

NEONATAL MORTALITY INDICATORS

Definition: The number of neonatal deaths (day 0 through 27) after live birth in a given year per 1000 live births in the same year calculated by gestational age, birth weight and plurality. This rate is presented for all births at or after 22 completed weeks of gestation. This rate is sub-divided by timing of death into early neonatal deaths (0-6 days of life) and late neonatal deaths (7-27 days).

Table 1: Neonatal Mortality Rates by timing of death, births >=22 weeks

Year	Livebirth >=22wks	No. of Neonatal deaths (>=22wks)			Neonatal Mortality Rate (>=22wks) per 1000 live births		
		All (0-27)	Early (0-6)	Late (7-27)	All (0-27)	Early (0-6)	Late (7-27)
2000	4361	25	19	6	5.73	4.36	1.38
2001	3935	13	10	3	3.30	2.54	0.76
2002	3905	19	16	3	4.87	4.10	0.77
2003	4036	21	19	2	5.20	4.71	0.50
2004	3887	17	12	5	4.37	3.09	1.29
2005	3857	17	13	4	4.41	3.37	1.04
2006	3880	9	4	5	2.32	1.03	1.29
2007	3886	20	17	3	5.15	4.37	0.77
2008	4199	24	21	3	5.72	5.00	0.71
2009	4152	18	14	4	4.34	3.37	0.96
2010	4018	18	16	2	4.48	3.98	0.50
2011	4283	23	19	4	5.37	4.44	0.93
2012	4239	19	17	2	4.48	4.01	0.47
2013	4127	18	15	3	4.36	3.63	0.73
2014	4308	16	15	1	3.71	3.48	0.23
2015	4435	16	12	4	3.61	2.71	0.90
2016	4532	28	23	5	6.18	5.08	1.10
2017	4379	20	14	6	4.57	3.20	1.37
2018	4491	21	15	6	4.68	3.34	1.34
2019	4439	19	16	3	4.28	3.60	0.68
2020	4522	15	12	3	3.32	2.65	0.66
2021	4464	12	10	2	2.69	2.24	0.45
Total	92335	408	329	79	4.42	3.56	0.86

Table 2: Neonatal Mortality Rates by timing of death, births >=24 weeks

Year	Livebirth >=24wks	No. of Neonatal deaths (>=24wks)			Neonatal Mortality Rate (>=24wks) per 1000 live births		
		All (0-27)	Early (0-6)	Late (7-27)	All (0-27)	Early (0-6)	Late (7-27)
2000	4358	22	16	6	5.05	3.67	1.38
2001	3935	13	10	3	3.30	2.54	0.76
2002	3905	19	16	3	4.87	4.10	0.77
2003	4036	21	19	2	5.20	4.71	0.50
2004	3887	17	12	5	4.37	3.09	1.29
2005	3855	15	11	4	3.89	2.85	1.04
2006	3880	9	4	5	2.32	1.03	1.29
2007	3883	17	14	3	4.38	3.61	0.77
2008	4195	21	18	3	5.01	4.29	0.72
2009	4151	17	13	4	4.10	3.13	0.96
2010	4016	16	14	2	3.98	3.49	0.50
2011	4280	20	17	3	4.67	3.97	0.70
2012	4233	13	11	2	3.07	2.60	0.47
2013	4126	17	14	3	4.12	3.39	0.73
2014	4303	11	10	1	2.56	2.32	0.23
2015	4433	14	10	4	3.16	2.26	0.90
2016	4525	21	17	4	4.64	3.76	0.88
2017	4377	19	13	6	4.34	2.97	1.37
2018	4489	19	13	6	4.23	2.90	1.34
2019	4437	17	14	3	3.83	3.16	0.68
2020	4520	13	10	3	2.88	2.21	0.66
2021	4463	11	9	2	2.46	2.02	0.45
Total	92287	362	285	77	3.92	3.09	0.83

NEONATAL MORTALITY INDICATORS

Table 3: Neonatal Mortality Rate by plurality, births >=22weeks

Year	Livebirth >=22wks	No. of total livebirths >=22 weeks		No. of Neonatal Deaths >=22 weeks		Neonatal Mortality Rate/1000 total births	
		Singleton	Multiple	Singleton	Multiple	Singleton	Multiple
2000	4361	4232	129	22	3	5.2	23.3
2001	3935	3864	71	11	2	2.8	28.2
2002	3905	3801	104	19	0	5.0	0.0
2003	4036	3926	110	13	8	3.3	72.7
2004	3887	3767	120	15	2	4.0	16.7
2005	3857	3739	118	11	6	2.9	50.8
2006	3880	3746	134	8	1	2.1	7.5
2007	3886	3799	87	19	1	5.0	11.5
2008	4199	4059	140	19	5	4.7	35.7
2009	4152	4020	132	18	0	4.5	0.0
2010	4018	3856	162	17	1	4.4	6.2
2011	4283	4125	158	21	2	5.1	12.7
2012	4239	4083	156	15	4	3.7	25.6
2013	4127	3976	151	16	2	4.0	13.2
2014	4308	4193	115	15	1	3.6	8.7
2015	4435	4303	132	16	0	3.7	0.0
2016	4532	4337	195	15	13	3.5	66.7
2017	4379	4235	144	17	3	4.0	20.8
2018	4491	4332	159	19	2	4.4	12.6
2019	4439	4294	145	16	3	3.7	20.7
2020	4522	4393	129	12	3	2.7	23.3
2021	4464	4354	110	12	0	2.8	0.0
Total	92335	89434	2901	346	62	3.9	21.4

Table 4: Neonatal Mortality Rate by plurality, births >=24weeks

Year	Livebirth >=24wks	No. of total livebirths >=24 weeks		No. of Neonatal Deaths >=24 weeks		Neonatal Mortality Rate/1000 total births	
		Singleton	Multiple	Singleton	Multiple	Singleton	Multiple
2000	4359	4230	129	20	3	4.7	23.3
2001	3935	3864	71	11	2	2.8	28.2
2002	3905	3801	104	19	0	5.0	0.0
2003	4036	3926	110	13	8	3.3	72.7
2004	3887	3767	120	15	2	4.0	16.7
2005	3855	3739	116	11	4	2.9	34.5
2006	3880	3746	134	8	1	2.1	7.5
2007	3883	3796	87	16	1	4.2	11.5
2008	4195	4055	140	16	5	3.9	35.7
2009	4151	4019	132	17	0	4.2	0.0
2010	4016	3854	162	15	1	3.9	6.2
2011	4280	4122	158	18	2	4.4	12.7
2012	4233	4079	154	11	2	2.7	13.0
2013	4126	3975	151	15	2	3.8	13.2
2014	4303	4188	115	10	1	2.4	8.7
2015	4433	4301	132	14	0	3.3	0.0
2016	4525	4334	191	12	9	2.8	47.1
2017	4377	4233	144	16	3	3.8	20.8
2018	4489	4330	159	17	2	3.9	12.6
2019	4437	4292	145	14	3	3.3	20.7
2020	4520	4393	127	12	1	2.7	7.9
2021	4463	4353	110	11	0	2.5	0.0
Total	92288	89397	2891	311	52	3.5	18.0

NEONATAL MORTALITY INDICATORS

Table 5: Neonatal Mortality Rates per 1000 live births in gestational age subgroup

Year	Total livebirths	No. of live births - Gestational Age (wks)					Total neonatal deaths	No. of Neonatal deaths - Gestational Age (wks)					Neonatal Mortality Rate/1000 livebirths per Gestational Age grp.					
		<24	24-27	28-31	32-36	≥37		<24	24-27	28-31	32-36	≥37	Total neonatal mortality	<24	24-27	28-31	32-36	≥37
2000	4361	2	15	13	232	4099	25	2	13	5	2	3	5.7	1000.0	866.7	384.6	8.6	0.7
2001	3935	0	9	22	227	3677	13	0	4	4	2	3	3.3	0.0	444.4	181.8	8.8	0.8
2002	3905	0	6	19	229	3649	19	0	4	3	4	8	4.9	0.0	666.7	157.9	17.5	2.2
2003	4036	0	18	20	248	3738	21	0	7	4	5	5	5.2	0.0	388.9	200.0	20.2	1.3
2004	3887	0	8	21	252	3606	17	0	3	5	5	4	4.4	0.0	375.0	238.1	19.8	1.1
2005	3857	2	11	17	218	3609	17	2	8	1	2	4	4.4	1000.0	727.3	58.8	9.2	1.1
2006	3880	0	6	17	242	3615	9	0	4	1	1	3	2.3	0.0	666.7	58.8	4.1	0.8
2007	3886	3	9	19	226	3629	20	3	5	2	6	4	5.1	1000.0	555.6	105.3	26.5	1.1
2008	4199	4	21	26	236	3912	24	3	7	3	5	6	5.7	750.0	333.3	115.4	21.2	1.5
2009	4152	1	11	31	237	3872	18	1	3	3	3	8	4.3	1000.0	272.7	96.8	12.7	2.1
2010	4018	2	10	21	256	3729	18	2	3	1	3	9	4.5	1000.0	300.0	47.6	11.7	2.4
2011	4283	3	15	43	261	3961	23	3	5	3	5	7	5.4	1000.0	333.3	69.8	19.2	1.8
2012	4239	6	6	30	273	3924	19	6	3	5	1	4	4.5	1000.0	500.0	166.7	3.7	1.0
2013	4127	1	13	22	231	3860	18	1	8	5	3	1	4.4	1000.0	615.4	227.3	13.0	0.3
2014	4308	5	9	28	244	4022	16	5	3	1	3	4	3.7	1000.0	333.3	35.7	12.3	1.0
2015	4435	2	15	24	259	4135	16	2	7	0	4	3	3.6	1000.0	466.7	0.0	15.4	0.7
2016	4532	7	20	31	312	4162	28	7	11	6	3	1	6.2	1000.0	550.0	193.5	9.6	0.2
2017	4379	2	13	34	301	4029	20	1	5	4	6	4	4.6	500.0	384.6	117.6	19.9	1.0
2018	4491	2	14	29	238	4208	21	2	3	3	6	7	4.7	1000.0	214.3	103.4	25.2	1.7
2019	4439	2	15	30	281	4111	19	2	7	2	3	5	4.3	1000.0	466.7	66.7	10.7	1.2
2020	4522	2	17	27	253	4223	15	2	4	1	2	6	3.3	1000.0	235.3	37.0	7.9	1.4
2021	4464	1	13	23	263	4164	12	1	4	4	1	2	2.7	1000.0	307.7	173.9	3.8	0.5
Total	92335	47	274	547	5519	85934	408	45	121	66	75	101	4.4	957.4	441.6	120.7	13.6	1.2

NEONATAL MORTALITY INDICATORS

Table 6: Neonatal Mortality Rates per 1000 live births for babies 22 weeks and over by birthweight subgroup

Year	Total livebirths	No. of live births - Birthweight (grams)					UN	No. of Neonatal deaths - Birthweight (grams)					UN	Neonatal mortality rate per Birthweight group /1000 live births						
		<500	500-999	1000-1499	1500-2499	≥2500		Total neonatal deaths	<500	500-999	1000-1499	1500-2499		≥2500	Total neonatal mortality	<500	500-999	1000-1499	1500-2499	≥2500
2000	4361	3	12	12	228	4099	7	25	3	11	5	2	3	1	5.7	1000.0	916.7	416.7	8.8	0.7
2001	3935	0	13	16	203	3694	9	13	0	8	0	1	4	0	3.3	0.0	615.4	0.0	4.9	1.1
2002	3905	0	8	17	207	3670	3	19	0	4	4	5	5	1	4.9	0.0	500.0	235.3	24.2	1.4
2003	4036	1	16	21	246	3743	9	21	1	7	4	5	4	0	5.2	1000.0	437.5	190.5	20.3	1.1
2004	3887	0	10	25	266	3583	3	17	0	4	5	5	3	0	4.4	0.0	400.0	200.0	18.8	0.8
2005	3857	0	13	12	226	3602	4	17	0	9	2	1	5	0	4.4	0.0	692.3	166.7	4.4	1.4
2006	3880	0	8	18	224	3626	4	9	0	4	1	1	3	0	2.3	0.0	500.0	55.6	4.5	0.8
2007	3886	3	9	17	220	3617	20	20	3	6	1	4	3	3	5.1	1000.0	666.7	58.8	18.2	0.8
2008	4199	0	22	19	242	3896	20	24	0	10	2	4	7	1	5.7	0.0	454.5	105.3	16.5	1.8
2009	4152	1	14	22	267	3842	6	18	1	4	3	2	7	1	4.3	1000.0	285.7	136.4	7.5	1.8
2010	4018	0	9	22	260	3726	1	18	0	4	3	4	7	0	4.5	0.0	444.4	136.4	15.4	1.9
2011	4283	1	19	36	277	3946	4	23	1	8	0	7	7	0	5.4	1000.0	421.1	0.0	25.3	1.8
2012	4239	5	8	25	259	3942	0	19	5	4	1	4	5	0	4.5	1000.0	500.0	40.0	15.4	1.3
2013	4127	2	15	17	240	3847	6	18	2	7	3	1	4	1	4.4	1000.0	466.7	176.5	4.2	1.0
2014	4308	5	8	28	238	4025	4	16	5	3	1	2	5	0	3.7	1000.0	375.0	35.7	8.4	1.2
2015	4435	1	13	29	236	4152	4	16	1	6	3	2	4	0	3.6	1000.0	461.5	103.4	8.5	1.0
2016	4532	8	21	31	282	4188	2	28	6	13	4	4	1	0	6.2	750.0	619.0	129.0	14.2	0.2
2017	4379	2	17	28	281	4049	2	20	2	5	3	5	5	0	4.6	1000.0	294.1	107.1	17.8	1.2
2018	4491	1	19	26	270	4164	11	21	1	4	3	8	4	1	4.7	1000.0	210.5	115.4	29.6	1.0
2019	4439	3	20	23	271	4120	2	19	2	8	3	2	4	0	4.3	666.7	400.0	130.4	7.4	1.0
2020	4522	3	12	32	250	4217	8	15	3	2	2	6	2	0	3.3	1000.0	166.7	62.5	24.0	0.5
2021	4464	0	16	19	255	4171	3	12	0	4	5	0	3	0	2.7	0.0	250.0	263.2	0.0	0.7
Total	92335	39	302	495	5448	85919	132	408	36	135	58	75	95	9	4.4	923.1	447.0	117.2	13.8	1.1

NEONATAL MORTALITY INDICATORS

Table 7: Neonatal Mortality rates ($\geq 500\text{g}$) by underlying congenital anomaly

Year**	Total live births $\geq 500\text{g}$	Total neonatal deaths $\geq 500\text{g}$	Total neonatal deaths $\geq 500\text{g}$ not due to Congenital Anomaly*	Total neonatal deaths ($\geq 500\text{g}$) due to congenital anomaly	Overall neonatal mortality rate ($\geq 500\text{g}$) /1000births	Neonatal mortality rate ($\geq 500\text{g}$) not due to congenital anomaly /1000births	Neonatal mortality rate ($\geq 500\text{g}$) due to congenital anomaly /1000births
2006	3880	9	5	4	2.32	1.29	1.03
2007	3883	17	8	9	4.38	2.06	2.32
2008	4199	24	15	9	5.72	3.57	2.14
2009	4151	17	7	10	4.10	1.69	2.41
2010	4018	18	8	10	4.48	1.99	2.49
2011	4282	22	13	9	5.14	3.04	2.10
2012	4234	14	5	9	3.31	1.18	2.13
2013	4125	16	10	6	3.88	2.42	1.45
2014	4303	11	7	4	2.56	1.63	0.93
2015	4434	15	9	6	3.38	2.03	1.35
2016	4524	22	16	6	4.86	3.54	1.33
2017	4377	18	9	9	4.11	2.06	2.06
2018	4490	20	13	7	4.45	2.90	1.56
2019	4436	16	11	5	3.61	2.48	1.13
2020	4519	12	4	8	2.66	0.89	1.77
Total	63855	251	140	111	3.93	2.19	1.74

*Deaths due to congenital anomaly refer to those deaths with an underlying cause of death coded to a condition in ICD 10 'Q' chapter

**2021 data for cause of deaths still being finalised as of completion of these tables