

## Report for

**SOUTH AFRICA**  
**Tygerberg Hospital**  
**January 2018 to December 2022**

### Deliveries:

	Number	% of all deliveries	% of Low Birth Weight
500 – 999g	2,312	5.6%	15.3%
1,000 – 1,499g	3,015	7.3%	20.0%
1,500 – 1,999g	3,793	9.2%	25.2%
2,000 – 2,499g	5,953	14.5%	39.5%
2,500g+	26,007	63.3%	
<b>Total</b>	<b>41,080</b>		

Tygerberg Hospital number of deliveries									
Month	500 - 999g	1,000 - 1,499g	1,500 - 1,999g	2,000 - 2,499g	2,500g+	Total	Alive at discharge	Neonatal deaths	Stillbirths
January 2018	41	51	59	105	352	608	546	17	45
February 2018	35	50	70	93	372	620	562	14	44
March 2018	45	65	61	86	389	646	590	7	49
April 2018	48	60	60	102	402	672	615	12	45
May 2018	27	36	81	104	399	647	607	11	29
June 2018	34	47	68	90	418	657	602	9	46
July 2018	51	56	57	94	426	684	627	12	45
August 2018	41	53	64	103	442	703	642	11	50
September 2018	34	57	68	93	411	663	617	10	36
October 2018	56	45	60	109	447	717	653	12	52
November 2018	45	61	58	105	442	711	653	8	50
December 2018	67	49	59	102	462	739	686	7	46
January 2019	36	67	64	99	432	698	647	9	42
February 2019	32	40	56	86	414	628	587	8	33
March 2019	45	58	71	88	385	647	598	12	37
April 2019	42	50	51	100	429	672	618	14	40
May 2019	45	50	59	95	444	693	635	7	51
June 2019	49	39	66	98	441	693	641	14	38

July 2019	40	46	54	90	411	641	590	9	42
August 2019	38	58	58	101	421	676	622	5	49
September 2019	60	44	70	89	380	643	583	6	54
October 2019	50	56	59	110	415	690	629	13	48
November 2019	30	51	70	89	434	674	627	8	39
December 2019	38	48	72	107	435	700	646	17	37
January 2020	46	52	73	74	503	748	698	11	39
February 2020	34	50	61	87	414	646	609	10	27
March 2020	42	31	50	101	397	621	580	5	36
April 2020	33	56	51	75	388	603	549	5	49
May 2020	40	45	65	102	454	706	662	11	33
June 2020	25	23	37	73	369	527	479	13	35
July 2020	25	42	68	107	456	698	664	8	26
August 2020	38	55	59	136	489	777	735	6	36
September 2020	33	47	67	85	445	677	625	12	40
October 2020	32	39	69	101	473	714	678	7	29
November 2020	36	64	72	120	419	711	654	9	48
December 2020	31	56	83	95	445	710	667	7	36
January 2021	38	60	71	87	412	668	622	7	39
February 2021	41	46	77	87	362	613	574	19	20
March 2021	38	61	65	97	443	704	664	8	32
April 2021	44	47	46	110	453	700	646	15	39
May 2021	31	46	74	98	483	732	689	10	33
June 2021	33	51	59	107	466	716	687	5	24
July 2021	32	37	57	103	455	684	652	3	29
August 2021	35	43	59	103	496	736	690	8	38
September 2021	34	48	54	111	448	695	654	8	33
October 2021	36	58	60	112	424	690	658	5	27
November 2021	29	43	83	101	442	698	654	11	33
December 2021	29	51	67	116	448	711	670	11	30
January 2022	35	73	59	112	476	755	708	15	32
February 2022	31	55	52	115	418	671	629	6	36
March 2022	38	51	60	100	463	712	669	8	35
April 2022	35	47	33	100	434	649	613	8	28
May 2022	30	52	73	104	488	747	710	7	30
June 2022	37	54	59	97	473	720	676	12	32
July 2022	48	40	55	86	443	672	631	11	30
August 2022	34	54	80	106	454	728	684	10	34

September 2022	43	54	60	94	439	690	637	14	39
October 2022	26	48	68	86	422	650	617	7	26
November 2022	45	49	82	108	451	735	687	11	37
December 2022	46	50	70	119	459	744	695	9	40

2018-2022	Number	Percentage
Normal vaginal delivery	18155	44,2
Ventouse delivery	533	1,3
Forceps delivery	111	0,3
Vaginal breech delivery	580	1,4
Caesarean section	19470	47,4
Other (Destructive etc)	0	0,0
Delivery method unknown	2231	5,4

#### Perinatal outcome (500g +):

	Number	% of all deliveries	% of live births
Born alive	38,823	94.5%	
Survive	38,239	93.1%	98.5%
Early neonatal death	435	1.1%	1.1%
Late neonatal death	149	0.4%	0.4%

#### Perinatal outcome (1000g +):

	Number	% of all deliveries	% of live births
Born alive	37,579	91.5%	
Survive	37,293	90.8%	99.2%
Early neonatal death	212	0.5%	0.6%
Late neonatal death	74	0.2%	0.2%

#### Stillborn (500g +):

	Number	% of all deliveries	% of stillbirths
Stillborn:	2,257	5.5%	

### Multiple pregnancies

	Number	Percentage
Multiple pregnancies reported	2,240	5.8%
Neonates delivered from multiple pregnancies	4,494	10.9%

### Born before arrival

	Number	Percentage
Neonates delivered BBA	324	0.8%

### Delivery data

	Number	Percentage
Normal vaginal delivery	18,155	44.2%
Ventouse	533	1.3%
Forceps	111	0.3%
Breech	580	1.4%
Caesarean section	19,470	47.4%
Other	0	0.0%
Unknown	2,231	5.4%

### Parity

	Number	Percentage
Primiparae	8,840	22.8%
Multiparae	17,526	45.1%
Grand multiparae	869	2.2%
Unknown	11,591	29.9%

### Syphilis serology

	Number	Percentage
Positive	431	1.1%
Negative	37,869	97.5%
Not done	526	1.4%

Unknown	0	0.0%
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### Maternal age

	Number	Percentage
Younger than 18 years	1,103	2.8%
18-19 years	1,474	3.8%
Older than 34 years	9,347	24.1%

### Perinatal care index

Indicator	All birth weights	All 1,000g +
Perinatal care index	1.72	1.24

### Rates 500g+

Perinatal mortality rate	65.5 / 1,000
Neonatal mortality rate	15.0 / 1,000
Early mortality rate	11.2 / 1,000
Late mortality rate	3.8 / 1,000
Stillbirth rate	54.9 / 1,000
Stillbirth/neonatal death ratio	3.9 : 1

### Rates 1000g+

Perinatal mortality rate	36.1 / 1,000
Neonatal mortality rate	7.6 / 1,000
Early mortality rate	5.6 / 1,000
Late mortality rate	2.0 / 1,000
Stillbirth rate	30.7 / 1,000
Stillbirth/neonatal death ratio	4.2 : 1

### Perinatal Care Index

All birth weights	1000g +
1.79	1.10

## Causes of death

### Primary causes of death 1000g+

Obstetric cause of death	Number	% of group	% of total
ANTEPARTUM HAEMORRHAGE	289		28.5
Abruptio placentae with hypertension	212	73.4	20.9
Abruptio placentae	67	23.2	6.6
Placenta praevia	6	2.1	0.6
Antepartum haemorrhage of unknown origin	4	1.4	0.4
HYPERTENSIVE DISORDERS	173		17.1
Proteinuric hypertension	155	89.6	15.3
Eclampsia	15	8.7	1.5
Chronic hypertension	2	1.2	0.2
Pregnancy-induced hypertension without proteinuria	1	0.6	0.1
FETAL ABNORMALITY	155		15.3
Abnormality of multiple systems	39	25.2	3.8
Fetal chromosomal abnormality	38	24.5	3.7
Hydrocephalus	22	14.2	2.2
Cardiovascular system abnormality	15	9.7	1.5
Neural tube defects	14	9.0	1.4
Non-immune hydrops fetalis	12	7.7	1.2
Renal system abnormality	8	5.2	0.8
Non-specific fetal abnormality - FLK	7	4.5	0.7
INTRAUTERINE DEATH	115		11.3
Unexplained intrauterine death - macerated	93	80.9	9.2
Unexplained intrauterine death - fresh	18	15.7	1.8
Unexplained IUD due to lack of notes	4	3.5	0.4
MATERNAL DISEASE	66		6.5
Maternal diabetes mellitus	58	87.9	5.7
Other maternal disease	7	10.6	0.7
Maternal heart disease	1	1.5	0.1
INTRAPARTUM ASPHYXIA	53		5.2

Labour related intrapartum asphyxia	24	45.3	2.4
Ruptured uterus	15	28.3	1.5
Cord prolapse	8	15.1	0.8
Traumatic breech delivery	3	5.7	0.3
Shoulder dystocia	2	3.8	0.2
Meconium aspiration	1	1.9	0.1
INTRAUTERINE GROWTH RETARDATION	50		4.9
IUGR with histological features of ischaemic placental disease	30	60.0	3.0
Idiopathic intrauterine growth retardation	20	40.0	2.0
SPONTANEOUS PRETERM LABOUR	50		4.9
Ideopathic preterm labour	21	42.0	2.1
Preterm premature rupture of membranes	17	34.0	1.7
Preterm labour with chorioamnionitis with intact membranes	6	12.0	0.6
Preterm premature rupture of membranes with chorioamnionitis	6	12.0	0.6
INFECTIONS	31		3.1
Syphilis	20	64.5	2.0
Other infections	10	32.3	1.0
Amniotic fluid infection	1	3.2	0.1
MISCELLANEOUS	20		2.0
Other cause of death not described in classification	15	75.0	1.5
Extra-uterine pregnancy	3	15.0	0.3
Twin-to-twin transfusion	2	10.0	0.2
NO OBSTETRIC CAUSE / NOT APPLICABLE	6		0.6
No obstetric cause / Not applicable	6	100.0	0.6
TRAUMA	6		0.6
Motor vehicle accident	6	100.0	0.6