0.57	1.35	1.12-1.50

Table 1. WLEs for workers *in general* in three time periods (N = 1074)

Table 2. WLEs for workers with a disability at the specified ages in three time periods (N = 1074)

Cohort	Age	WLE without disability		WLE with disability		Total WLE	
		Years	95% CI	Years	95% CI	Years	95% CI
1992-1996	55	1.90	0.97-2.86	2.80	1.75-3.90	4.70	3.04-5.80
	56	1.75	0.94-2.59	2.57	1.72-3.44	4.33	3.00-5.26
	57	1.61	0.91-2.35	2.37	1.58-3.19	3.98	2.85-4.90
	58	1.48	0.82-2.17	2.17	1.49-3.05	3.65	2.62-4.54
	59	1.35	0.74-1.98	1.99	1.33-2.76	3.34	2.41-4.11
	60	1.23	0.69-1.85	1.82	1.22-2.73	3.05	2.24-3.90
	61	1.12	0.61-1.70	1.66	1.07-2.47	2.78	2.02-3.57
	62	1.01	0.52-1.57	1.52	0.92-2.37	2.52	1.80-3.28
	63	0.90	0.40-1.42	1.38	0.83-2.14	2.28	1.57-2.97
	64	0.81	0.35-1.34	1.25	0.70-2.00	2.06	1.38-2.75
	65	0.71	0.30-1.19	1.13	0.59-1.82	1.84	1.22-2.47
	66	0.61	0.20-1.06	1.01	0.83-1.42	1.63	1.07-2.17
	67	0.51	0.17-0.91	0.89	0.38-1.50	1.40	0.88-1.84
	68	0.37	0.12-0.72	0.75	0.35-1.20	1.13	0.68-1.44
2002-2006	55	1.36	0.75-2.19	3.29	2.50-4.11	4.65	3.61-5.68
	56	1.27	0.72-1.96	3.04	2.32-3.79	4.31	3.35-5.20
	57	1.18	0.66-1.92	2.81	2.15-3.53	3.99	3.11-4.78
	58	1.09	0.58-1.84	2.59	1.97-3.27	3.68	2.85-4.52
	59	1.01	0.53-1.81	2.38	1.75-3.12	3.39	2.58-4.29
	60	0.92	0.45-1.63	2.19	1.56-2.91	3.11	2.24-4.01
	61	0.84	0.36-1.56	2.01	1.33-2.82	2.85	1.92-3.77
	62	0.77	0.30-1.53	1.84	1.21-2.63	2.60	1.70-3.55
	63	0.69	0.27-1.37	1.68	1.05-2.46	2.37	1.53-3.23
	64	0.61	0.18-1.24	1.53	0.90-2.25	2.14	1.26-2.91
	65	0.54	0.15-1.20	1.38	0.75-2.20	1.92	1.01-2.69
	66	0.45	0.12-1.00	1.24	0.66-1.95	1.69	0.94-2.36
	67	0.36	0.08-0.90	1.08	0.52-1.60	1.44	0.73-1.99
	68	0.24	0.06-0.68	0.90	0.42-1.28	1.14	0.60-1.49
2012-2016	55	2.46	1.70-3.33	4.31	3.46-5.05	6.77	5.61-7.66
	56	2.30	1.51-3.05	3.99	3.22-4.73	6.29	5.16-7.16
	57	2.14	1.40-2.96	3.69	2.94-4.42	5.83	4.72-6.66
	58	1.98	1.25-2.78	3.41	2.68-4.14	5.39	4.25-6.21
	59	1.82	1.09-2.57	3.14	2.43-3.89	4.97	3.83-5.71
	60	1.67	0.95-2.43	2.89	2.12-3.67	4.56	3.42-5.32
	61	1.52	0.84-2.23	2.65	1.92-3.39	4.17	3.06-4.89
	62	1.37	0.69-2.12	2.42	1.68-3.25	3.80	2.70-4.52
	63	1.23	0.57-1.95	2.20	1.42-2.97	3.43	2.39-4.08
	64	1.08	0.44-1.75	1.99	1.22-2.76	3.07	2.06-3.70
	65	0.93	0.34-1.59	1.78	1.03-2.49	2.71	1.78-3.24
	66	0.76	0.27-1.35	1.57	0.86-2.17	2.33	1.45-2.80
	67	0.58	0.18-1.12	1.34	0.67-1.85	1.92	1.21-2.29
	68	0.38	0.11-0.81	1.07	0.55-1.40	1.44	0.92-1.64

Table 3. WLEs for workers *without a disability at the specified ages* in three time periods (N = 1074)

Cohort	Age	WLE without disability		WLE with disability		Total WLE	
		Years	95% CI	Years	95% CI	Years	95% CI
1992-1996	55	4.31	3.69-4.82	0.66	0.39-1.01	4.97	4.26-5.51
	56	3.91	3.38-4.37	0.61	0.35-0.93	4.52	3.89-5.05
	57	3.54	3.05-4.01	0.56	0.33-0.87	4.10	3.57-4.59
	58	3.19	2.74-3.64	0.51	0.31-0.81	3.70	3.20-4.19
	59	2.87	2.44-3.32	0.47	0.26-0.73	3.34	2.85-3.83
	60	2.57	2.19-3.01	0.42	0.24-0.69	3.00	2.56-3.44
	61	2.30	1.92-2.71	0.38	0.21-0.64	2.68	2.23-3.13
	62	2.04	1.67-2.45	0.35	0.17-0.59	2.39	1.97-2.84
	63	1.81	1.44-2.26	0.31	0.15-0.56	2.12	1.69-2.59
	64	1.60	1.25-1.98	0.27	0.13-0.48	1.87	1.46-2.31
	65	1.40	1.08-1.73	0.24	0.11-0.43	1.64	1.26-2.03
	66	1.22	0.92-1.57	0.21	0.08-0.44	1.43	1.08-1.81
	67	1.04	0.73-1.33	0.17	0.06-0.34	1.21	0.88-1.52
	68	0.84	0.62-1.06	0.12	0.05-0.25	0.96	0.72-1.19
2002-2006	55	5.38	4.76-5.88	0.85	0.59-1.21	6.24	5.58-6.79
	56	4.93	4.34-5.47	0.79	0.52-1.15	5.72	5.08-6.30
	57	4.50	3.96-5.06	0.73	0.45-1.04	5.23	4.62-5.85
	58	4.09	3.55-4.62	0.68	0.43-0.98	4.77	4.17-5.31
	59	3.71	3.23-4.23	0.62	0.37-0.93	4.33	3.79-4.88
	60	3.35	2.85-3.84	0.57	0.35-0.90	3.92	3.39-4.46
	61	3.02	2.56-3.52	0.52	0.28-0.78	3.54	3.02-4.06
	62	2.71	2.24-3.19	0.47	0.24-0.76	3.18	2.66-3.70
	63	2.42	1.96-2.89	0.42	0.22-0.70	2.84	2.31-3.32
	64	2.14	1.68-2.61	0.37	0.16-0.64	2.51	2.00-2.96
	65	1.88	1.46-2.33	0.32	0.14-0.59	2.20	1.76-2.65
	66	1.63	1.24-2.04	0.27	0.11-0.53	1.90	1.47-2.30
	67	1.37	1.01-1.66	0.21	0.08-0.42	1.58	1.20-1.87
	68	1.07	0.83-1.27	0.14	0.05-0.28	1.22	0.95-1.41
2012-2016	55	5.98	5.39-6.58	1.20	0.85-1.59	7.18	6.45-7.82
	56	5.49	4.88-6.03	1.12	0.78-1.48	6.61	5.90-7.15
	57	5.03	4.47-5.57	1.03	0.67-1.39	6.06	5.35-6.65
	58	4.58	4.03-5.10	0.96	0.62-1.36	5.54	4.89-6.08
	59	4.17	3.64-4.67	0.88	0.55-1.22	5.04	4.36-5.54
	60	3.77	3.27-4.25	0.80	0.47-1.15	4.57	3.94-5.10
	61	3.40	2.86-3.88	0.73	0.41-1.12	4.13	3.47-4.66
	62	3.05	2.56-3.54	0.65	0.35-0.99	3.70	3.08-4.20
	63	2.72	2.25-3.17	0.58	0.28-0.94	3.30	2.68-3.77
	64	2.40	1.97-2.79	0.51	0.24-0.83	2.91	2.38-3.31
	65	2.10	1.65-2.49	0.43	0.19-0.77	2.53	1.95-2.94
	66	1.80	1.38-2.15	0.36	0.13-0.63	2.15	1.63-2.48
	67	1.49	1.15-1.77	0.27	0.10-0.50	1.76	1.36-2.05
	68	1.15	0.90-1.34	0.17	0.06-0.35	1.32	1.05-1.50

Supplementary file B

Table 4. Tests for interaction between cohort and gender (N = 1074)

	No disability -> Disability		No disability -> Exit		Disability -> No disability		Disability -> Exit	
	HR	95% CI	HR	95% CI	HR	95% CI	HR	95% CI
Age in years	1.11	1.00-1.23	1.16*	1.10-1.22	1.11	0.97-1.27	1.11	0.99-1.22
Cohort (cohort 1 = ref)	1.03	0.34-3.15	0.51*	0.29-0.89	0.80	0.24-2.71	0.59	0.20-1.71
Gender (men = ref)	1.09	0.36-3.27	0.83	0.52-1.35	0.93	0.24-3.54	0.98	0.33-2.92
Cohort * Gender	0.86	0.42-1.78	1.27	0.88-1.82	0.90	0.37-2.19	1.19	0.59-2.43

Note: HR = Hazard Ratio; 95% CI = 95% Confidence Interval; * = $p < 0.05$; Cohort number treated as continuous variable

Table 5. WLEs at age 58 for all workers, independent of their health state, stratified by educational level (N = 1074)

		WLE without disability		WLE with disability		Total WLE	
		Years	95% CI	Years	95% CI	Years	95% CI
1992-1996	Men	2.95	2.47-3.45	0.81	0.56-1.13	3.76	3.25-4.30
	Women	2.76	2.26-3.21	0.74	0.47-1.10	3.50	2.97-4.03
2002-2006	Men	3.54	3.04-4.07	1.13	0.80-1.49	4.67	4.10-5.18
	Women	3.42	2.90-3.99	0.93	0.64-1.30	4.35	3.77-4.96
2012-2016	Men	4.05	3.43-4.58	1.62	1.19-2.07	5.66	4.91-6.23
	Women	3.82	3.26-4.38	1.48	1.03-1.93	5.30	4.57-5.86

Note: * = values differ from male workers, with $p < 0.05$

Supplementary file C

Table 6. Tests for interaction between cohort and education level (N = 1074)

	No disability -> Disability		No disability -> Exit		Disability -> No disability		Disability -> Exit	
	HR	95% CI	HR	95% CI	HR	95% CI	HR	95% CI
Age in years	1.11*	1.01-1.24	1.16*	1.11-1.23	1.10	0.97-1.25	1.10	1.00-1.22
Cohort (cohort 1 = ref)	0.95	0.50-1.78	0.77	0.57-1.05	0.72	0.38-1.36	0.84	0.47-1.50
Education level (low = ref)	0.96	0.43-2.14	0.90	0.64-1.24	1.46	0.67-3.18	1.10	0.49-2.44
Cohort * Education level	0.91	0.54-1.51	0.97	0.76-1.23	0.87	0.51-1.48	0.86	0.51-1.44

Note: HR = Hazard Ratio; 95% CI = 95% Confidence Interval; * = $p < 0.05$; Cohort number and education level is treated as continuous variable

Supplementary file D

Table 7. Working life expectancies for workers *in general* aged 58 for three disability measures

Cohort	Disability indicator	WLE without disability		WLE with disability		Total WLE	
		Years	(95% CI)	Years	(95% CI)	Years	(95% CI)
1992-1996	GALI	2.91	2.46-3.32	0.79	0.55-1.10	3.70	3.19-4.18
	1/6 limitations	2.79	2.40-3.22	0.84	0.53-1.21	3.63	3.18-4.12
	Chair Stand Test	2.80	2.38-3.23	0.73	0.51-0.99	3.53	3.06-3.96
2002-2006	GALI	3.50	3.00-4.00	1.06	0.77-1.34	4.55	4.00-5.08
	1/6 limitations	3.43	2.99-3.90	1.18	0.86-1.56	4.61	4.11-5.15
	Chair Stand Test	3.43	2.92-3.94	1.12	0.84-1.38	4.55	3.98-5.06
2012-2016	GALI	3.97	3.42-4.45	1.54	1.16-1.96	5.50	4.86-6.03
	1/6 limitations	3.78	3.35-4.23	1.76	1.31-2.19	5.54	4.95-6.09
	Chair Stand Test	3.94	3.36-4.40	1.66	1.28-1.99	5.59	4.89-6.14

Note: 95% CI = 95% Confidence Interval; *=WLE differs from GALI estimate with $p < 0.05$; GALI: N = 1074, 1/6 limitations: N = 1068, Chair Stand Test: N = 1049.

Table 8. Working life expectancies for workers *with a disability* at 58 for three disability measures

Cohort	Disability indicator	WLE without disability		WLE with disability		Total WLE	
		Years	(95% CI)	Years	(95% CI)	Years	(95% CI)
1992-1996	GALI	1.48	0.82-2.17	2.17	1.49-3.05	3.65	2.62-4.54
	1/6 limitations	0.66*	0.22-1.45	3.31	1.97-4.58	3.97	2.64-5.24
	Chair Stand Test	1.58	0.87-2.28	1.89	1.26-2.65	3.47	2.37-4.36
2002-2006	GALI	1.09	0.58-1.84	2.59	1.97-3.27	3.68	2.85-4.52
	1/6 limitations	0.64	0.30-1.24	2.94	2.22-3.83	3.58	2.77-4.59
	Chair Stand Test	1.81	1.16-2.49	2.07	1.62-2.56	3.89	3.12-4.46
2012-2016	GALI	1.98	1.25-2.78	3.41	2.68-4.14	5.39	4.25-6.21
	1/6 limitations	1.45	0.90-2.18	3.81	2.94-4.64	5.26	4.24-6.19
	Chair Stand Test	2.28	1.49-2.96	3.38	2.71-3.92	5.66	4.56-6.28

Note: 95% CI = 95% Confidence Interval; *=WLE differs from GALI estimate with $p < 0.05$; GALI: N = 1074, 1/6 limitations: N = 1068, Chair Stand Test: N = 1049.

Table 9. Working life expectancies for workers *without a disability* at 58 for three disability measures

Cohort	Disability indicator	WLE without disability		WLE with disability		Total WLE	
		Years	(95% CI)	Years	(95% CI)	Years	(95% CI)
1992-1996	GALI	3.19	2.74-3.64	0.51	0.31-0.81	3.70	3.20-4.19
	1/6 limitations	3.09	2.69-3.52	0.49	0.27-0.83	3.58	3.12-4.06
	Chair Stand Test	3.07	2.60-3.49	0.47	0.28-0.73	3.54	3.04-3.98
2002-2006	GALI	4.09	3.55-4.62	0.68	0.43-0.98	4.77	4.17-5.31

	1/6 limitations	4.04	3.54-4.54	0.79	0.51-1.18	4.84	4.29-5.41
	Chair Stand Test	3.94	3.39-4.51	0.82	0.55-1.10	4.76	4.13-5.30
2012-2016	GALI	4.58	4.03-5.19	0.96	0.62-1.36	5.54	4.89-6.08
	1/6 limitations	4.41	3.92-4.92	1.20	0.81-1.62	5.61	4.96-6.19
	Chair Stand Test	4.65	3.97-5.23	0.91	0.59-1.26	5.56	4.77-6.22

Note: 95% CI = 95% Confidence Interval; *=WLE differs from GALI estimate with $p < 0.05$; GALI: N = 1074, 1/6 limitations: N = 1068, Chair Stand Test: N = 1049.