

Kraamzorg bij huisbevallingen

MATERNITY HOME HELP
AND HOME DELIVERIES

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HOSPITALISATIE, PERINATALE EN
ZUIGELINGENSTERFTE

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Hospitalization at birth, perinatal and infant mortality

Specified countries, 1965

countries	hospital- ization %	per 1000 births	
		perinatal mortality	infant mortality
Sweden	99.9	19.7	13.3
Czechoslovakia	98.2	22.9	25.3
Norway	98.0	21.5	16.8
U.S.A.	97.4	28.1	24.7
Belgium	92.6	27.5	24.1
France	92.0	27.8	22.0
West-Germany	82.8	28.6	23.8
England & Wales	72.5	26.9	19.0
Denmark	65.2	23.9	18.7
Netherlands	31.4	23.1	14.4

GEBORENEN NAAR PLAATS VAN BEVALLING

Births by place of confinement

NETHERLANDS, 1952-1967

year	numbers			percentages		
	total	hospital	home	total	hospital	home
1952	237,266	52,541	184,725	100	22	78
1953	233,002	52,455	180,547	100	23	77
1954	233,256	53,997	179,259	100	23	77
1955	234,221	56,017	178,204	100	24	76
1956	235,472	59,540	175,932	100	25	75
1957	237,907	62,324	175,583	100	26	74
1958	240,878	63,596	177,282	100	26	74
1959	246,396	66,882	179,514	100	27	73
1960	242,746	66,716	176,030	100	27	73
1961	251,130	72,449	178,681	100	29	71
1962	249,801	73,934	175,867	100	30	70
1963	253,506	76,971	176,535	100	30	70
1964	254,319	77,294	177,025	100	30	70
1965	248,478	77,973	170,505	100	31.4	69
1966	242,746	81,901	160,845	100	33.7	66
1967	241,594	87,571	154,023	100	36.2	64

Hospitalization and maternity home help by province

Percentages

NETHERLANDS, 1952-1967

province	1952	1955	1960	1964	1965	1966	1967
hospitalization							
Groningen	31	34	33	36	36	39	41
Friesland	20	23	30	29	30	30	30
Drenthe	14	14	14	16	17	18	21
Overijssel	14	14	17	20	20	20	23
Gelderland	15	15	18	25	26	28	29
Utrecht	17	18	24	27	28	30	37
Noord-Holland	33	36	41	41	43	47	49
Zuid-Holland	28	31	34	36	37	41	43
Zeeland	19	24	26	30	28	32	34
Noord-Brabant	17	17	20	23	23	25	26
Limburg	17	18	24	33	36	38	41
Netherlands	22	24	27	30	31	34	36
maternity home help							
Groningen	21	19	22	20	22	22	25
Friesland	26	25	29	33	35	38	42
Drenthe	13	17	28	33	37	41	47
Overijssel	20	29	39	46	54	57	58
Gelderland	28	32	40	42	44	46	49
Utrecht	41	42	38	39	42	43	42
Noord-Holland	28	30	30	33	34	34	34
Zuid-Holland	29	33	35	35	36	38	35
Zeeland	45	46	49	54	57	55	53
Noord-Brabant	29	35	40	42	44	45	37
Limburg	9	16	26	30	37	39	41
Netherlands	24	30	35	38	39	40	40
total*							
Groningen	52	53	55	56	57	60	66
Friesland	46	48	59	62	65	68	71
Drenthe	27	31	42	48	54	59	68
Overijssel	34	43	56	66	74	77	81
Gelderland	43	47	58	67	69	74	78
Utrecht	58	60	62	66	69	73	79
Noord-Holland	62	66	71	74	76	81	83
Zuid-Holland	57	64	69	71	73	78	78
Zeeland	64	70	75	84	84	87	86
Noord-Brabant	46	52	60	65	67	69	63
Limburg	26	34	50	63	72	77	82
Netherlands	46	54	62	68	70	74	76

* hospitalization + maternity home help
(part time care (= wijkkraamzorg) excluded)

Hospitalization by type of hospital

Percentage distribution

NETHERLANDS, 1966

place of delivery	live births	still-births	total births
general hospital	24.6	61.0	25.1
university hospital	3.1	3.1	3.1
midwifery school	1.7	2.8	1.7
cert. maternities	1.3	1.2	1.3
non-cert. maternities	2.5	1.2	2.5
hospitalization	33.2	69.3	33.7
home deliveries	66.7	30.7	66.2
total	100	100	100

Hospitalization by size of municipality

In % of total births in each group

NETHERLANDS, 1952-1966

size of municipality	1952	1955	1958	1961	1965	1966
<5 000 (inhab.)	13	14	16	18	21	23
5 000 - < 20 000	15	16	19	21	24	25
20 000 - < 50 000	20	22	26	29	30	33
50 000 - <100 000	28	29	32	30	33	37
100 000 - <500 000	27	27	31	36	39	42
>500 000	41	45	46	49	53	58
Netherlands	22	24	26	29	31	34
Amsterdam	47	50	51	53	58	62
Rotterdam	28	34	35	38	42	50
The Hague	47	50	52	55	60	64

GEBORENEN NAAR GEMEENTEGROOTTE EN AARD VAN VERLOSKUNDIGE HULP

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Births by size of municipality and type of obstetrical care

Percentage distribution

NETHERLANDS, 1952-1966

size of municipality	all births*						hospitalization**																																	
	1952		1955		1960		1965		1966		1966		1965		1960		1965																							
	MD	MW	MD	MW	MD	MW	MD	MW	MD	MW	MD	MW	MD	MW	MD	MW	MD	MW																						
< 5 000 (inhab.)	76	23	76	23	81	18	83	17	83	17	83	17	83	17	83	17	83	17	83	17	83	17	83	17	83	17	83	17	83	17	83	17	83	17	83	17	83	17		
5 000 - < 20 000	64	35	65	35	68	31	71	29	70	29	70	29	70	29	70	29	70	29	70	29	70	29	70	29	70	29	70	29	70	29	70	29	70	29	70	29	70	29		
20 000 - < 50 000	49	51	50	50	61	39	63	37	64	36	64	36	64	36	64	36	64	36	64	36	64	36	64	36	64	36	64	36	64	36	64	36	64	36	64	36	64	36		
50 000 - < 100 000	44	55	45	54	50	49	53	47	54	46	54	46	54	46	54	46	54	46	54	46	54	46	54	46	54	46	54	46	54	46	54	46	54	46	54	46	54	46		
100 000 - < 500 000	55	45	56	44	59	40	60	40	60	40	60	40	60	40	60	40	60	40	60	40	60	40	60	40	60	40	60	40	60	40	60	40	60	40	60	40	60	40		
> 500 000	45	54	47	53	52	48	46	53	46	53	46	53	46	53	46	53	46	53	46	53	46	53	46	53	46	53	46	53	46	53	46	53	46	53	46	53	46	53	46	
total	58	42	59	41	63	37	64	35	64	35	64	35	64	35	64	35	64	35	64	35	64	35	64	35	64	35	64	35	64	35	64	35	64	35	64	35	64	35	64	35

MD = general practitioner/physician/obstetrician MW = midwife

* small rest group: both (MD + MW), no help and unknown are not mentioned
 ** hospitalization in % of each group

GEBORENEN NAAR GEMEENTEGROOTTE EN
AARD VAN KRAAMZORG

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Births by size of municipality and type of maternity care

Percentage distribution

NETHERLANDS, 1962 and 1965

size of municipality	hospital		home			
			maternity home help			rest group*
			full time		part time*	
	1962	1965	1962	1965	1965	1965
<5 000 (inhab.)	19	21	42	46	3	30
5 000 - < 20 000	21	24	40	44	5	27
20 000 - < 50 000	30	30	34	41	6	23
50 000 - <100 000	31	33	36	38	9	20
100 000 - <500 000	37	39	31	25	11	18
>500 000	49	53	18			
total	30	31	34	39	7	23

* only known for 1965

Maternity home help centres by cross society

period	cross societies				total
	Groen	Wit Geel	Oranje Groen	others	
1943/1946	31	34	–	8	73
1947/1950	50	52	–	9	111
1951/1954	67	67	3	6	143
1955/1958	76	71	6	5	158
1959/1962	83	75	9	3	170
1963	86	77	12	2	177
1964	87	79	14	1	181
1965	89	80	14	–	183
1966	89	82	14	–	185
1967	89	82	14	–	185

Staff of maternity home help centres

period	LD		LD + 1 adj		LD + 2 adj		LD + 3 adj		BB	total centres
	n	%	n	%	n	%	n	%		
1949/1950	80	68	34	29	-	-	-	-	5	119
1951/1954	73	51	64	45	-	-	-	-	6	143
1955/1958	51	32	91	58	13	8	-	-	3	158
1959/1962	30	18	111	65	28	16	-	-	1	170
1963/1964	20	11	110	62	45	25	3	2	1	179
1966	9	5	88	48	75	40	13*	7	-	185

LD = leidster-docente/matron teacher

adj = adjunct leidster-docente/assistant matron teacher

BB = bemiddelingsbureau/registration office

* waarvan één centrum met vier adjunct leidsters-docenten
incl. one centre with four assistant matron teachers

Qualified maternity home helps and pupils

period	numbers		indices	
	qualified	pupils*	qualified	pupils*
1950/1951	2570	630	100	100
1955/1956	3340	700	130	110
1960/1961	3400	760	132	120
1962	3380	950	132	150
1963	3440	1090	134	170
1964	3690	1140	144	180
1965	3760	1240	146	200
1966	3970	1260	154	200
1967	3990	1210	155	190

*new pupils per year

Staff, maternity home helps, attendances

maternity home help	1950	1960	1966
staf/staff			
– leidster-docente matron-teacher	117	170	185
– adjunct leidster-docente assistant matron-teacher	37	162	275
totaal/total	154	332	460
kraamverzorgsters/maternity home helps			
– leerlingen pupils	610	710	1260
– gediplomeerden qualified	2500	3370	3970
totaal/total	3110	4080	5230
verzorgingen/attendances	45000	82000	119000*

* inclusief wijkkraamzorg/part time care included

Births by type of maternity care

NETHERLANDS, 1953-1967

year	hosp. %	home					
		met kraamzorg with MHH				zonder kraamzorg without MHH	
		intern full time		wijk part time			
		n	%	n	%	n	%
1953	23	62,554	27			117,993	50
1955	24	70,920	30			106,707	46
1957	26	73,389	31			101,864	43
1959	27	81,838	33			97,391	40
1961	29	86,354	34			92,076	37
1963	30	88,940	35			87,473	35
1964	30	94,963	38			81,804	32
1965	31	96,643	39	16,519	7	57,343	23
1966	34	97,918	40	21,184	9	41,743	17
1967	36	103,011*	43*	20,253	8	30,467	13

* incl. 2½% gecombineerde verzorgingen (interne + wijkrz.)

— 2½% combined attendances (all day + part time) included

Types of maternity home help by province*

MATERNITY HOME HELP, 1967

provincie province	interne full time	wijkkrz. part time	gecomb. comb.
Groningen	25	17	0.1
Friesland	42	3	0.4
Drenthe	47	16	0.1
Overijssel	58	8	0.9
Gelderland	49	3	0.2
Utrecht	42	3	0.1
Noord-Holland	34	5	1.0
Zuid-Holland	35	6	2.8
Zeeland	53	2	0.2
Noord-Brabant	37	18	10.6
Limburg	41	12	1.0
total	40	8	2.5

*in % van totaal geboren en per provincie/
in % of total births by province

Place of delivery and obstetrical aid

Percentage distribution

NETHERLANDS, 1954-1965

period	hospital + home		hospital		home			
	phys	midw	phys	midw	with MHH		without MHH	
					GP	midw	GP	midw
1954/1955	59	41	78	22	63	37	47	53
1956/1957	61	39	79	21	64	36	48	52
1958/1959	62	38	80	20	65	35	48	52
1960/1961	64	36	81	19	66	34	48	52
1962/1963	64	36	81	19	67	33	48	52
1964/1965	64	36	80	20	66	34	47	53

phys = physician = general practitioner (GP) or obstetrician

midw = midwife

MHH = maternity home help

LASTEN EN BATEN VAN DE KRAAMZORG
PER VERZORGINGS DAG*

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Liabilities and profits of maternity home help per day*

In guildens / in guilders

year	total costs	average tariffs	health insurance	govern. subs.
1951/1952	8,-	5,-	-	2,-
1956/1957	14,-	7,-	-	6,-
1961/1962	22,-	11,-	-	8,-
1963/1964	32,-	14,-	-	13,-
1965	40,-	18,-	-	18,-
1966	51,-**	0-40,-	27,-	12,-**
1967	57,-**	0-45,-	30,-	12,-**
1968	60,-**	0-50,-	32,-	11,-**

* theoretische opleiding inbegrepen / theoretical training included

** voorlopige cijfers / preliminary data

COMPONENTEN VAN PERINATALE STERFTE
 NAAR PLAATS VAN BEVALLING

Components of perinatal mortality by place of confinement

Per 1000 (live) births

year	total Nether- lands	hospital	home		
			total	with MHH	without MHH
stillbirth					
1920	26.1				
1939	24.8				
1947	20.1				
1953	17.4	35.4	12.1	11.8	12.3
1958	16.7	34.0	10.5	9.8	11.1
1963	14.3	30.4	7.3	6.9	7.7
1964	13.4	29.0	6.6	6.0	7.2
1965	13.1	28.2	6.3	5.7	6.7
first week mortality					
1920	19.0				
1939	15.5				
1947	14.4				
1953	14.3	30.7	9.6	7.0	11.1
1958	11.4	25.4	6.5	4.9	7.6
1963	10.4	23.5	4.8	4.1	5.5
1964	10.1	23.3	4.6	3.9	5.3
1965	10.1	23.0	4.3	4.0	4.6
perinatal mortality					
1920	44.6				
1939	39.9				
1947	34.2				
1953	31.4	65.0	21.6	18.5	23
1958	27.9	58.6	16.9	14.5	18.5
1963	24.6	53.2	12.1	11	13
1964	23.4	51.7	11.1	10	12.5
1965	23.1	50.5	10.5	9.5	11.5

Stillbirth by place of confinement

Per 1000 births

year	total Nether- lands	hospital	home		
			total	with MHH	without MHH
1950	19.3				
1951	18.3			10.1*	15*
1952	18.2	34.9	13.4	12.2*	
1953	17.4	35.4	12.1	11.8	12.3
1954	17.3	35.8	11.7	10.2	12.7
1955	16.9	35.3	11.2	10.2	11.8
1956	16.9	34.3	11.0	9.8	11.8
1957	16.9	33.4	11.0	8.8	12.6
1958	16.7	34.0	10.5	9.8	11.1
1959	15.7	33.4	9.1	8.0	10.1
1960	14.9	30.9	8.9	8.0	9.7
1961	14.8	31.4	8.1	7.1	9.1
1962	14.6	31.1	7.7	7.0	8.3
1963	14.3	30.4	7.3	6.9	7.7
1964	13.4	29.0	6.6	6.0	7.2
1965	13.1	28.2	6.3	5.7	6.7

* De Haas (1954)

First week mortality by place of confinement

Per 1000 live births

year	total Nether- lands	hospital	home		
			total	with MHH	without MHH
1950	15.2				
1951	15.4			9.3*	15-17*
1952	14.4			8.7*	
1953	14.3	30.7	9.6	7.0	11.1
1954	14.0	31.4	8.9	4.8	11.5
1955	13.4	30.2	8.2	5.1	10.3
1956	12.3	26.9	7.5	5.3	9.0
1957	11.4	24.7	6.8	5.0	8.0
1958	11.4	25.4	6.5	4.9	7.6
1959	11.6	26.2	6.3	4.8	7.5
1960	11.9	27.5	6.1	5.4	6.7
1961	11.3	25.6	5.6	4.5	6.7
1962	11.3	25.3	5.5	4.5	6.5
1963	10.4	23.5	4.8	4.1	5.5
1964	10.1	23.3	4.6	3.9	5.3
1965	10.1	23.0	4.3	4.0	4.6

* De Haas (1954)

Perinatal mortality by place of confinement

Per 1000 births

year	total Nether- lands	hospital	home		
			total	with MHH	without MHH
1950	34.2				
1951	33.4				
1952	32.4			20*	30*
1953	31.4	65.0	21.6	18.5	23
1954	31.1	66.1	20.5	15	24
1955	30.1	64.4	19.3	15.5	22
1956	29.0	60.3	18.4	15	20.5
1957	28.1	57.3	17.7	13.5	20.5
1958	27.9	58.6	16.9	14.5	18.5
1959	27.1	58.7	15.3	13	17.5
1960	26.6	57.5	14.9	13.5	16.5
1961	25.9	56.2	13.7	11.5	15.5
1962	25.7	55.6	13.1	11.5	15
1963	24.6	53.2	12.1	11	13
1964	23.4	51.7	11.1	10	12.5
1965	23.1	50.5	10.5	9.5	11.5

* De Haas (1954)

COMPONENTEN VAN PERINATALE STERFTE BIJ
ZIEKENHUIS- EN HUISBEVALLINGEN

Components of perinatal mortality in hospital and home deliveries

Rates and ratio's

NETHERLANDS, 1953-1965

year	rates			ratio's		
	total	hospital	home	hospital / home	hospital / total	total / home
stillbirth						
1953	17	35	12	2.9	2.1	1.4
1959	16	33	9	3.7	2.1	1.8
1965	13	28	6	4.7	2.2	2.2
first week mortality						
1953	14	31	10	3.1	2.2	1.4
1959	12	26	6	4.3	2.2	2.0
1965	10	23	4	5.8	2.3	2.5
perinatal mortality						
1953	31	65	22	3.0	2.1	1.4
1959	27	59	15	3.9	2.2	1.8
1965	23	51	10	5.1	2.2	2.3

COMPONENTEN VAN PERINATALE STERFTE
 NAAR PLAATS VAN BEVALLING

Components of perinatal mortality by place of confinement

Indices: 1953 = 100

year	total Nether- lands	hospital	home		
			total	with MHH	without MHH
stillbirth					
1950	111				
1953	100	100	100	100	100
1956	97	97	91	83	96
1959	90	94	75	68	82
1962	84	88	64	59	67
1963	82	86	60	58	63
1964	77	82	55	56	59
1965	75	80	52	48	54
first week mortality					
1950	106				
1953	100	100	100	100	100
1956	86	88	78	76	81
1959	81	85	66	69	68
1962	79	82	57	64	59
1963	73	77	50	59	50
1964	71	76	48	56	48
1965	71	75	45	57	41
perinatal mortality					
1950	109				
1953	100	100	100	100	100
1956	93	93	85	81	89
1959	86	90	71	70	76
1962	82	86	61	62	65
1963	78	82	56	59	57
1964	75	80	51	54	54
1965	74	78	49	51	50

Survey on perinatal mortality among insufficiently-registered newborns

MATERNITY HOME HELP, 1964

province	sent out	received	unknown	known	alive after 1 week	still-births	1st week mortality	perinatal mortality
Groningen	18	18	1	17	17	-	-	-
Friesland	28	28	-	28	28	-	-	-
Drenthe	7	7	-	7	7	-	-	-
Overijssel	36	35	1	34	33	-	1	1
Gelderland	67	67	12	55	54	-	1	1
Utrecht	16	16	-	16	16	-	-	-
Noord-Holland	40	32	1	31	29	-	2	2
Zuid-Holland	118	118	5	113	108	3	2	5
Zeeland	34	34	-	34	30	3	1	4
Noord-Brabant	67	67	14	53	53	-	-	-
Limburg	2	2	-	2	2	-	-	-
total	433	424	34	390	377	6	7	13

GEBORENEN NAAR LEEFTIJD VAN MOEDER

23a

Births by age of mother

NETHERLANDS / MATERNITY HOME HELP, 1956-1965

age of mother	1956/1957		1962/1963		1964/1965	
	Neth.	MHH	Neth.	MHH	Neth.	MHH
< 20	2.5	0.3	3.9	0.5	4.6	0.8
20-24	17.9	8.6	22.3	12.8	24.6	15.5
25-29	32.6	32.6	32.4	35.0	32.8	36.2
30-34	25.9	32.2	23.6	30.0	22.0	27.8
35-39	15.0	19.1	12.9	16.3	11.7	14.5
≥ 40	6.1	7.2	4.9	5.3	4.3	5.0
total	100	100	100	100	100	100

GEBORENEN NAAR PARITEIT

23b

Births by parity

NETHERLANDS / MATERNITY HOME HELP, 1956-1965

parity	1956/1957		1962/1963		1964/1965	
	Neth.	MHH	Neth.	MHH	Neth.	MHH
1	30.7	22.0	32.3	23.5	34.3	25.2
2	25.1	26.1	27.3	29.1	28.1	30.4
3	16.1	19.3	16.9	20.5	16.8	20.5
4	10.2	12.6	9.5	11.8	9.0	11.2
5	6.5	7.8	5.4	6.3	4.8	5.6
≥ 6	11.4	12.3	8.6	8.8	7.0	7.0
total	100	100	100	100	100	100

Births by age of mother and parity

Percentage distribution

age \ par.	1	2	3	4	5	≥ 6	total
Netherlands 1962/1963							
<20	3.3	0.5	0.0	0.0	0.0	-	3.9
20-24	14.0	6.2	1.6	0.4	0.1	0.0	22.3
<25	17.3	6.7	1.7	0.4	0.1	0.0	26.2
25-29	10.8	12.2	5.9	2.2	0.8	0.5	32.4
30-34	3.0	6.4	6.2	3.8	2.0	2.2	23.6
35-39	0.9	1.7	2.6	2.4	1.8	3.5	12.9
≥40	0.2	0.3	0.6	0.7	0.7	2.4	4.9
total	32.3	27.3	16.9	9.5	5.4	8.6	100
Netherlands 1964/1965							
<20	4.0	0.6	0.1	0.0	0.0	0.0	4.6
20-24	15.3	7.0	1.8	0.4	0.1	0.0	24.6
<25	19.3	7.6	1.8	0.4	0.1	0.0	29.2
25-29	11.1	12.6	5.9	2.1	0.7	0.4	32.8
30-34	2.8	6.0	6.1	3.6	1.8	1.7	22.0
35-39	0.8	1.7	2.5	2.3	1.6	2.8	11.7
≥40	0.2	0.3	0.5	0.7	0.6	2.0	4.3
total	34.3	28.1	16.8	9.0	4.8	7.0	100
maternity home help 1962/1963							
<20	0.4	0.1	0.0	0.0	-	0.0	0.5
20-24	8.1	3.6	0.8	0.2	0.0	0.0	12.8
<25	8.4	3.7	0.9	0.2	0.0	0.0	13.3
25-29	11.2	14.2	6.6	2.1	0.6	0.3	35.0
30-34	3.1	8.7	8.8	5.2	2.4	1.9	30.0
35-39	0.7	2.2	3.6	3.4	2.5	3.9	16.3
≥40	0.1	0.3	0.7	0.9	0.8	2.5	5.3
total	23.5	29.1	20.5	11.8	6.3	8.8	100
maternity home help 1964/1965							
<20	0.6	0.2	0.0	0.0	-	0.0	0.8
20-24	9.5	4.7	1.1	0.2	0.0	0.0	15.5
<25	10.1	4.9	1.1	0.2	0.0	0.0	16.3
25-29	11.6	15.0	6.7	2.0	0.5	0.3	36.2
30-34	2.7	8.0	8.6	4.8	2.1	1.5	27.8
35-39	0.6	2.1	3.5	3.2	2.2	3.0	14.5
≥40	0.1	0.3	0.7	0.9	0.8	2.2	5.0
total	25.2	30.4	20.5	11.2	5.6	7.0	100

PERINATALE STERFTE NAAR LEEFTIJD VAN MOEDER

25a

Perinatal mortality by age of mother

Per 1000 births

age	1962/1963			1964/1965		
	M.H.H.		Neth.	M.H.H.		Neth.
	crude	adj.		crude	adj.	
< 20	(8.3)	(8.2)	24.4	(7.8)	(8.0)	24.6
20-24	9.9	10.0	21.3	8.2	8.2	19.1
25-29	9.7	9.9	20.9	9.3	9.4	20.4
30-34	11.1	11.4	24.5	9.9	10.2	23.4
35-39	14.9	15.3	34.3	12.7	13.2	30.6
≥ 40	23.0	22.8	50.1	23.4	24.4	46.9
total	11.7	11.9	25.1	10.5	10.6	23.3

adj. = adjusted to the parity distribution in the Netherlands

PERINATALE STERFTE NAAR PARITEIT

25b

Perinatal mortality by parity

Per 1000 births

parity	1962/1963			1964/1965		
	M.H.H.		Neth.	M.H.H.		Neth.
	crude	adj.		crude	adj.	
1	13.4	12.6	27.2	10.8	10.4	24.8
2	8.8	8.6	18.7	8.7	8.7	18.4
3	10.6	10.3	22.0	10.3	10.1	20.5
4	12.5	12.5	26.2	9.3	9.2	24.0
5	13.5	13.5	30.6	13.6	12.7	29.3
≥ 6	17.3	16.9	39.3	17.3	17.1	36.3
total	11.7	11.3	25.1	10.5	10.1	23.3

adj. = adjusted to the distribution of maternal age in the Netherlands

PERINATALE STERFTE NAAR LEEFTIJD VAN MOEDER EN
PARITEIT

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Perinatal mortality by age of mother and parity

Per 1000 births

MATERNITY HOME HELP, 1962/1963 & 1964/1965

parity \ age	1	2	3	4	5	≥ 6	total	adjusted to Netherlands
1962/1963								
<20	(7.6)	(12.9)	-	-	-	-	(8.3)	(8.2)
20-24	11.6	6.4	7.4	(21.3)	-	-	9.9	10.0
25-29	12.6	7.8	8.6	9.2	15.9	(10.8)	9.7	9.9
30-34	18.6	9.6	9.8	10.9	9.9	13.3	11.1	11.4
35-39	27.7	13.8	14.4	14.5	13.0	15.4	14.9	15.3
≥ 40	(12.0)	22.9	23.8	19.8	24.1	23.9	23.0	22.8
total	13.4	8.8	10.6	12.5	13.5	17.3	11.7	11.9
adjusted to Netherlands	12.6	8.6	10.3	12.5	13.5	16.9	11.3	11.5
1964/1965								
<20	(8.4)	(6.5)	-	-	-	-	(7.8)	(8.0)
20-24	8.3	8.5	6.9	8.2	-	-	8.2	8.2
25-29	10.8	8.6	8.7	8.0	6.6	18.7	9.3	9.4
30-34	15.1	7.8	9.6	9.4	9.9	14.4	9.9	10.2
35-39	27.5	12.0	14.3	7.9	13.9	12.9	12.7	13.2
≥ 40	(53.3)	20.0	18.2	17.4	27.4	25.4	23.4	24.4
total	10.8	8.7	10.3	9.3	13.6	17.3	10.5	10.6
adjusted to Netherlands	10.4	8.7	10.1	9.2	12.7	17.1	10.1	10.3

Frequency of twin births

NETHERLANDS / MATERNITY HOME HELP, 1955-1965

year	Netherlands*			maternity home help*		
	total births	twin births		total births	twin births	
		n	%		n	%
1955/1956	234,330	5869	2.5	71,683	1634	2.3
1957/1958	239,398	5864	2.4	75,045	1436	1.9
1959	246,396	5910	2.4	82,788	1630	2.0
1960	242,746	5840	2.4	84,523	1642	1.9
1961	251,131	5918	2.4	87,140	1562	1.8
1962	249,795	6026	2.4	87,591	1600	1.8
1963	253,506	6030	2.4	90,132	1582	1.8
1964	254,319	5888	2.3	96,073	1658	1.7
1965	248,478	5568	2.3	98,054	1536	1.6

* stillbirths and live births

TWEELINGKINDEREN EN DOODGEBOREN
 TWEELINGKINDEREN NAAR PLAATS VAN GEBOORTE

Twins and stillbirths in twins by place of delivery

Percentage distribution,

NETHERLANDS, 1955-1964

year	all twins		stillbirths in twins	
	home	hospital	home	hospital
1955/1956	60	40	49	51
1957/1958	55	45	49	51
1959/1960	55	45	49	51
1961/1962	53	47	46	54
1963/1964	49	51	41	59

DOODGEBORTE EN PERINATALE STERFTE VAN
TWEELINGKINDEREN

Stillbirth and perinatal mortality of twin births

Per 1000 (live) births

year	Netherlands			maternity home help	
	stillbirth			still- birth	perinatal mortality
	total	home	hosp.		
1955/1956	39.8	32.5	50.9	26.0	56.0
1957/1958	41.5	36.5	47.8	30.6	63.4
1959/1960	37.7	33.9	42.3	28.4	59.6
1961/1962	35.5	30.5	41.2	29.4	50.9
1963/1964	38.8	32.7	44.7	25.0	50.3
1965	33.2			29.9	59.9

First week mortality in single births and twin births by birth weight

Per 1000 live births in each weight group

MATERNITY HOME HELP, 1956-1964

birth weight in grams	single births			twin births			total live births			birth weight in grams
	1956/58	1959/61	1962/64	1956/58	1959/61	1962/64	1956/58	1959/61	1962/64	
≤ 1000	350	270	268	460	540	468	392	364	326	≤ 1000
1001-1500										1001-1500
1501-2000	110	130	112	90	66	74	103	107	100	1501-2000
2001-2250	50	63	39	21	39	23	25	56	34	2001-2250
2251-2500	20	27	18		10	11		25	17	2251-2500
prematures	44.4	50.4	36.1	62.0	59.1	43.0	48.3	52.3	37.5	prematures
2501-3000	5.4	5.9	5.3	7.8	8.4	4.9	5.5	6.0	5.3	2501-3000
3001-3500	2.5	2.6	2.1	.	.	(2.6)	2.5	2.6	2.1	3001-3500
3501-4000	1.6	1.5	1.4	.	.	-	1.6	1.5	1.4	3501-4000
≥ 4001	2.0	1.9	1.9	.	-	-	2.1	1.9	1.9	≥ 4001
all weights	4.1	4.2	3.5	33.7	31.0	21.7	4.7	4.7	3.8	all weights
weight unknown	46	130	121	-	-	123	50	130	121	weight unknown
total	4.5	4.5	3.9	35.3	31.3	23.1	5.1	5.0	4.2	total

GEBORENEN, PERINATALE STERFTE EN HOSPITALISATIE
 NAAR GEMEENTEGROOTTE

Births, perinatal mortality and hospitalization by size of municipality

NETHERLANDS / MATERNITY HOME HELP, 1963/1964

size of municipality	percentage distribution		per 1000 (live) births						hosp. % Neth.
			stillbirth		1st wk mort.		perin.mort.		
	Neth	MHH	Neth	MHH	Neth	MHH	Neth	MHH	
<20,000 inh.	45	53	14.5	7.5	10.2	4.3	24.5	11.8	22
20,000 - 100,000	28	28	13.6	6.2	10.6	4.0	24.0	10.1	31
>100,000 inh.	27	19	13.1	6.1	10.0	3.9	23.0	10.0	44
total	100	100	13.8	6.9	10.3	4.1	24.0	11.0	30

GEBORENEN EN PERINATALE STERFTE
 NAAR INKOMENGROEP

Births and perinatal mortality by income group

Per 1000 (live) births

MATERNITY HOME HELP, 1963/1964

group	income of father	distribution	still-birth	first week mortality	perinatal mortality
III	< f 5000	27	6.6	4.4	10.9
II	f 5000 – social insurance level	57	6.5	3.6	10.0
I	> social insurance level	16	6.7	3.5	10.2
	total	100	6.5	3.8	10.3

Perinatal mortality by type of obstetrical care

Rates per 1000 (live) births and ratios

obstetrical care	survey De Haas-Posthuma (1962)			kraamzorg/MHH (1962)			Netherlands (1962)		
	stillb.	durante partu	1st wk perinat.	stillb.	1st wk perinat.	stillb.	1st wk perinat.		
physician	15.1	12.2	9.0	7.8	4.7	21.3	15.5	36.5	
midwife	12.2	8.6	7.8	5.2	4.2	(2.0)	(3.5)	(5.6)	
total	14.3	10.8	8.7	7.1	4.5	14.6	11.3	25.7	
physician	100	100	100	100	100	100	100	100	
midwife	81	70	87	67	89	9	23	15	

() these rates are unrealistic

Births and perinatal mortality by type of assistance of family doctor or midwife

MATERNITY HOME HELP, 1964

type of assistance	births		still-birth		first week mortality		perinatal mortality	
	n	%	n	‰	n	‰	n	‰
1. kraamverzorgster maternity home help	56,554	60.8	349	6.2	195	3.4	544	9.6
2. staf van kraamcentrum staff of MHH centre	7,778	8.3	35	4.5	26	3.3	61	7.8
3. andere desk. assist. other qualif. assist.	3,102	3.3	27	8.7	17	5.5	44	14.2
4. geen/ondesk. assist. no/unqualif. assist.	24,964	26.8	140	5.6	115	4.6	255	10.2
5. onbekend unknown	668	0.7	77	115	20	30	97	145
total	93,066	100	628	6.7	373	4.0	1001	10.8

KRAAMVROUWENSTERFTE IN RELATIE TOT HOSPITALISATIE
EN GEBOORTECIJFER

36

Maternal mortality in relation to hospitalization and birth rate

Crude and adjusted rates 1960/1962 & 1963

country	maternal mortality per 100 000 live births				hospital- ization ^o 1962 ‰	birth rate 1962 ‰
	1960/1962		1963			
	crude	adj*	crude	adj*		
Sweden	23.6	23.6	26.6	26.9	100	14.2
Denmark	24.3	26.0	25.5	27.5	50 ⁺	16.6
Norway	30.0	27.1	20.5	18.9	96	17.2
Belgium	36.3	34.7	30.8	28.7	90	16.9
England & Wales	36.3	36.3	28.5	28.5	66	17.5
U.S.A. total	36.4	39.0	35.8	38.1	97	23.1
white	24 ^x				99	22.1
non white	96 ^x				87	31.4
Netherlands	37.0	31.5	32.8	27.8	30	20.9
Czechoslovakia	43.8	50.3	36.0	41.2	96	15.8
France	46.7	44.4	38.2	35.5		17.7
West Germany	96.9	94.1	82.8	79.5	72	17.8

* adjusted to birth distribution of England & Wales

^o in percent of all deliveries

^x 1962/1963

⁺ 1961

Maternal mortality by place of death

NETHERLANDS, 1950-1966

period	hospital			home			total			hospital- ization ^o %
	n	r	i	n	r	i	n	r	i	
1950/1951							216	93	150	19.9
1956/1957	108	178	100	39	22.2	100	147	62	100	25.7
1958/1959	86	132	74	23	12.9	58	109	45	73	26.8
1960/1961	74	106	60	20	11.3	51	94	38	61	28.2
1962/1963	61	81	46	21	11.6	52	82	32	52	30.0
1964/1965	58	74	42	16	9.6	45	74	30	48	31.0
1966	41	50	28	8	5.0	23	49	20	32	33.7

n = number of deaths

r = rate per 100,000 births

i = index: rate 1956/1957 = 100

^o in % of all births

KRAAMVROUWENSTERFTE IN KRAAMZORGGROEP
EN IN NEDERLAND

Maternal mortality in maternity home help group and in the Netherlands

period	maternity home help					Netherlands	
	live births	maternal mortality		place of death*		total B40	670-689
		n*	per 100,000	home	hospital	per 100,000	
1950-1953						87	60
1954-1956	209,728	22	11.0	11	11	65	42
1957-1959	230,534	15	6.5	7	8	50	33
1960-1962	256,242	23	9.0	5	18	37	25
1963-1965	280,977	21	7.5	10	11	31	20
1966	98,799	5	5.1	4	1	20	15

* in three years, except 1966

Hospitalization in maternity home help group

year	total deliveries	deliveries in hospital						registered newborns in hospital*	
		total		primary booking		emergency admission		n	%
		n	%	n	%	n	%		
1964	95236	2178	2.3	1059	1.1	1119	1.2	2137	2.3
1965	97283	2670	2.7	1390	1.4	1280	1.3	2577	2.7
1966	98696	2750	2.8	1438	1.5	1312	1.3	2493	2.5

* emergency admissions only partly included.

EERSTE WEEK STERFTE
NAAR PLAATS VAN OVERLIJDEN

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First week mortality by place of death

Maternity Home Help, 1964-1966

year	numbers		
	total	hospital	home
1964	385	271	114
1965	393	253	140
1966	340	232	108
total	1118	756	362