

Appendix chapter 3 - Contribution of amenable mortality to life expectancy differences between the constituent countries of the Kingdom of the Netherlands.

Figure A1 Life expectancy at birth, Kingdom of the Netherlands, 1985-2015

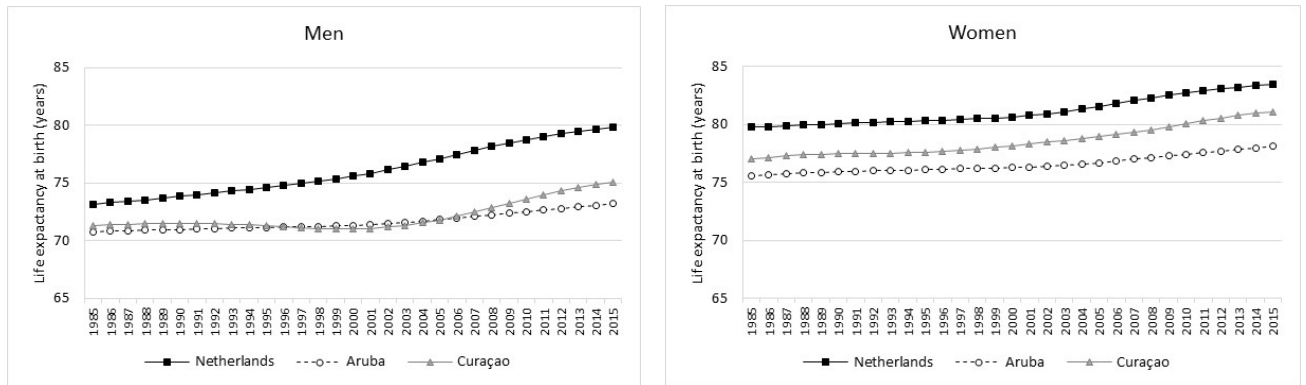


Table A1 List of amenable causes with corresponding ICD-codes

Amenable causes of death	Age	ICD-10 code
Infectious diseases		
Intestinal infections	0-14	A00-09
Tuberculosis	0-74	A15-19, B90
Other infections (tetanus, diphtheria septicaemia, poliomyelitis)	0-74	A36, A35, A80
Whooping cough	0-14	A37
Measles	1-14	B05
Treatable cancers		
Colon and rectum	0-74	C18-21
Skin	0-74	C44
Breast	0-74	C50
Cervical and uterus	0-44	C53-55
Testis	0-74	C62
Hodgkin's disease	0-74	C81
Leukemia	0-44	C91-95
Diabetes	0-49	E10-14
Ischemic heart disease (50% of deaths)	0-74	I20-25
Cerebrovascular disease	0-74	I60-69
Respiratory diseases		
Influenza	0-74	J10-11
Pneumonia	0-74	J12-18
Other respiratory conditions	1-14	J00-09, J20-99
Digestive diseases		
Peptic ulcer	0-74	K25-27
Appendicitis	0-74	K35-38
Abdominal hernia	0-74	K40-46
Cholelithiasis and cholecystitis	0-74	K80-81
Perinatal deaths	0-74	P00-96, A33
Other amenable conditions		
Diseases of thyroid	0-74	E00-07
Epilepsy	0-74	G40-41
Chronic rheumatic heart disease	0-74	I05-09
Hypertensive disease	0-74	I10-13, I15
Nephritis and nephrosis	0-74	N00-07, N17-19, N25- 27
Benign prostatic hyperplasia	0-74	N40
Misadventures to patients	0-74	Y60-69, Y83-84
Maternal deaths	0-74	O00-99
Congenital cardiovascular anomalies	0-74	Q20-28

Table A2 Results joinpoint analysis

	Amenable mortality		Non-amenable mortality	
	Trend APC	Test for parallelism	Trend APC	Test for parallelism
Men				
The Netherlands	-4.72*	0.422	-2.88*	0.007
Aruba	-3.99*		-1.40*	
The Netherlands	-3.57*	0.000	-2.20*	0.000
NA/Curaçao	-0.05		0.68*	
Women				
The Netherlands	-3.64*	0.449	-1.49*	0.129
Aruba	-2.79*		-2.50*	
The Netherlands	-2.37*	0.002	-0.52*	0.415
NA/Curaçao	-0.18		-0.74*	

Notes:

APC: Annual Percentage Change, *: Significant trend change, APC is significantly different from zero (two-side $p < 0.05$)
 Comparison of the Netherlands with Aruba is based on data from period 1999-2014, comparison of the Netherlands with NA/Curaçao is based on data from period 1988-2007.

Table A3 Overview results death registration data assessment, 0-74 year olds, Kingdom of the Netherlands, 1988-2014

Data years available	Netherlands			Aruba			Netherlands Antilles			Curaçao		
	Number of deaths	Ill-defined conditions (%)	Completeness (%)	Number of deaths	Ill-defined conditions (%)	Completeness (%)	Number of deaths	Ill-defined conditions (%)	Completeness (%)	Number of deaths	Ill-defined conditions (%)	Completeness (%)
1988	54692	4.2	100				559	4.8	85.8			
1989	55467	4.8	100				531	8.3	84.1			
1990	55130	4.9	100				508	7.3	79.8			
1991	55333	4.4	100				492	4.7	75.2			
1992	55146	4.4	100				558	5.7	84.5			
1993	57135	4.3	100				592	3.0	85.5			
1994	55947	4.1	100				575	4.0	81.1			
1995	55999	4.5	100				631	7.3	86.1			
1996	56354	4.5	100				588	3.2	83.0			
1997	54832	4.5	100				510	1.6	70.7			
1998	54881	4.9	100				585	3.9	82.6			
1999	55261	5.2	100	336	6.5	81.1	596	4.0	83.0			
2000	54725	5.3	100	299	3.7	74.6	545	3.1	72.0			
2001	54324	5.8	100	276	5.4	67.2				446	6.7	77.1
2002	54419	5.5	100	295	4.1	73.2				582	2.6	100
2003	53649	5.0	100	296	3.4	71.4				605	3.1	99.9
2004	51933	4.6	100	301	2.0	70.8				656	3.8	100
2005	50478	4.2	100	283	6.4	67.3				487	2.9	83.2
2006	49262	4.3	100	305	6.2	71.2				598	3.0	98.7
2007	48228	4.1	100	321	5.9	70.4				607	3.1	99.9
2008	48321	4.1	100	337	8.6	72.7						
2009	48168	4.1	100	342	4.4	77.0						
2010	48347	4.0	100	346	2.9	77.0						
2011	47944	3.8	100	330	3.0	75.7						
2012	48934	3.9	100	329	5.8	71.9						
2013	48851	4.4	100	303	1.7	65.6						
2014	48079	4.3	100	316	1.9	71.7						

Table A4 Comparison of health indicators, Kingdom of the Netherlands, 2001-2018

	Year	The Netherlands	Aruba	NA/Curaçao
Population characteristics				
Population ¹	2015	16,938,499	104,341	158,010
Population 65 and older (%) ¹	2015	17.9	12.1	15.5
Total fertility (live births per women) ¹	2015	1.74	1.80	2.05
Economic characteristics				
GDP per capita (current prices, in US\$) ²	2013	50,930	25,156	19,830
GINI coefficient ³	Ca. 2001	0.29	0.40	0.42
Healthcare organization				
Health expenditure (% GDP) ⁴	2013 (Aruba 2010)	11.1	11.3	12.7
Inhabitants per general practitioner ⁶	Ca. 2014	1220	2427	1975
Inhabitants per medical specialist ⁶	Ca. 2014	527	1338	1328
Last national health survey	2018	2017	2006	2017
Last available mortality data	2018	2016	2016	2007
Healthcare consumption				
Had a consultation with a GP during the past year ⁷	2017	68.8	-	78.0
Had a consultation with a medical specialist during the past year ⁷	2017	39.4	-	34.7
Hospitalization during past year ⁷	2017	6.8	-	7.6
Prescription medication use during past 14 days ⁷	2017	40.6	-	50.0
Average number of drug prescriptions per person per year ⁸	2009	10.8	-	20.2
Cancer care				
Participated in screening of: ⁹	Ca. 2017			
- Cervix cancer		56.9	-	48.9
- Breast cancer		77.3	-	43.3
- Colon cancer		72.7	-	25.4
Mortality-to-incidence ratio ¹⁰	2005-2010 (latest available)			
- Cervix		0.28	0.32	0.33
- Breast		0.21	0.29	0.28
- Colon and rectum		0.40	0.39	0.47
Mother and childcare				
Adolescent fertility rate (per 1,000 women aged 15-19) ¹¹	2015	3.2	26.5	29.7
Maternal mortality (per 100,000 births) ¹²	2003-2007	6.0	16.4	47.2
Infant mortality (per 1,000 births) ¹	2015	3.0	14.2	9.5
Immunization coverage <1 year (%) ¹³	2016			
- DTP3 and polio 3		93.5	(97.0)	85.0
- PCV3		93.6	(93.0)	74.0
- MMR 1		90.9	(97.0)	78.0
Non-communicable diseases				
Self-reported hypertension (%) ⁵	Ca. 2013	18.3	-	19.9
Self-reported diabetes mellitus (%) ⁵	Ca. 2013	6.1	-	9.3
Kidney dialysis patients, per 100,000 population ¹⁴	2014	38.3		163.9
Health behaviors				
Obesity (BMI \geq 30 kg/m ²) ⁵	Ca. 2013	12.7	-	28.3
Sports at least a day in the week (%) ⁵	Ca. 2013	53.2	-	30.7
Smoker (%) ⁵	Ca. 2013	22.8	-	15.5
Alcohol drinker (%) ⁵	Ca. 2013	82.2	-	61.8
Daily alcohol use (%) ⁵	Ca. 2013	11.7	-	4.7
Sources:				

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