

District Hospital Performance Assessment

Mpumalanga Province

2008-2010

Kathryn Chu, Sizulu Moyo, Catherine Ogunmefun, Thokozani
Mbatha, Peter Bock, Rene English



District Hospital Performance Assessment

Mpumalanga Province 2008-2010

Kathryn Chu, Sizulu Moyo, Catherine Ogunmefun, Thokozani Mbatha,
Peter Bock, Rene English

Published by Health Systems Trust

34 Essex Terrace
Westville
3630
South Africa



Tel: +27 (0)31 266 9090
Fax: +27 (0)31 266 9199
Email: hst@hst.org.za
<http://www.hst.org.za>

Published: November 2011

Suggested citation:

Chu K, Moyo S, Ogunmefun C, Mbatha T, Bock P, English R. District Hospital Performance Assessment: Mpumalanga State Province 2008-2010. Health Systems Trust; Durban, 2011

The information contained in this publication may be freely distributed and reproduced, as long as the source is acknowledged, and it is used for non-commercial purposes.

Acknowledgements

We would like to thank the National Department of Health for providing the data for the report. We are also grateful to Candy Day for assistance with the data. We thank Dr Kathryn Chu for writing the first draft of the report, and Dr Peter Barron for input and guidance in writing the final report.

Contents

INTRODUCTION	1
BACKGROUND.....	3
A GERT SIBANDE – DC30.....	5
1. Carolina Hospital.....	5
<i>i: Description</i>	<i>5</i>
<i>ii: Input and process indicators</i>	<i>5</i>
<i>iii: Outcome indicators</i>	<i>8</i>
<i>iv: Impact indicators.....</i>	<i>9</i>
<i>v: Conclusions.....</i>	<i>11</i>
2. Embhuleni Hospital	12
<i>i: Description</i>	<i>12</i>
<i>ii: Input and process indicators</i>	<i>12</i>
<i>iii: Outcomes indicators</i>	<i>15</i>
<i>iv: Impact indicators.....</i>	<i>16</i>
<i>v: Conclusions:.....</i>	<i>18</i>
3. Bethal Hospital.....	19
<i>i: Description</i>	<i>19</i>
<i>ii: Input and process indicators</i>	<i>19</i>
<i>iii: Outcome indicators</i>	<i>22</i>
<i>iv: Impact indicators.....</i>	<i>23</i>
<i>v: Conclusions.....</i>	<i>25</i>
4. Evander Hospital.....	26
<i>i: Description</i>	<i>26</i>
<i>ii: Input and process indicators</i>	<i>26</i>
<i>iii: Outcomes indicators</i>	<i>29</i>
<i>iv: Impact Indicators</i>	<i>30</i>
<i>v: Conclusion:.....</i>	<i>32</i>
5. Standerton Hospital	33
<i>i: Description</i>	<i>33</i>
<i>ii: Input and process indicators</i>	<i>33</i>
<i>iii: Outcomes indicators</i>	<i>36</i>
<i>iv: Impact Indicators</i>	<i>37</i>
<i>v: Conclusions:.....</i>	<i>39</i>
6. Piet Retief Hospital	40
<i>i: Description</i>	<i>40</i>
<i>ii: Input and process indicators</i>	<i>40</i>
<i>iii: Outcomes indicators</i>	<i>43</i>
<i>iv: Impact Indicators</i>	<i>44</i>
<i>v: Conclusions:.....</i>	<i>46</i>
7. Amajuba Memorial Hospital	47
<i>i: Description</i>	<i>47</i>
<i>ii: Input and process indicators</i>	<i>47</i>
<i>iii: Outcome indicators</i>	<i>50</i>
<i>iv: Impact indicators.....</i>	<i>51</i>

v: Conclusions.....	53
8. Elsie Ballot Hospital	54
i: Description	54
ii: Input and process indicators	54
iii: Outcomes indicators	57
iv: Impact Indicators	57
v: Conclusions:.....	59
B NKANGALA – DC31	60
1. Bernice Samuels Hospital	60
i: Description	60
ii: Input and process indicators	60
iii: Outcomes indicators	63
iv: Impact Indicators	63
v: Conclusions:.....	65
2. Mmamethlake Hospital.....	66
i: Description	66
ii: Input and process indicators	66
iii: Outcomes indicators	69
iv: Impact Indicators	70
v: Conclusions:.....	72
3. HA Grove Hospital	73
i: Description	73
ii: Input and process indicators	73
iii: Outcomes indicators	76
iv: Impact Indicators	76
v: Conclusions:.....	78
4. Waterval Boven Hospital.....	79
i: Description	79
ii: Input and process indicators	79
iii: Outcomes indicators	82
iv: Impact Indicators	82
v: Conclusions:.....	84
5. Impungwe Hospital	85
i: Description	85
ii: Input and process indicators	85
iii: Outcomes indicators	88
iv: Impact Indicators	88
v: Conclusions:.....	90
6. Middleburg Hospital	91
i: Description	91
ii: Input and process indicators	91
iii: Outcomes indicators	94
iv: Impact Indicators	95
v: Conclusions:.....	97
7. KwaMhlanga Hospital	98
i: Description	98
ii: Input and process indicators	98

iii: Outcomes indicators	101
iv: Impact Indicators	102
v: Conclusions:.....	104
C EHLANZENI – DC32	105
1. Matikwana Hospital	105
i: Description	105
ii: Input and process indicators	105
iii: Outcomes indicators	108
iv: Impact Indicators	109
v: Conclusions:.....	111
2. Tintswalo Hospital	112
i: Description	112
ii: Input and process indicators	112
iii: Outcomes indicators	115
iv: Impact Indicators	116
v: Conclusions:.....	118
3. Barberton Hospital	119
i: Description	119
ii: Input and process indicators	119
iii: Outcomes indicators	122
iv: Impact Indicators	123
v: Conclusions:.....	125
4. Lydenburg Hospital	126
i: Description	126
ii: Input and process indicators	126
iii: Outcomes indicators	129
iv: Impact Indicators	130
v: Conclusions:.....	132
5. Sabie Hospital.....	133
i: Description	133
ii: Input and process indicators	133
iii: Outcomes indicators	136
iv: Impact Indicators	137
v: Conclusions:.....	139
6. Matibidi Hospital.....	140
i: Description	140
ii: Input and process indicators	140
iii: Outcomes indicators	143
iv: Impact Indicators	144
v: Conclusions:.....	146
7. Shongwe Hospital	147
i: Description	147
ii: Input and process indicators	147
iii: Outcomes indicators	150
iv: Impact Indicators	151
v: Conclusions:.....	153
8. Tonga Hospital.....	154

<i>i: Description</i>	154
<i>ii: Input and process indicators</i>	154
<i>iii: Outcomes indicators</i>	157
<i>iv: Impact Indicators</i>	158
<i>v: Conclusions:</i>	160

Introduction

Health system strengthening is a key objective in both the Negotiated Service Delivery Agreement and the Re-engineered Primary Health Care approach. Effective utilisation of routine data is crucial for improving the effectiveness of service delivery as well as for improvement of health information systems. There remains considerable scope for improved utilisation of routine data for quality improvement.

This report aims to provide health managers at all levels within the health services, with a useful screening tool for assessing District Hospital management performance. It provides managers with a snap shot of how a facility is performing in key areas of hospital management. It focuses on individual facilities and assesses seven key hospital performance indicators listed in Table 1. Data on these seven indicators is retrieved primarily from the DHIS. Individual facility data is compared to the national and provincial indicator average values. The hospitals are assessed over a period of three financial years: 2008/2009; 2009/2010 and 2010/2011. These are depicted as 2008, 2009 and 2010 respectively in the graphs and text in the report. The data presented should be viewed with an awareness of problems common to routine data, namely incorrect and missing data, as well as specific contextual factors.

The report should be considered in conjunction with a number of other published documents including; Key District Health Indicators in Primary Health Care- Volume 1,- 2007, The Guidebook for District Hospital Managers- Health Systems Trust-2006, A District Hospital Service Package for South Africa – The South African National Department of Health – 2002, and the Negotiated Service Delivery Agreement.

Table 1: Selected Hospital performance indicators: definitions and description

Indicator	Definition	Description	Numerator	Denominator	Unit of reporting
Average length of stay (ALOS)	How long on average each patient spends in hospital	The average length of time inpatients spend in hospital	Inpatients days + 1/2 Day patients	Separations: - Discharges + Deaths + Transfers out + Day patients	Day
Cost per patient day equivalent (CpPDE)	The average cost per patient day seen in a hospital	The average cost per patient per day seen in a hospital	Total expenditure on health per hospital	Total patient day equivalent	Rand
Usable bed utilisation rate (BUR)	The proportion of beds in hospital that were utilised or occupied	The number of patient days during the reporting period, expressed as a percentage of the sum of the daily number of useable beds.	Total patient days - (Inpatient days + 1/2 Day patients) x 100	Total usable bed days	Percent (%)
Caesarean section rate (CS rate)	The proportion deliveries in which a caesarean section is performed	The number of caesarean section deliveries, expressed as a percentage of all deliveries	Caesarean section deliveries	All deliveries in the facility	Percent (%)
Facility crude death rate (FCDR):	The proportion of all inpatient separations that are deaths	The number of all inpatient deaths expressed as a percentage of all inpatient separations	Total inpatient deaths	Total inpatient separations- Includes - inpatient transfers out, day patients, inpatient deaths and inpatient discharges.	Percent (%)
Perinatal mortality rate (PNMR)	The number of perinatal deaths per 1000 births. The perinatal period starts at the beginning of foetal viability (28 weeks gestation or 1000g) and ends at the end of the 7th day after delivery	The sum of still births + those babies dying within 7 days of life per 1000 births	Still births and inpatient early neonatal deaths in facility	Total births in facility	Perinatal deaths/ 1000 births
Still birth rate (SBR):	The number of still births per 1000 births	The number of babies who are "born dead" per 1000 births	The number of still births	The total number of births	Still births/ 1000 births

Background

The Mpumalanga Province is divided into three District Municipalities demarcated as shown in Figure 1. In 2010, the province had 23 District Hospitals serving an estimated population of 3, 365,188 people. Table 2 gives a list of District Hospitals in the province by District and sub-district location. The number of useable beds per facility is also listed in Table 2.

Figure 1: Map of the Mpumalanga province depicting District boundaries

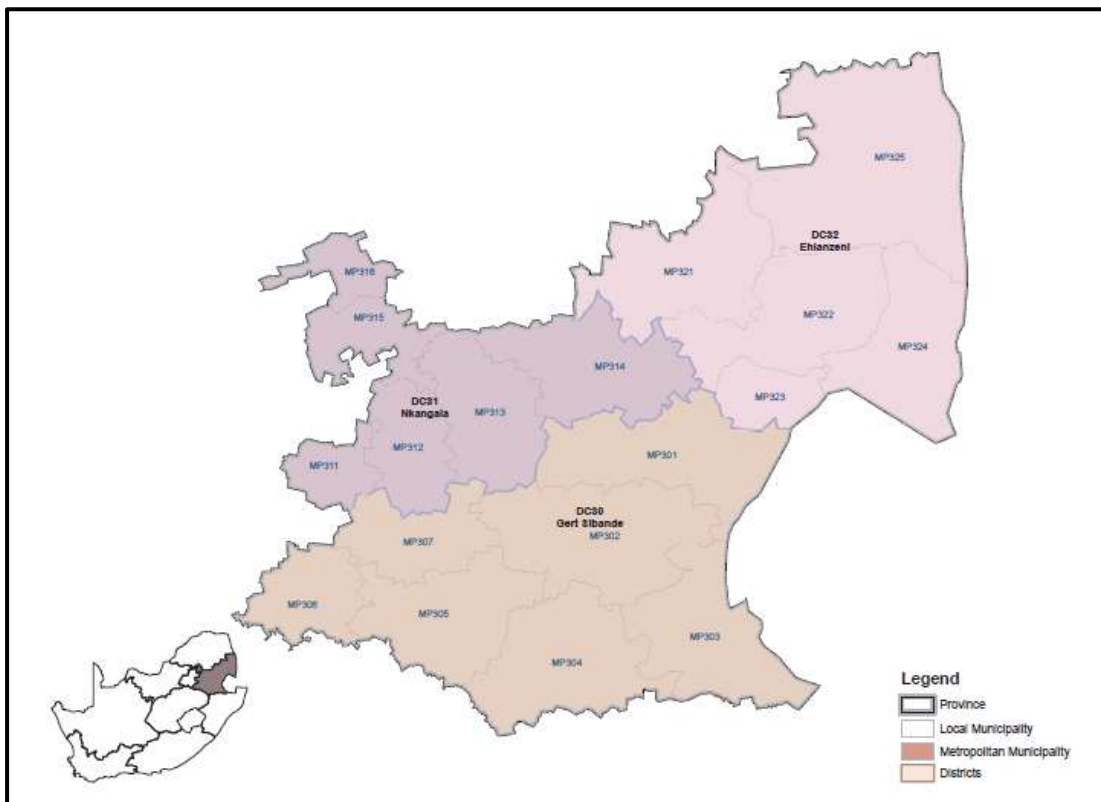


Table 2: District hospitals in Mpumalanga Province: Location by District and local municipality

District Name	Sub-district	Hospital	Usable hospital Beds
Gert Sibande – DC30	Albert Luthuli	Carolina Hospital	79
		Embhuleni Hospital	189
	Govan Mbeki	Bethal Hospital	187
		Evander Hospital	112
	Lekwa	Standerton Hospital	171
	Mkhondo	Piet Retief Hospital	171
	Pixley Ka Seme	Amajuba Memorial Hospital	95
		Elsie Ballot Hospital	22
Nkangala- DC 31	Delmas	Bernice Samuels Hospital	29
	Dr. JS Moroka	Mmamethhake Hospital	60
	Emakhazeni	HA Grove Hospital	12
		Waterval Boven Hospital	12
	Emalahleni	Impungwe Hospital (Wolwekrans)	66
	Steven Tshwete	Middelburg Hospital	218
	Thembisile	KwaMhlanga Hospital	148
Ehlanzeni –DC 32	Bushbuckridge	Matikwana Hospital	178
		Tintswalo Hospital	329
	Barberton	Barberton Hospital	155
	Thaba Chweu	Lydenburg Hospital	90
		Sabie Hospital	83
		Matibidi Hospital	50
	Nkomazi	Shongwe Hospital	183
		Tonga Hospital	143

A Gert Sibande – DC30

Gert Sibande District had a population of approximately 943,137 people in 2010. It has 8 district hospitals, 56 clinics, 16 CHCs (Community Health Centres), 24 mobile services, 1 regional hospital and 1 specialised hospital.

1. *Carolina Hospital*

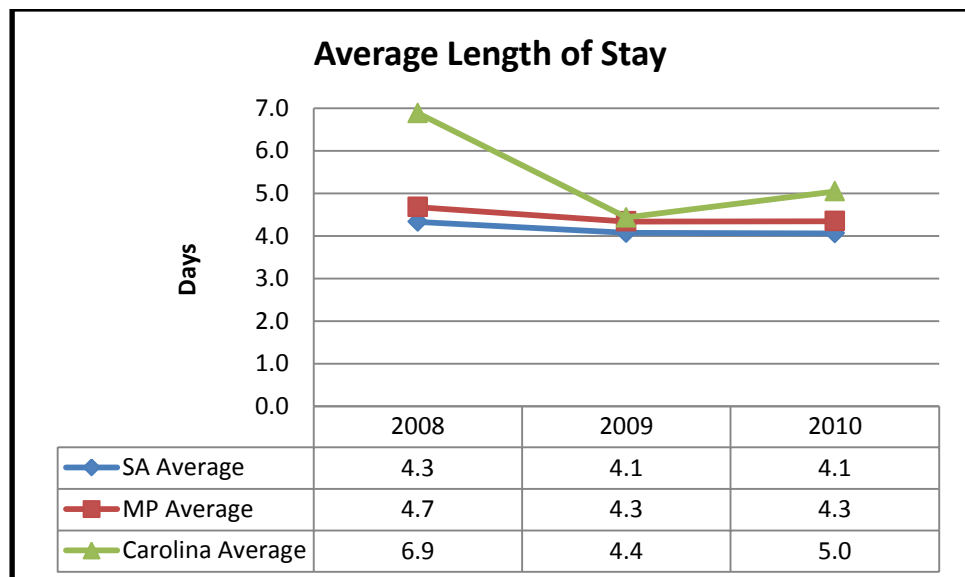
i: **Description**

Carolina District Hospital has 79 beds and lies in the Albert Luthuli sub-district.

ii: **Input and process indicators**

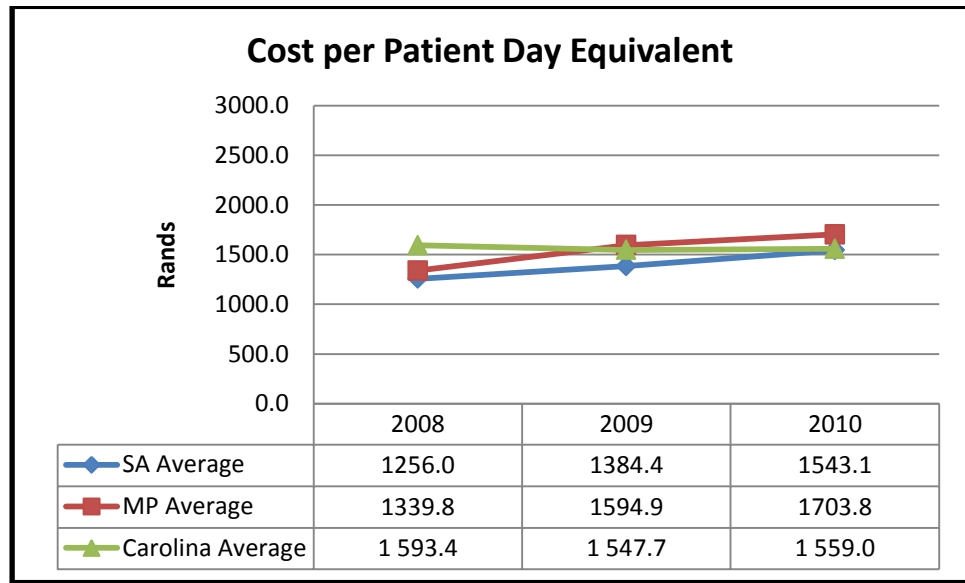
1. **Average length of stay (ALOS) – the average length of time inpatients spend in hospital**

The ALOS decreased sharply between 2008 and 2009 (a 43% decrease), before increasing again in 2010. It was higher than the national and provincial averages throughout the reporting period.



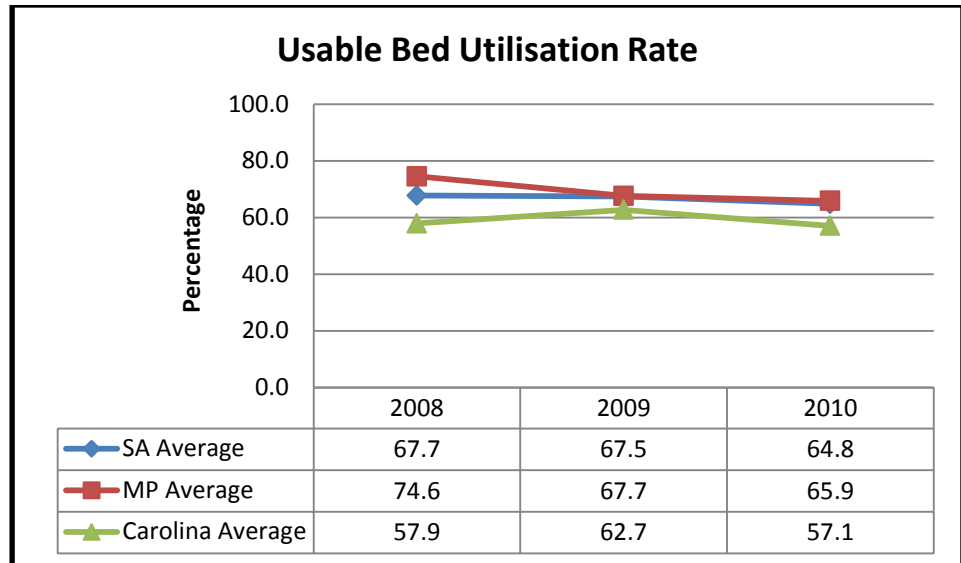
2. Cost per patient day equivalent (CpPDE): measure of efficiency in the hospital

The CpPDE declined marginally between 2008 and 2010. The 2010 value (R1559) was in line with the national average and both were lower than the provincial average.



3. Usable bed utilisation rate (BUR): measures occupancy of beds which are available for use

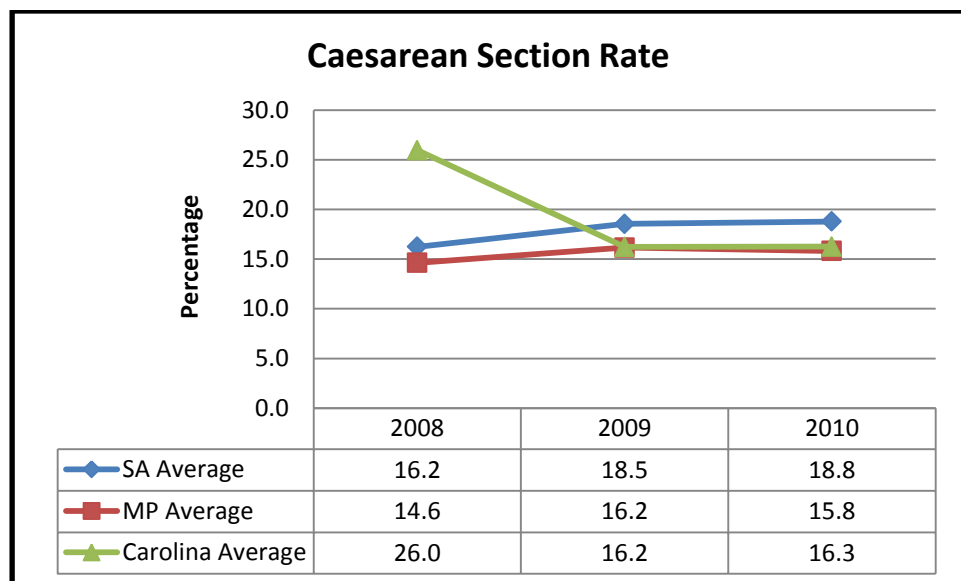
The BUR increased to 63% in 2009 before decreasing to its previous (2008) level in 2010. It was lower than the national and provincial averages throughout the reporting period. The reasons for the low BUR should be ascertained.



iii: Outcome indicators

Caesarean section (CS) rate: proportion of deliveries for which a CS is performed

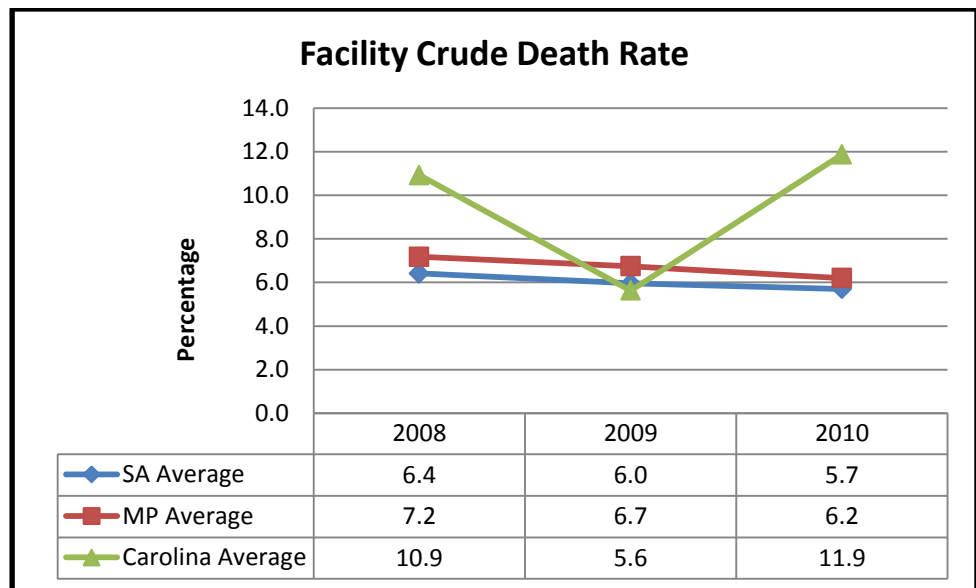
The CS rate decreased sharply between 2008 and 2009 and remained unchanged in 2010. It was in line with the provincial averages in 2009 and 2010, but was lower than the national averages throughout the reporting period.



iv: Impact indicators

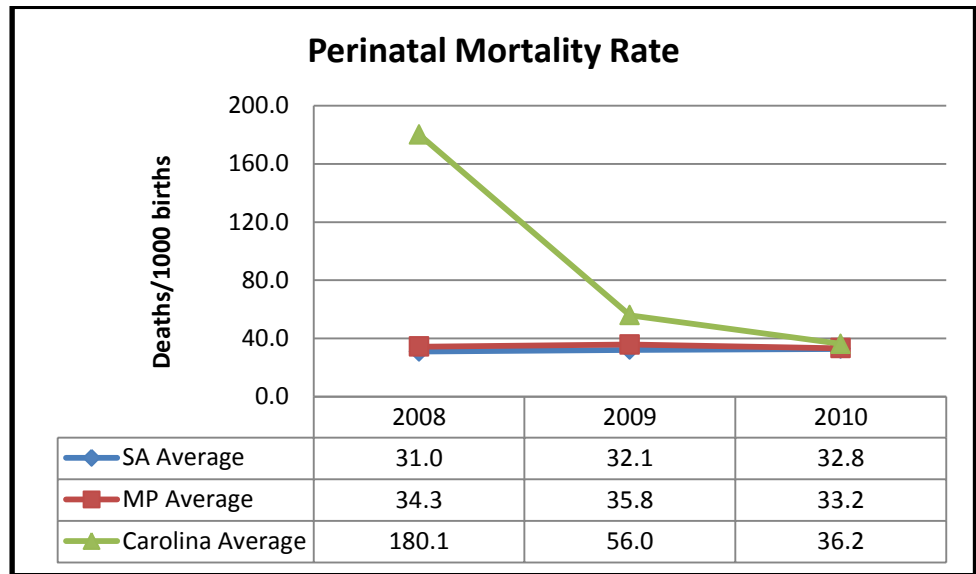
1. Facility crude death rate (FCDR): proportion of all inpatient separations that are deaths

The FCDR fluctuated, declining to a low rate in 2009 before increasing again in 2010. It was significantly higher than the national and provincial averages except in 2009 and 2010. These data should be reviewed and the reasons for the fluctuation observed and the high FCDR ascertained.



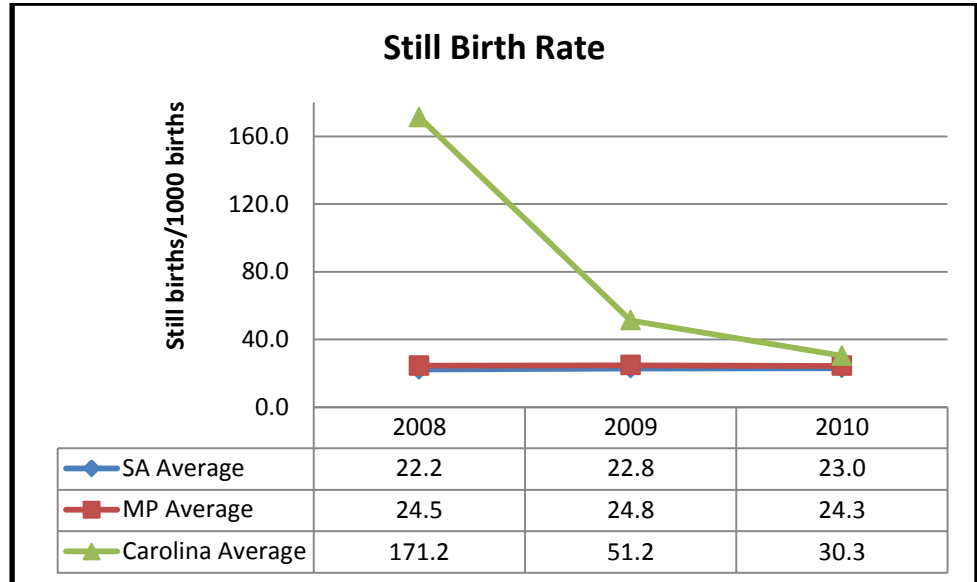
2. Perinatal mortality rate (PNMR) – the sum of still births + those babies dying within 7 days of life/1000 births

The PNMR decreased significantly over the reporting period. The 2010 rate was closer to the national and province should be reviewed and the reasons for the extremely high rate in 2008 ascertained.



3. Still birth rate (SBR): number of babies born dead/1000 births

Similar to the PNMR, the SBR decreased significantly over the reporting period and was closer to the national and provincial averages in 2010.



v: Conclusions

The reasons for the high ALOS and the low BUR should be ascertained. The FCDR data should be reviewed and the reasons for the fluctuation and the high rates observed ascertained. The PNMR and SBR data should also be reviewed to ascertain the reasons for the extremely high rates observed in 2008 and to exclude data error.

2. *Embhuleni Hospital*

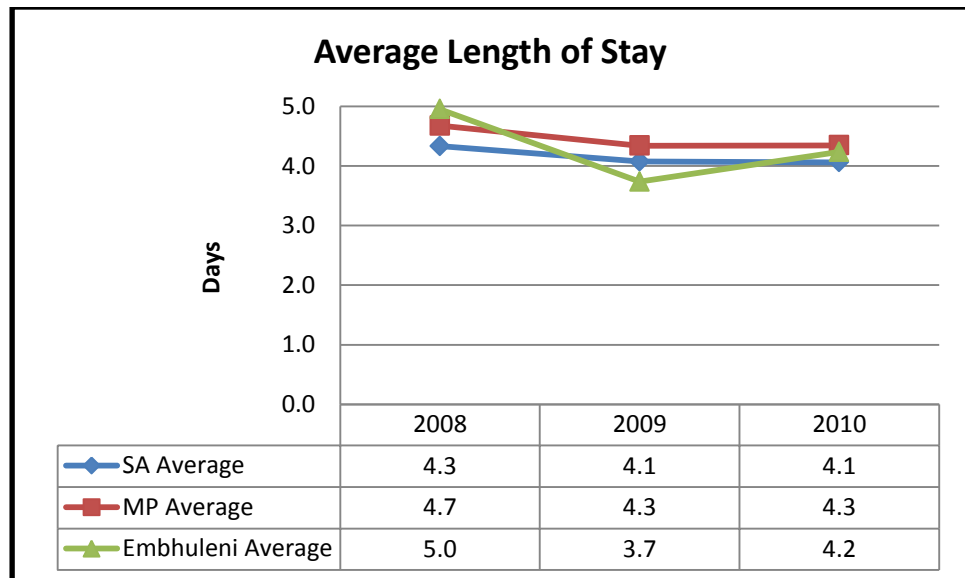
i: **Description**

Embhuleni District Hospital has 189 beds and lies in the Albert Luthuli sub-district.

ii: **Input and process indicators**

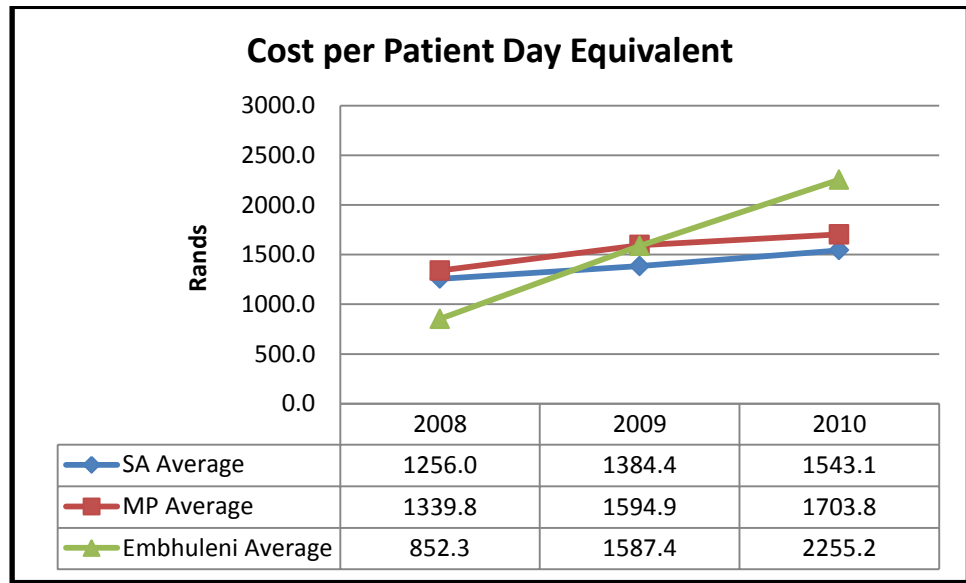
1. **Average length of stay (ALOS) – the average length of time inpatients spend in hospital**

The ALOS decreased to 3.7 days in 2009 before increasing again in 2010, when it was then in line with the national and provincial averages.



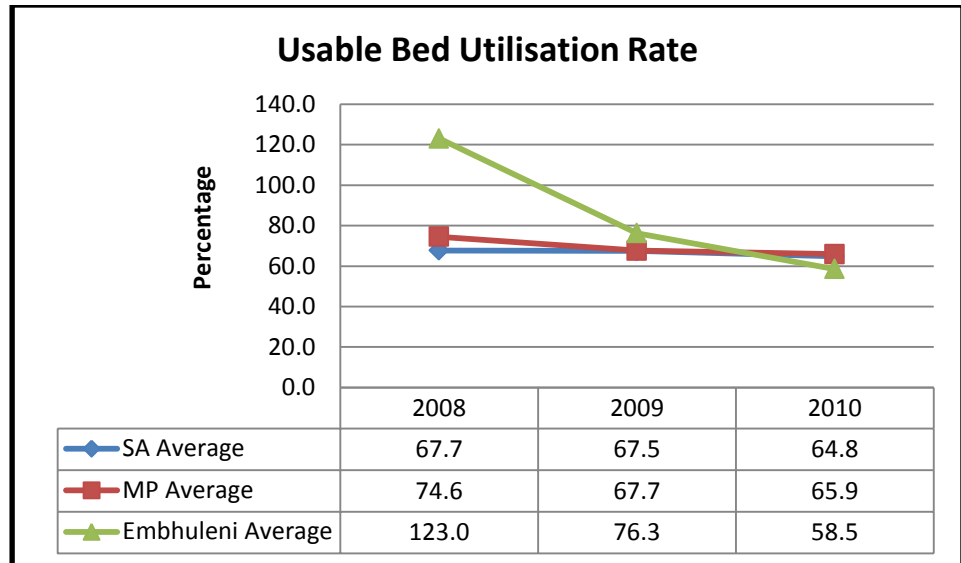
2. Cost per patient day equivalent (CpPDE): measure of efficiency in the hospital

The CpPDE increased significantly (2.6 times) over the reporting period. It was significantly higher than both the national and provincial averages in 2010. The reasons for this rapid large increase should be ascertained.



3. Usable bed utilisation rate (BUR): measures occupancy of beds which are available for use

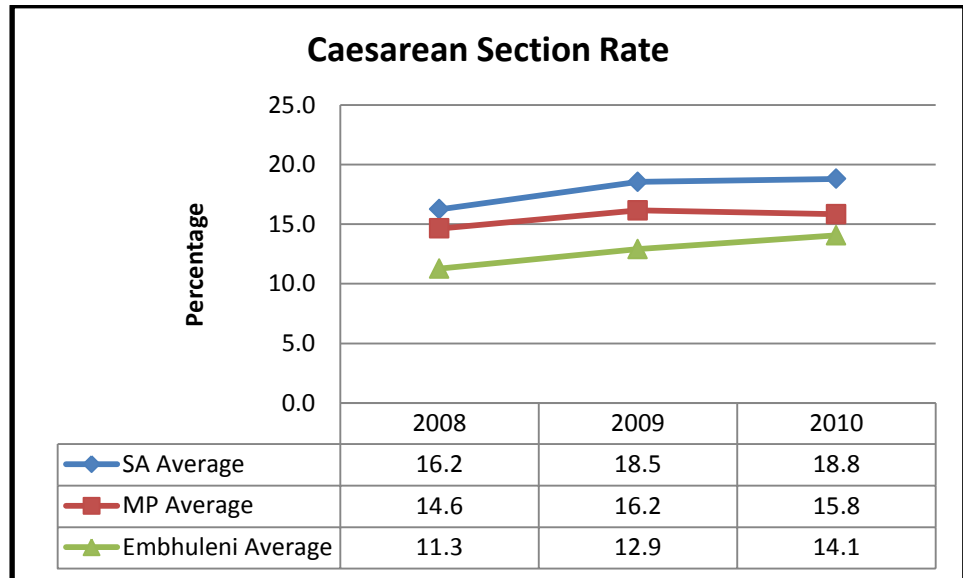
The BUR decreased steadily over the reporting period (a decline of 52%), and was lower than the national and provincial averages in 2010. These data should be reviewed to ascertain the reasons for the very high rate in 2008.



iii: Outcomes indicators

Caesarean section (CS) rate: proportion of deliveries for which a CS is performed

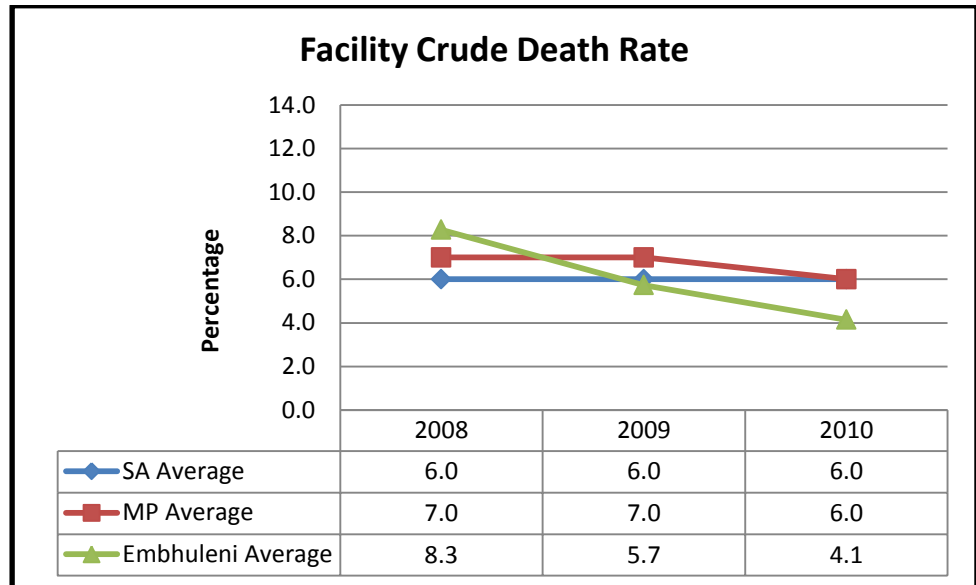
The CS rate increased steadily over the reporting period. It was lower than the national and provincial averages throughout this period.



iv: Impact indicators

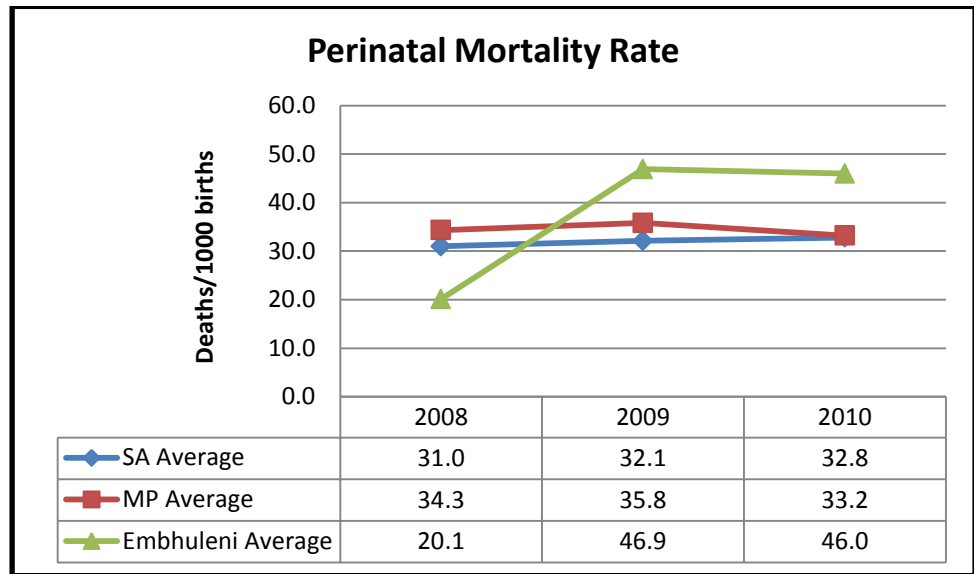
1. Facility crude death rate (FCDR): proportion of all inpatient separations that are deaths

The FCDR decreased significantly over the reporting period and was lower than the national and provincial averages in 2010.



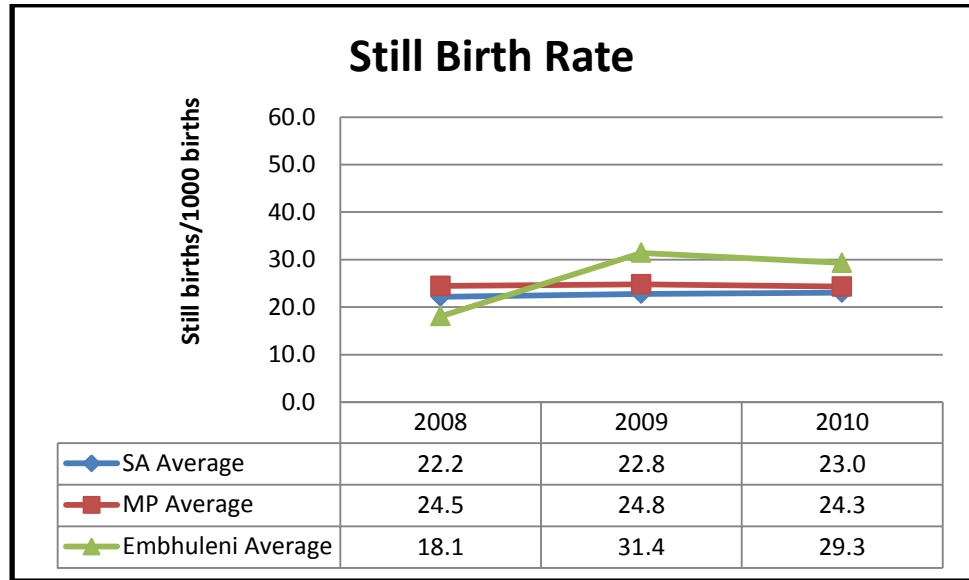
2. Perinatal mortality rate (PNMR) – the sum of still births + those babies dying within 7 days of life/1000 births

The PNMR increased significantly between 2008 and 2010. It was higher than the national and provincial averages in 2009 and 2010. The reasons for the increase in the rate should be ascertained.



3. Still birth rate (SBR): number of babies born dead/1000 births

The SBR increased significantly between 2008 and 2009, and then decreased slightly in 2010. It was higher than the national and provincial averages in 2009 and 2010. The reasons for this should be ascertained.



v: **Conclusions:**

The input and process indicators (the high CpPDE and low BUR) point to inefficiency at this hospital; the reasons for the rates observed should be ascertained. The high PNMR and SBR in 2009 and 2010 are concerning and the reasons for this should also be ascertained.

3. Bethal Hospital

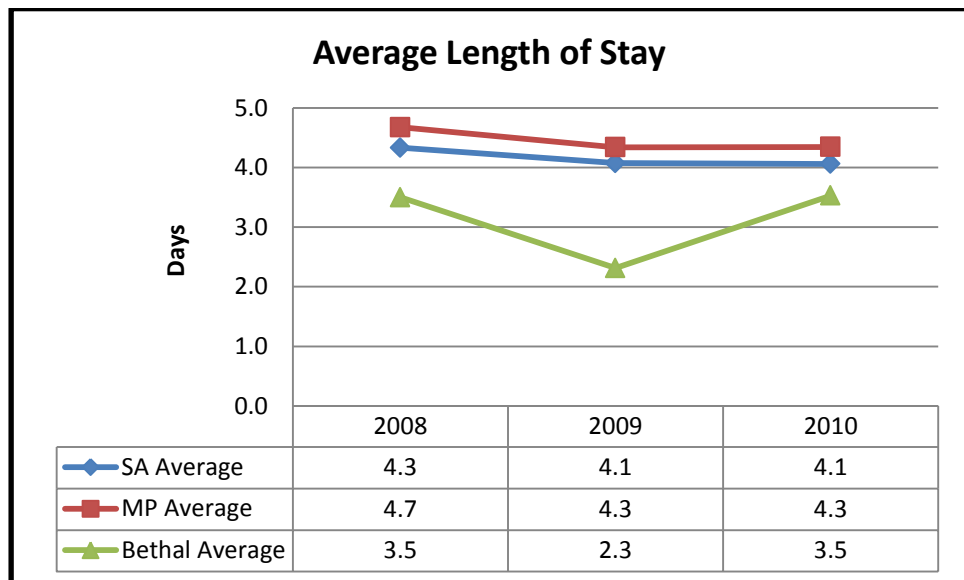
i: Description

Bethal District Hospital has 187 beds and lies in the Govan Mbeki sub-district.

ii: Input and process indicators

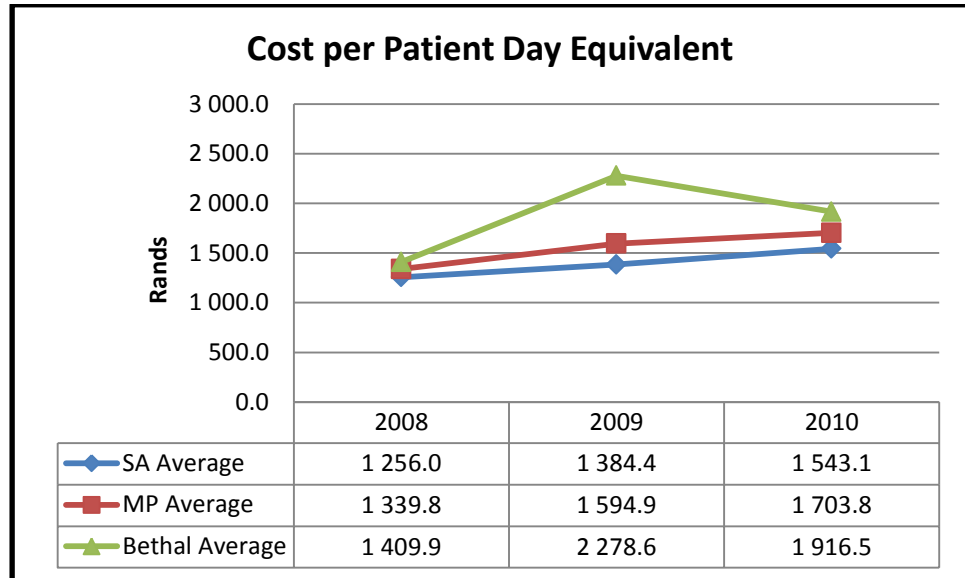
1. Average length of stay (ALOS) – the average length of time inpatients spend in hospital

The ALOS declined between 2008 and 2009 before increasing in 2010. It was lower than the national and provincial averages throughout the reporting period.



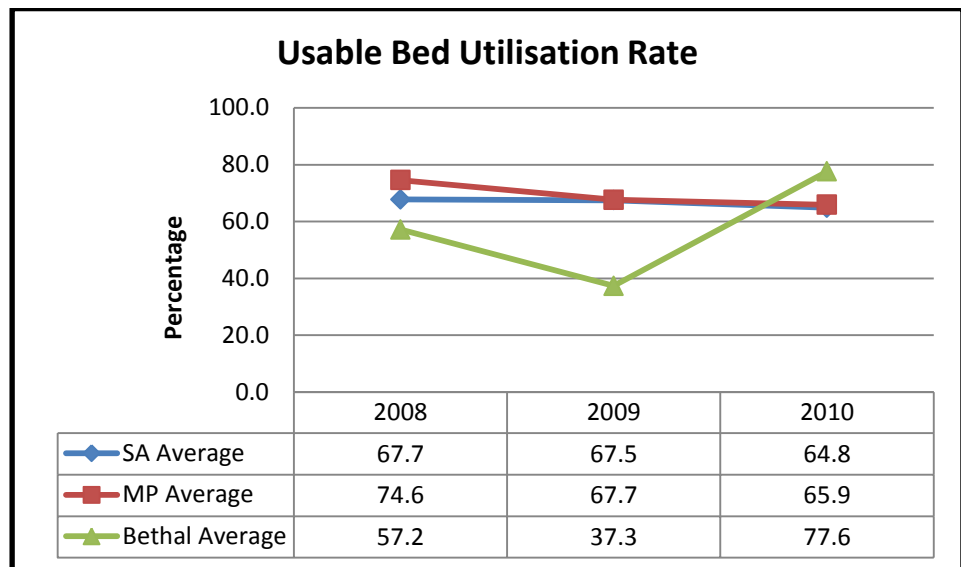
2. Cost per patient day equivalent (CpPDE): measure of efficiency in the hospital

The CpPDE increased significantly between 2008 and 2009 and then declined slightly in 2010. It was higher than the national and provincial averages throughout the reporting period.



3. Usable bed utilisation rate (BUR): measures occupancy of beds which are available for use

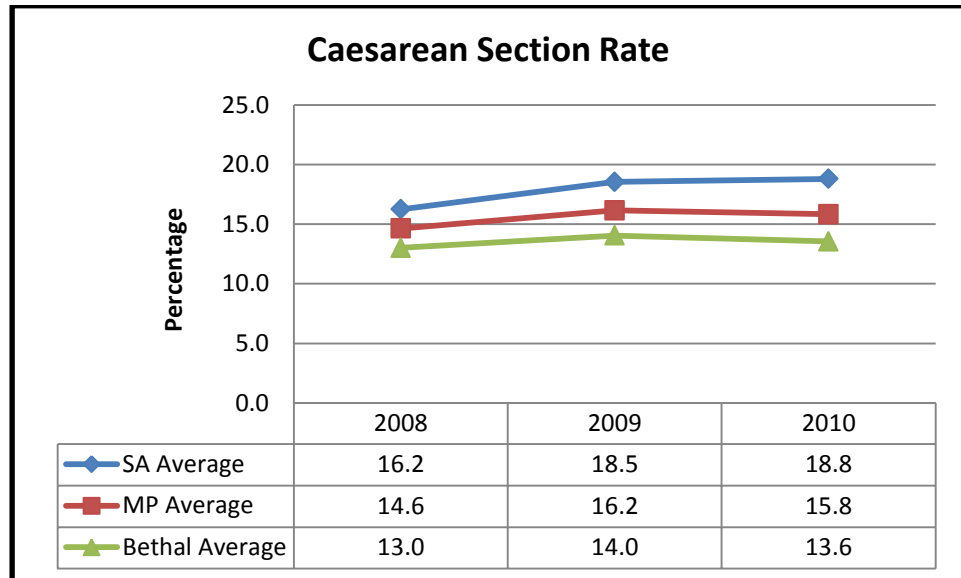
The BUR fluctuated significantly, decreasing to a very low rate in 2009 and then increasing in 2010. It was higher than the national and provincial averages in 2010. These data should be reviewed to ascertain the reasons for the fluctuation observed and the true rates for the hospital.



iii: Outcome indicators

Caesarean section (CS) rate: proportion of deliveries for which a CS is performed

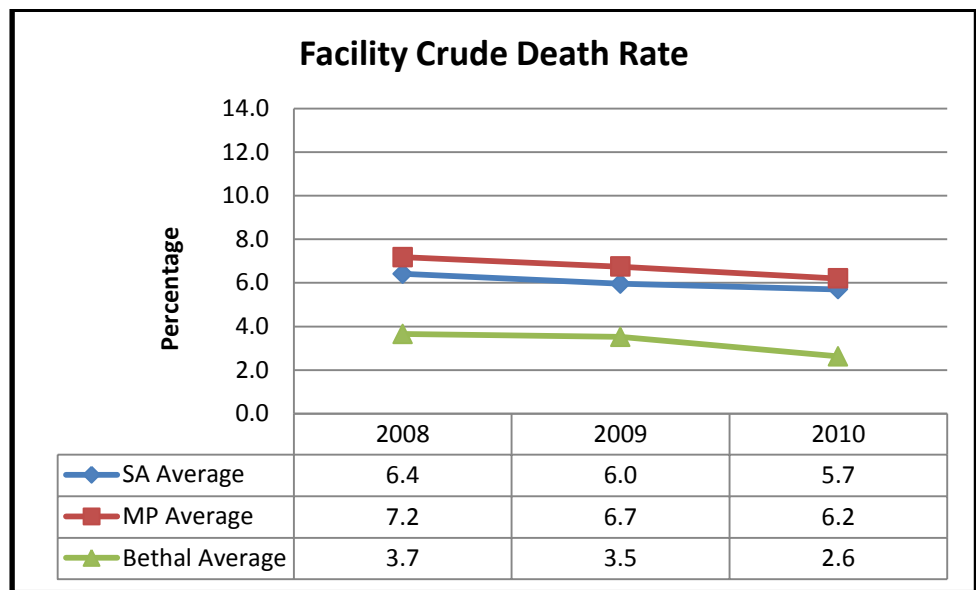
The CS rate was relatively constant over the reporting period and was lower than the national and provincial averages.



iv: Impact indicators

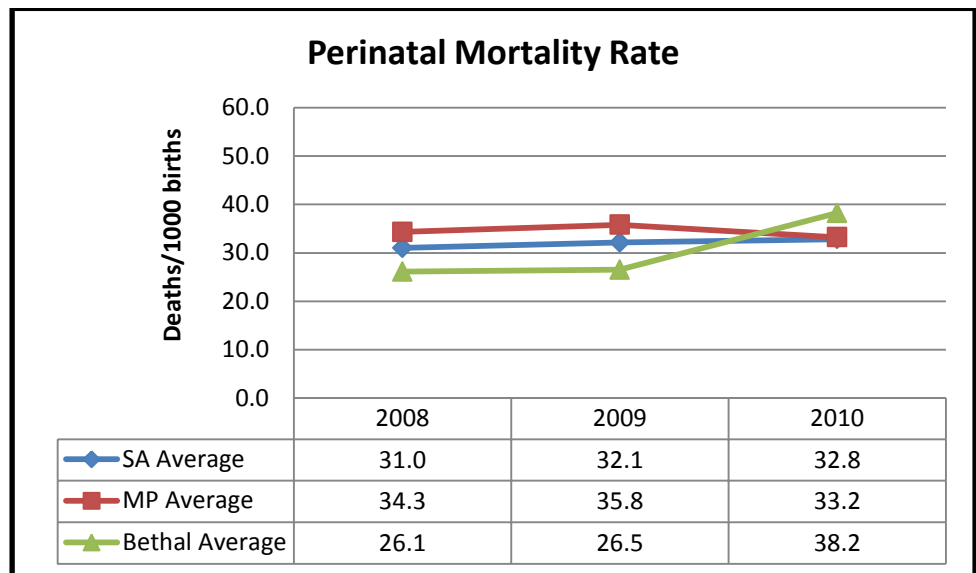
1. Facility crude death rate (FCDR): proportion of all inpatient separations that are deaths

The FCDR declined over the reporting period reaching a level of 2.6% in 2010. It was well below the national and provincial averages throughout the reporting period



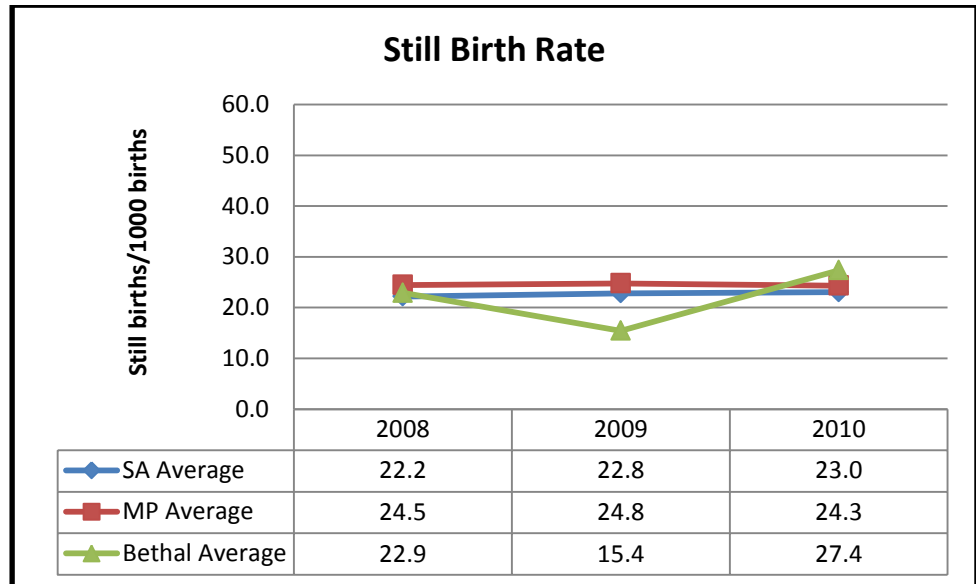
2. Perinatal mortality rate (PNMR) – the sum of still births + those babies dying within 7 days of life/1000 births

The PNMR was unchanged between 2008 and 2009 and increased to 38/1000 births in 2010, when it was then higher than the national and provincial averages.



3. Still birth rate (SBR): number of babies born dead/1000 births

The SBR fluctuated over the reporting period, decreasing between 2008 and 2009 and then increasing in 2010. The 2010 rate was higher than the national and provincial averages in the same year.



v: Conclusions

The reasons for the low ALOS and the high CpPDE should be ascertained. The BUR data should be reviewed to ascertain the reasons for the fluctuation observed and the true rates for the hospital. The high PNMR and SBR also require investigation.

4. *Evander Hospital*

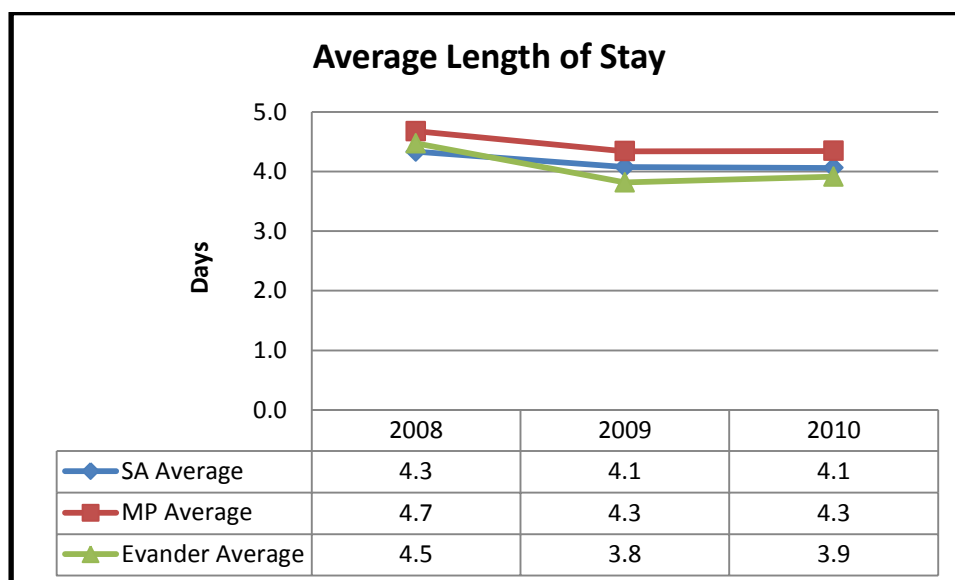
i: Description

Evander District Hospital has 112 beds and lies in the Govan Mbeki sub-district.

ii: Input and process indicators

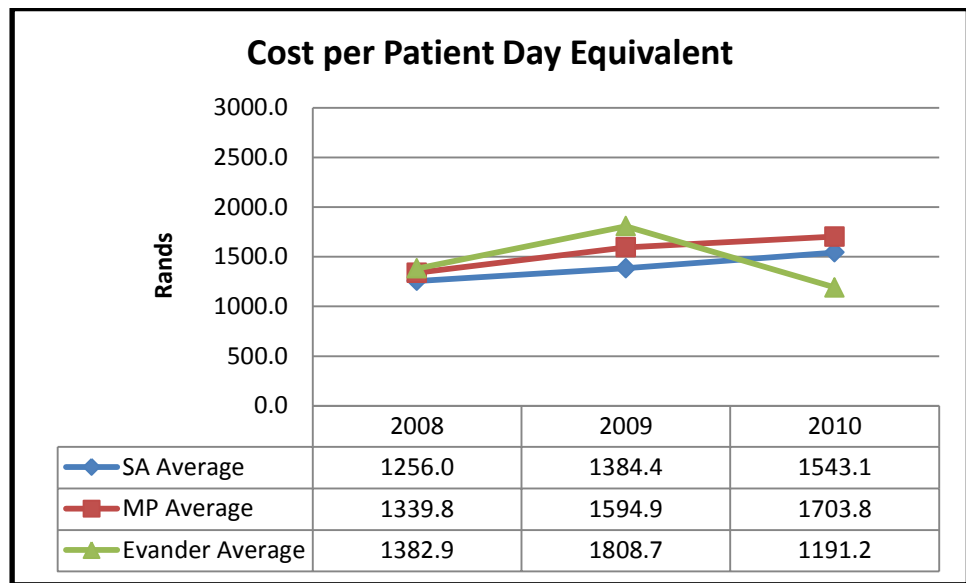
1. Average length of stay (ALOS) – the average length of time inpatients spend in hospital

The ALOS decreased between 2008 and 2009 and was unchanged in 2010. It was lower than the national and provincial averages in 2009 and 2010.



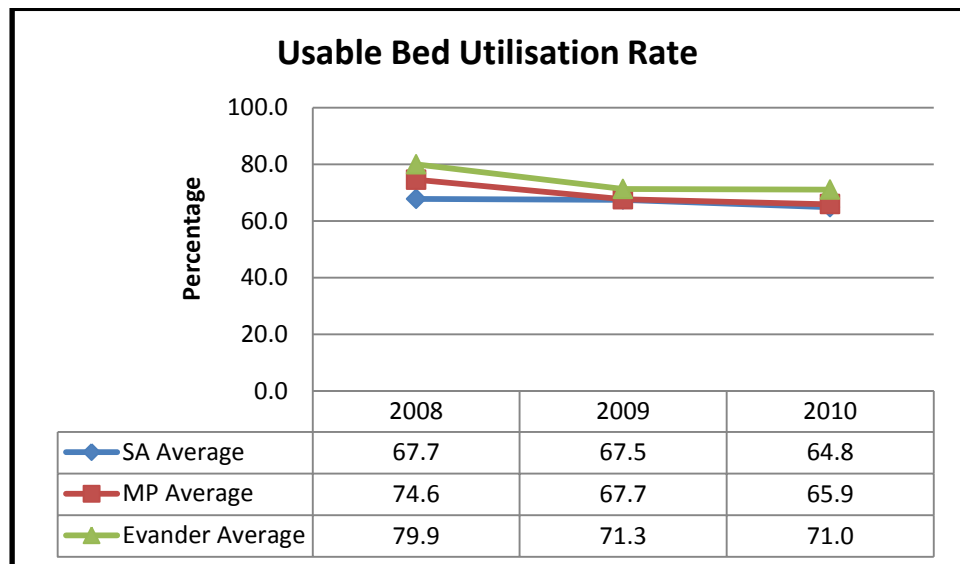
2. Cost per patient day equivalent (CpPDE): measure of efficiency in the hospital

The CpPDE fluctuated, increasing between 2008 and 2009 and then decreasing sharply in 2010, when it was then much lower than the national and provincial averages. The data should be reviewed to ascertain the reasons for the fluctuation and the true rates for the hospital.



3. Usable bed utilisation rate (BUR): measures occupancy of beds which are available for use

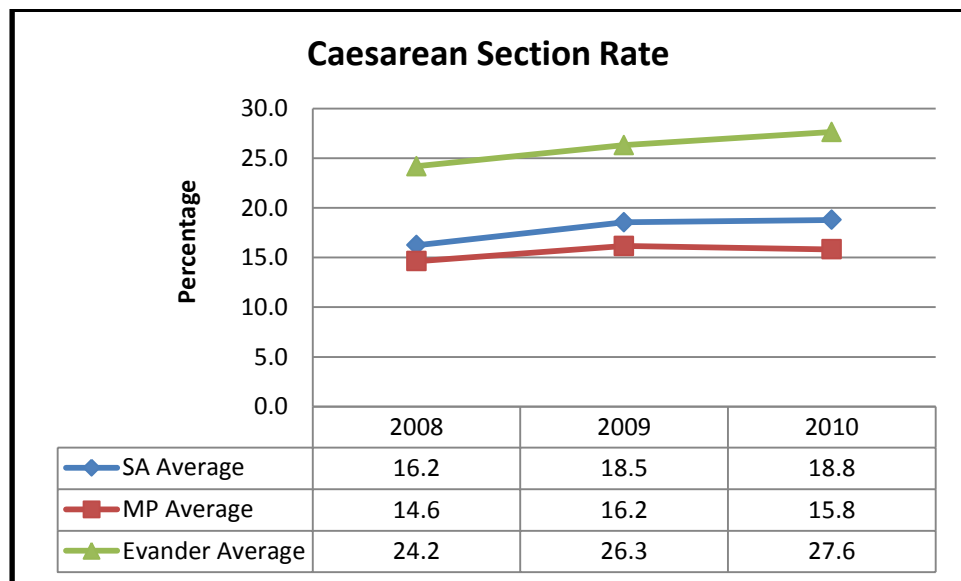
The BUR decreased between 2008 and 2009 and was unchanged in 2010. It was higher than the national and provincial averages throughout the reporting period.



iii: Outcomes indicators

Caesarean section (CS) rate: proportion of deliveries for which a CS is performed

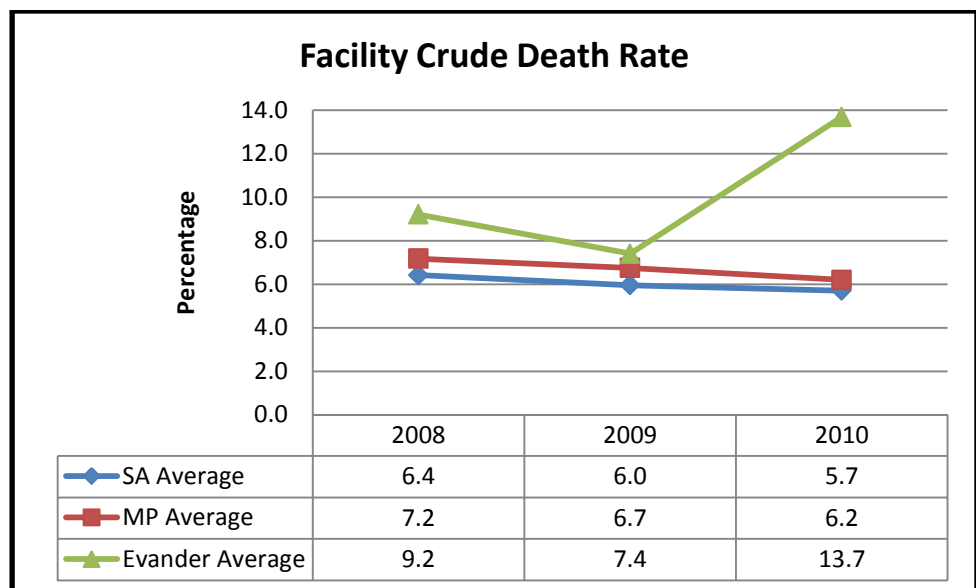
The CS rate increased slightly over the reporting period. It was significantly higher than the national and provincial averages throughout this period. The reasons for the high rates should be ascertained.



iv: Impact Indicators

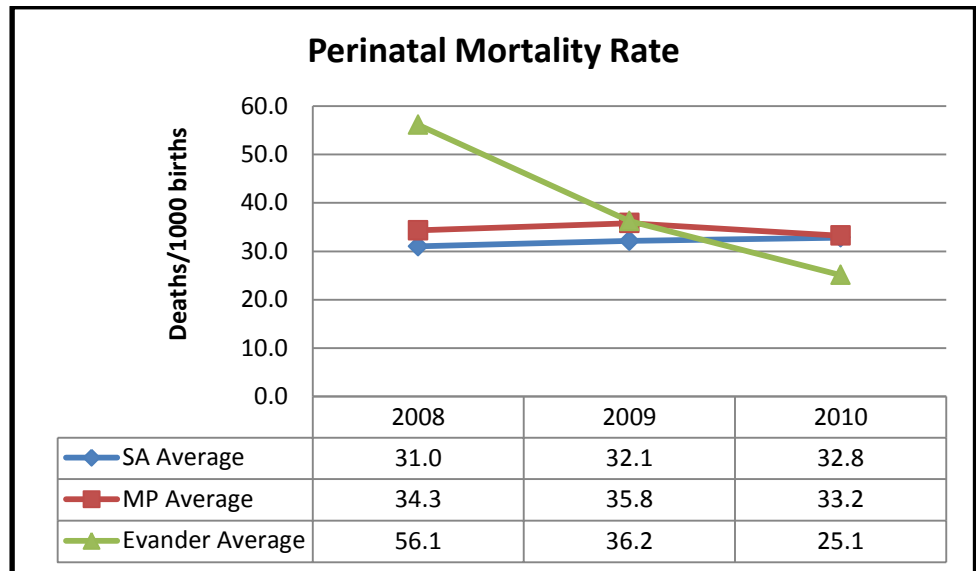
1. Facility crude death rate (FCDR): proportion of all inpatient separations that are deaths

The FCDR fluctuated, decreasing between 2008 and 2009 and then increasing sharply to 14% in 2010. The 2010 rate was much higher than the national and provincial averages. The reasons for this should be ascertained.



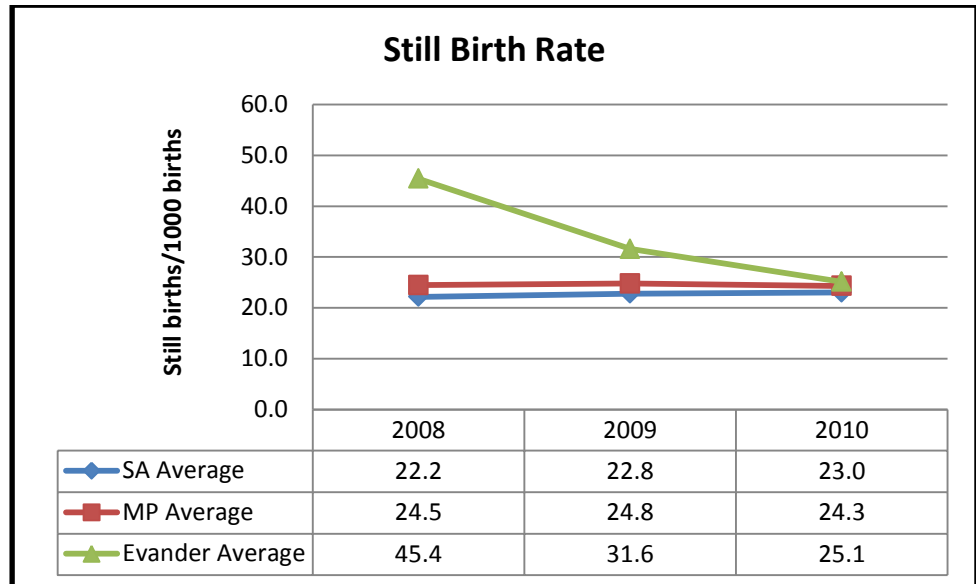
2. Perinatal mortality rate (PNMR) – the sum of still births + those babies dying within 7 days of life/1000 births

The PNMR decreased significantly between 2008 and 2010. It was well below the national and provincial averages in 2010.



3. Still birth rate (SBR): number of babies born dead/1000 births

The SBR decreased significantly over the reporting period. It was in line with national and provincial averages in 2010.



v: **Conclusion:**

The CpPDE data should be reviewed to ascertain the reasons for the fluctuation observed and the true rates for the hospital. The reasons for the high CS rate and the high FCDR should also be ascertained as should the changes in the SBR and PNMR.

5. *Standerton Hospital*

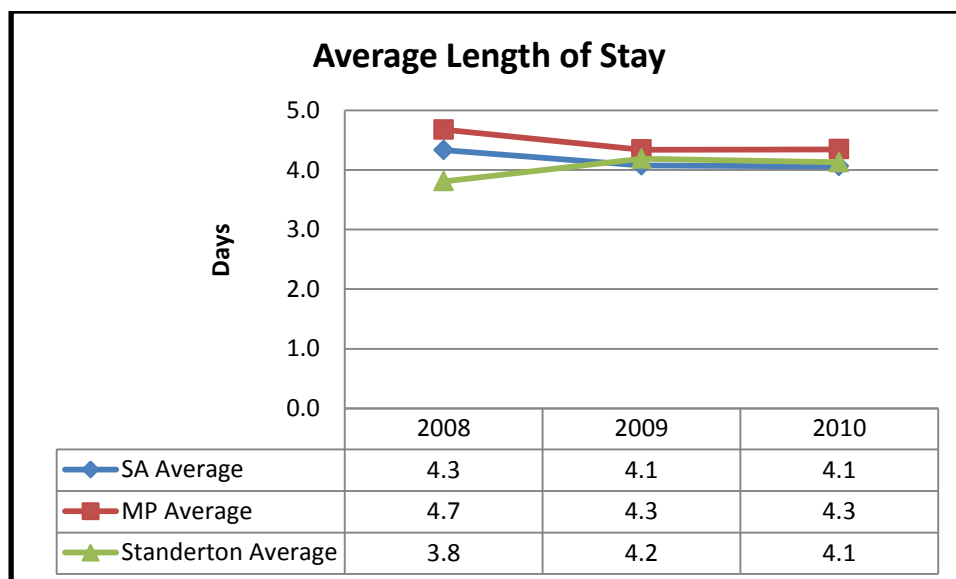
i: **Description**

Standerton District Hospital has 171 beds and lies in the Lekwa sub-district.

ii: **Input and process indicators**

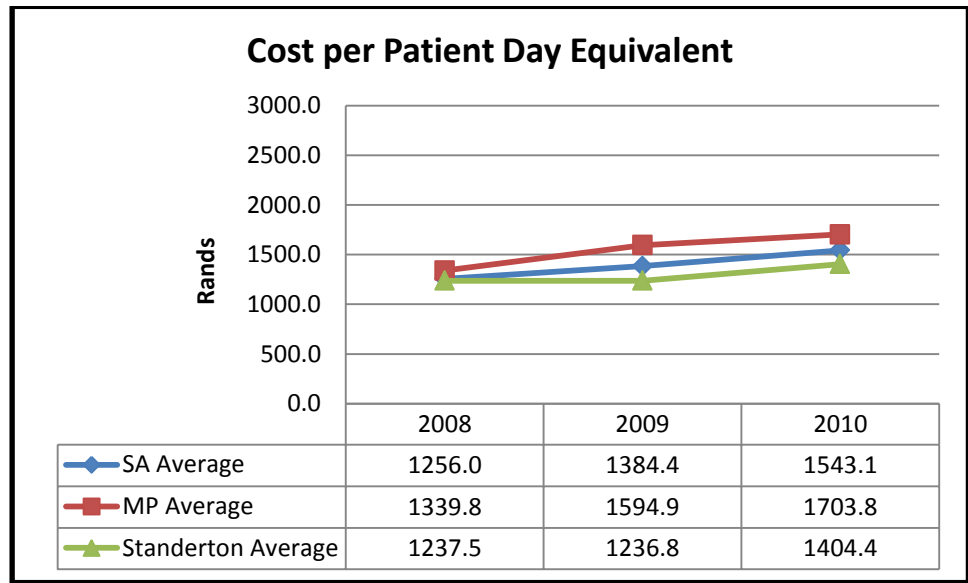
1. **Average length of stay (ALOS) – the average length of time inpatients spend in hospital**

The ALOS increased to 4.2 days in 2008 and was unchanged in 2010. It was in line with the national and provincial averages in 2009 and 2010.



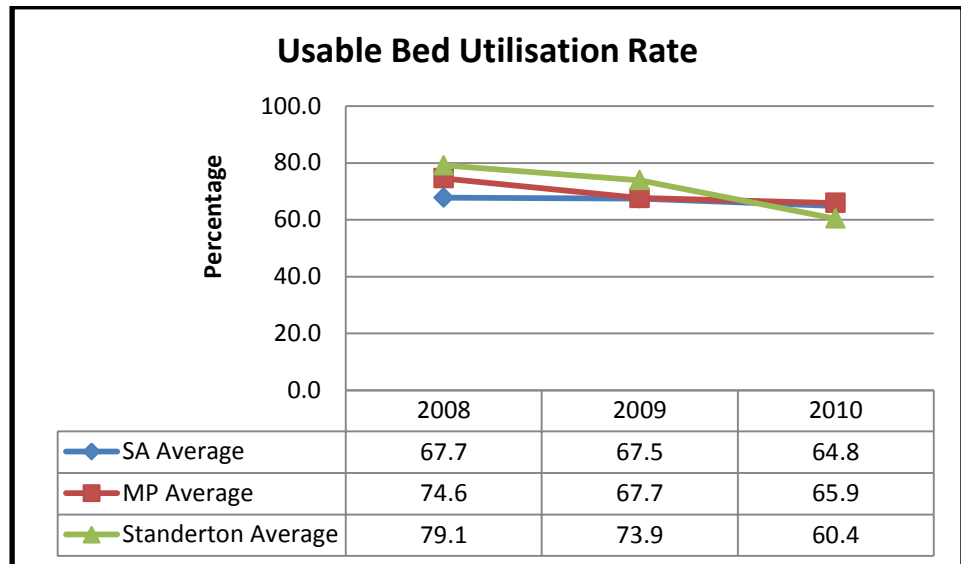
2. Cost per patient day equivalent (CpPDE): measure of efficiency in the hospital

The CpPDE was constant in 2008 and 2009 and increased to R1404 in 2010. It was lower than the national and provincial averages throughout the reporting period.



3. Usable bed utilisation rate (BUR): measures occupancy of beds which are available for use

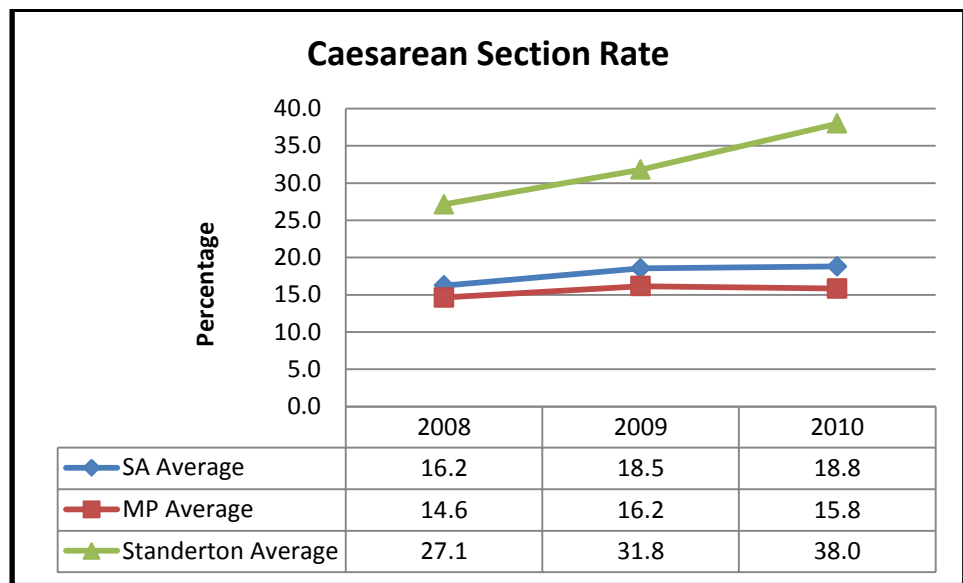
The BUR decreased steadily over the reporting period, and was lower than the national and provincial averages in 2010.



iii: Outcomes indicators

Caesarean section (CS) rate: proportion of deliveries for which a CS is performed

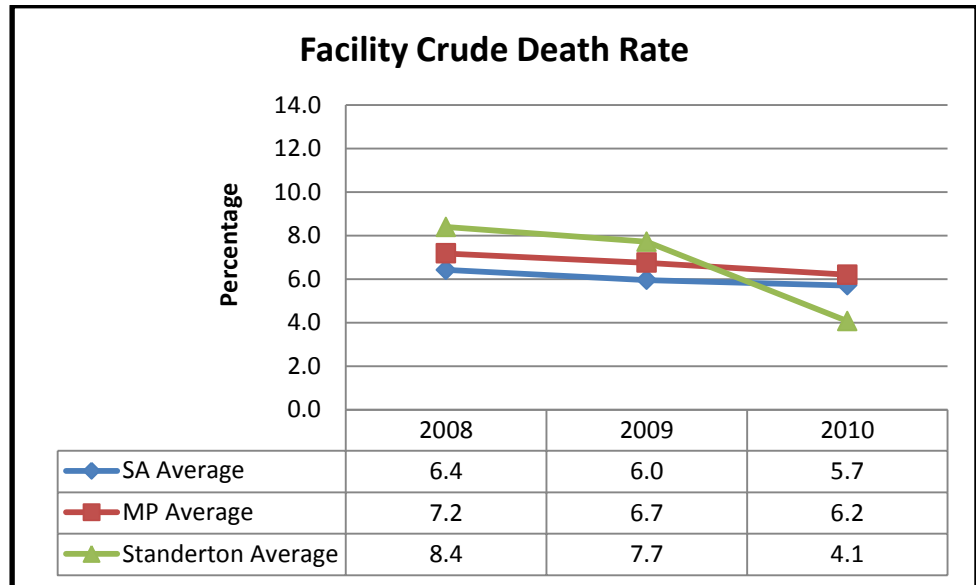
The CS rate was high and increased steadily over the reporting period. It was significantly higher than the national and provincial averages throughout this period.



iv: Impact Indicators

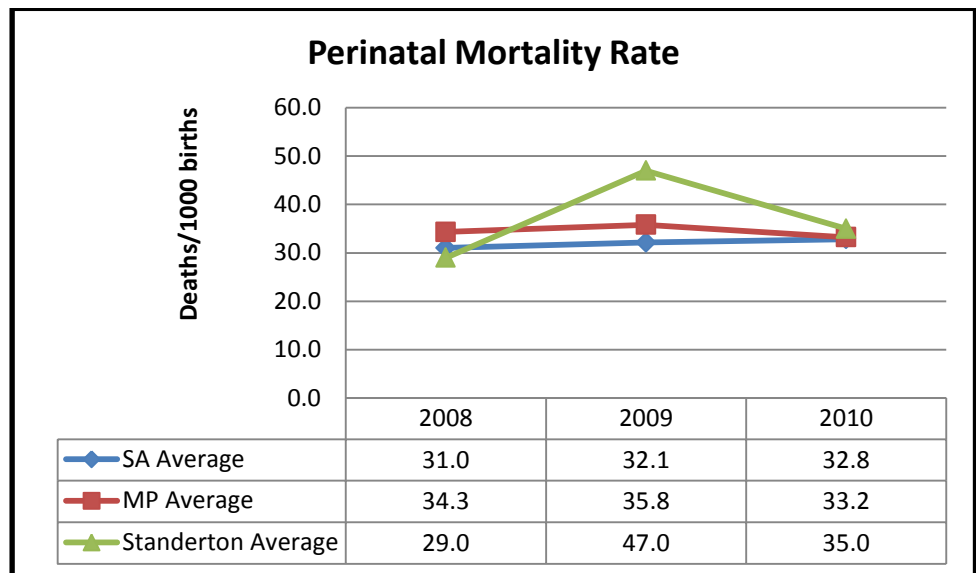
1. Facility crude death rate (FCDR): proportion of all inpatient separations that are deaths

The FCDR decreased significantly between 2008 and 2010, and was much lower than the national and provincial averages in 2010.



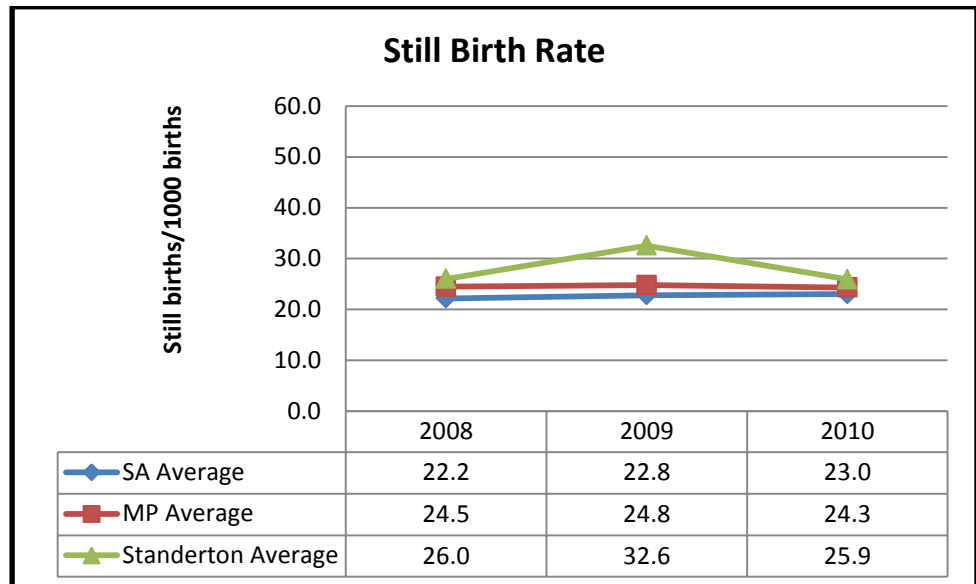
2. Perinatal mortality rate (PNMR) – the sum of still births + those babies dying within 7 days of life/1000 births

The PNMR fluctuated, increasing between 2008 and 2009 and then decreasing in 2010. It was higher than the national and provincial averages in 2009 and 2010.



3. Still birth rate (SBR): number of babies born dead/1000 births

As with the PNMR, the SBR fluctuated, increasing between 2008 and 2009 and then decreasing in 2010. It was higher than the national and provincial averages throughout the reporting period.



v: **Conclusions:**

The reasons for the high CS rate should be ascertained. The PNMR and SBR data should be reviewed to ascertain the reasons for the fluctuations observed and the high rates (higher than the national and provincial averages) in 2010.

6. *Piet Retief Hospital*

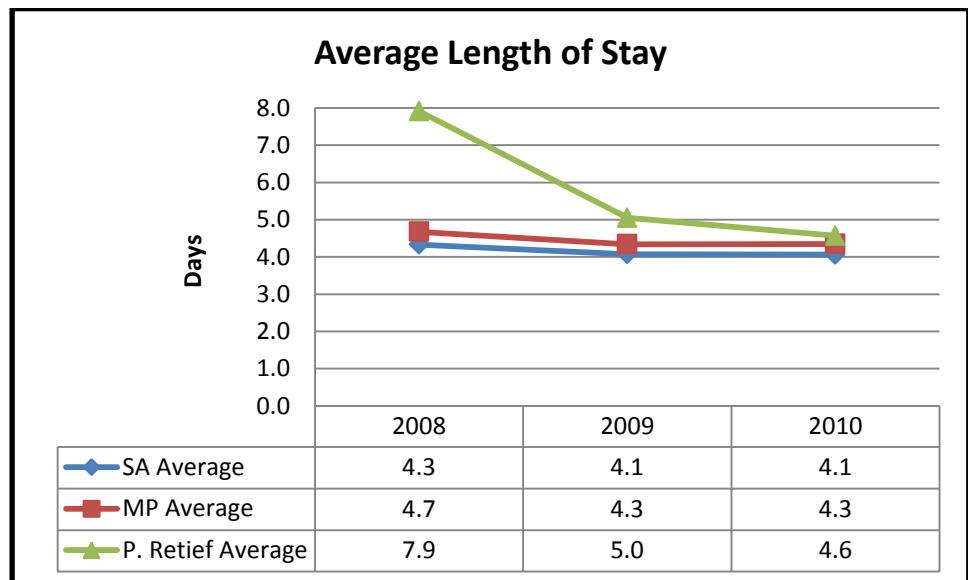
i: Description

Piet Retief District Hospital has 171 beds and lies in the Mkondo sub-district.

ii: Input and process indicators

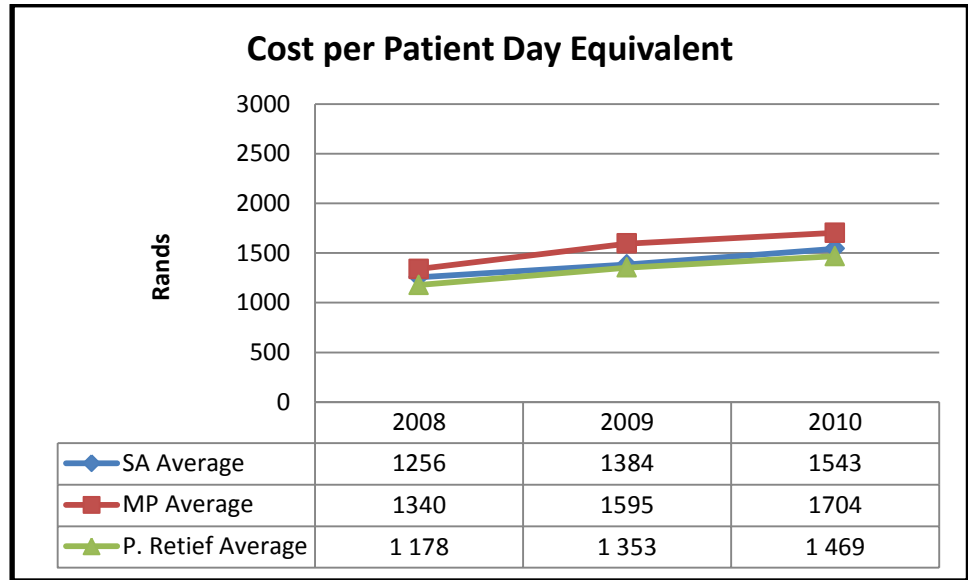
1. Average length of stay (ALOS) – the average length of time inpatients spend in hospital

The ALOS decreased significantly between 2008 and 2009, and with a further marginal decrease in 2010. It is closer to the national and provincial averages in 2010.



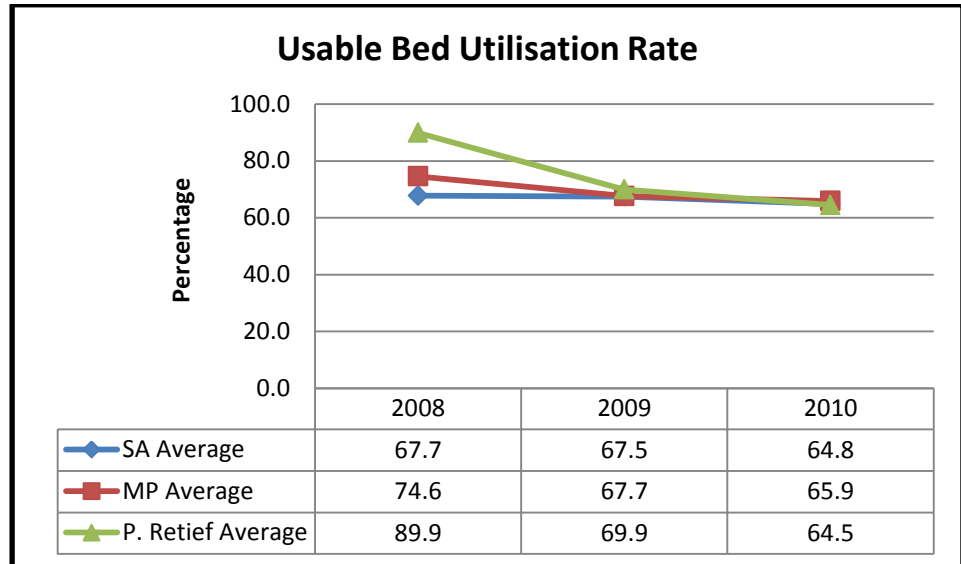
2. Cost per patient day equivalent (CpPDE): measure of efficiency in the hospital

The CpPDE increased over the reporting period. It was lower than the national and provincial averages throughout this period.



3. Usable bed utilisation rate (BUR): measures occupancy of beds which are available for use

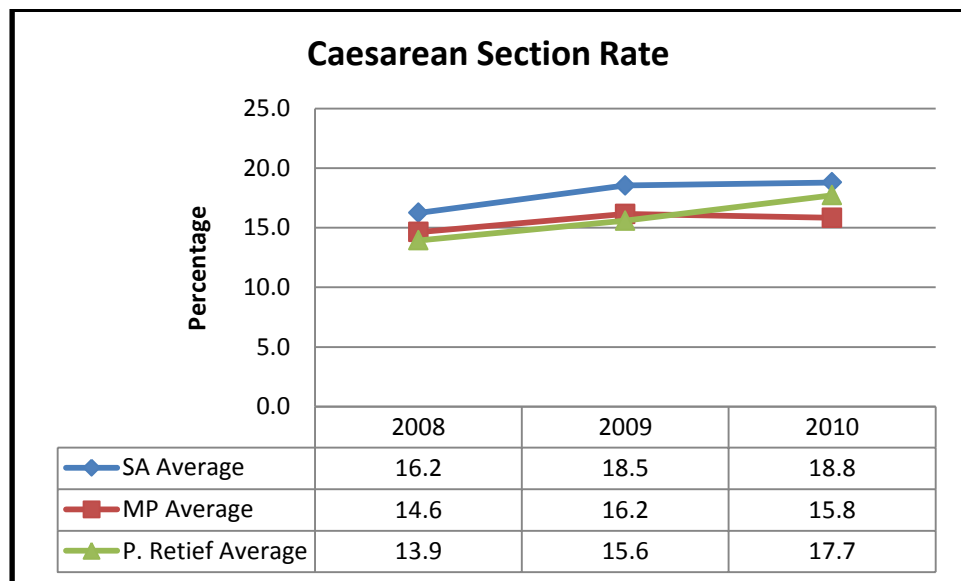
The BUR declined from a high level (90% in 2008) to 64% in 2010, a level in line with the national and provincial averages.



iii: Outcomes indicators

Caesarean section (CS) rate: proportion of deliveries for which a CS is performed

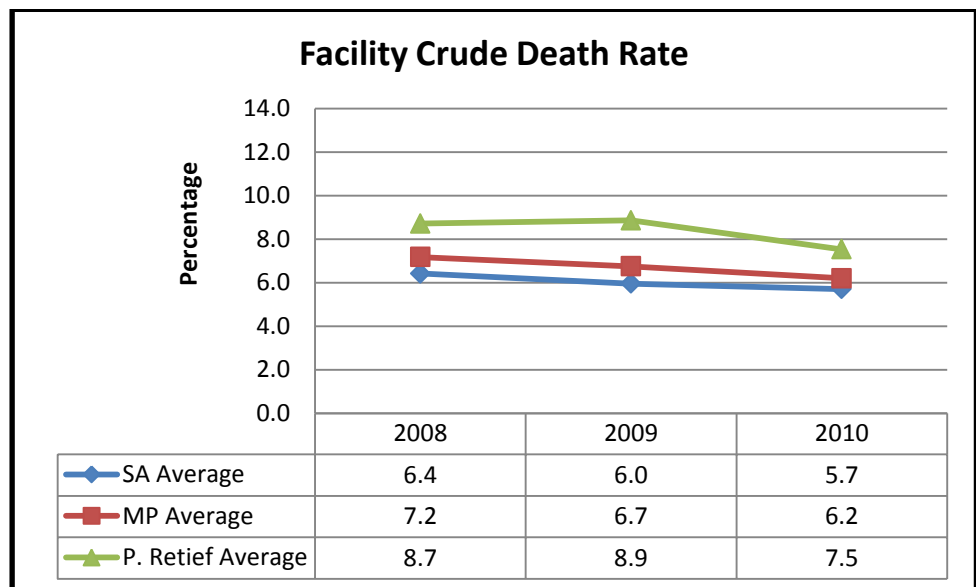
The CS rate increased steadily over the reporting period. It was higher than the provincial average in 2010, and was lower than the national average throughout the reporting period.



iv: Impact Indicators

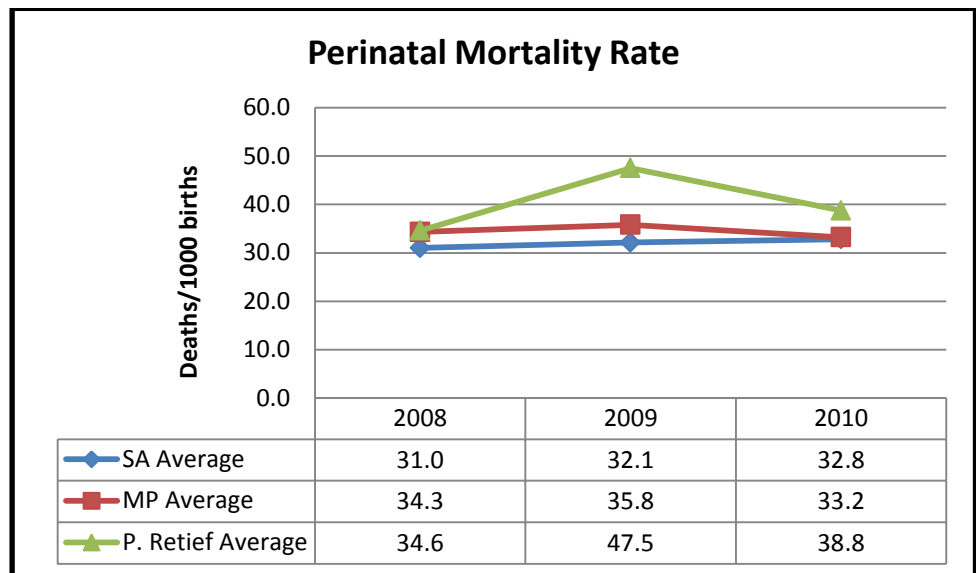
1. Facility crude death rate (FCDR): proportion of all inpatient separations that are deaths

The FCDR was relatively constant in 2008 and 2009, and declined in 2010. It was higher than the national and provincial averages throughout the reporting period.



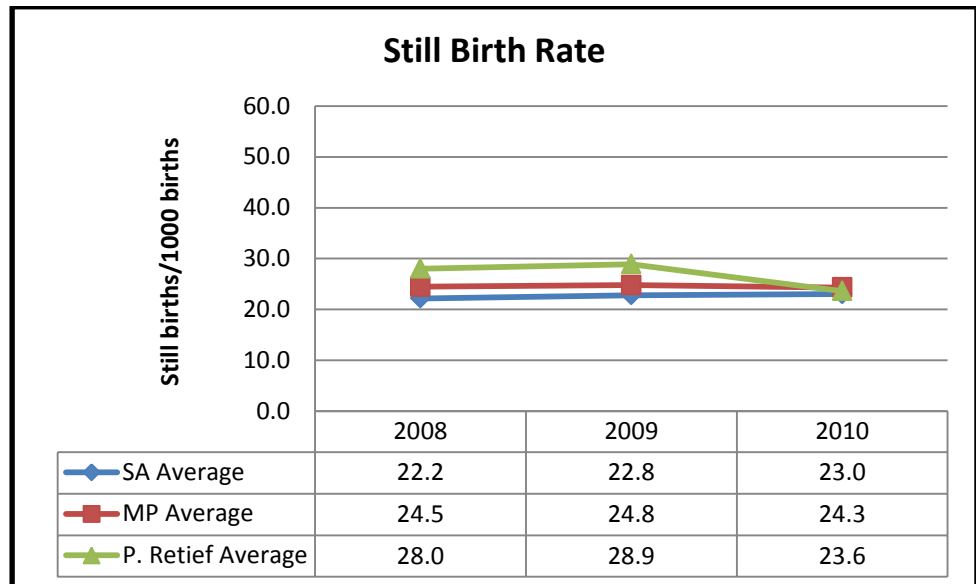
2. Perinatal mortality rate (PNMR) – the sum of still births + those babies dying within 7 days of life/1000 births

The PNMR fluctuated, increasing to a high level in 2009 and then decreasing in 2010. It was higher than the national and provincial averages throughout the reporting period.



3. Still birth rate (SBR): number of babies born dead/1000 births

The SBR was largely unchanged between 2008 and 2009 and decreased in 2010. The 2010 rate was in line with the national and provincial averages.



v: **Conclusions:**

The reason for the high FCDR should be ascertained. The PNMR data should be reviewed to ascertain the reasons for the fluctuation and the high rates observed.

7. Amajuba Memorial Hospital

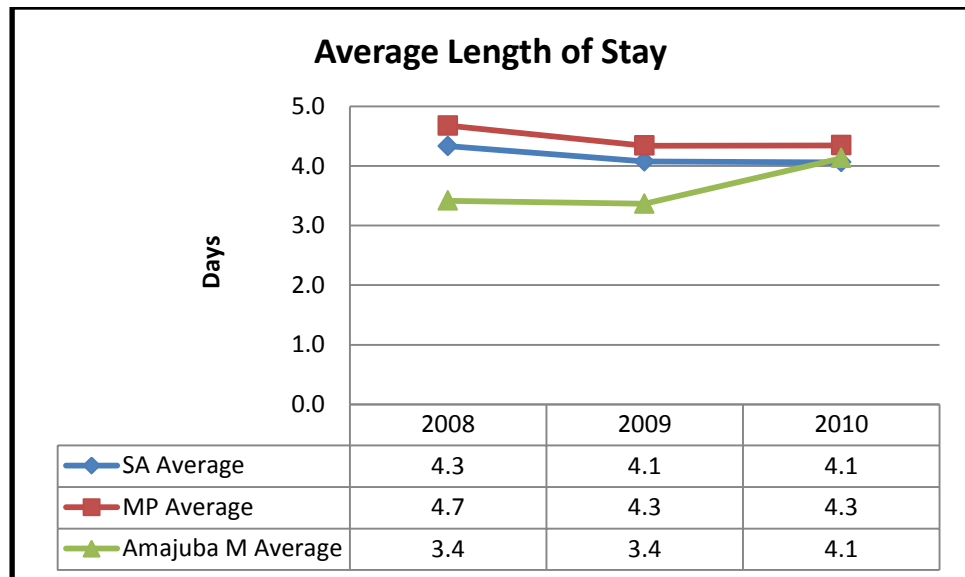
i: Description

Amajuba Memorial District Hospital has 95 beds and lies in the Pixley Ka Seme sub-district.

ii: Input and process indicators

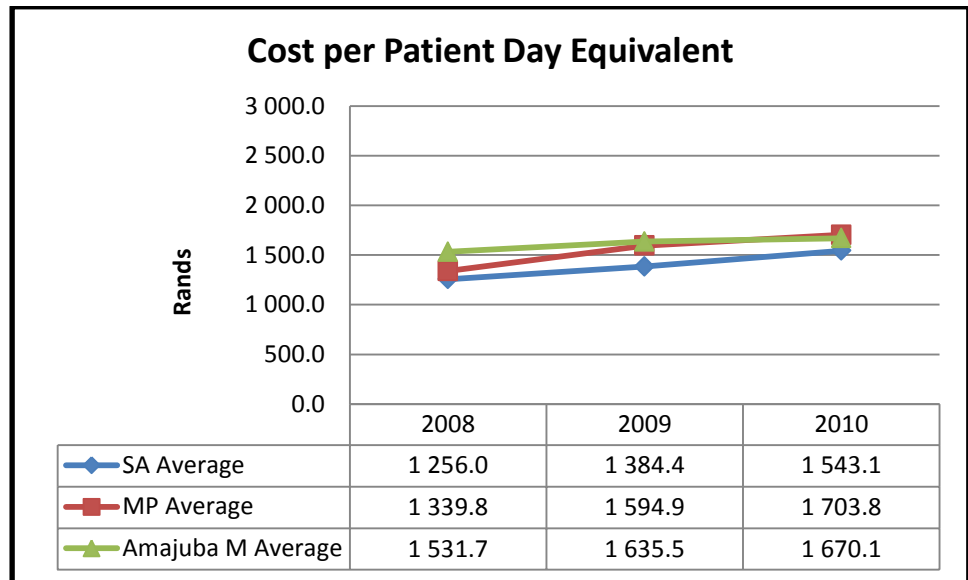
1. Average length of stay (ALOS) – the average length of time inpatients spend in hospital

The ALOS was constant in 2008 and 2009 and increased to 4.1 days in 2010. The 2010 value was in line with the national and provincial averages in the same year.



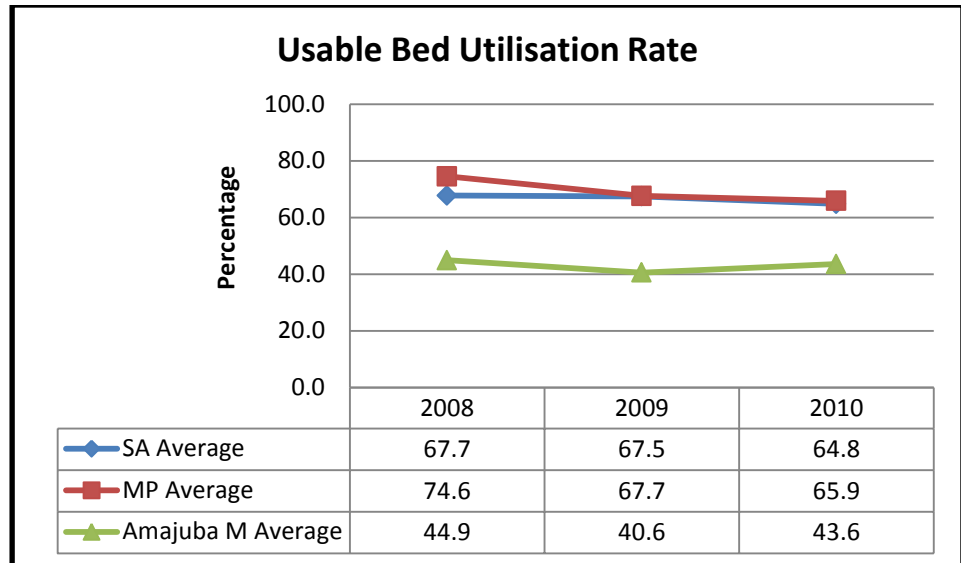
2. Cost per patient day equivalent (CpPDE): measure of efficiency in the hospital

The CpPDE increased steadily over the reporting period. It was lower than the provincial average in 2010.



3. Usable bed utilisation rate (BUR): measures occupancy of beds which are available for use

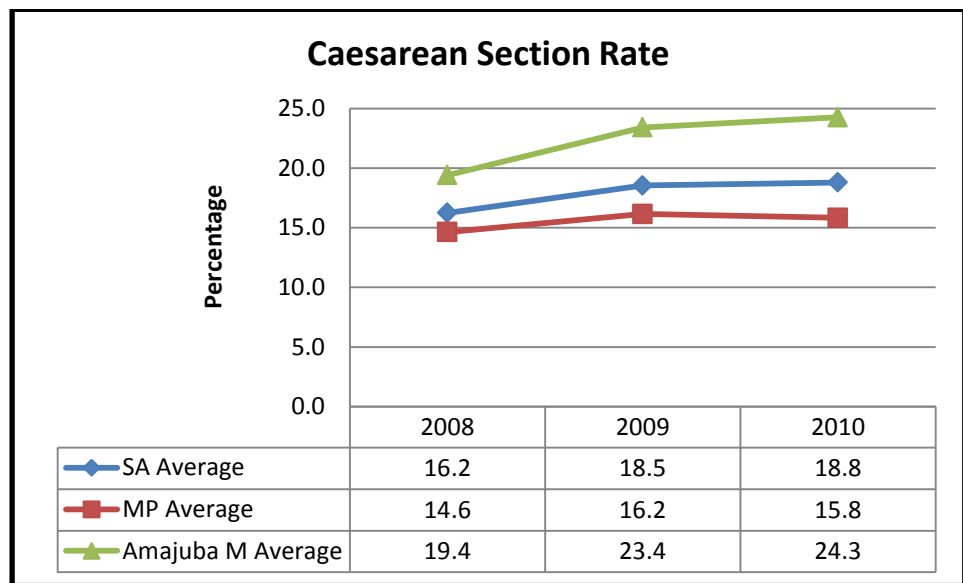
The BUR was very low. It fluctuated slightly, decreasing between 2008 and 2009 before increasing in 2010. It was significantly lower than the national and provincial averages throughout the reporting period .The reasons for these very low rates should be ascertained.



iii: Outcome indicators

Caesarean section (CS) rate: proportion of deliveries for which a CS is performed

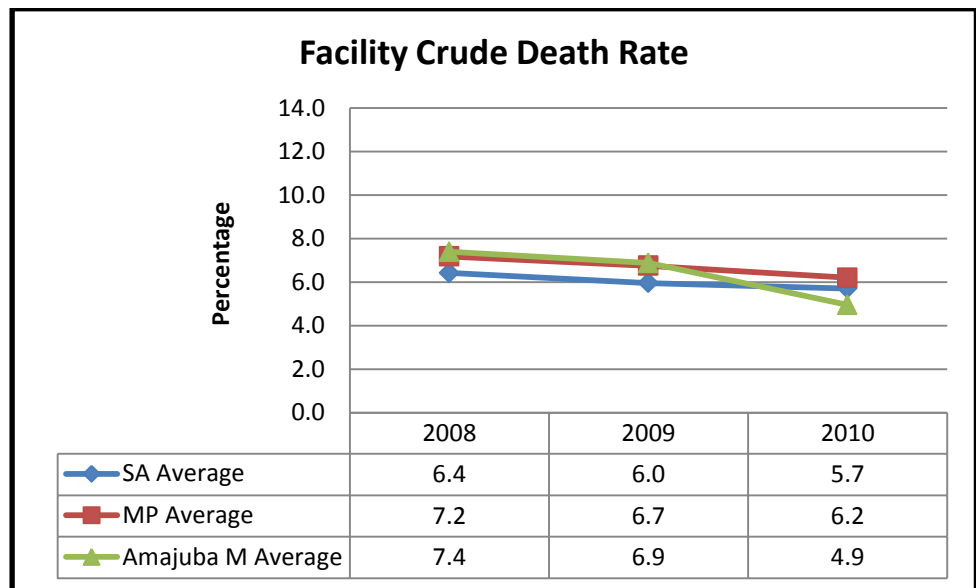
The CS rate increased during the reporting period. It was much higher than the national and provincial averages throughout this period. The reasons for these high rates should be ascertained.



iv: Impact indicators

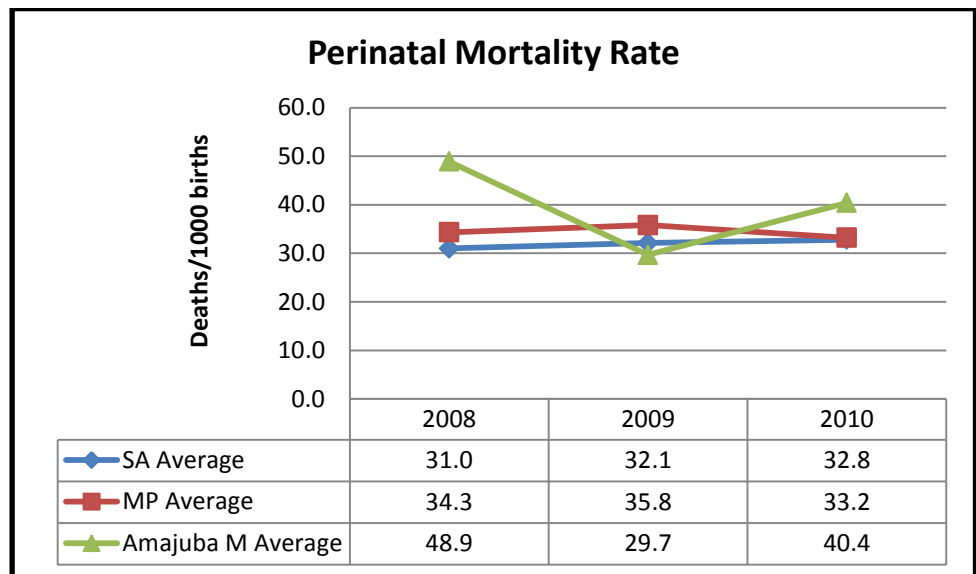
1. Facility crude death rate (FCDR): proportion of all inpatient separations that are deaths

The FCDR decreased steadily between 2008 and 2010. The 2010 rate of 4.9% was lower than both the national and provincial averages.



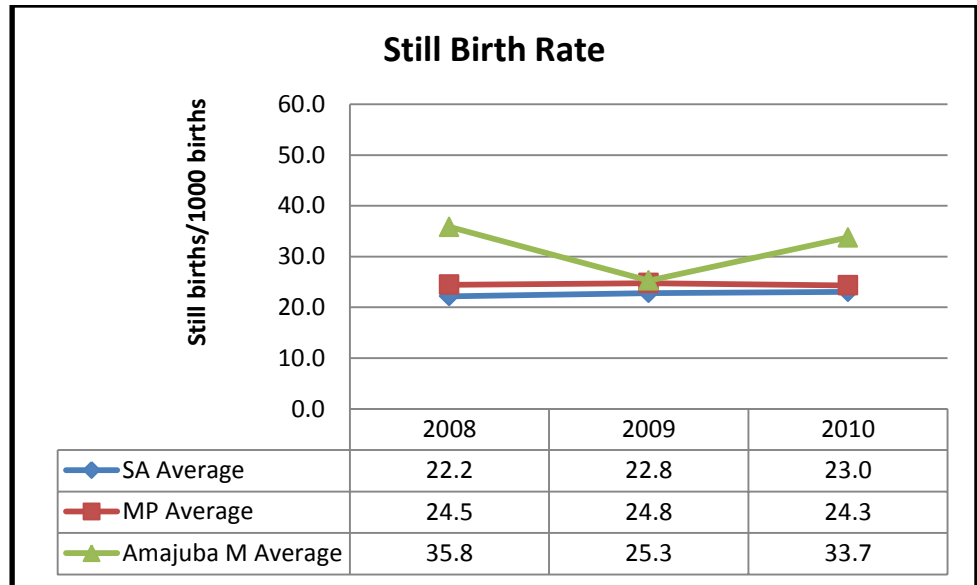
2. Perinatal mortality rate (PNMR) – the sum of still births + those babies dying within 7 days of life/1000 births

The PNMR fluctuated, decreasing significantly between 2008 and 2009 before increasing in 2010. It was higher than the national and provincial averages in 2008 and 2010. These data should be reviewed and the reasons for the fluctuation observed and the high rates (in 2008 and 2010) ascertained.



3. Still birth rate (SBR): number of still births/1000 births

The SBR shows a trend similar to that of the PNMR. It fluctuated, reaching a low rate in 2009 before increasing in 2010. It was much higher than the national and provincial averages in 2010. These data should be reviewed and the reasons for the fluctuation observed and the high rates ascertained.



v: **Conclusions**

The reasons for the very low BUR should be ascertained. The CpPDE data should also be reviewed since it has remained rather low despite the very low BUR. The reasons for the high CS rates should also be ascertained. The PNMR and SBR data should be reviewed and the reasons for the fluctuation and the high rates observed ascertained.

8. *Elsie Ballot Hospital*

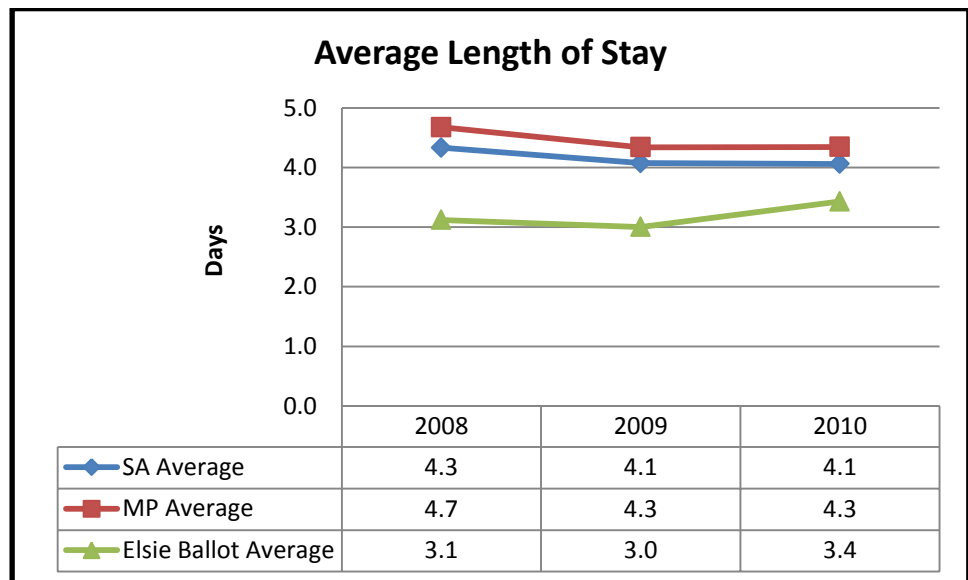
i: Description

Elsie Ballot District Hospital has 22 beds and lies in the Pixley Ka Seme sub-district.

ii: Input and process indicators

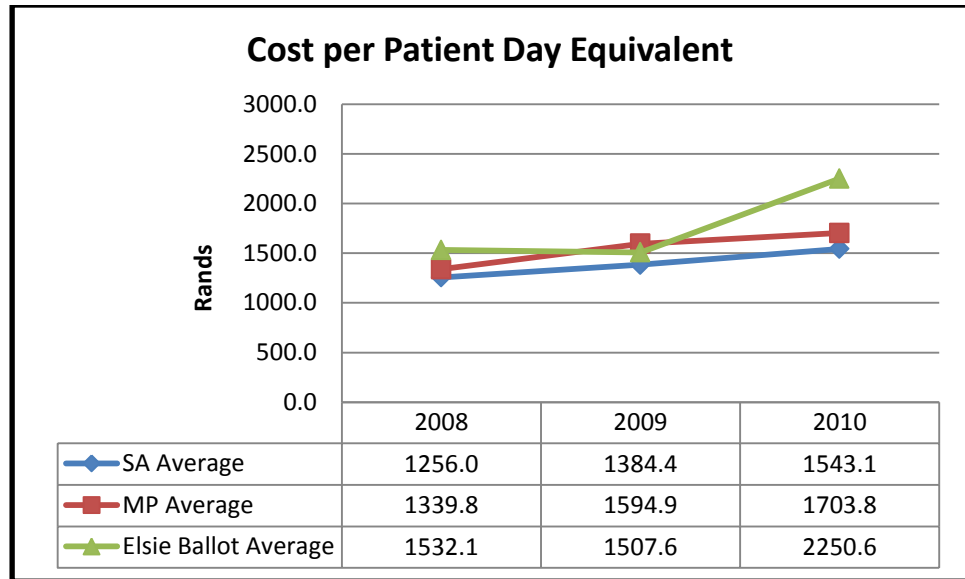
1. Average length of stay (ALOS) – the average length of time inpatients spend in hospital

The ALOS was relatively stable and was lower than the national and provincial averages throughout the reporting period.



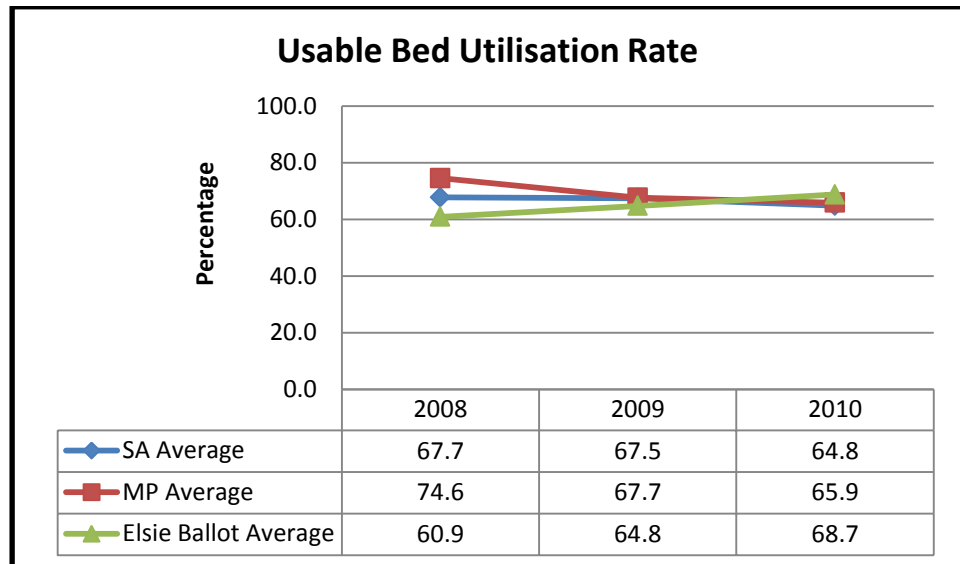
2. Cost per patient day equivalent (CpPDE): measure of efficiency in the hospital

The CpPDE was stable between 2008 and 2009 and increased sharply in 2010. It was significantly higher than the national and provincial averages in 2010. The reasons for the sharp increase should be ascertained.



3. Usable bed utilisation rate (BUR): measures occupancy of beds which are available for use

The BUR increased steadily over the reporting period, and was higher than the national and provincial averages in 2010.



iii: Outcomes indicators

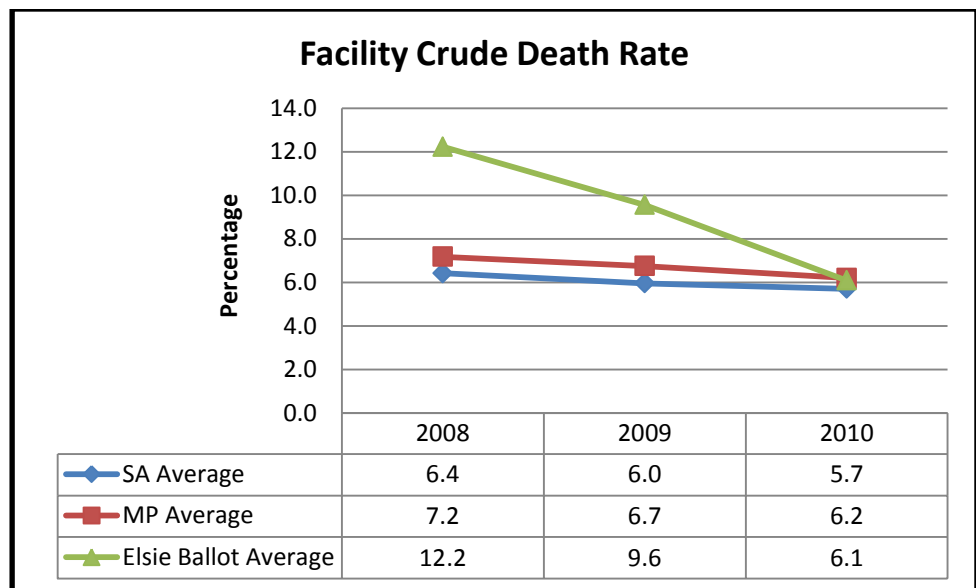
Caesarean section (CS) rate: proportion of deliveries for which a CS is performed

Data on the CS rate were not available for the period 2008-2010. This requires urgent investigation.

iv: Impact Indicators

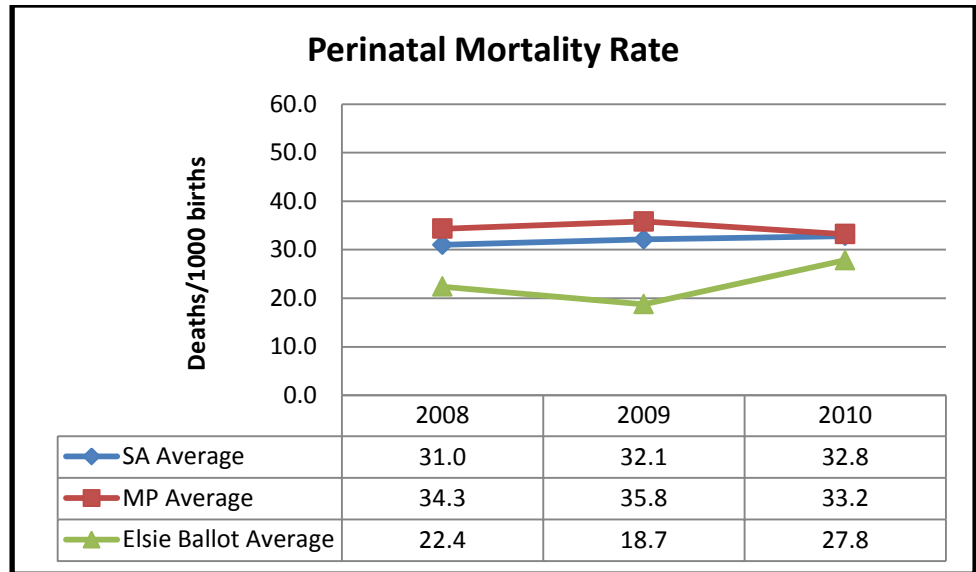
1. Facility crude death rate (FCDR): proportion of all inpatient separations that are deaths

The FCDR decreased significantly over the reporting period, and was in line with the provincial average in 2010.



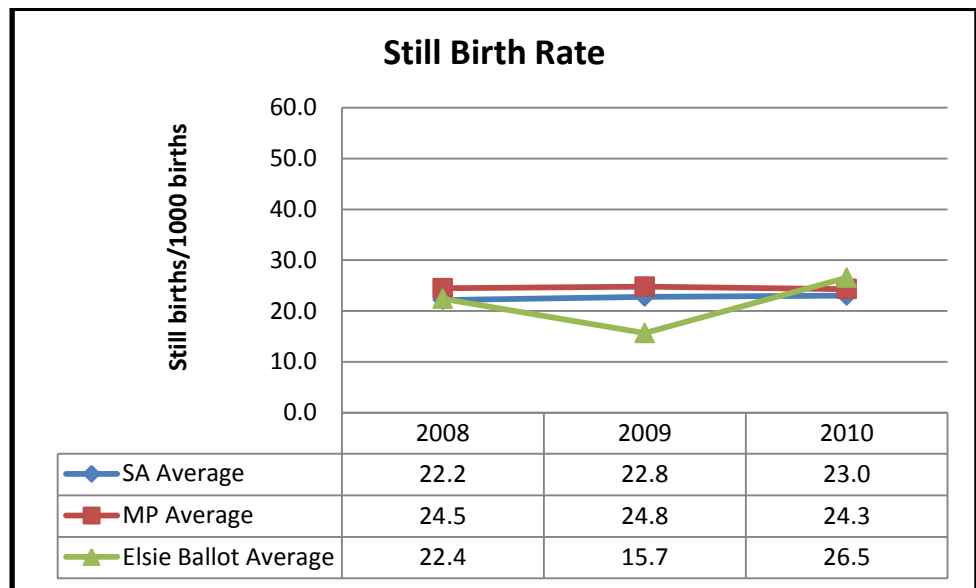
2. Perinatal mortality rate (PNMR) – the sum of still births + those babies dying within 7 days of life/1000 births

The PNMR fluctuated, decreasing between 2008 and 2009 and then increasing in 2010. It was lower than the national and provincial averages throughout this period. The data should be reviewed and the reasons for the fluctuation observed ascertained.



3. Still birth rate (SBR): number of babies born dead/1000 births

The SBR also fluctuated, decreasing to a low rate in 2009, and then increasing in 2010. The 2010 rate was higher than the national and provincial averages. The data should be reviewed and the reasons for the fluctuation observed ascertained.



v: **Conclusions:**

The CpPDE data should be reviewed and the reasons for the sharp increase in 2010 ascertained. The absence of CS rate data requires urgent investigation. If the hospital is unable to perform Caesarean sections then by definition it is no longer a hospital and should be re-classified as a CHC. The PNMR and SBR data should be reviewed and the reasons for the fluctuations observed ascertained.

B Nkangala – DC31

Nkangala District had a population of approximately 1,128,194 people in 2010. It has 7 district hospitals, 68 clinics, 18 CHCs, 22 mobile services and 1 provincial tertiary hospital.

1. *Bernice Samuels Hospital*

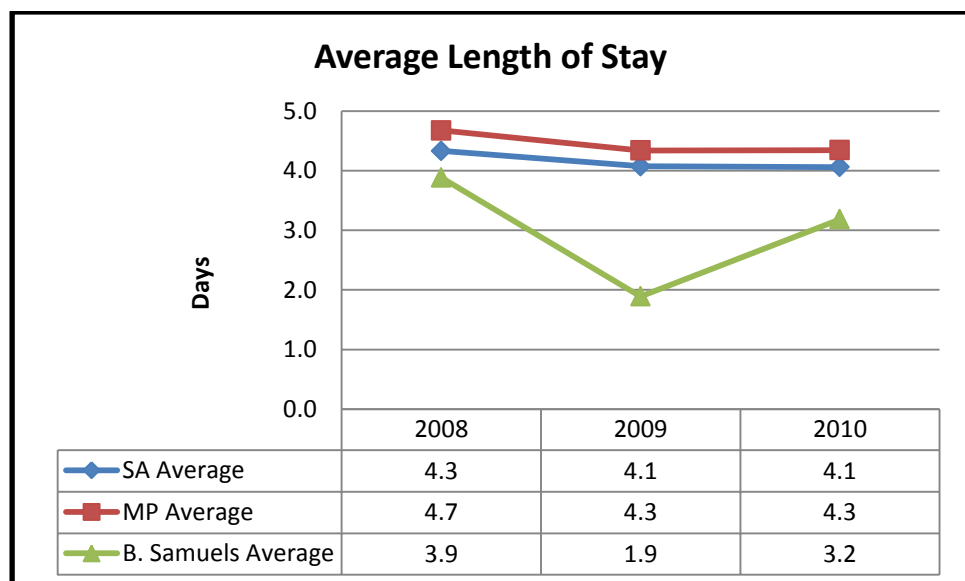
i: Description

Bernice Samuels District Hospital has 29 beds and lies in the Delmas sub-district.

ii: Input and process indicators

1. Average length of stay (ALOS) – the average length of time inpatients spend in hospital

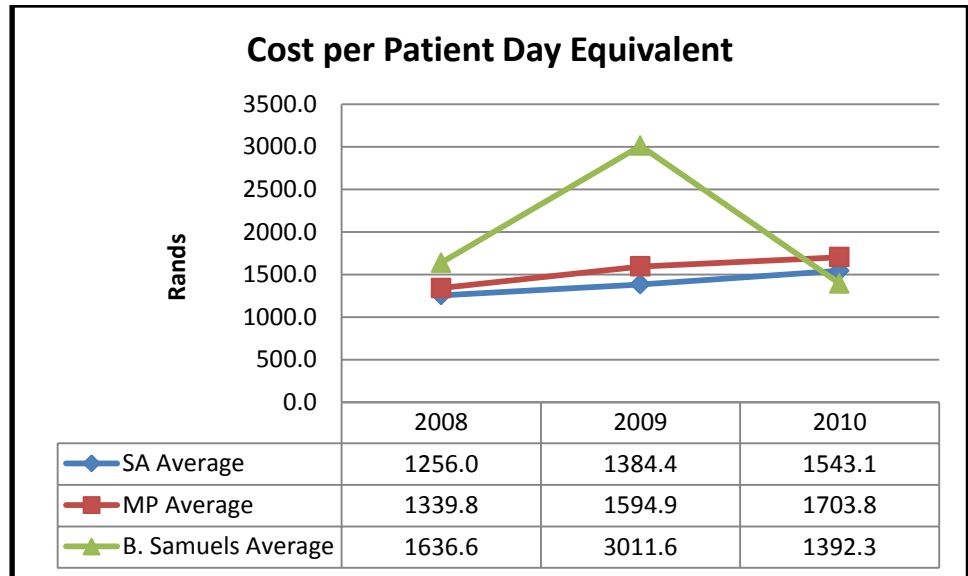
The ALOS fluctuated, decreasing to 1.9 days in 2009 before increasing in 2010. It was lower than the national and provincial averages throughout this period.



2. Cost per patient day equivalent (CpPDE): measure of efficiency in the hospital

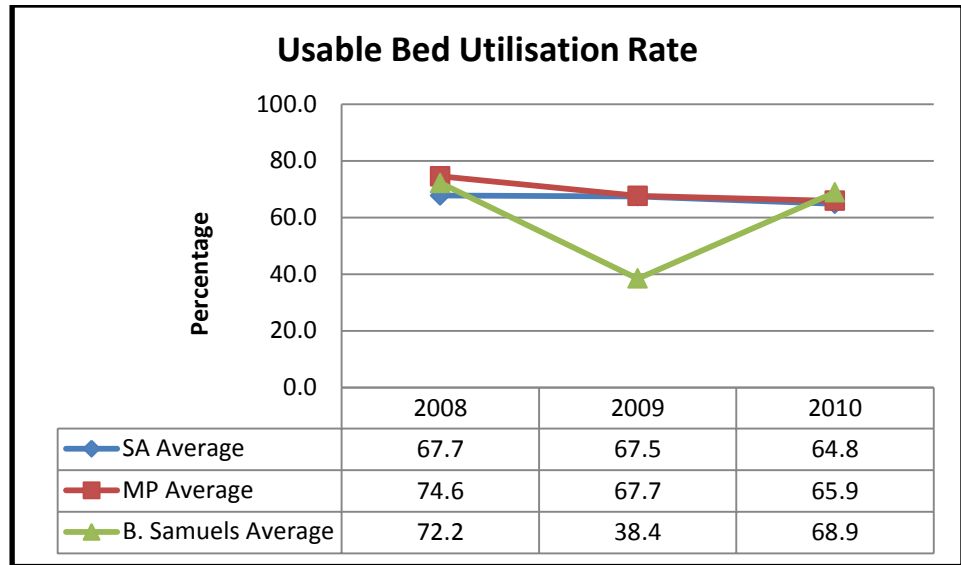
The CpPDE fluctuated increasing significantly (by 84%) between 2008 and 2009 before declining to a level below the 2008 average in 2010.

These data should be reviewed and reasons for the fluctuation observed ascertained.



3. Usable bed utilisation rate (BUR): measures occupancy of beds which are available for use

The BUR fluctuated, decreasing significantly (by almost 50%) between 2008 and 2009, before increasing again in 2010. In 2010 it was higher than the national and provincial averages. These data should be reviewed and reasons for the fluctuation observed ascertained.



iii: Outcomes indicators

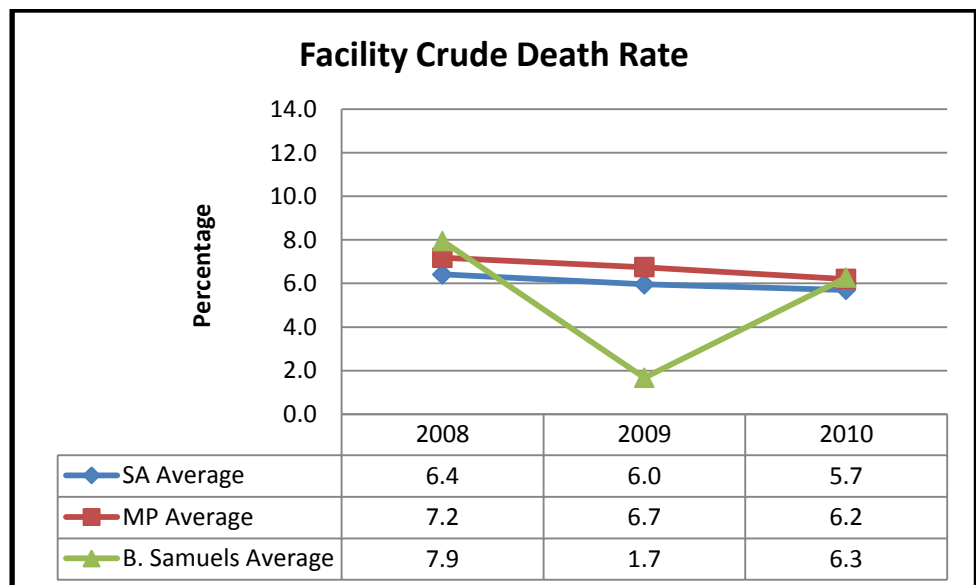
Caesarean section (CS) rate: proportion of deliveries for which a CS is performed

Data on the CS rate were not available for the period 2008-2010. This requires urgent investigation.

iv: Impact Indicators

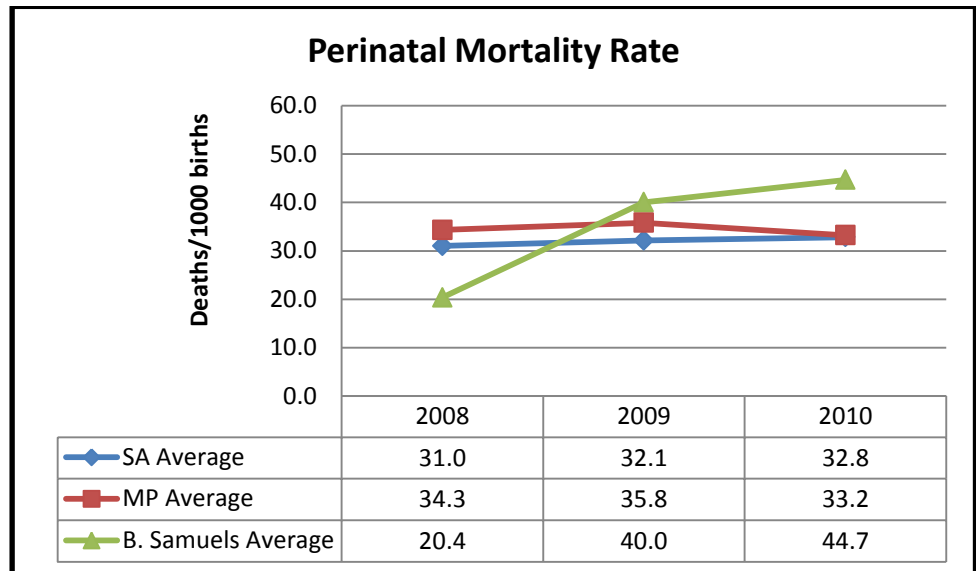
1. Facility crude death rate (FCDR): proportion of all inpatient separations that are deaths

The FCDR fluctuated, decreasing significantly to a very low rate on 1.7% in 2009 before increasing in 2010. It was in line with the provincial average in 2010. These data should be reviewed to ascertain the reasons for the fluctuation observed.



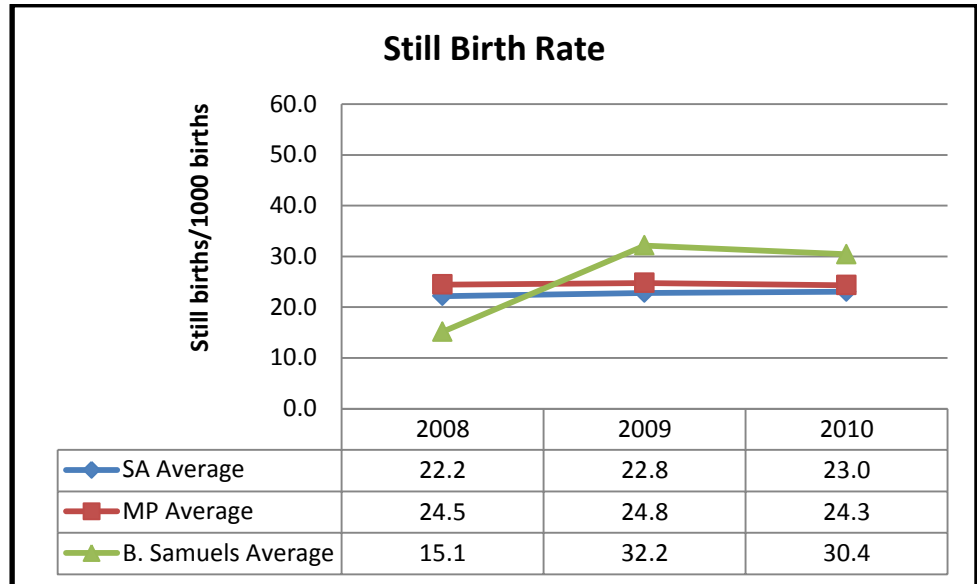
2. Perinatal mortality rate (PNMR) – the sum of still births + those babies dying within 7 days of life/1000 births

The PNMR increased significantly (more than two-fold), between 2008 and 2010. It was higher than the national and provincial averages in 2009 and 2010.



3. Still birth rate (SBR): number of babies born dead/1000 births

As with the PNMR, the SBR increased significantly during the reporting period. It was higher than the national and provincial averages in 2009 and 2010. The reasons for the high SBR should be ascertained.



v: **Conclusions:**

The ALOS, CpPDE, BUR, FCDR data should be reviewed to ascertain the reasons for the fluctuations observed. The absence of CS rate data requires urgent investigation. If the hospital is unable to perform Caesarean sections then by definition it is no longer a hospital and should be re-classified as a CHC. The reasons for the SBR and PNMR values that are above the national and provincial averages should be ascertained

2. *Mmamethlake Hospital*

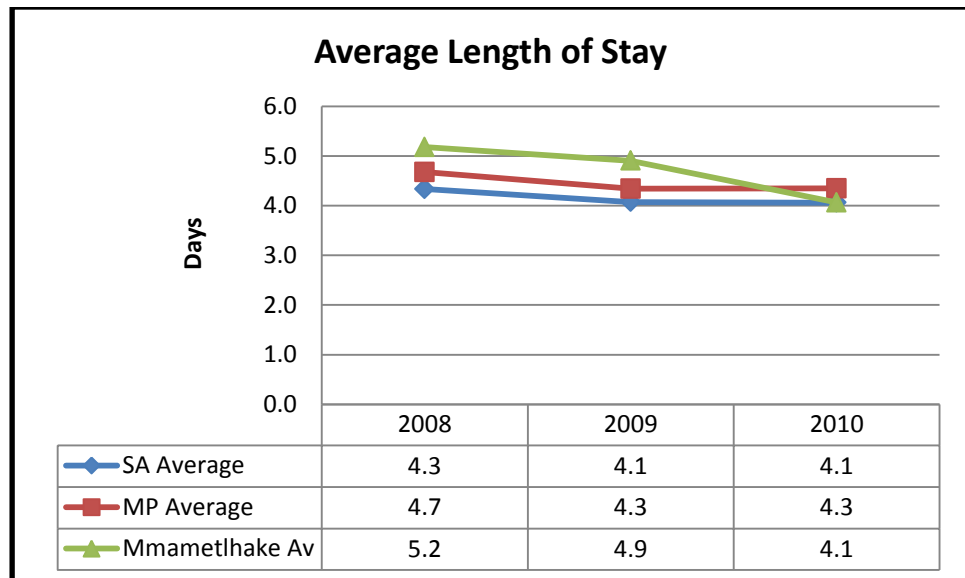
i: Description

Mmamethlake District Hospital has 60 beds and lies in the Dr JS Moroka sub-district.

ii: Input and process indicators

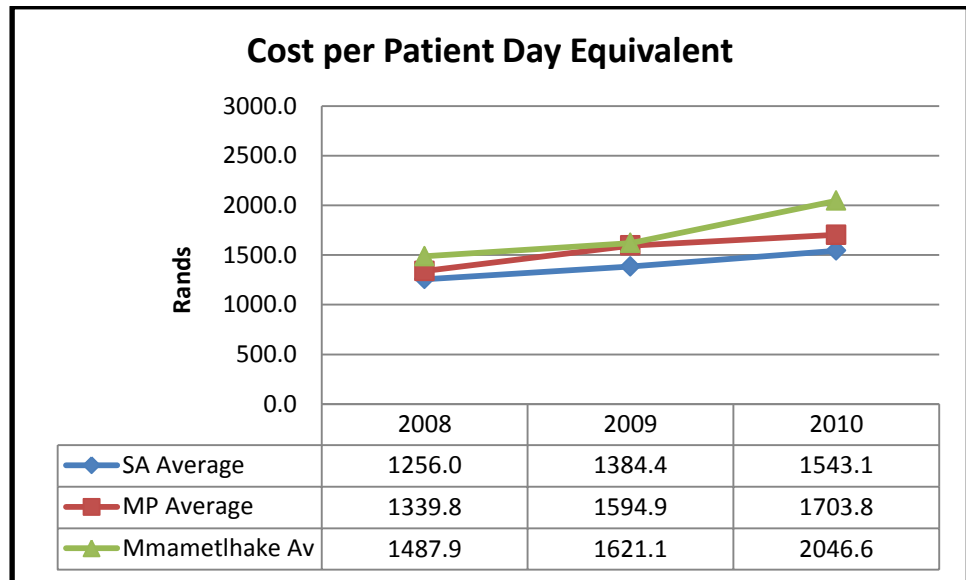
1. Average length of stay (ALOS) – the average length of time inpatients spend in hospital

The ALOS decreased during the reporting period, and was in line with the national and provincial averages in 2010.



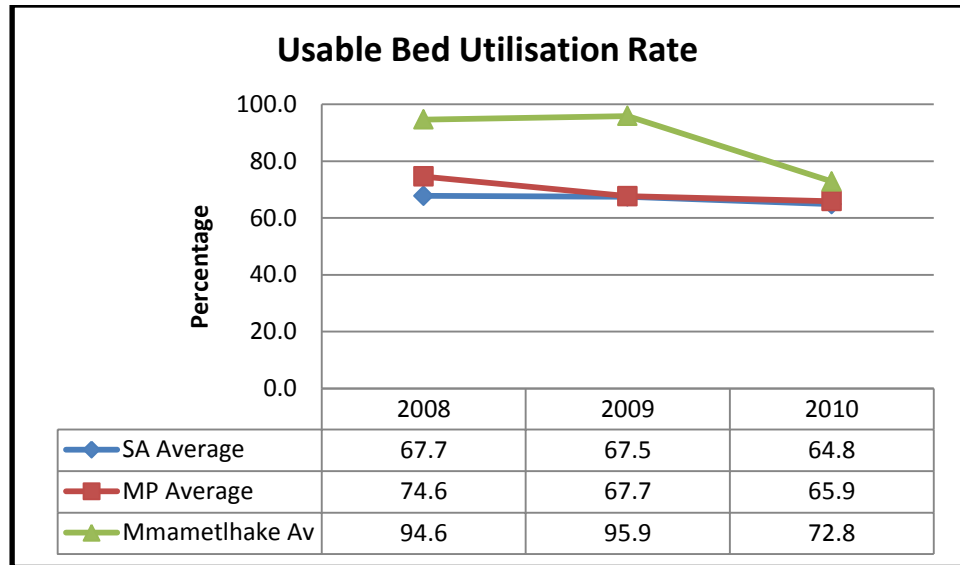
2. Cost per patient day equivalent (CpPDE): measure of efficiency in the hospital

The CpPDE increased steadily over the reporting period. It was higher than the national and provincial averages throughout this period.



3. Usable bed utilisation rate (BUR): measures occupancy of beds which are available for use

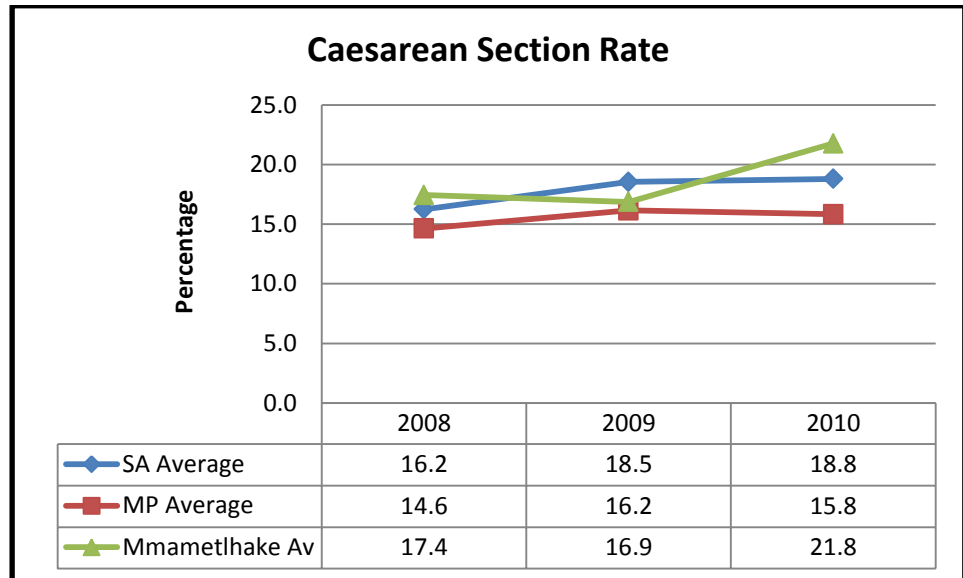
The BUR was very high in 2008 and 2009, and was much higher than the national and provincial averages during this period. It decreased substantially in 2010, but remained higher than the national and provincial averages.



iii: Outcomes indicators

Caesarean section (CS) rate: proportion of deliveries for which a CS is performed

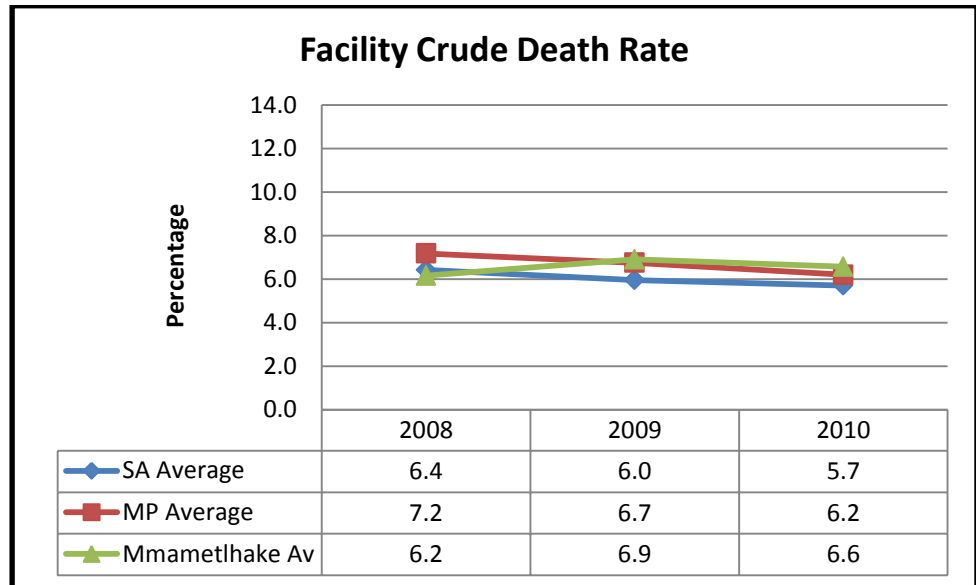
The CS rate decreased between 2008 and 2009 and then increased in 2010. It was higher than the national and provincial averages in 2010.



iv: Impact Indicators

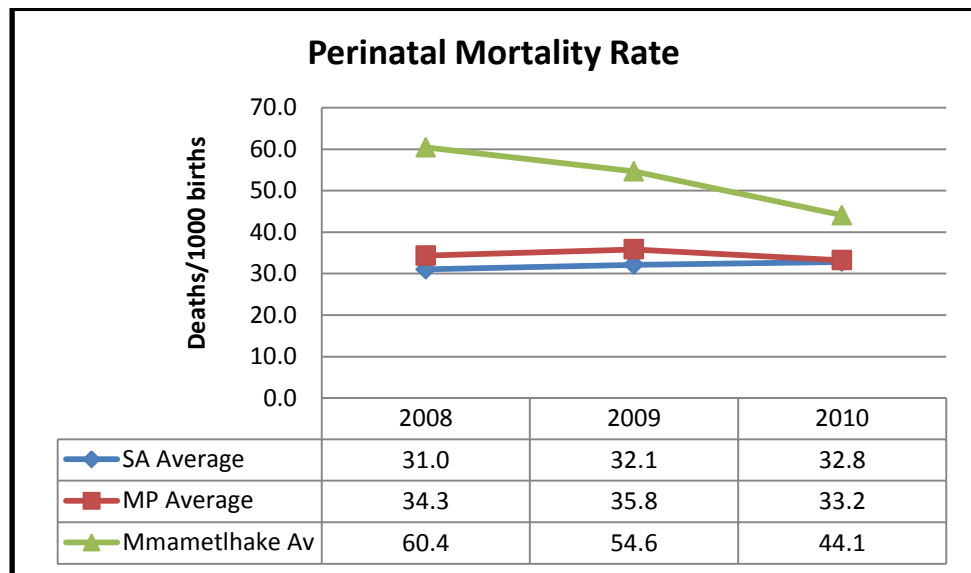
1. Facility crude death rate (FCDR): proportion of all inpatient separations that are deaths

The FCDR fluctuated marginally between 2008 and 2010. It was higher than the national and provincial averages in 2009 and 2010



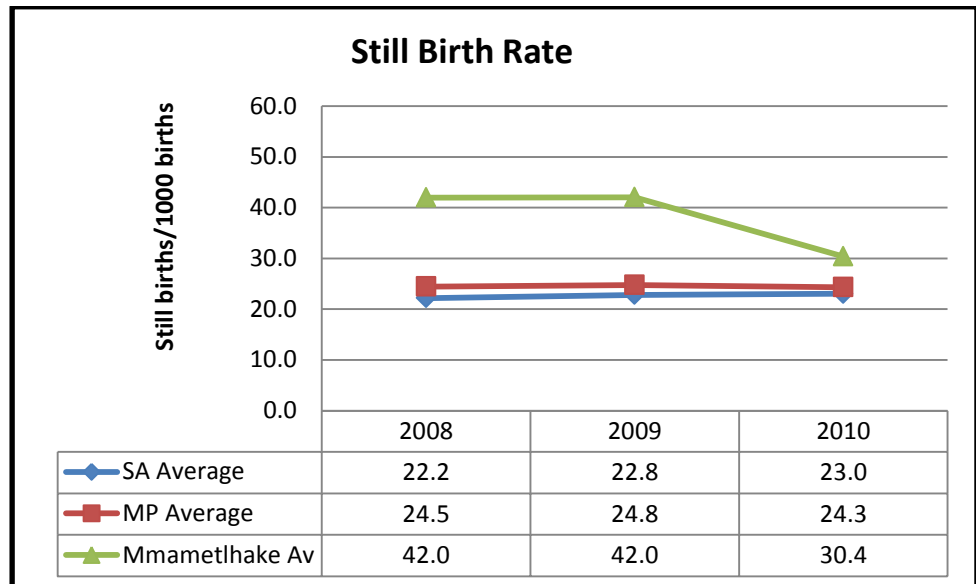
2. Perinatal mortality rate (PNMR) – the sum of still births + those babies dying within 7 days of life/1000 births

The PNMR decreased steadily over the reporting period. It was significantly higher than the national and provincial averages throughout this period. The reasons for the very high PNMR should be ascertained.



3. Still birth rate (SBR): number of babies born dead/1000 births

The SBR was constant in 2008 and 2009 and decreased in 2010. It was higher than the national and provincial averages throughout the reporting period. The reasons for the high SBR should be ascertained.



v: **Conclusions:**

The reasons for the high CpPDE and the high CS rate should be ascertained. The declining trend of the PNMR and SBR should be maintained.

3. *HA Grove Hospital*

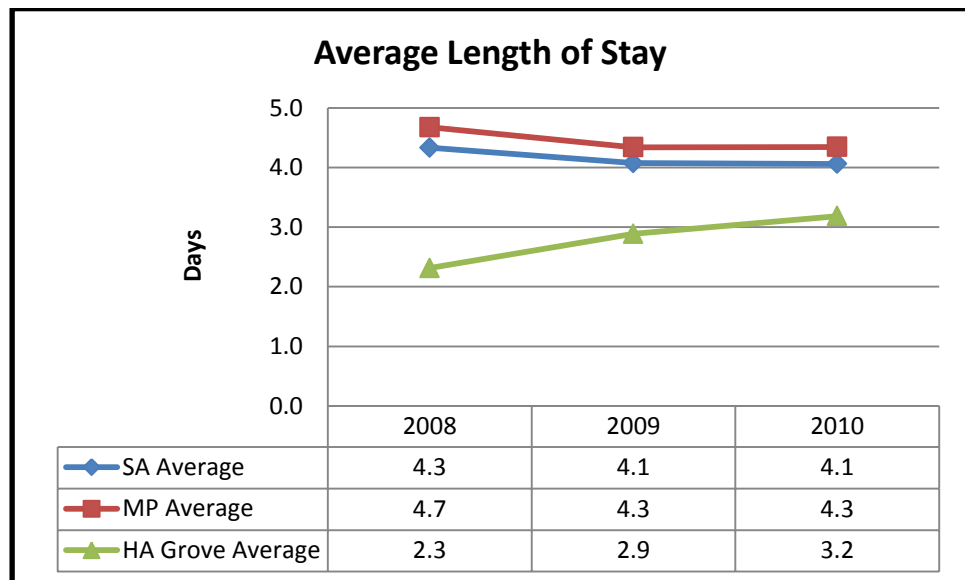
i: **Description**

HA Grove District Hospital has 12 beds and lies in the Emakhazeni sub-district.

ii: **Input and process indicators**

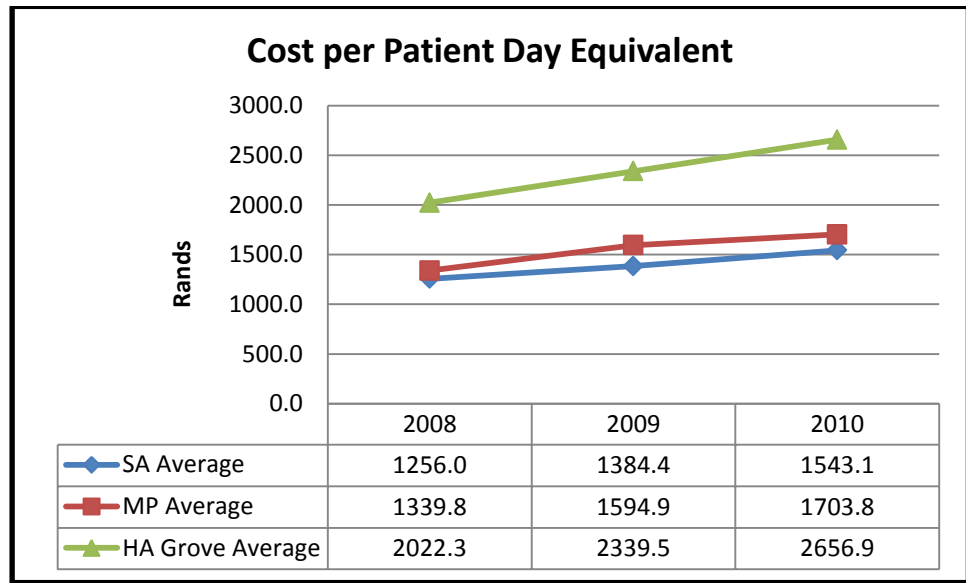
1. **Average length of stay (ALOS) – the average length of time inpatients spend in hospital**

The ALOS increased steadily between 2008 and 2010. It was lower than the national and provincial averages throughout this period.



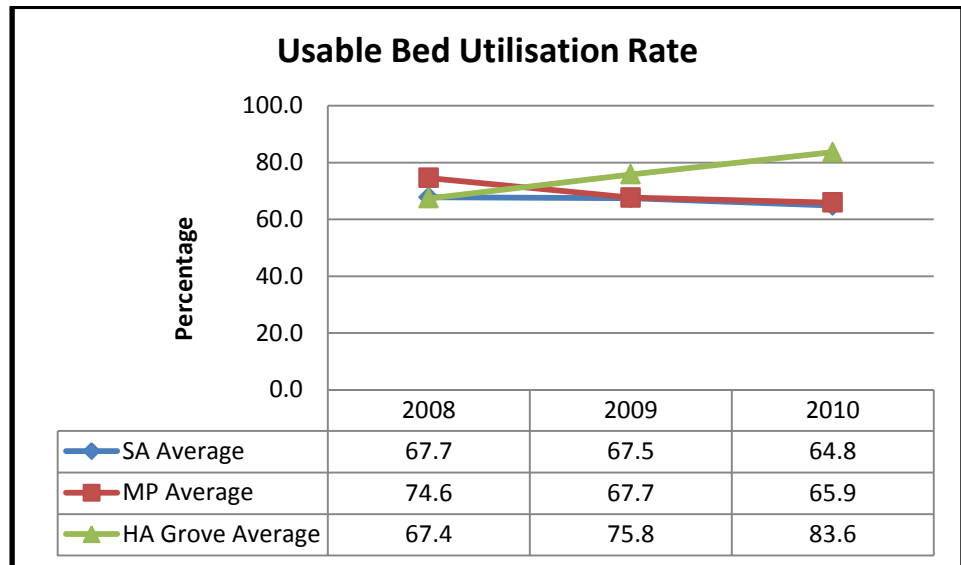
2. Cost per patient day equivalent (CpPDE): measure of efficiency in the hospital

The CpPDE increased between 2008 and 2010. It was significantly higher than the national and provincial averages throughout this period. The reasons for the high CpPDE should be ascertained.



3. Usable bed utilisation rate (BUR): measures occupancy of beds which are available for use

The BUR increased over the reporting period, and was higher than the national and provincial averages in 2009 and 2010. The reasons for the high BUR should be ascertained.



iii: Outcomes indicators

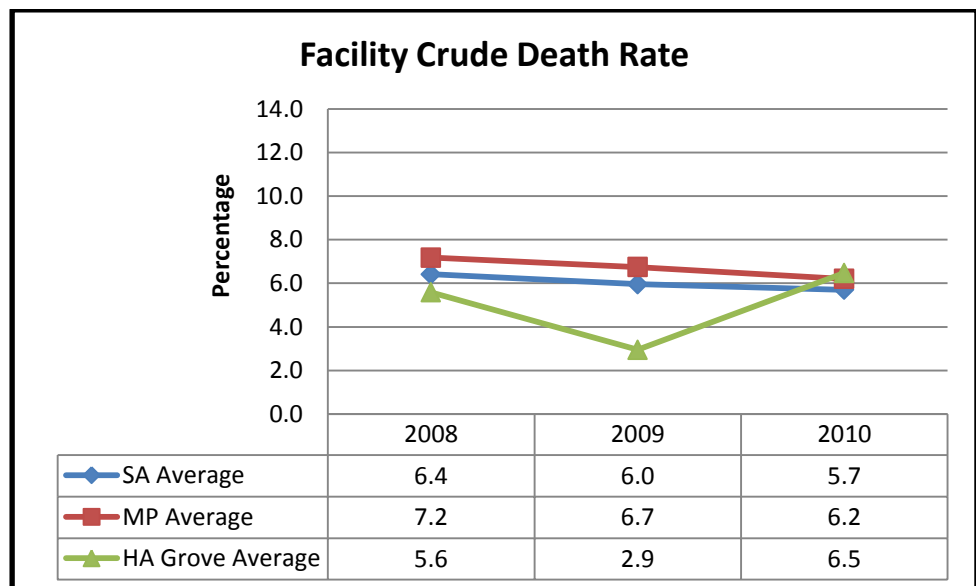
Caesarean section (CS) rate: proportion of deliveries for which a CS is performed

Data on the CS rate were not available for the period 2008-2010. This requires urgent investigation.

iv: Impact Indicators

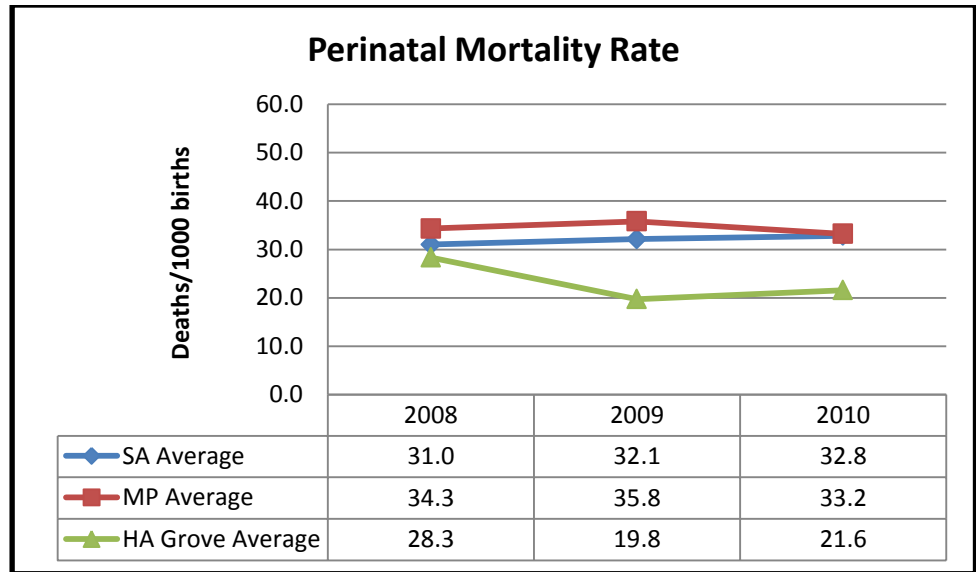
1. Facility crude death rate (FCDR): proportion of all inpatient separations that are deaths

The FCDR fluctuated; it decreased to a low rate of 2.9% in 2009 before increasing in 2010. The 2010 rate was in line with the provincial average. The data should be reviewed and the reasons for the fluctuation observed ascertained.



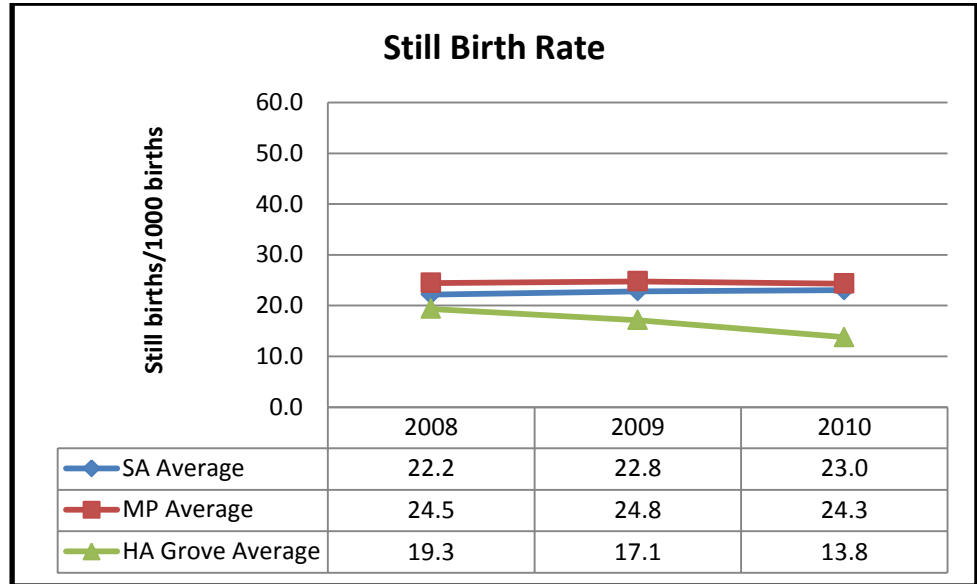
2. Perinatal mortality rate (PNMR) – the sum of still births + those babies dying within 7 days of life/1000 births

The PNMR decreased between 2008 and 2009 before increasing in 2010. It was lower than the national and provincial averages throughout the reporting period. The data should be reviewed and the reasons for the fluctuation observed ascertained.



3. Still birth rate (SBR): number of babies born dead/1000 births

The SBR decreased over the reporting period. It was lower than the national and provincial averages throughout this period.



v: **Conclusions:**

The reasons for the high CpPDE and the BUR should be ascertained. The absence of CS rate data requires urgent investigation. If the hospital is unable to perform Caesarean sections then by definition it is no longer a hospital and should be re-classified as a CHC. The FCDR and PNMR data should be reviewed and the reasons for the fluctuations observed ascertained.

4. Waterval Boven Hospital

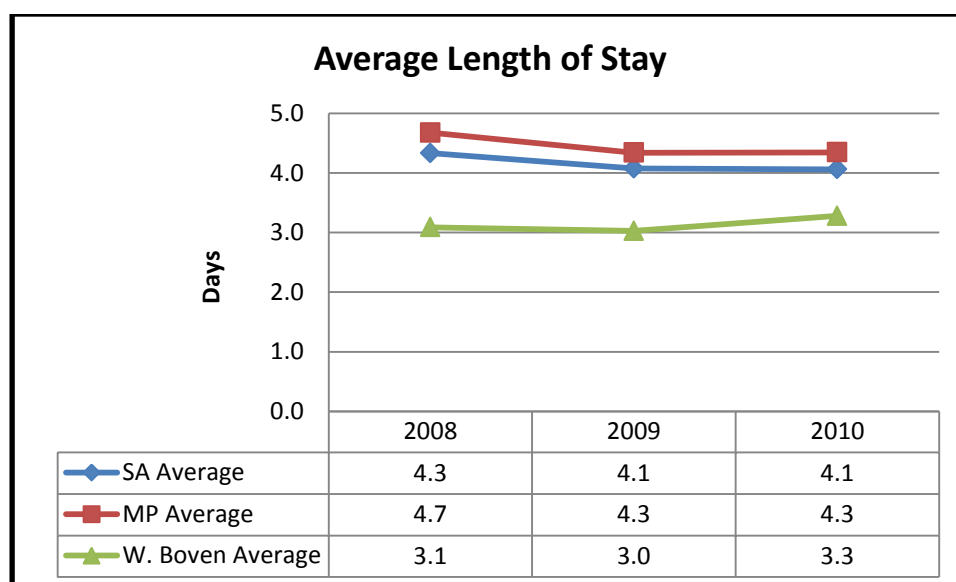
i: Description

Waterval Boven District Hospital has 12 beds and lies in the Emakhazeni sub-district.

ii: Input and process indicators

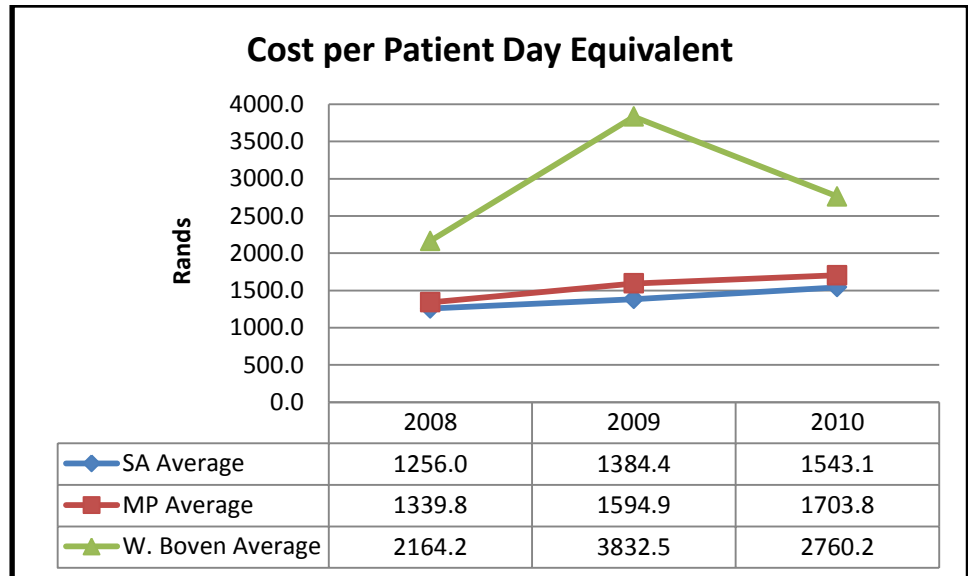
1. Average length of stay (ALOS) – the average length of time inpatients spend in hospital

The ALOS was relatively constant over the reporting period, and was lower than the national and provincial averages.



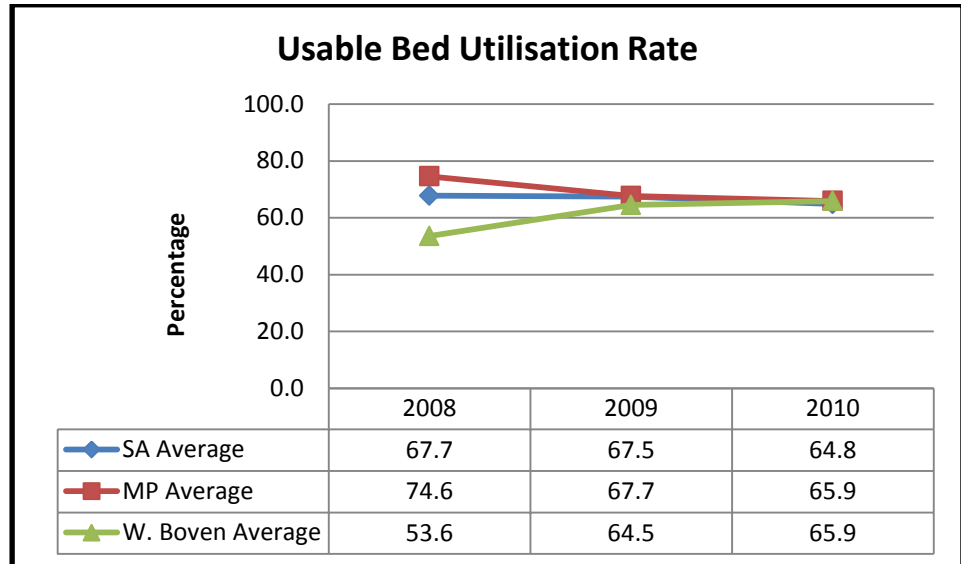
2. Cost per patient day equivalent (CpPDE): measure of efficiency in the hospital

The CpPDE fluctuated, increasing between 2008 and 2009 before decreasing in 2010. It was much higher than the national and provincial averages throughout the reporting period. The data should be reviewed to ascertain reasons for the high CpPDE and the fluctuation observed.



3. Usable bed utilisation rate (BUR): measures occupancy of beds which are available for use

The BUR increased between 2008 and 2010. It was in line with the national and provincial averages in 2010.



iii: Outcomes indicators

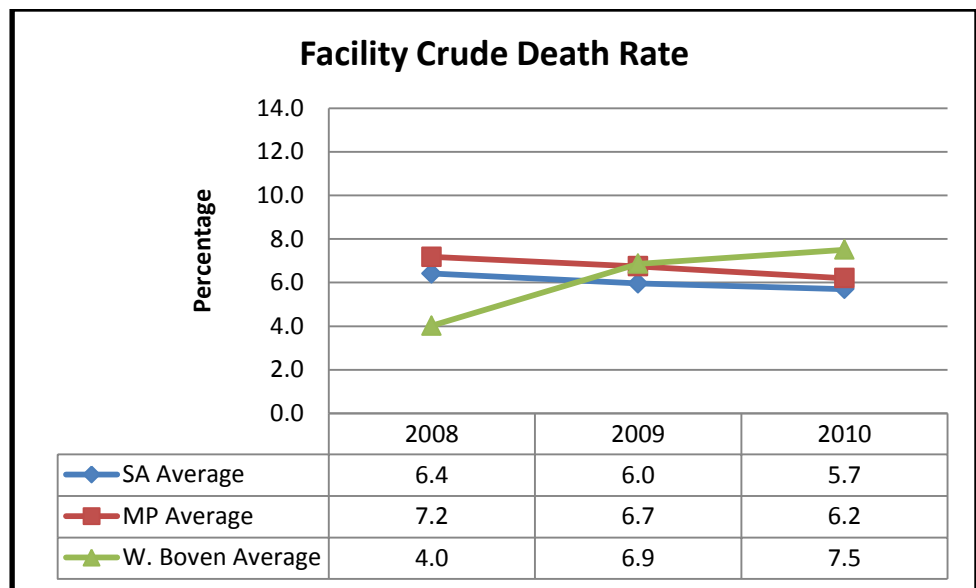
Caesarean section (CS) rate: proportion of deliveries for which a CS is performed

Data on the CS rates were not available for the period 2008-2010. This requires urgent investigation.

iv: Impact Indicators

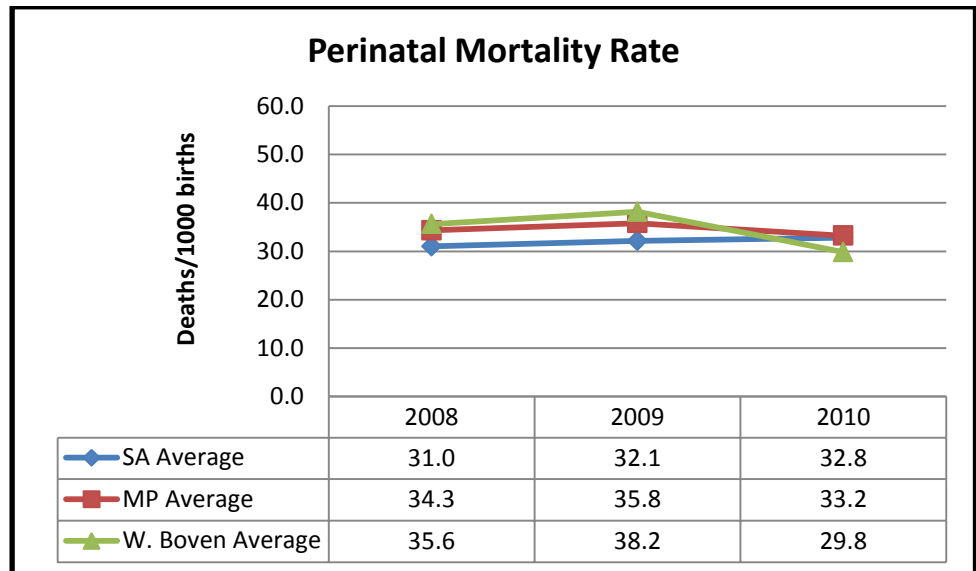
1. Facility crude death rate (FCDR): proportion of all inpatient separations that are deaths

The FCDR increased steadily between 2008 and 2010. It was higher than the national and provincial averages in 2009 and 2010.



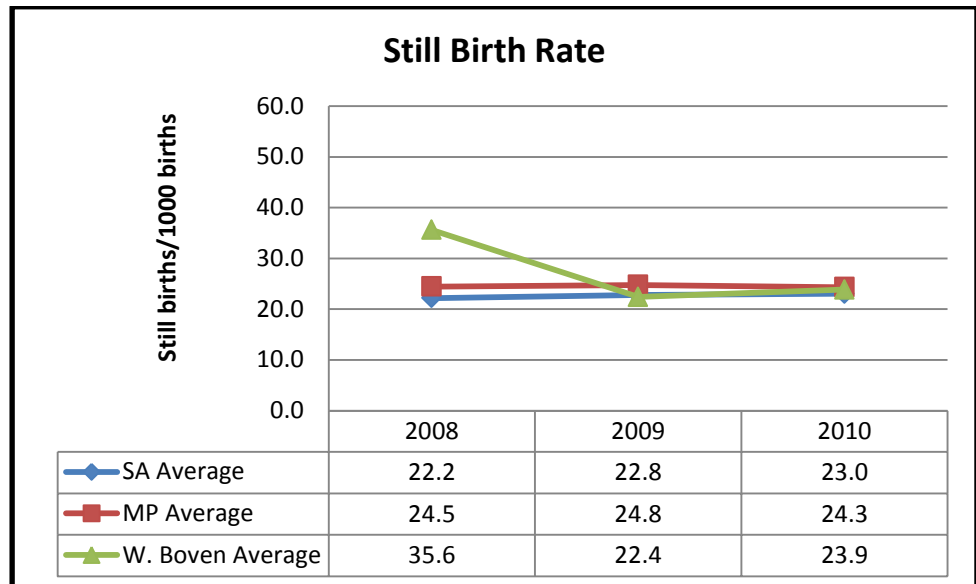
2. Perinatal mortality rate (PNMR) – the sum of still births + those babies dying within 7 days of life/1000 births

The PNMR decreased between 2008 and 2010. It was lower than the national and provincial averages in 2010.



3. Still birth rate (SBR): number of babies born dead/1000 births

The SBR decreased significantly between 2008 and 2009, and increased marginally in 2010. It was in line with the national and provincial averages in 2010.



v: **Conclusions:**

The CpPDE data should be reviewed to ascertain the reasons for the high values and the fluctuation observed. The absence of CS rate data requires urgent investigation. If the hospital is unable to perform Caesarean sections then by definition it is no longer a hospital and should be re-classified as a CHC. The increasing FCDR also requires attention.

5. *Impungwe Hospital*

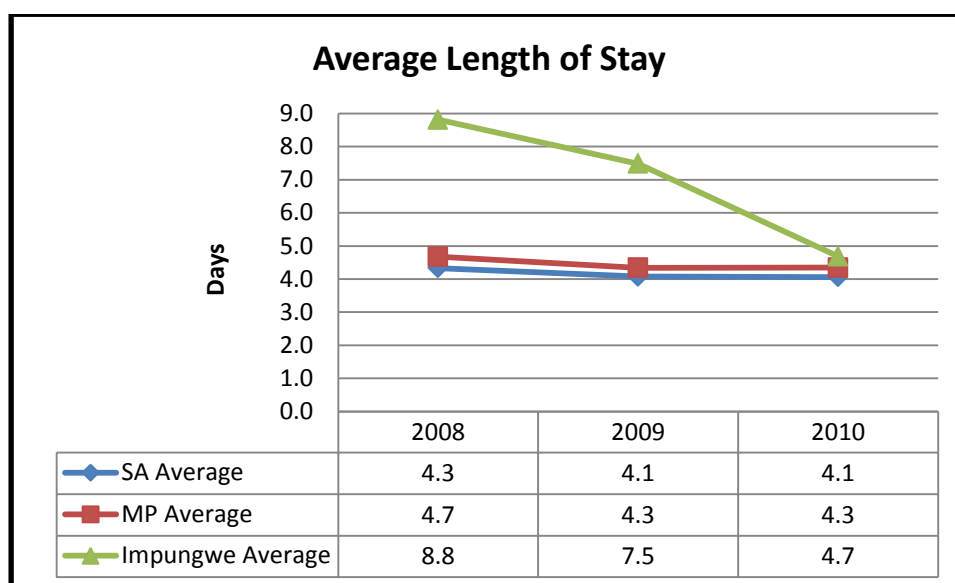
i: Description

Impungwe District Hospital has 66 beds and lies in the Emalahleni sub-district.

ii: Input and process indicators

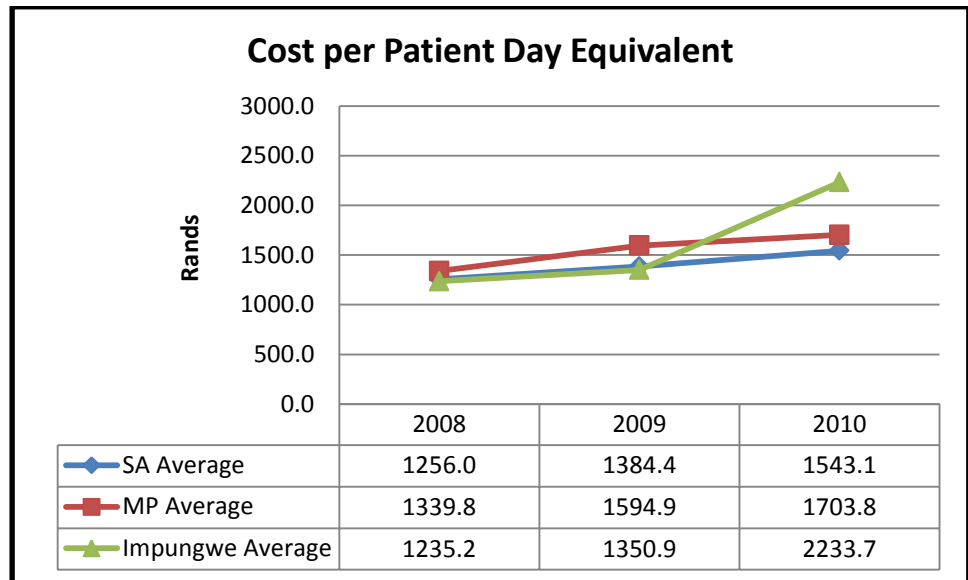
1. Average length of stay (ALOS) – the average length of time inpatients spend in hospital

The ALOS was very high and was significantly higher than the national and provincial averages in 2008 and 2009. It decreased steadily over the reporting period and was closer to the national and provincial averages in 2010.



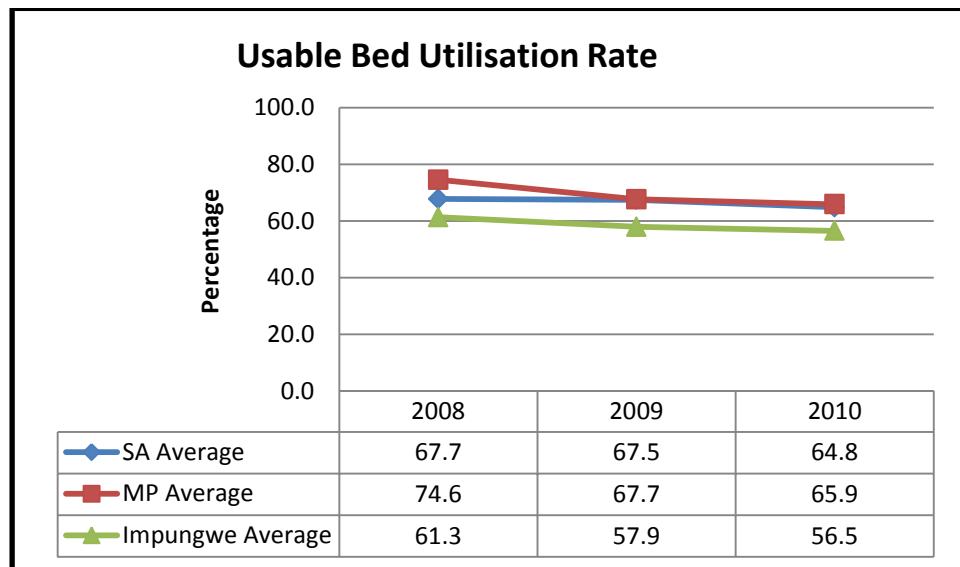
2. Cost per patient day equivalent (CpPDE): measure of efficiency in the hospital

The CpPDE increased over the reporting period and was significantly higher than the national and provincial averages in 2010.



3. Usable bed utilisation rate (BUR): measures occupancy of beds which are available for use

The BUR decreased substantially between 2008 and 2009, with a further smaller decrease in 2010. It was lower than the national and provincial averages throughout this period.



iii: Outcomes indicators

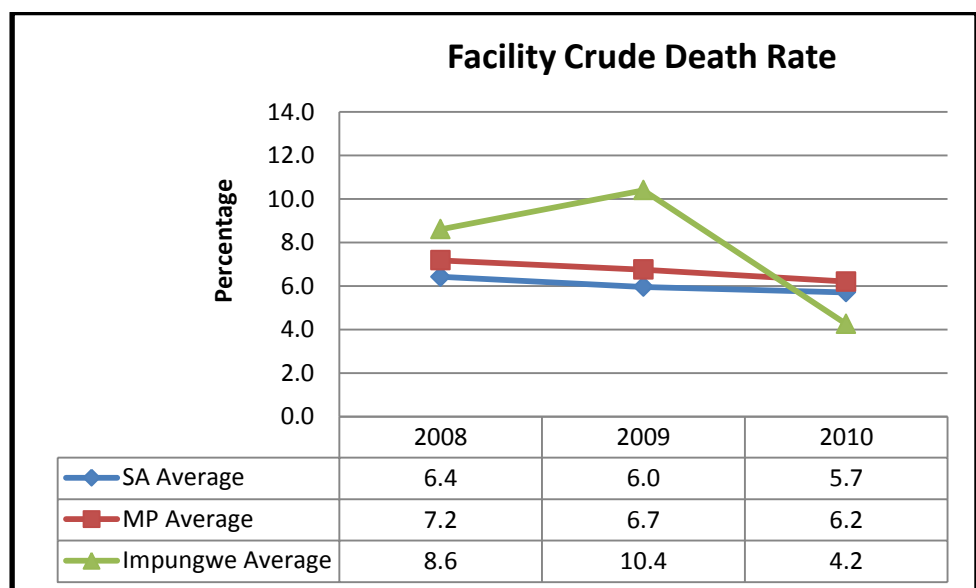
Caesarean section (CS) rate: proportion of deliveries for which a CS is performed

Data on the CS rates were not available for the period 2008-2010. This requires urgent investigation.

iv: Impact Indicators

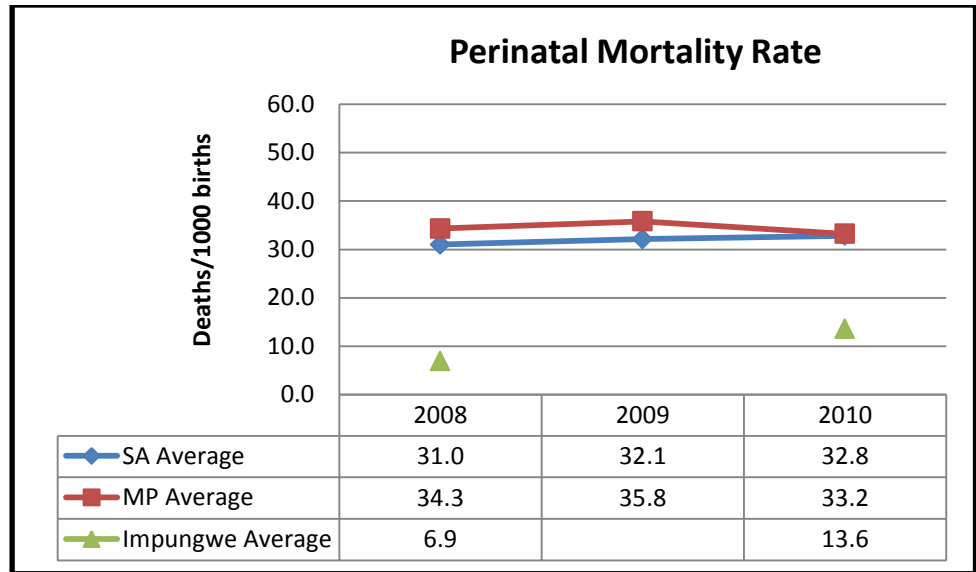
1. Facility crude death rate (FCDR): proportion of all inpatient separations that are deaths

The FCDR increased between and 2008 and 2009 and then decreased significantly in 2010. These data should be reviewed to ascertain the reasons for the fluctuation observed.



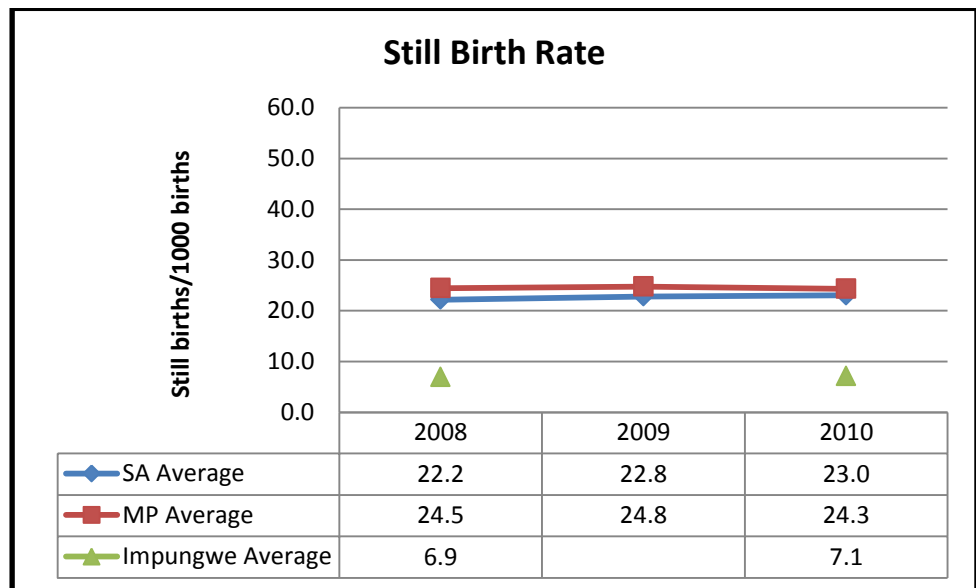
2. Perinatal mortality rate (PNMR) – the sum of still births + those babies dying within 7 days of life/1000 births

There were no PNMR data in 2009. The rates in 2008 and 2010 were significantly lower than the national and provincial averages. These data should be reviewed to confirm the 2008 and 2010 rates and to ascertain the reasons for the absence of data in 2009.



3. Still birth rate (SBR): number of babies born dead/1000 births

As with the PNMR there were no data for 2009. The rate in 2010 was unchanged from that in 2008. These data should be reviewed to confirm the 2008 and 2010 rates and to ascertain the reasons for the absence of data in 2009.



v: **Conclusions:**

The reasons for the high CpPDE and the low BUR should be ascertained. The absence of CS rate data requires urgent investigation. If the hospital is unable to perform Caesarean sections then by definition it is no longer a hospital and should be re-classified as a CHC. The FCDR data should be reviewed to ascertain the reasons for the fluctuation observed. The PNMR and SBR data should also be reviewed to confirm the rates observed in 2008 and 2010 and to ascertain the reasons for the absence of data in 2009.

6. *Middleburg Hospital*

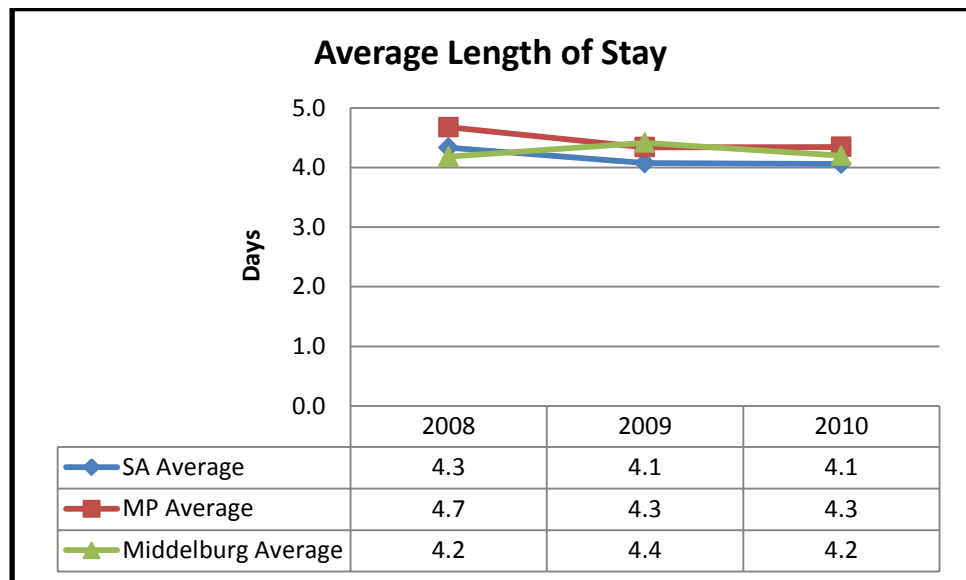
i: Description

Middleburg District Hospital has 218 beds and lies in the Steven Tshwete sub-district.

ii: Input and process indicators

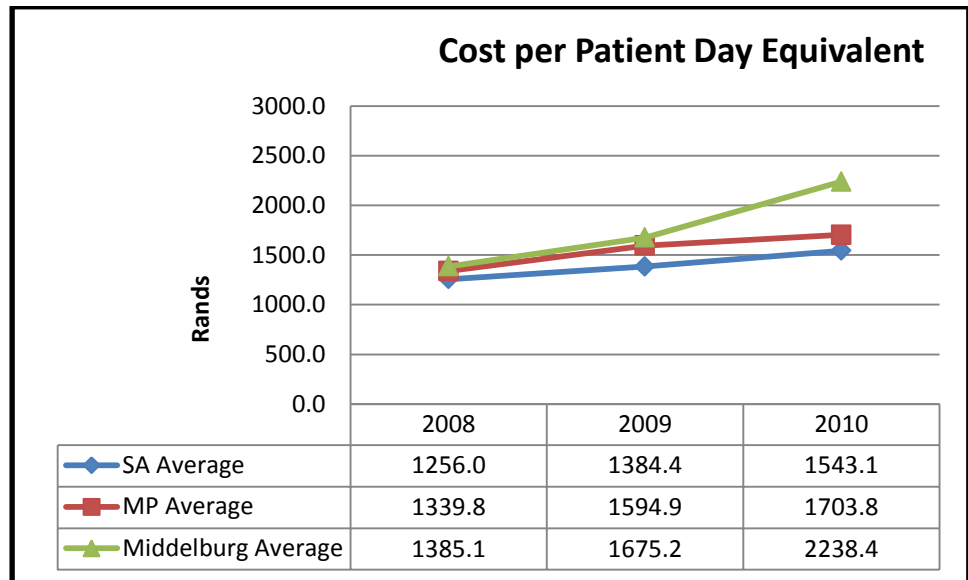
1. Average length of stay (ALOS) – the average length of time inpatients spend in hospital

The ALOS was largely unchanged at about 4 days throughout the reporting period, and was in line with the national and provincial averages in 2010.



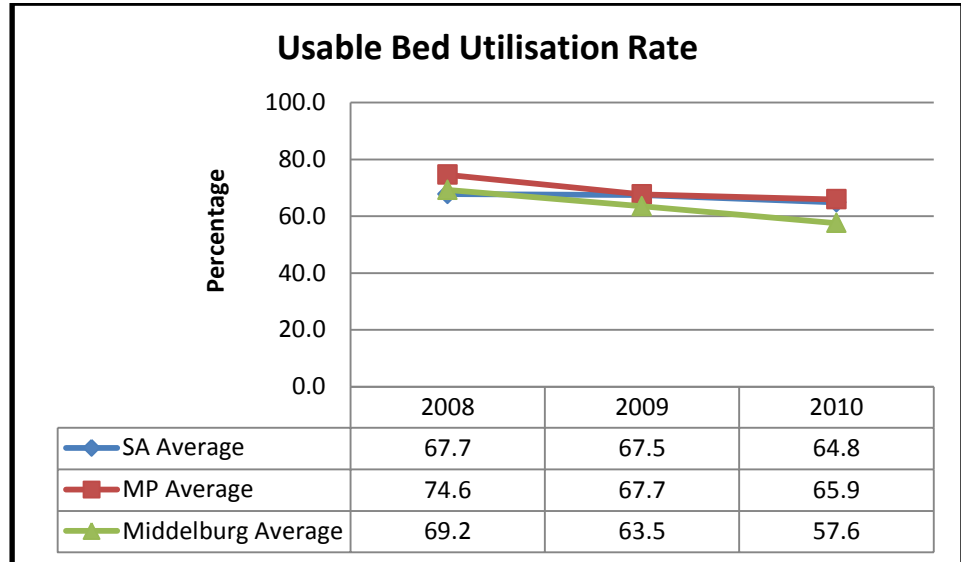
2. Cost per patient day equivalent (CpPDE): measure of efficiency in the hospital

The CpPDE increased substantially between 2008 and 2010. It was much higher than the national and provincial averages in 2010.



3. Usable bed utilisation rate (BUR): measures occupancy of beds which are available for use

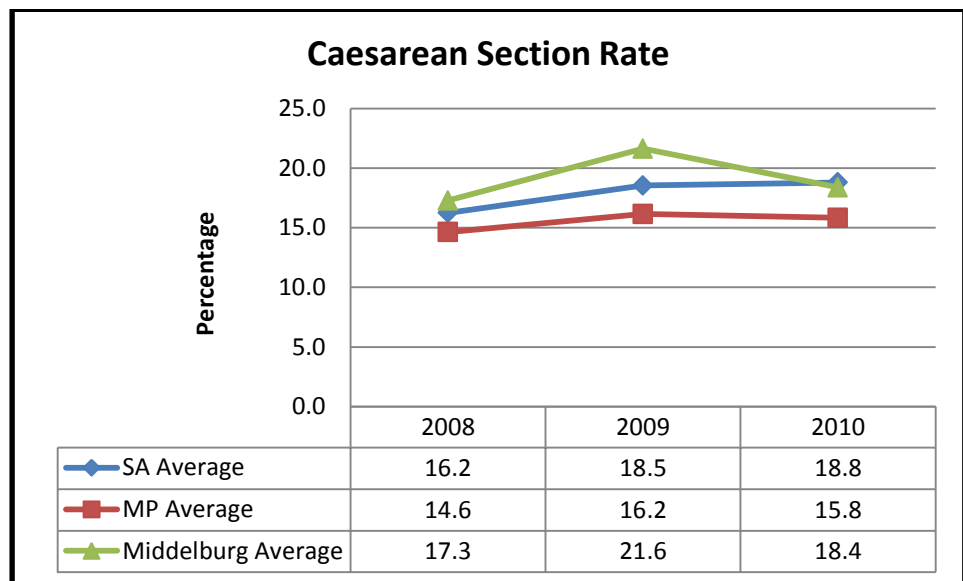
The BUR decreased steadily between 2008 and 2010. It was lower than the national and provincial averages in 2009 and 2010.



iii: Outcomes indicators

Caesarean section (CS) rate: proportion of deliveries for which a CS is performed

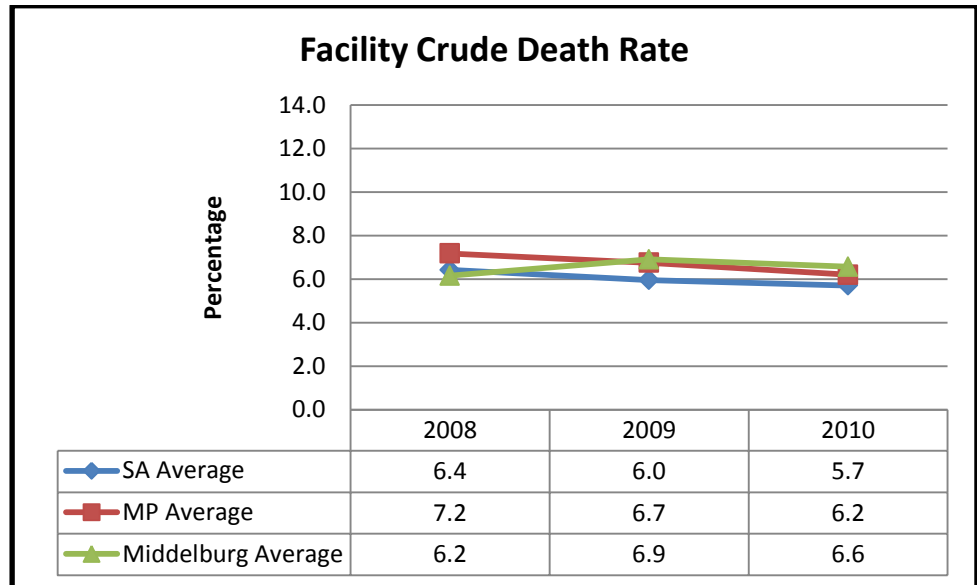
The CS rate fluctuated slightly between 2008 and 2010. It increased between 2008 and 2009 and decreased in 2010. It was higher than the provincial average in 2010.



iv: Impact Indicators

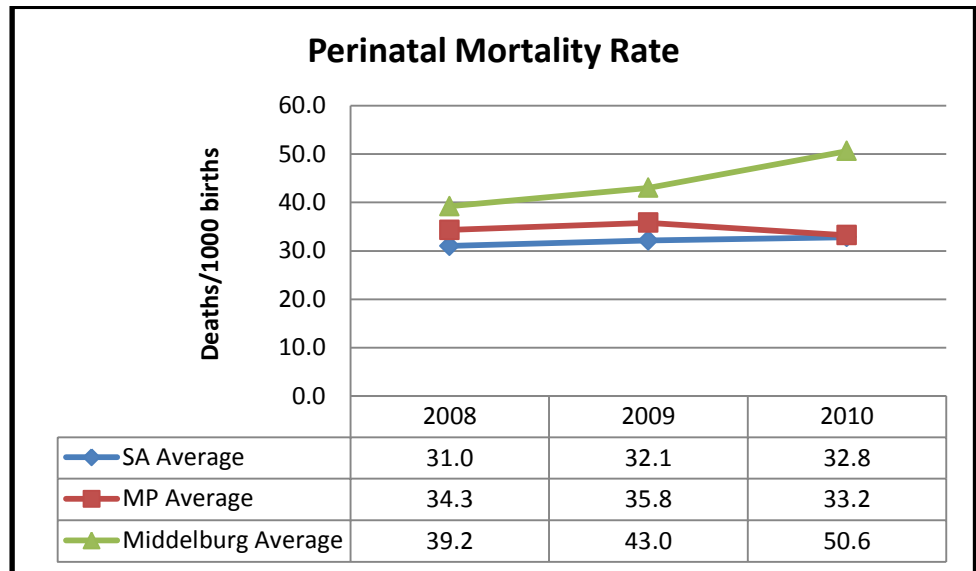
1. Facility crude death rate (FCDR): proportion of all inpatient separations that are deaths

The FCDR increased marginally between 2008 and 2010. It was higher than the national and provincial averages in 2009 and 2010.



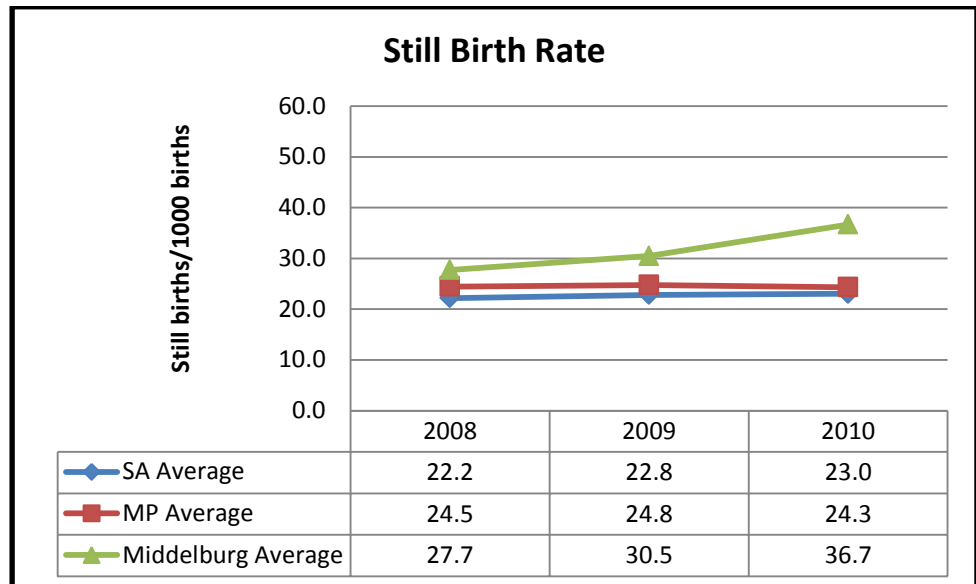
2. Perinatal mortality rate (PNMR) – the sum of still births + those babies dying within 7 days of life/1000 births

The PNMR increased over the reporting period. It was higher than the national and provincial averages throughout this period. The reasons for the high PNMR should be ascertained.



3. Still birth rate (SBR): number of babies born dead/1000 births

The SBR increased over the reporting period. It was higher than the national and provincial averages throughout this period. The reasons for the high SBR should be ascertained.



v: **Conclusions:**

The reasons for the high CpPDE should be ascertained. The declining BUR requires investigation. The reasons for the high PNMR and SBR should also be ascertained.

7. *KwaMhlanga Hospital*

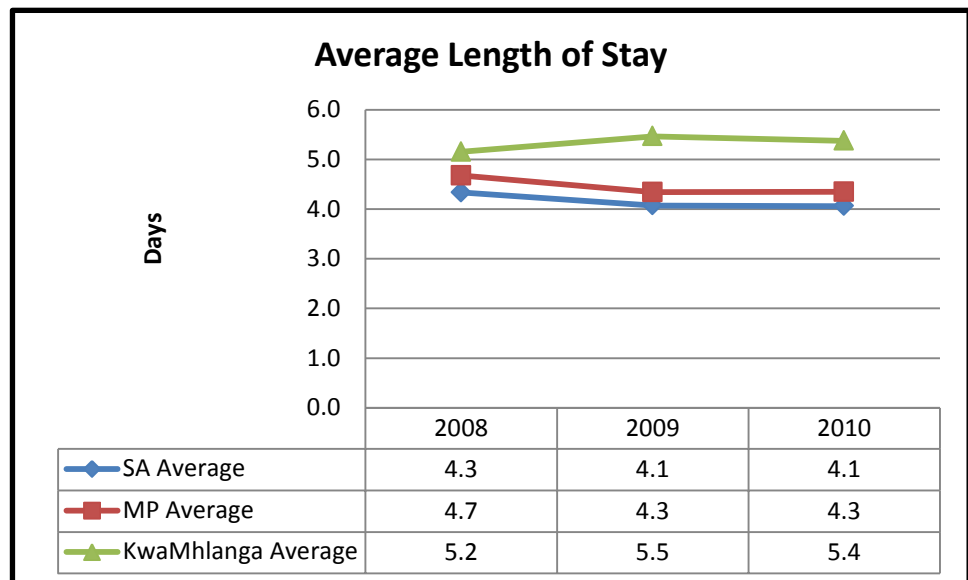
i: Description

KwaMhlanga District Hospital has 148 beds and lies in the Thembisile sub-district.

ii: Input and process indicators

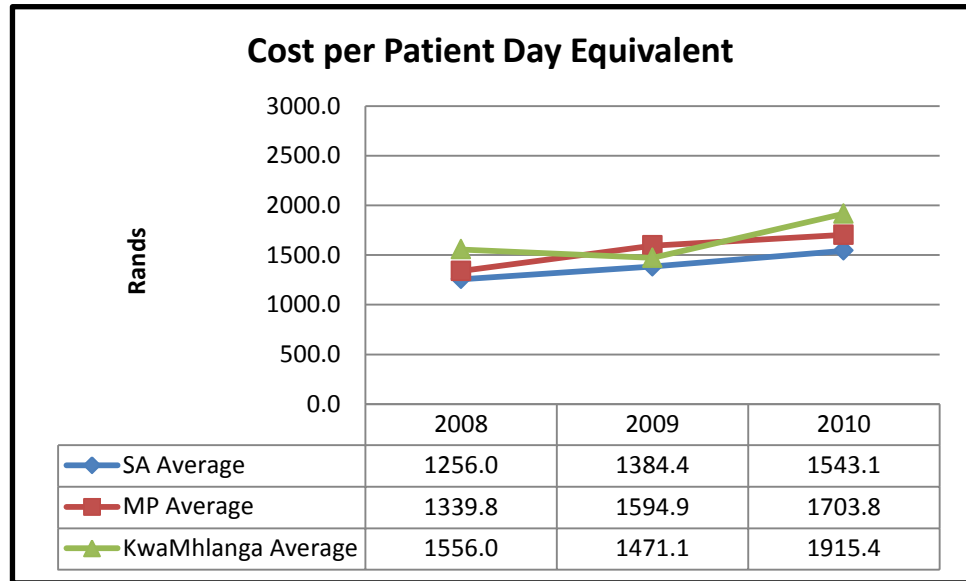
1. Average length of stay (ALOS) – the average length of time inpatients spend in hospital

The ALOS was relatively constant between 2008 and 2010. It was higher than the national and provincial averages throughout this period.



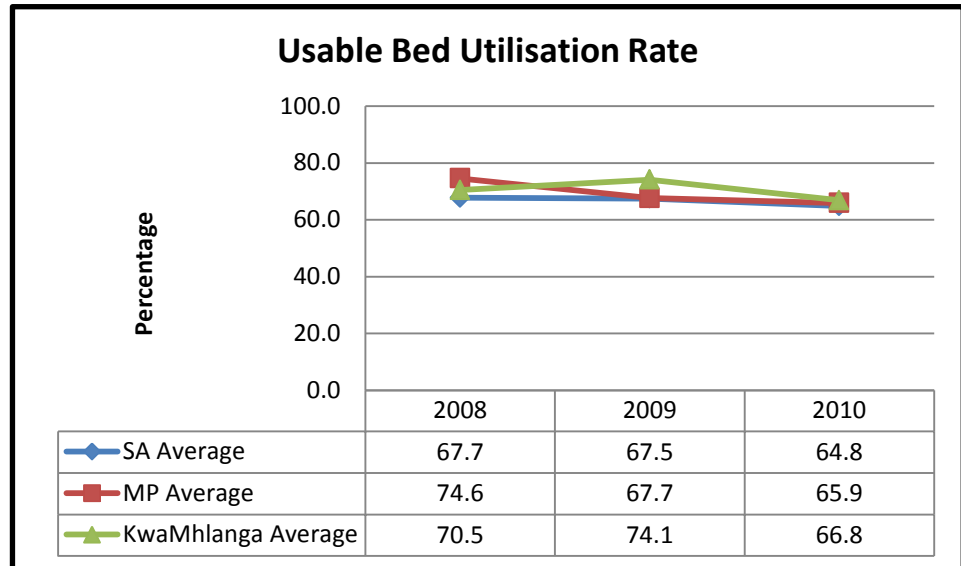
2. Cost per patient day equivalent (CpPDE): measure of efficiency in the hospital

The CpPDE fluctuated, decreasing between 2008 and 2009 and increasing to R1915 in 2010, when it was higher than the national and provincial averages.



3. Usable bed utilisation rate (BUR): measures occupancy of beds which are available for use

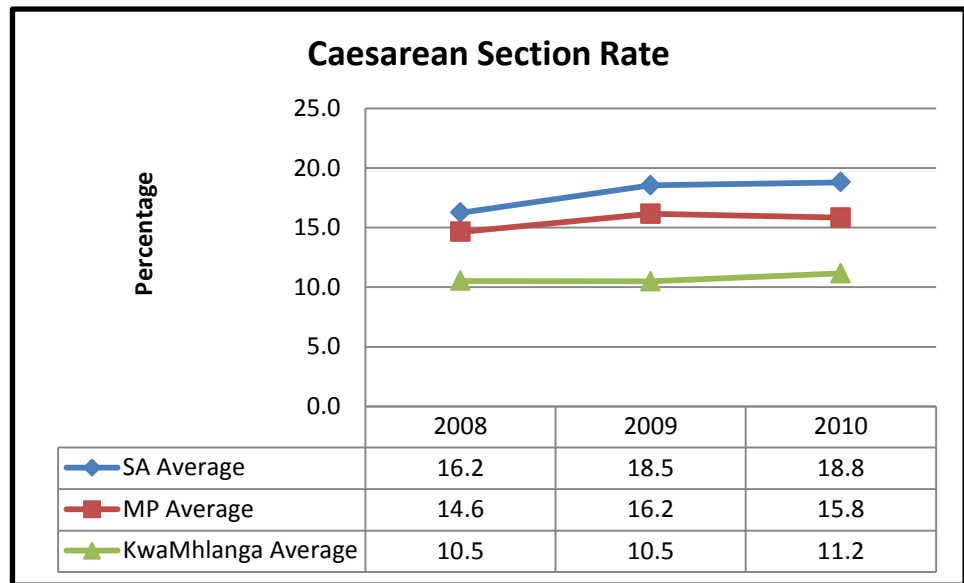
The BUR fluctuated slightly, increasing between 2008 and 2009 and then decreasing in 2010. It was in line with the national and provincial averages in 2010.



iii: Outcomes indicators

Caesarean section (CS) rate: proportion of deliveries for which a CS is performed

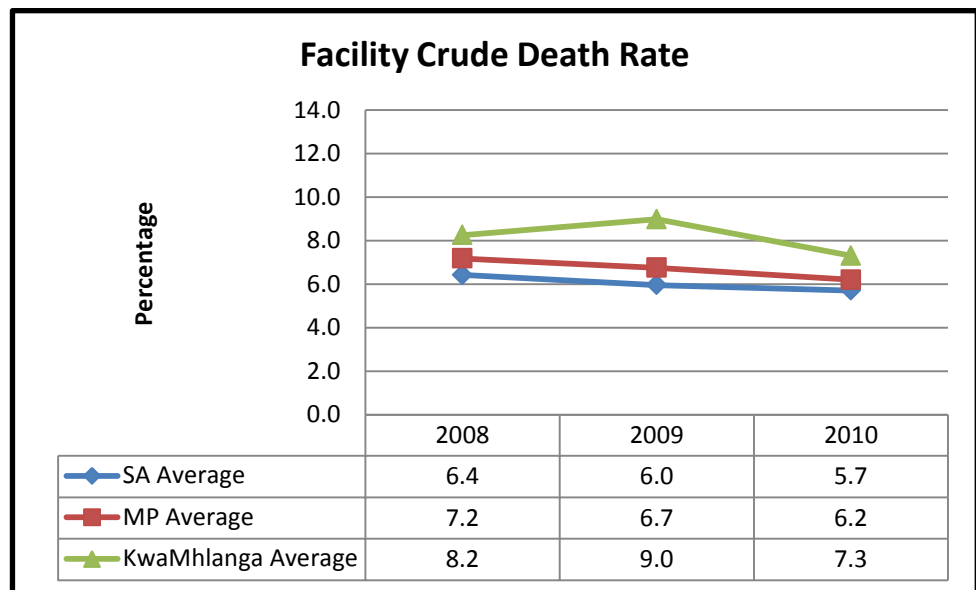
The CS rate was largely constant over the reporting period. It was lower than the national and provincial averages throughout this period.



iv: Impact Indicators

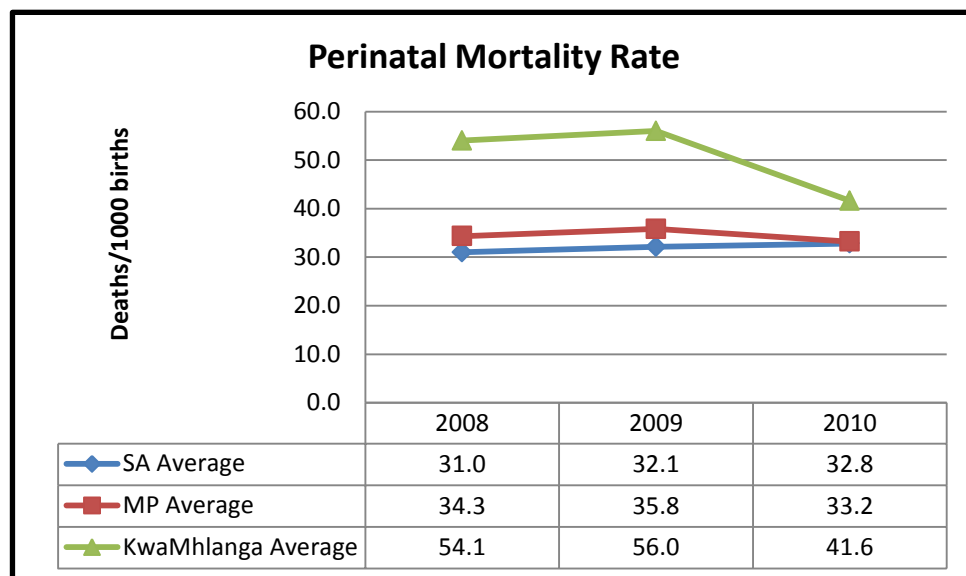
1. Facility crude death rate (FCDR): proportion of all inpatient separations that are deaths

The FCDR increased marginally between 2008 and 2009, before decreasing in 2010. It was higher than the national and provincial averages throughout this period.



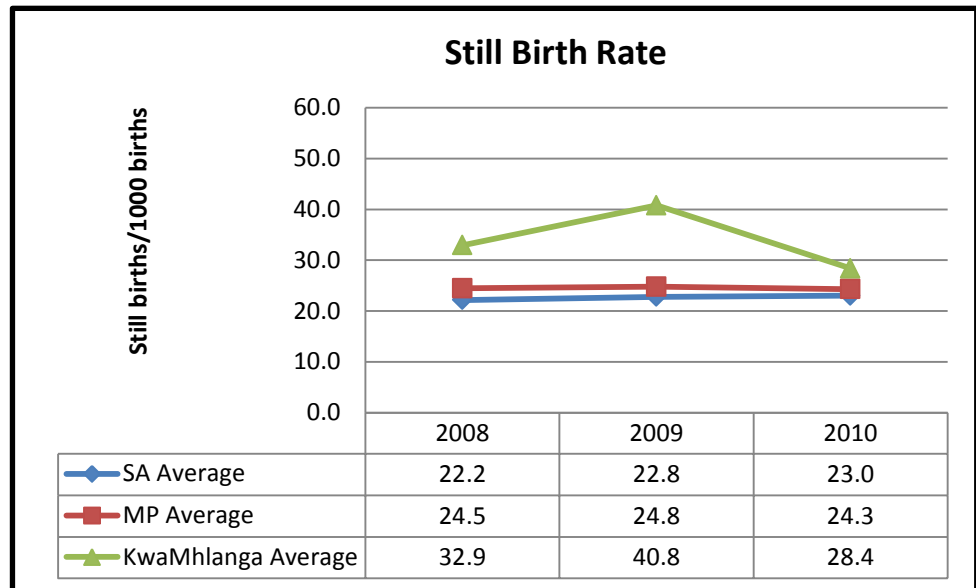
2. Perinatal mortality rate (PNMR) – the sum of still births + those babies dying within 7 days of life/1000 births

The PNMR increased slightly between 2008 and 2009 and then decreased substantially in 2010. It was significantly higher than the national and provincial averages throughout the reporting period. The reasons for the high PNMR should be ascertained.



3. Still birth rate (SBR): number of babies born dead/1000 births

The SBR fluctuated, increasing to a high rate of 41/1000 births in 2009 before decreasing in 2010. It was higher than the national and provincial averages throughout the reporting period. The data should be reviewed and the reasons for the fluctuation and the high rates observed ascertained.



v: **Conclusions:**

The reasons for the high CpPDE should be ascertained. Although the PNMR and SBR declined, they were higher than the national and provincial averages; the reasons for this should be ascertained. The SBR data should also be reviewed to ascertain the reasons for the fluctuation observed.

C Ehlanzeni – DC32

Ehlanzeni District had a population of approximately 1,563,857 people in 2010. It has 8 district hospitals, 105 clinics, 14 CHCs, 32 mobile services 1 specialised hospital and 1 provincial tertiary hospital.

1. *Matikwana Hospital*

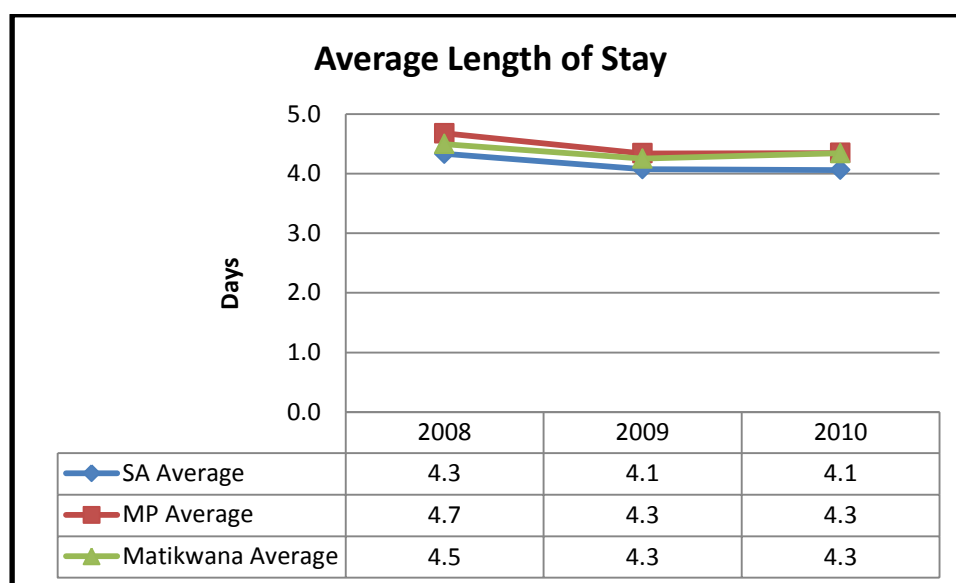
i: Description

Matikwana District Hospital has 178 beds and lies in the Bushbuckridge sub- district.

ii: Input and process indicators

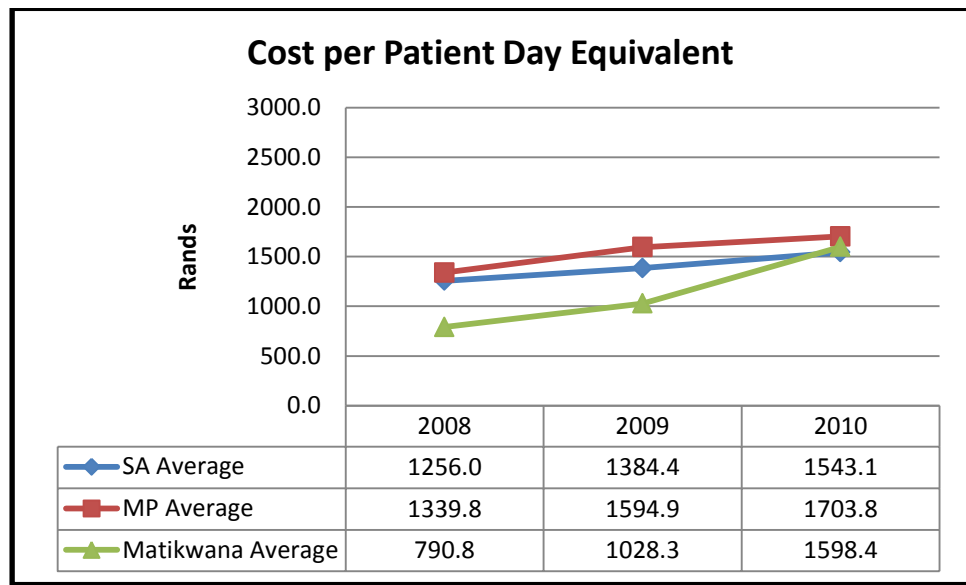
1. Average length of stay (ALOS) – the average length of time inpatients spend in hospital

The ALOS was relatively constant throughout the reporting period and was in line with the national and provincial averages.



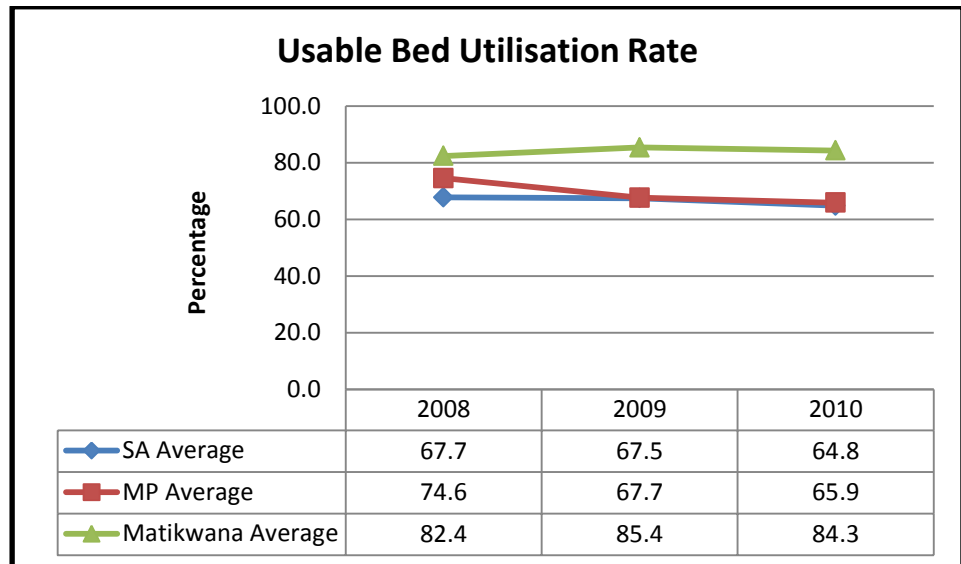
2. Cost per patient day equivalent (CpPDE): measure of efficiency in the hospital

The CpPDE was very low in 2008, and increased steadily over the reporting period. It was closer to national and provincial averages in 2010.



3. Usable bed utilisation rate (BUR): measures occupancy of beds which are available for use

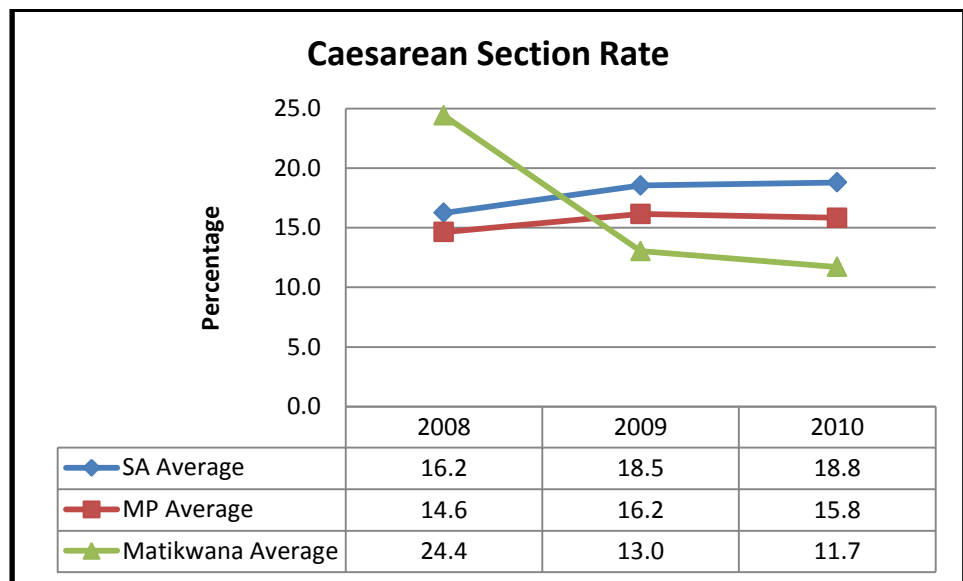
The BUR increased slightly between 2008 and 2010. It was higher than the national and provincial averages throughout this period.



iii: Outcomes indicators

Caesarean section (CS) rate: proportion of deliveries for which a CS is performed

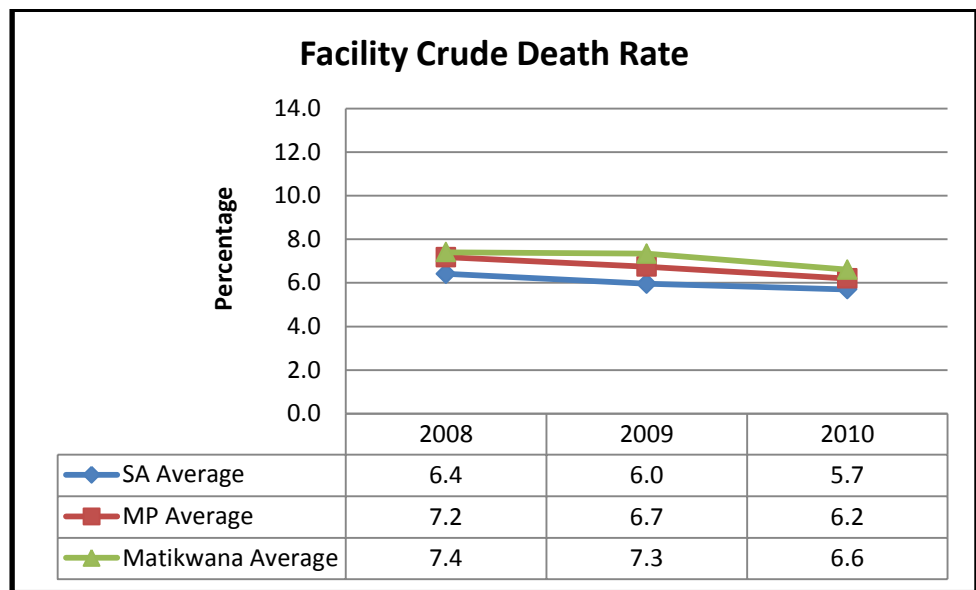
The CS rate decreased sharply between 2008 and 2009, with a further smaller decline in 2010. It was lower than the national and provincial averages in 2009 and 2010.



iv: Impact Indicators

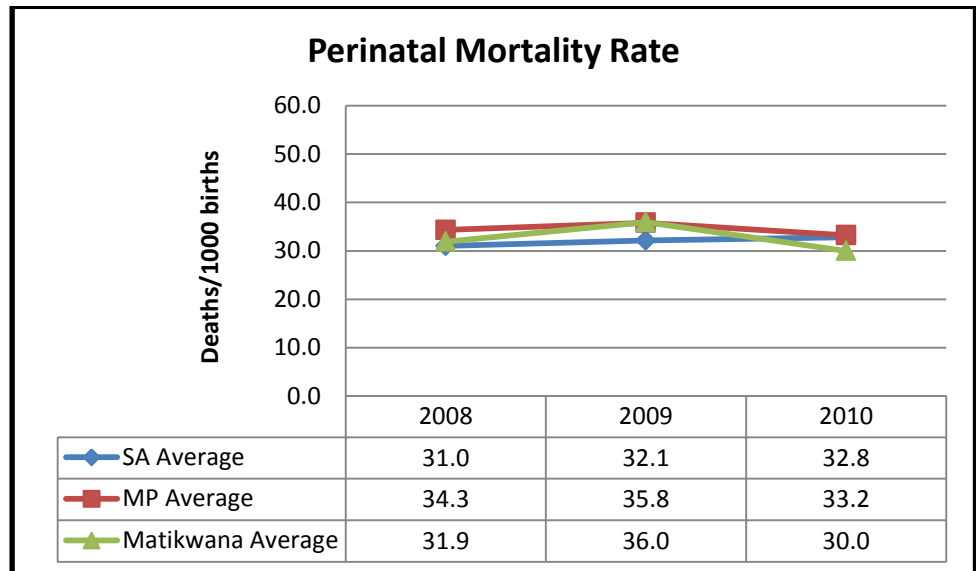
1. Facility crude death rate (FCDR): proportion of all inpatient separations that are deaths

The FCDR was constant between 2008 and 2009 and decreased in 2010. It was higher than the national and provincial averages throughout the reporting period.



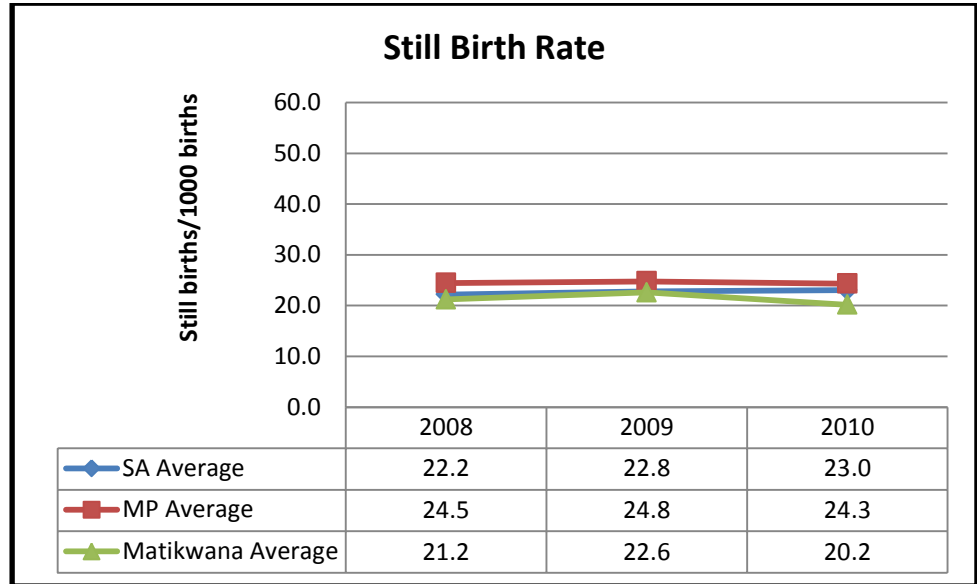
2. Perinatal mortality rate (PNMR) – the sum of still births + those babies dying within 7 days of life/1000 births

The PNMR fluctuated, increasing between 2008 and 2009, and then decreasing in 2010 to a rate in line with that observed in 2008. It was lower than the national and provincial averages in 2010.



3. Still birth rate (SBR): number of babies born dead/1000 births

The SBR was relatively constant throughout the reporting period and was lower than the national and provincial averages.



v: **Conclusions:**

The indicators for this hospital are generally below or in line with the national or provincial averages, and should be maintained.

2. *Tintswalo Hospital*

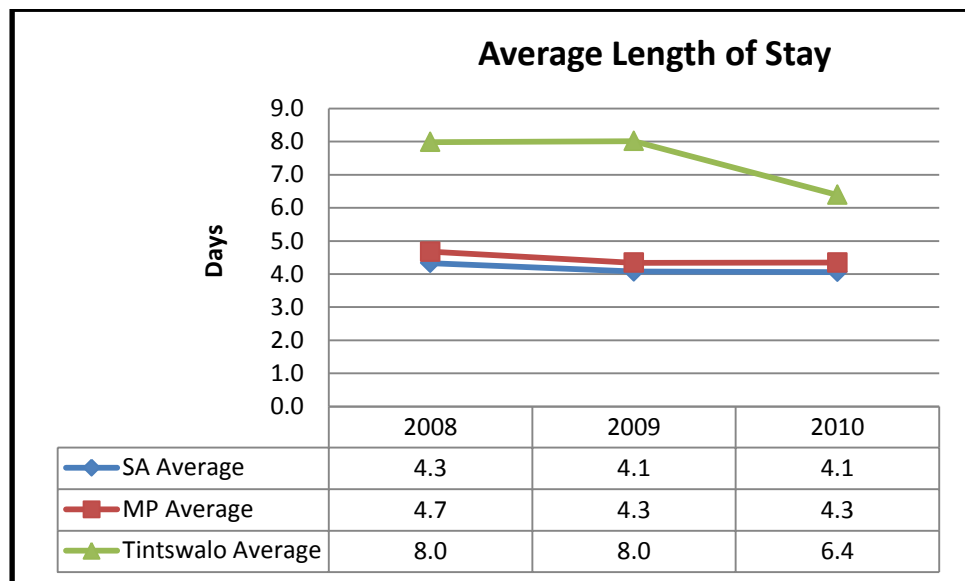
i: Description

Tintswalo District Hospital has 329 beds and lies in the Bushbuckridge sub-district.

ii: Input and process indicators

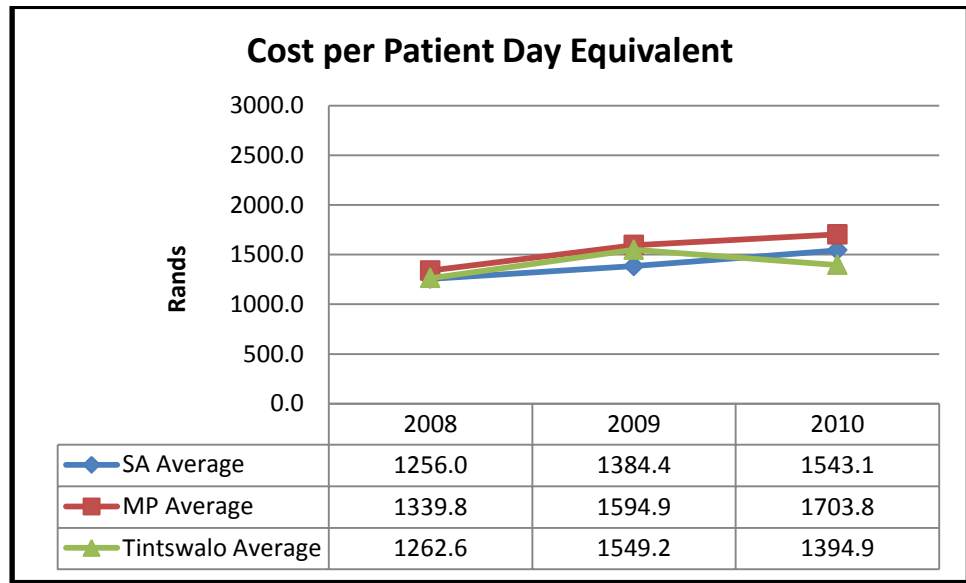
1. Average length of stay (ALOS) – the average length of time inpatients spend in hospital

The ALOS was high. It was constant at 8 days in 2008 and 2009 and decreased in 2010. It was higher than the national and provincial averages throughout the reporting period. The reasons for the high ALOS should be ascertained.



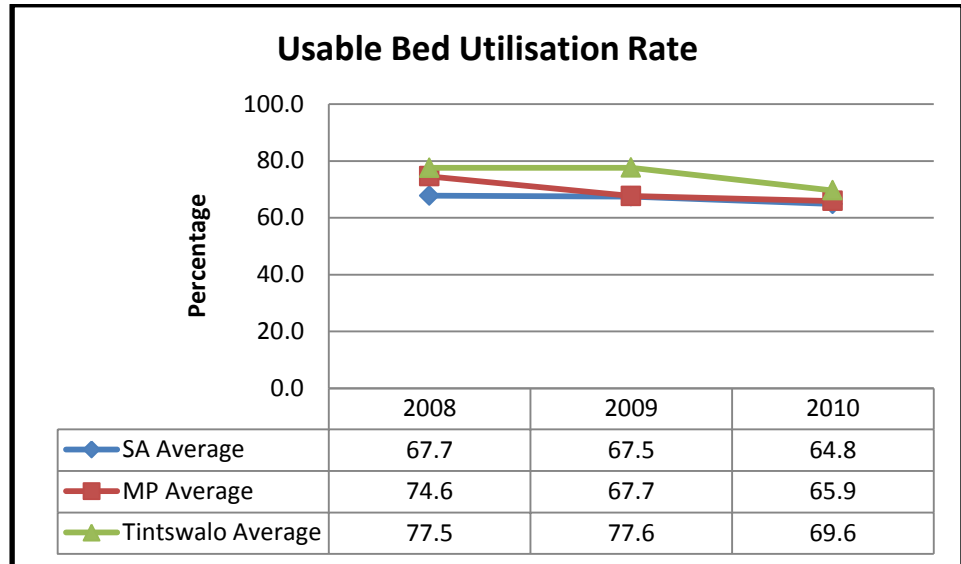
2. Cost per patient day equivalent (CpPDE): measure of efficiency in the hospital

The CpPDE fluctuated, increasing between 2008 and 2009 and then decreasing in 2010, when it was then lower than the national and provincial averages.



3. Usable bed utilisation rate (BUR): measures occupancy of beds which are available for use

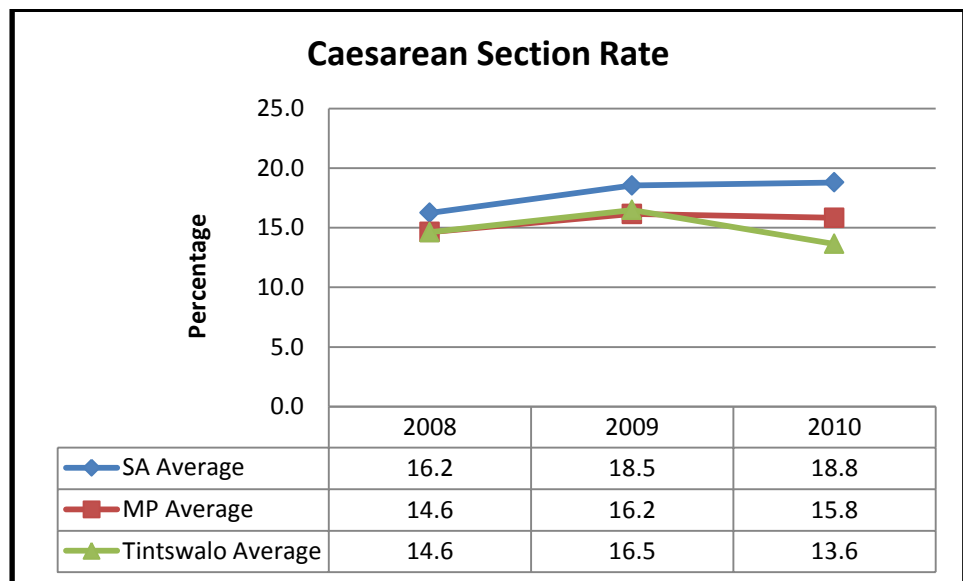
The BUR was constant in 2008 and 2009 and decreased in 2010. It was higher than the national and provincial averages throughout this period.



iii: Outcomes indicators

Caesarean section (CS) rate: proportion of deliveries for which a CS is performed

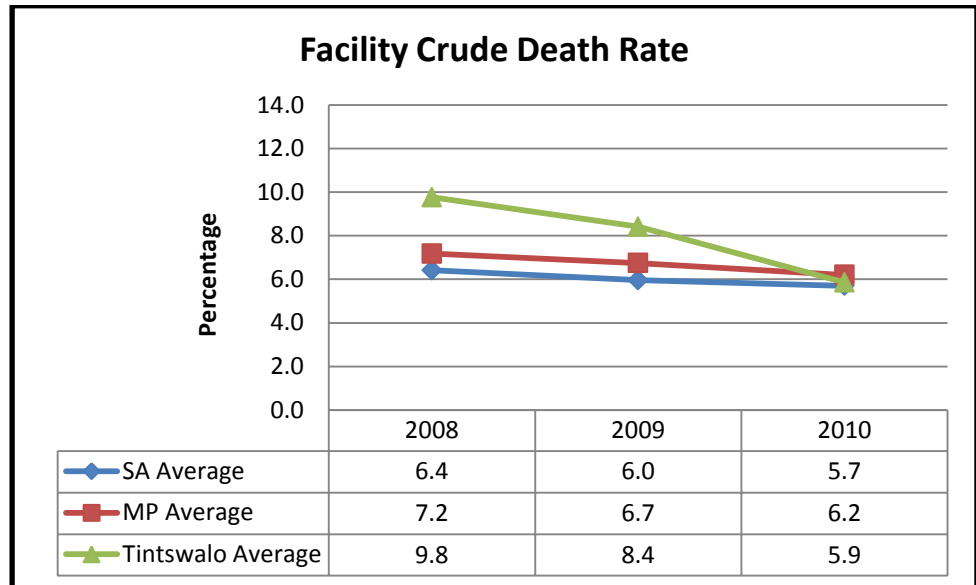
The CS rate increased slightly between 2008 and 2009 before decreasing in 2010. It was lower than the national and provincial averages in 2010.



iv: Impact Indicators

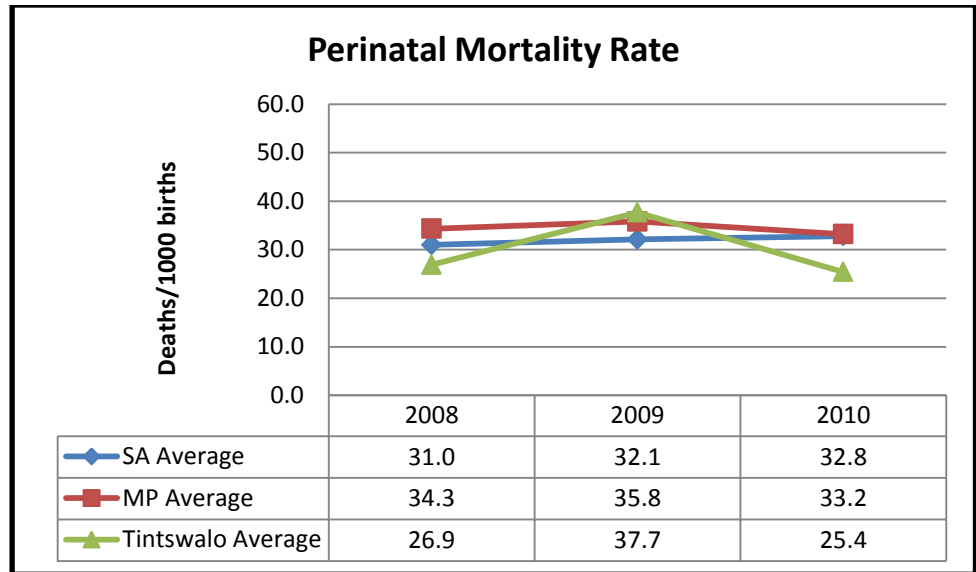
1. Facility crude death rate (FCDR): proportion of all inpatient separations that are deaths

The FCDR decreased over the reporting period. It was in line with the national and provincial averages in 2010.



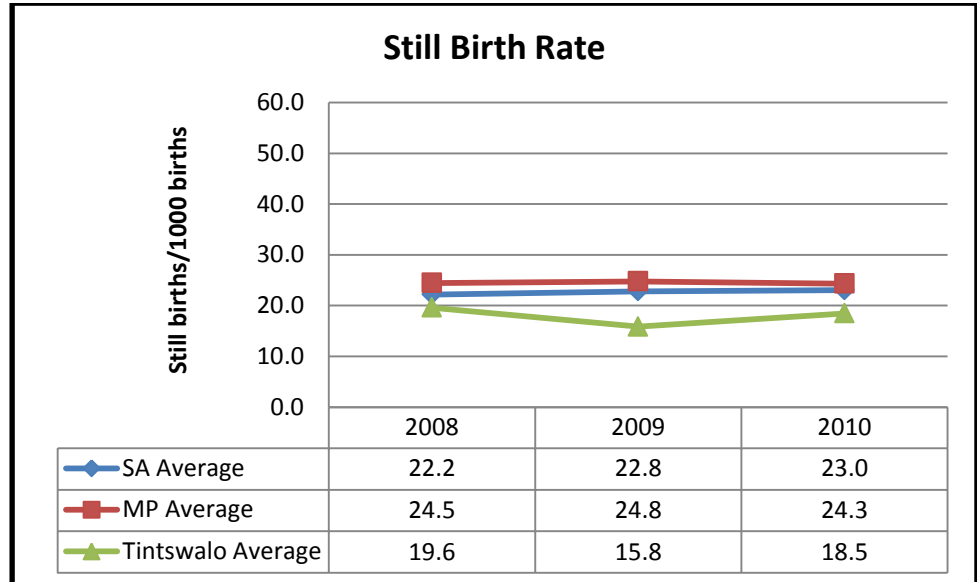
2. Perinatal mortality rate (PNMR) – the sum of still births + those babies dying within 7 days of life/1000 births

The PNMR fluctuated, increasing between 2008 and 2009, and then decreasing in 2010, when it was lower than the national and provincial averages. The data should be reviewed and the reasons for the fluctuation observed ascertained.



3. Still birth rate (SBR): number of babies born dead/1000 births

The SBR fluctuated slightly. It was lower than the national and provincial averages throughout the reporting period.



v: **Conclusions:**

The reasons for the high ALOS should be ascertained. The PNMR data should be reviewed and the reasons for the fluctuation observed ascertained.

3. *Barberton Hospital*

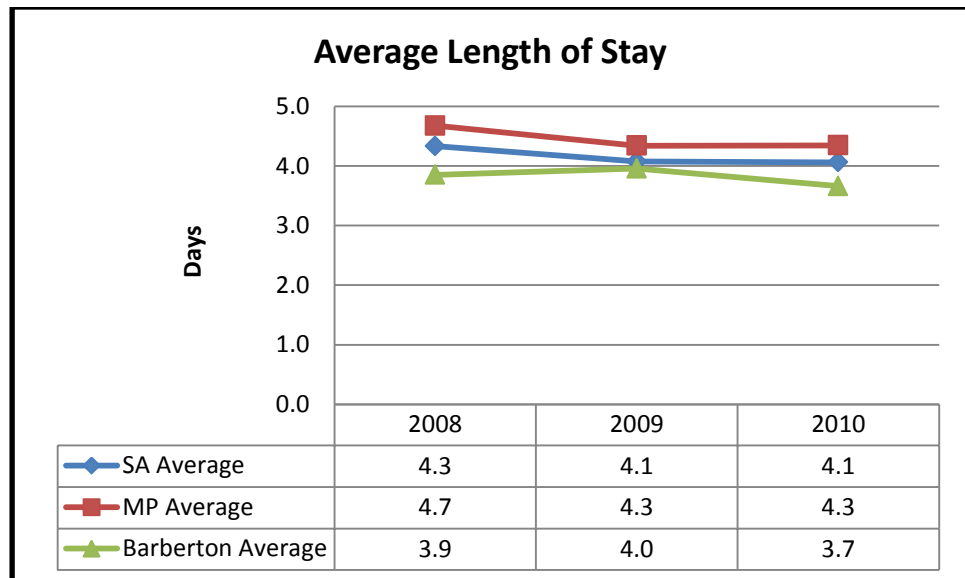
i: **Description**

Barberton District Hospital has 155 beds and lies in the Umjindi sub-district.

ii: **Input and process indicators**

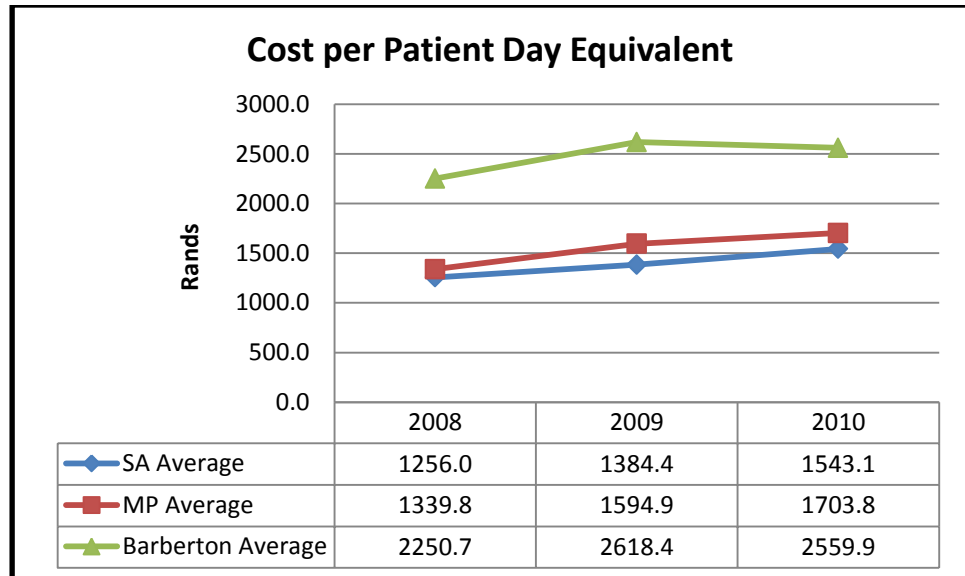
1. **Average length of stay (ALOS) – the average length of time inpatients spend in hospital**

The ALOS was relatively constant, and was lower than the national and provincial averages.



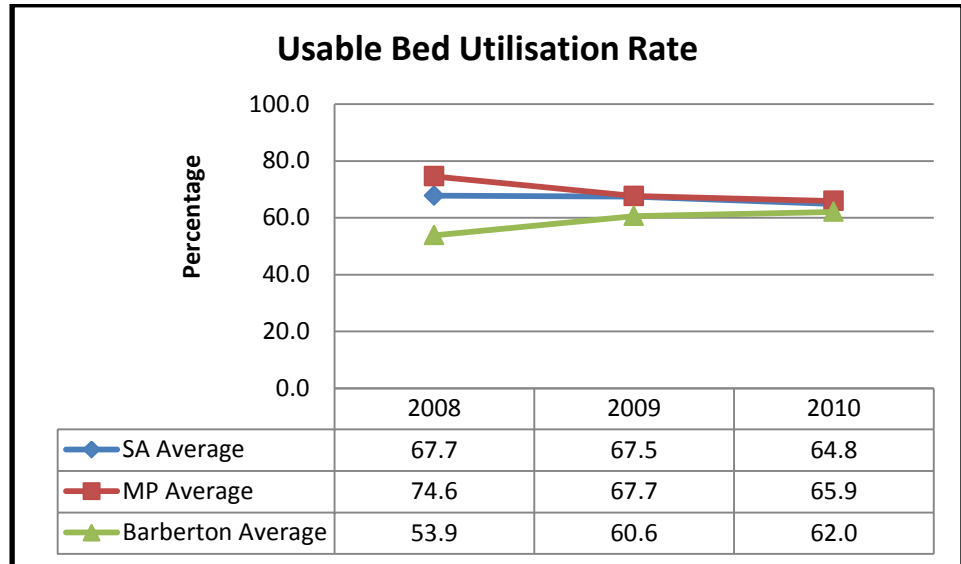
2. Cost per patient day equivalent (CpPDE): measure of efficiency in the hospital

The CpPDE increased steadily between 2008 and 2010. It was significantly higher than the national and provincial averages throughout the reporting period. The reasons for this high CpPDE should be ascertained.



3. Usable bed utilisation rate (BUR): measures occupancy of beds that are available for use

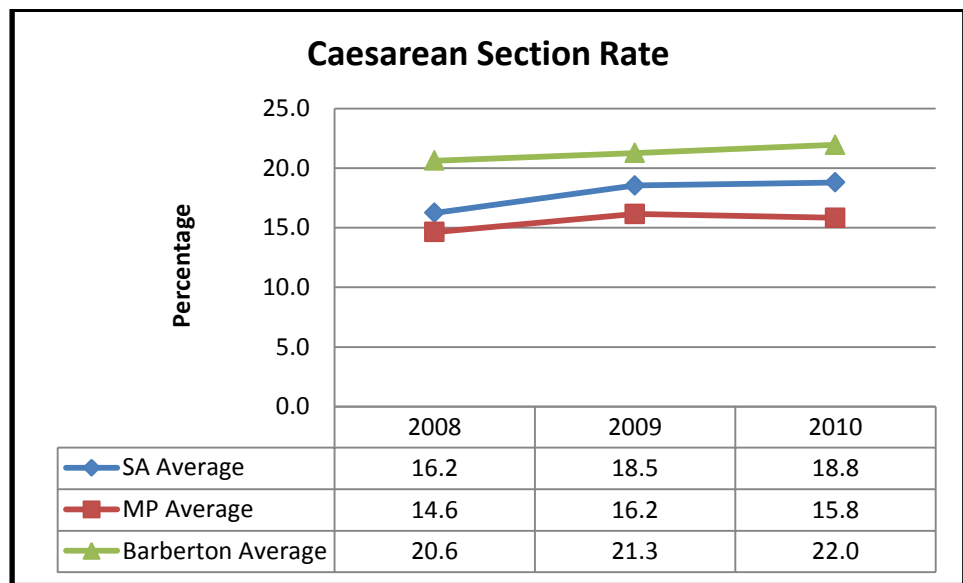
The BUR increased steadily between 2008 and 2010. It was lower than the national and provincial averages throughout this period.



iii: Outcomes indicators

Caesarean section (CS) rate: proportion of deliveries for which a CS is performed

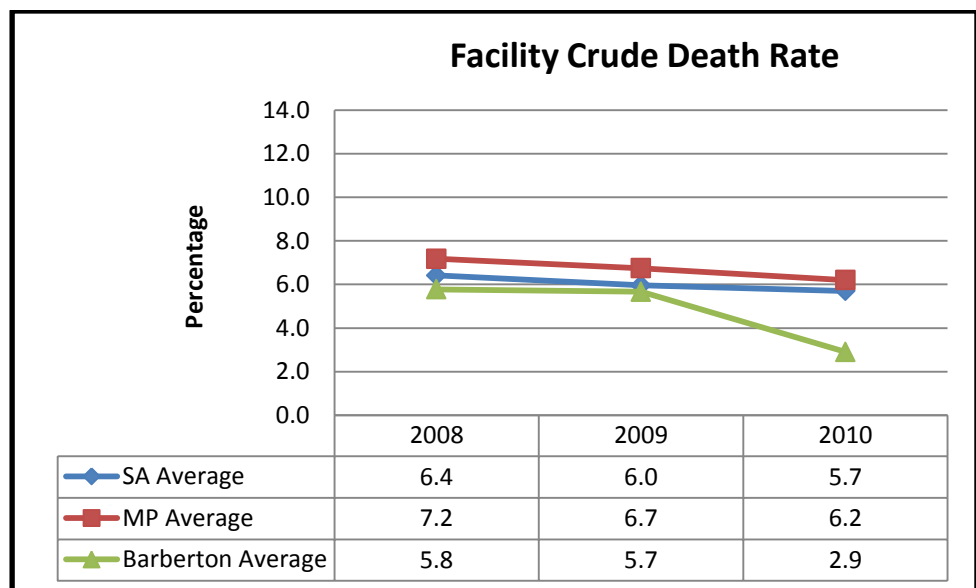
The CS rate increased marginally between 2008 and 2010. It was higher than the national and provincial averages throughout this period. The reasons for this high rate should be ascertained.



iv: Impact Indicators

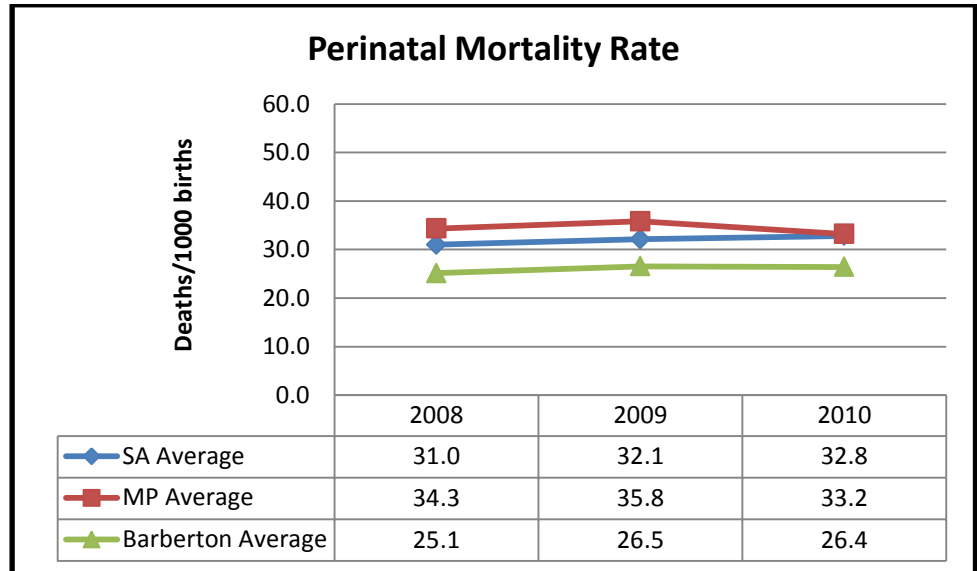
1. Facility crude death rate (FCDR): proportion of all inpatient separations that are deaths

The FCDR was constant in 2008 and 2010, and decreased significantly in 2010. It was much lower than the national and provincial averages in 2010. These data should be reviewed to confirm the very low rate observed in 2010.



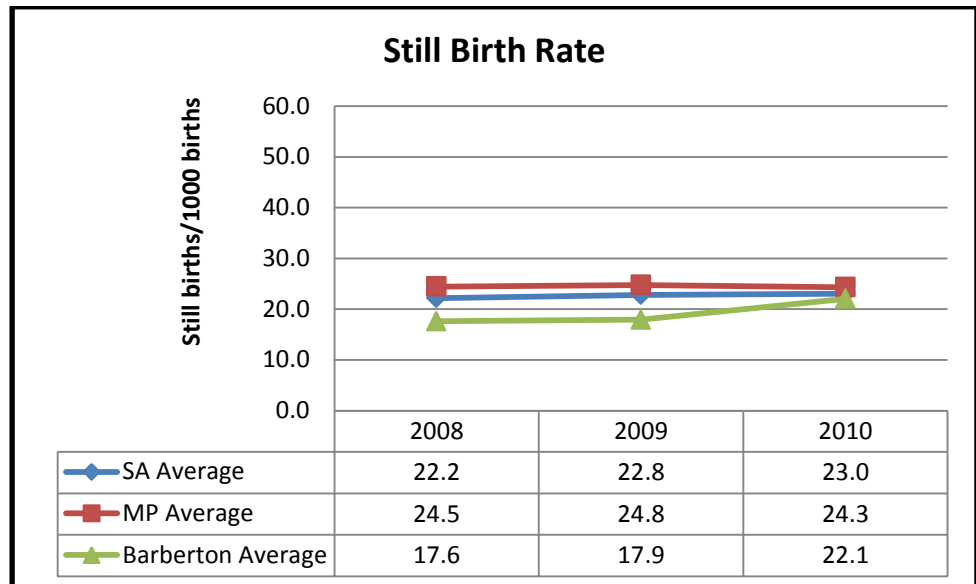
2. Perinatal mortality rate (PNMR) – the sum of still births + those babies dying within 7 days of life/1000 births

The PNMR was relatively constant between 2008 and 2010 and was lower than the national and provincial averages.



3. Still birth rate (SBR): number of babies born dead/1000 births

The SBR was constant in 2008 and 2009, and increased to 22/1000 births in 2010, when it was then generally in line with the national and provincial averages.



v: **Conclusions:**

The reasons for the high CpPDE, and the high CS rates should be ascertained. The FCDR data should be reviewed to confirm the very low rate observed in 2010.

4. Lydenburg Hospital

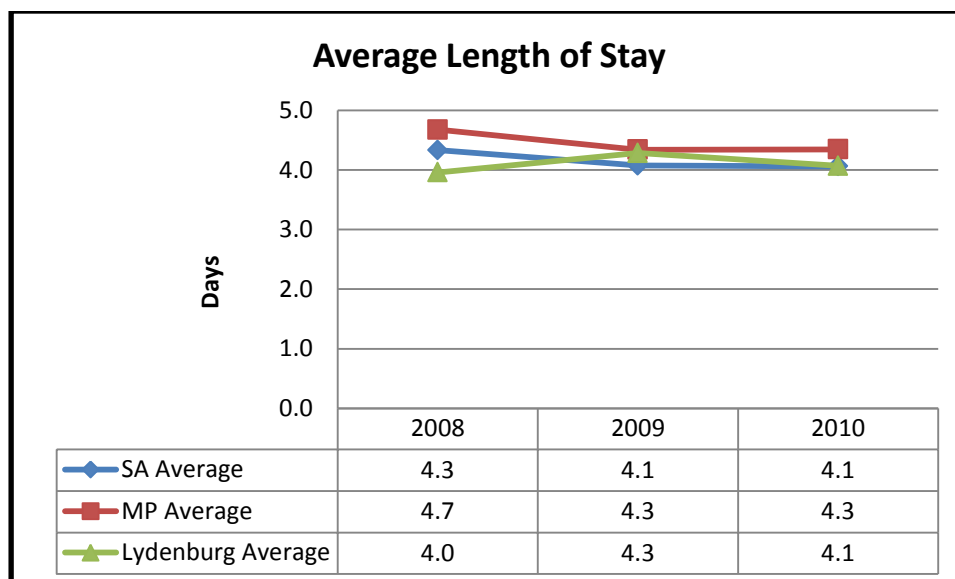
i: Description

Lydenburg District Hospital has 90 beds and lies in the Thaba Chweu sub-district.

ii: Input and process indicators

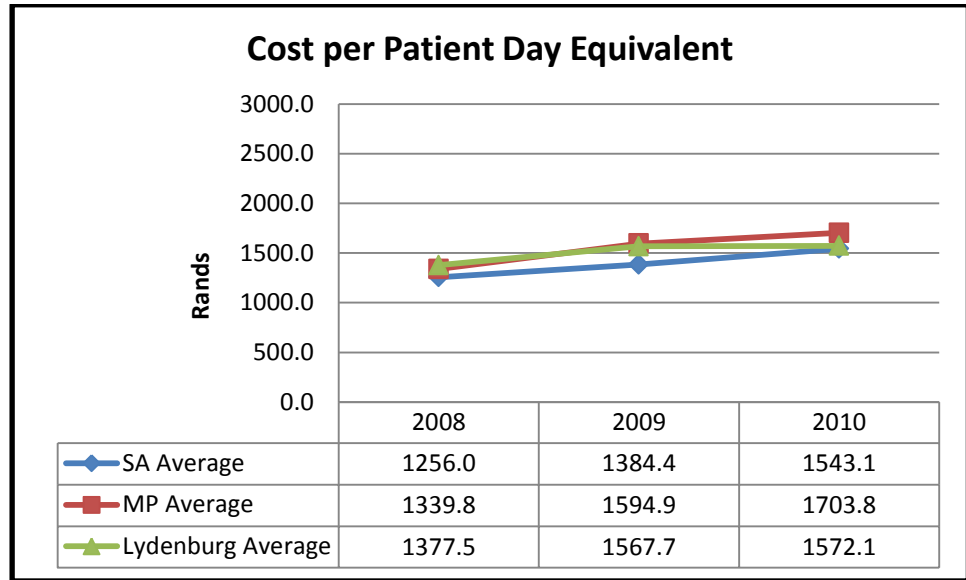
1. Average length of stay (ALOS) – the average length of time inpatients spend in hospital

The ALOS was relatively constant, and was in line with the national and provincial averages in 2009 and 2010.



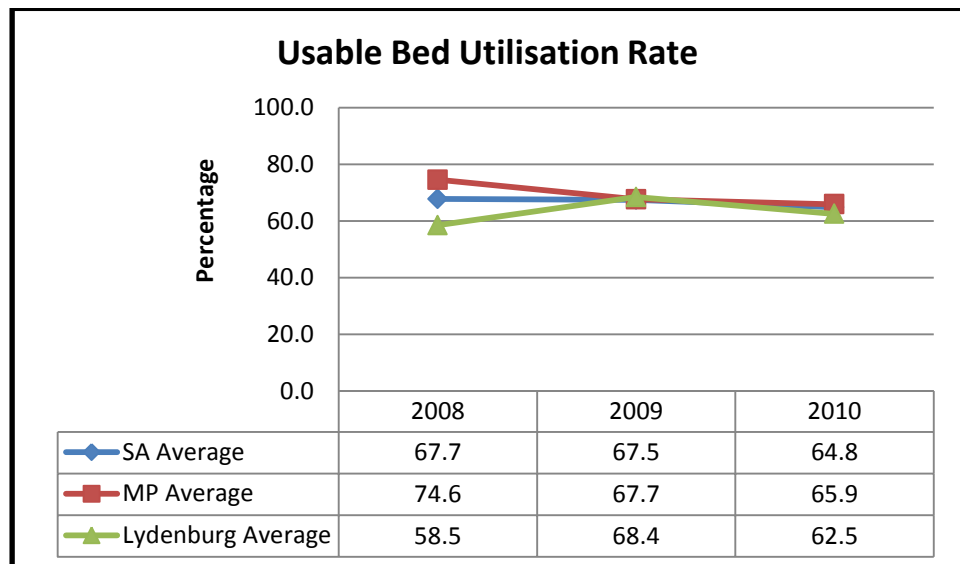
2. Cost per patient day equivalent (CpPDE): measure of efficiency in the hospital

The CpPDE increased over the reporting period. It was in line with the national average and was lower than the provincial average in 2010.



3. Usable bed utilisation rate (BUR): measures occupancy of beds which are available for use

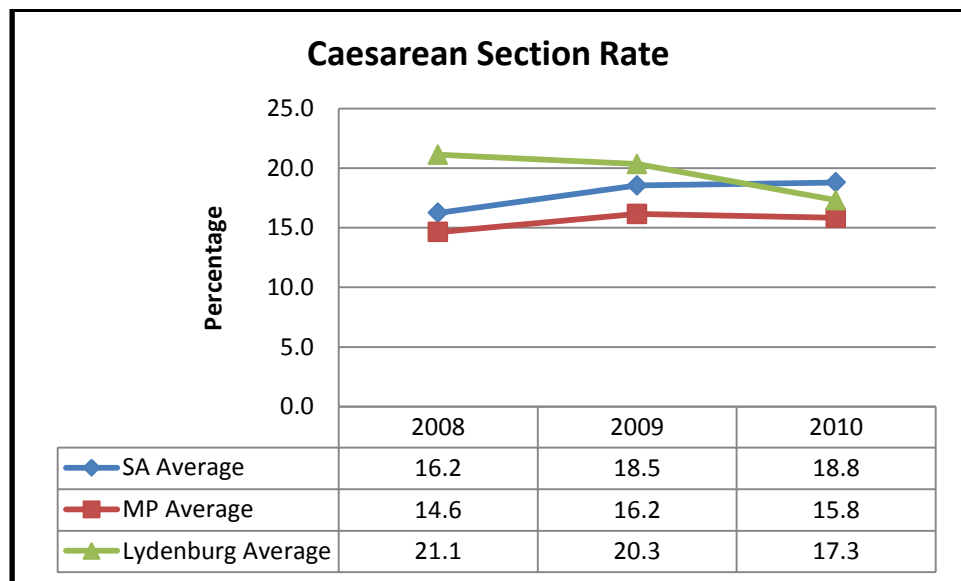
The BUR fluctuated, increasing to 68% in 2009 and then decreasing in 2010. It was lower than the national and provincial averages throughout the reporting period.



iii: Outcomes indicators

Caesarean section (CS) rate: proportion of deliveries for which a CS is performed

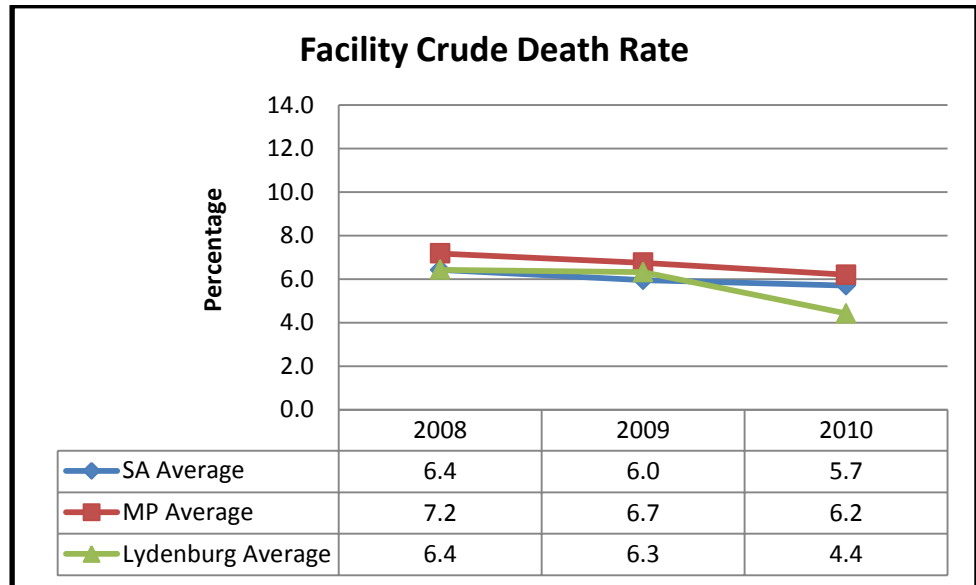
The CS rate decreased over the reporting period reaching a rate of 17% in 2010. It was higher than the provincial averages throughout this period, and was lower than the national average in 2010.



iv: Impact Indicators

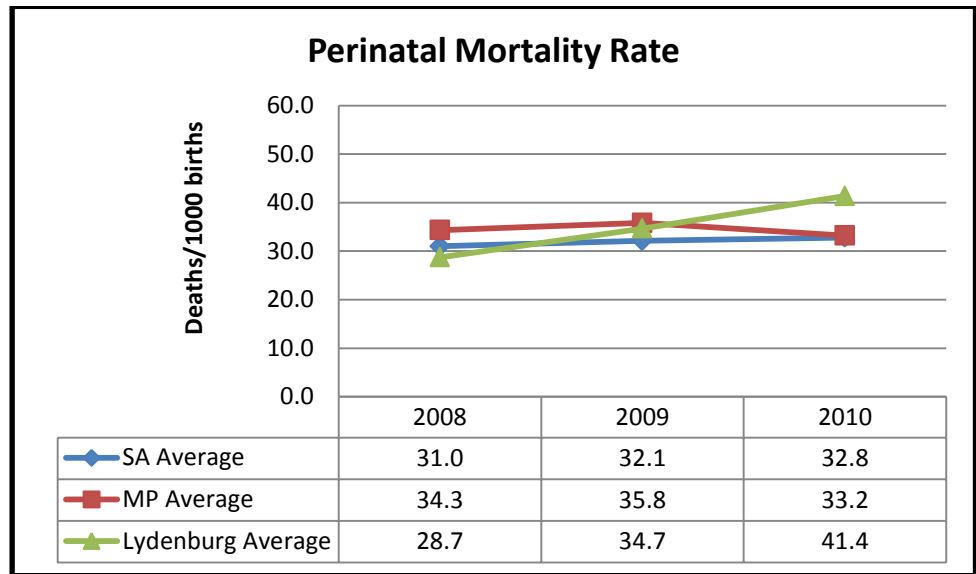
1. Facility crude death rate (FCDR): proportion of all inpatient separations that are deaths

The FCDR decreased over the reporting period. It was lower than the national and provincial averages in 2010.



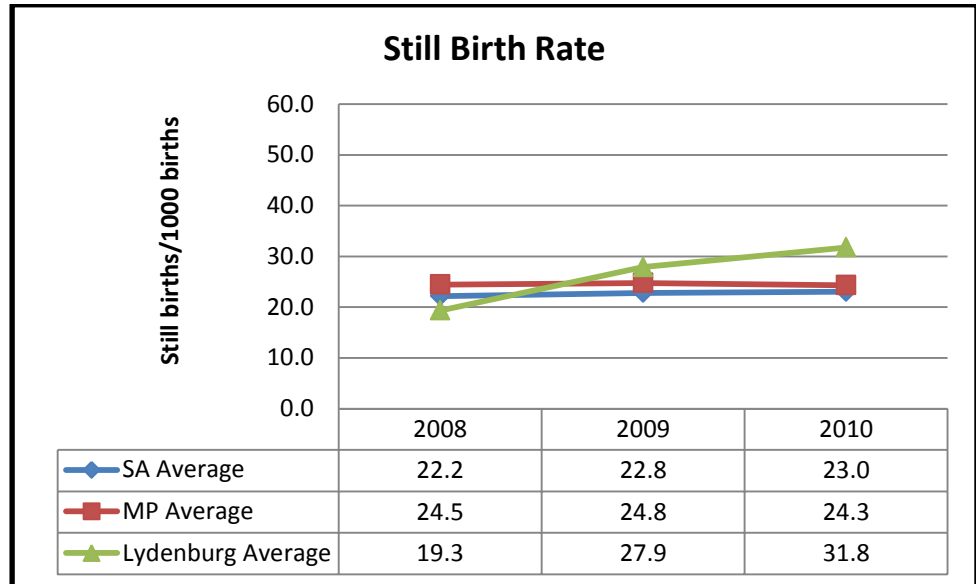
2. Perinatal mortality rate (PNMR) – the sum of still births + those babies dying within 7 days of life/1000 births

The PNMR increased steadily between 2008 and 2010, and was higher than the national and provincial averages in 2010. The reasons for this increase should be ascertained.



3. Still birth rate (SBR): number of babies born dead/1000 births

The SBR increased significantly over the reporting period and was higher than the national and provincial averages in 2010. The reasons for this increase should be ascertained.



v: **Conclusions:**

The reasons for the high PNMR and SBR should be ascertained.

5. Sabie Hospital

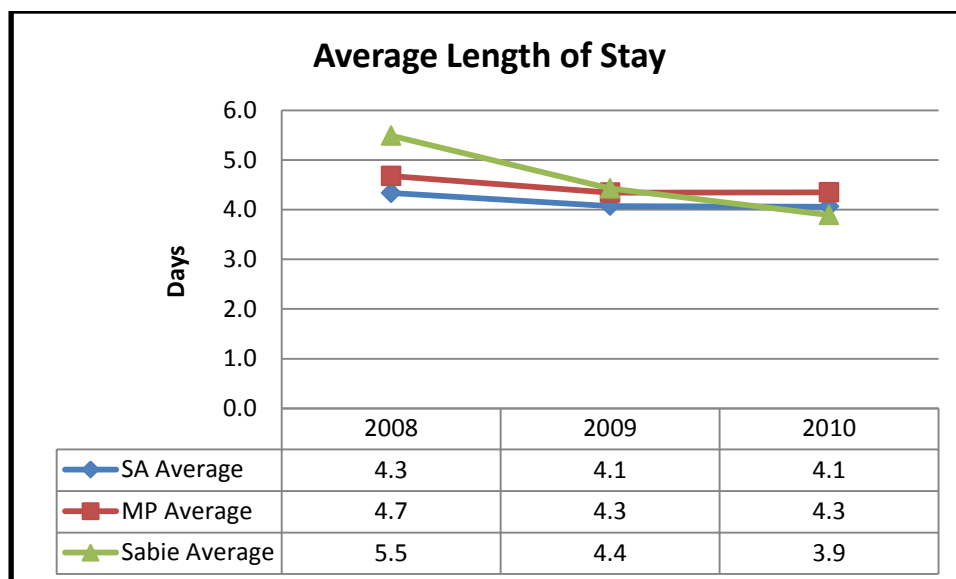
i: Description

Sabie District Hospital has 83 beds and lies in the Thaba Chweu sub-district.

ii: Input and process indicators

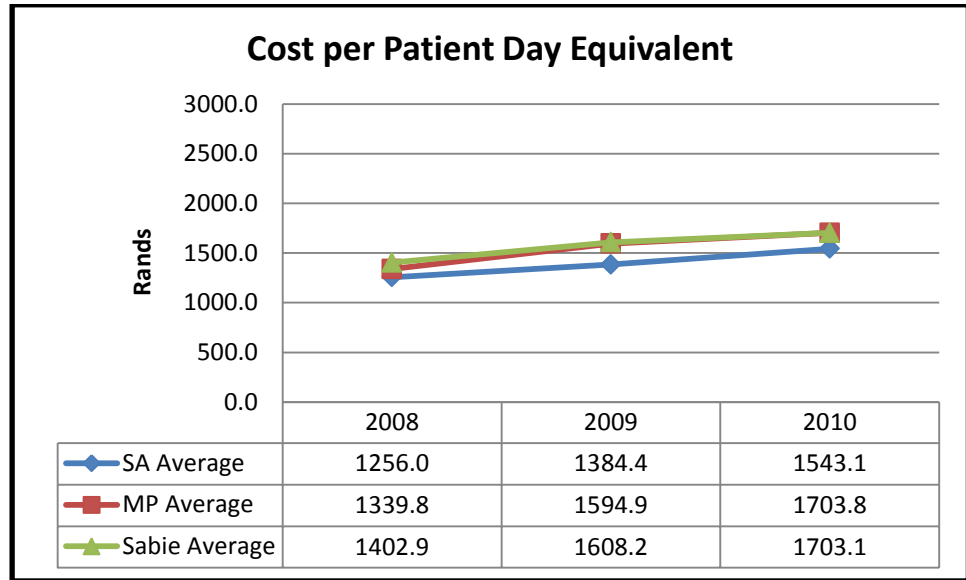
1. Average length of stay (ALOS) – the average length of time inpatients spend in hospital

The ALOS decreased between 2008 and 2010, and was lower than the provincial average in 2010.



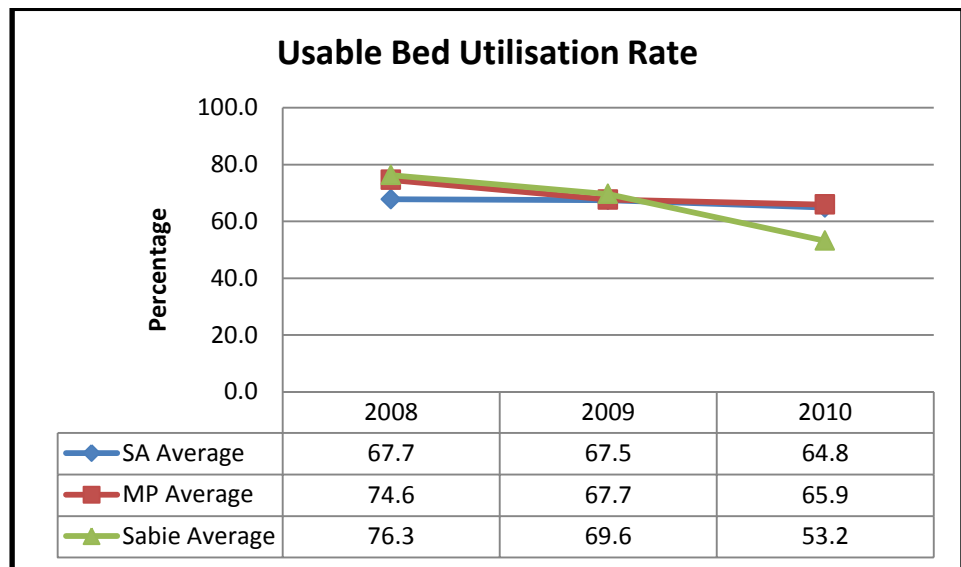
2. Cost per patient day equivalent (CpPDE): measure of efficiency in the hospital

The CpPDE increased steadily over the reporting period. It was in line with the provincial average but higher than the national average in 2010.



3. Usable bed utilisation rate (BUR): measures occupancy of beds which are available for use

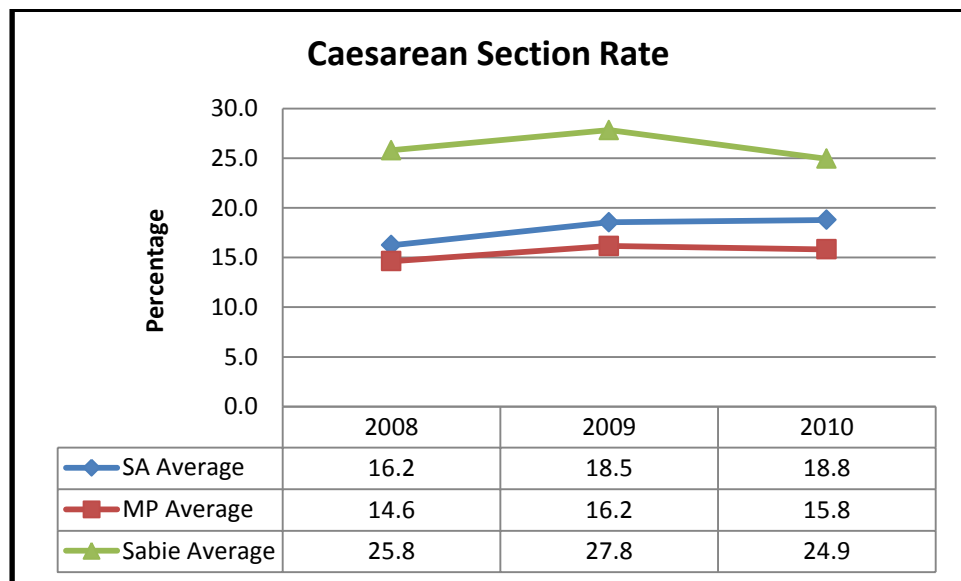
The BUR declined significantly over the reporting period to a level well below the national and provincial averages in 2010. The reasons for this significant decline should be ascertained.



iii: Outcomes indicators

Caesarean section (CS) rate: proportion of deliveries for which a CS is performed

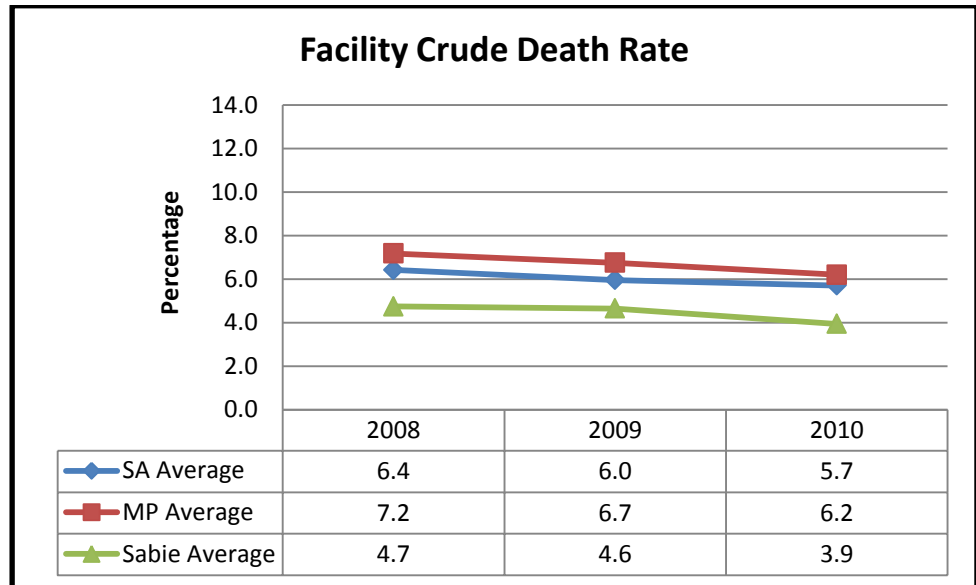
The CS rate fluctuated marginally. It was significantly higher than the national and provincial averages throughout the reporting period. The reasons for the high rates should be ascertained.



iv: Impact Indicators

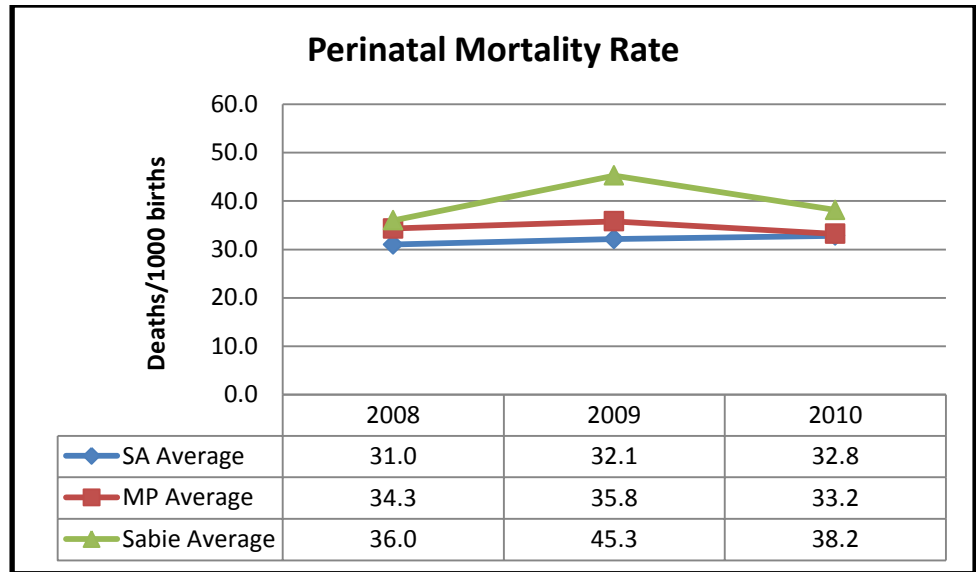
1. Facility crude death rate (FCDR): proportion of all inpatient separations that are deaths

The FCDR declined over the reporting period. It was lower than the national and provincial averages throughout this period.



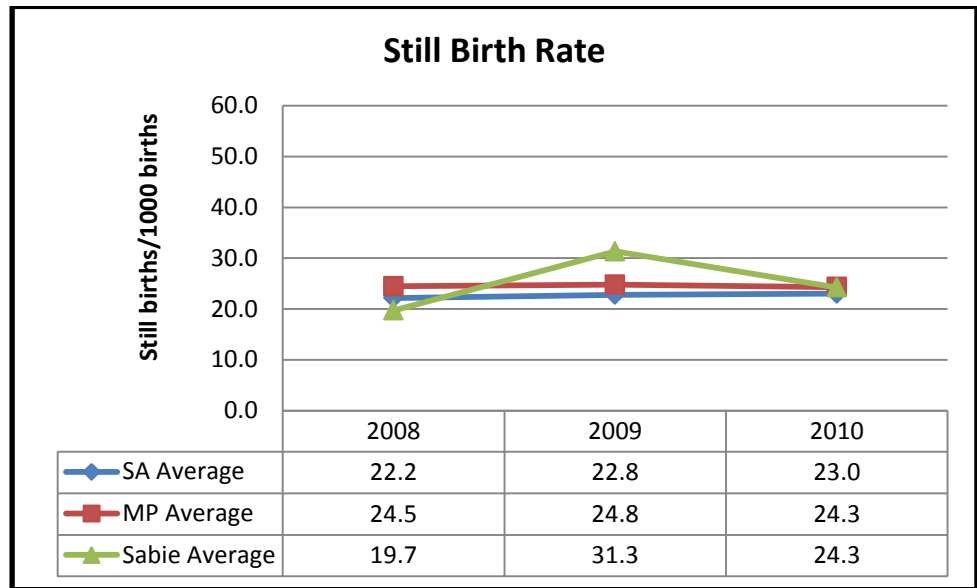
2. Perinatal mortality rate (PNMR) – the sum of still births + those babies dying within 7 days of life/1000 births

The PNMR fluctuated, increasing between 2008 and 2009 and then decreasing in 2010. It was higher than the national and provincial averages throughout the reporting period. The data should be reviewed to ascertain the reasons for the fluctuation observed.



3. Still birth rate (SBR): number of babies born dead/1000 births

The SBR also fluctuated, increasing between 2008 and 2009 before decreasing in 2010. It was in line with the national and provincial averages in 2010. The data should be reviewed to ascertain the reasons for the fluctuation observed.



v: **Conclusions:**

The reasons for the low BUR in 2010 should be ascertained. The reasons for the high CS rates and the high PNMR should also be ascertained. The PNMR and SBR data should be reviewed to ascertain the reasons for the fluctuations observed.

6. *Matibidi Hospital*

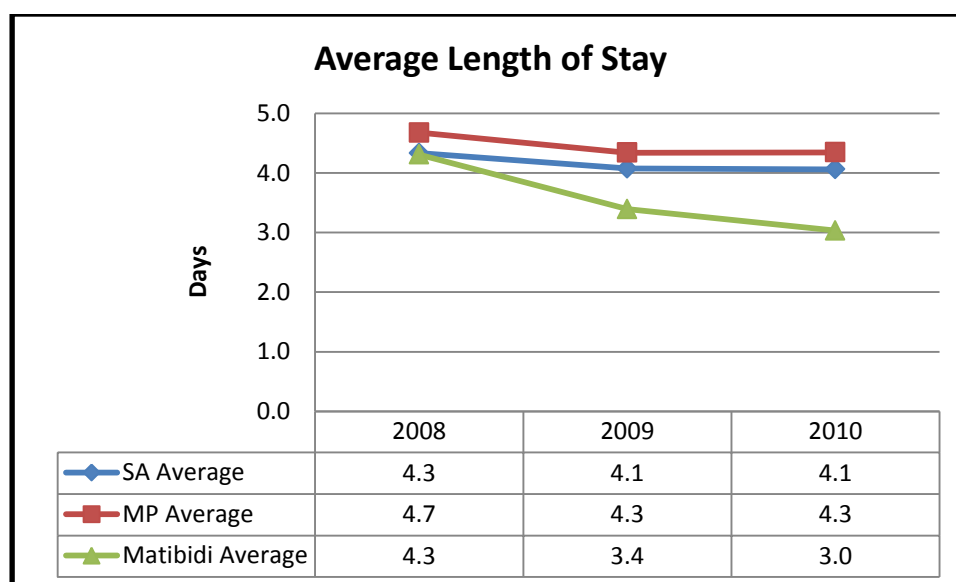
i: Description

Matibidi District Hospital has 50 beds and lies in the Thaba Chweu sub-district

ii: Input and process indicators

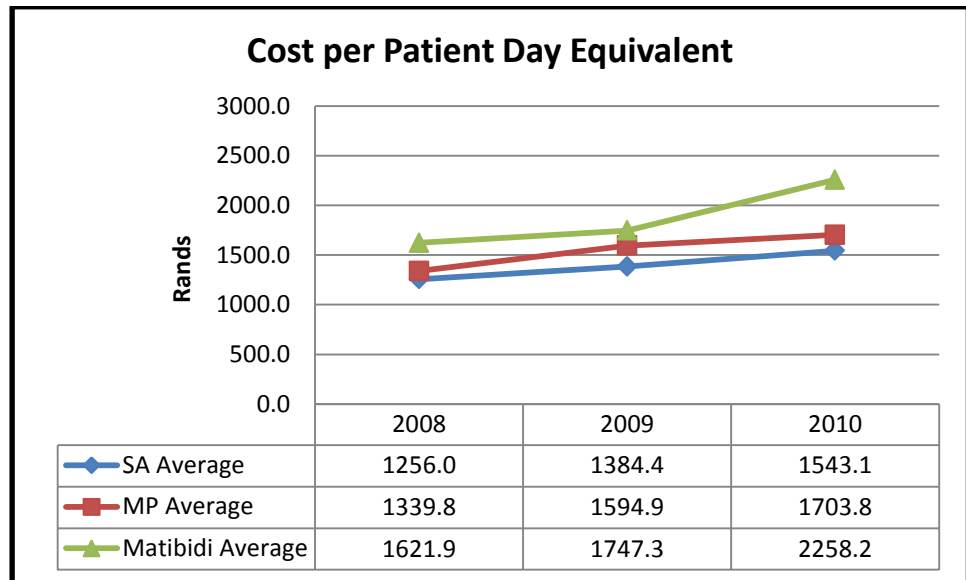
1. Average length of stay (ALOS) – the average length of time inpatients spend in hospital

The ALOS decreased from 4 days in 2008 to 3 days and 2010. It was lower than the national and provincial averages in 2009 and 2010.



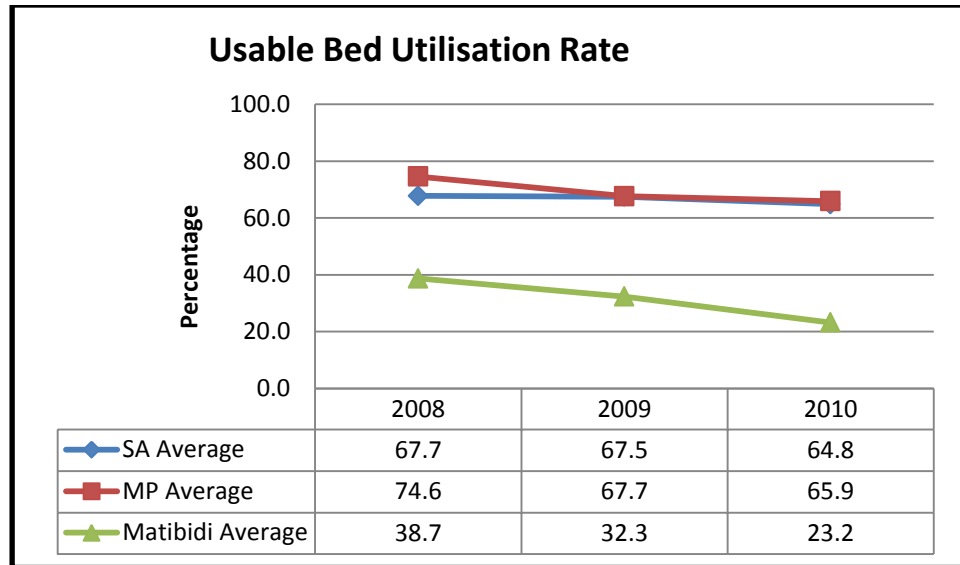
2. Cost per patient day equivalent (CpPDE): measure of efficiency in the hospital

The CpPDE increased significantly over the reporting period. It was higher than the national and provincial averages throughout this period.



3. Usable bed utilisation rate (BUR): measures occupancy of beds which are available for use

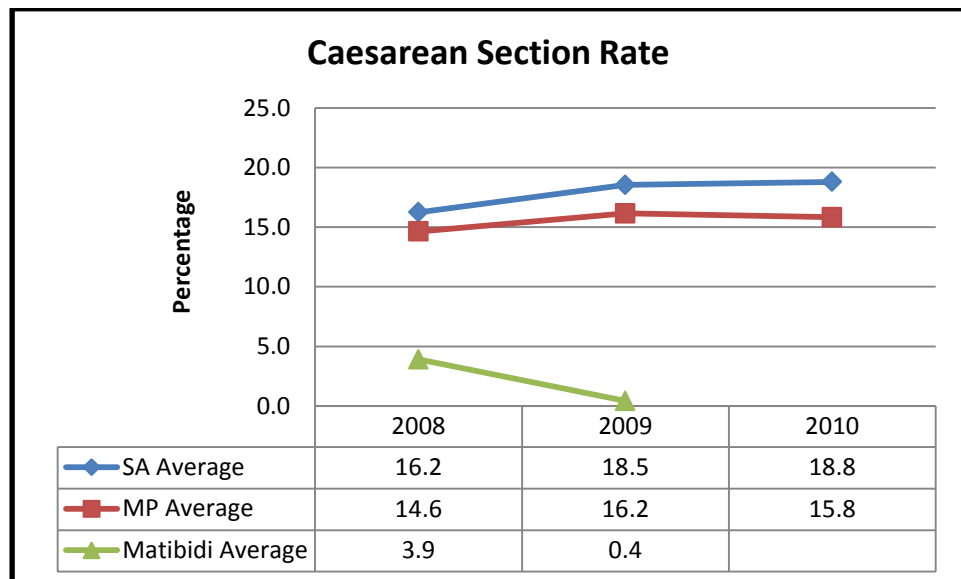
The BUR was very low throughout the reporting period, and reached an exceptionally low level of 23% in 2010. It was much lower than the national and provincial averages. The reasons for the low BUR should be ascertained.



iii: Outcomes indicators

Caesarean section (CS) rate: proportion of deliveries for which a CS is performed

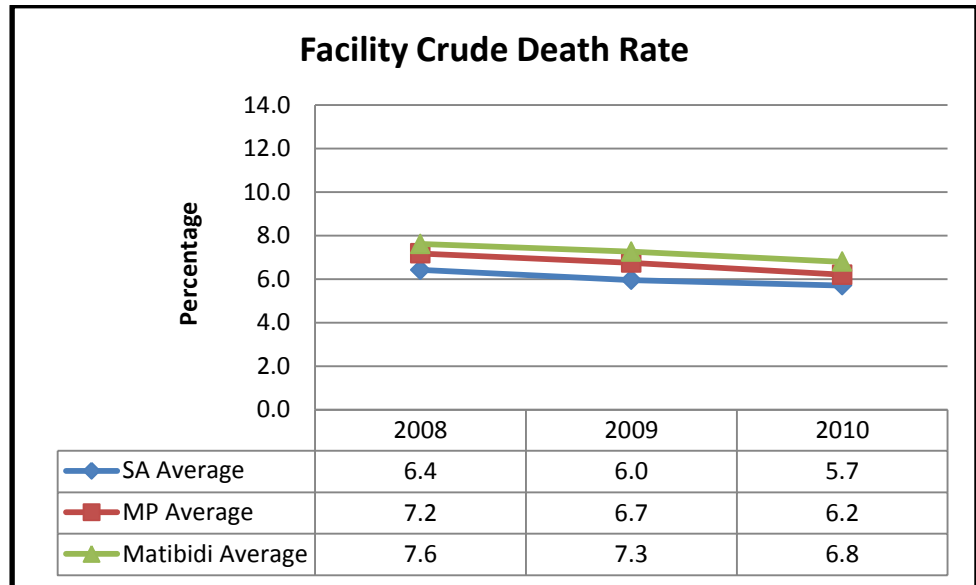
The CS rate was very low (3.9%) in 2008, decreased further in 2009, and data were not available in 2010. This requires urgent investigation.



iv: Impact Indicators

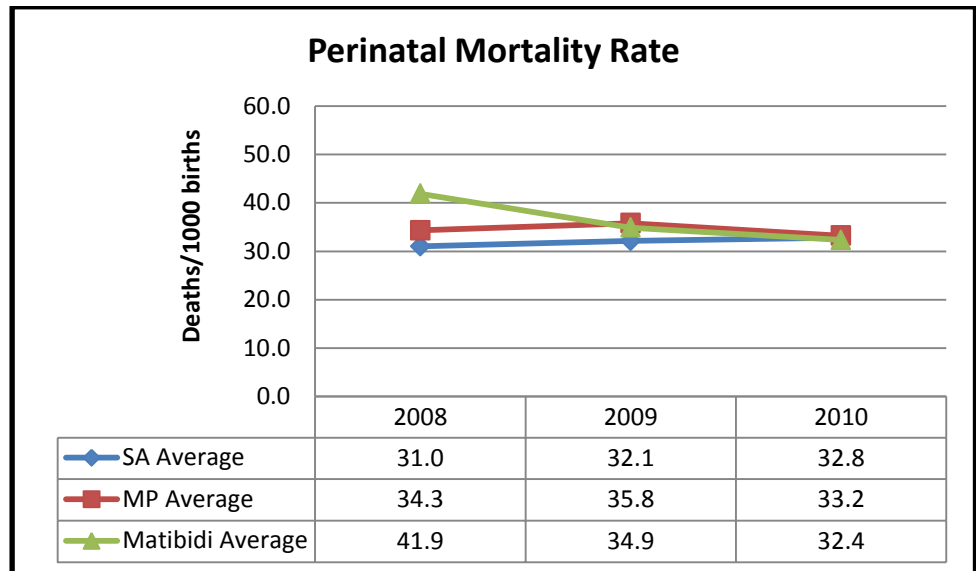
1. Facility crude death rate (FCDR): proportion of all inpatient separations that are deaths

The FCDR decreased steadily over the reporting period. It was higher than the national and provincial averages.



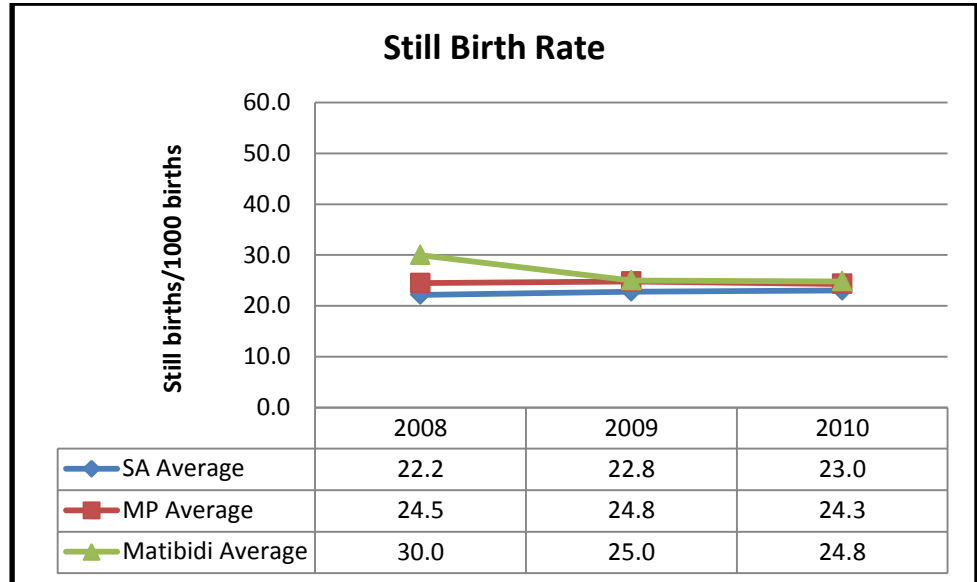
2. Perinatal mortality rate (PNMR) – the sum of still births + those babies dying within 7 days of life/1000 births

The PNMR decreased steadily over the reporting period and was in line with and the national and provincial averages in 2010.



3. Still birth rate (SBR): number of babies born dead/1000 births

The SBR decreased over the reporting period and was in line with the national and provincial averages in 2009 and 2010.



v: **Conclusions:**

The high CpPDE and very low BUR require urgent attention as they suggest inefficiency at this hospital. The reasons for the low CS rate and absence of CS rate data in 2010 should also be ascertained. If the hospital is unable to perform Caesarean sections then by definition it is no longer a hospital and should be re-classified as a CHC.

7. *Shongwe Hospital*

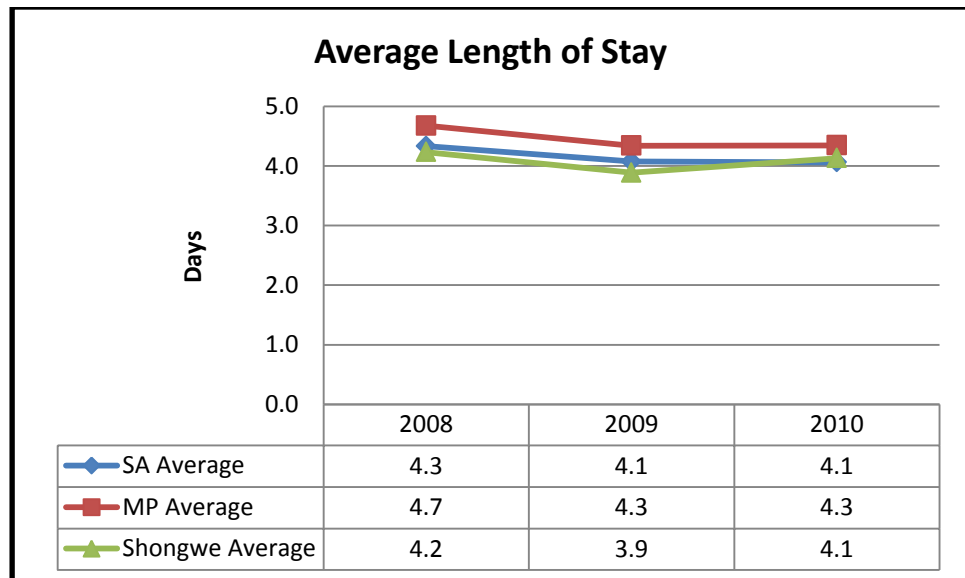
i: **Description**

Shongwe District Hospital has 183 beds and lies in the Nkomazi sub-district.

ii: **Input and process indicators**

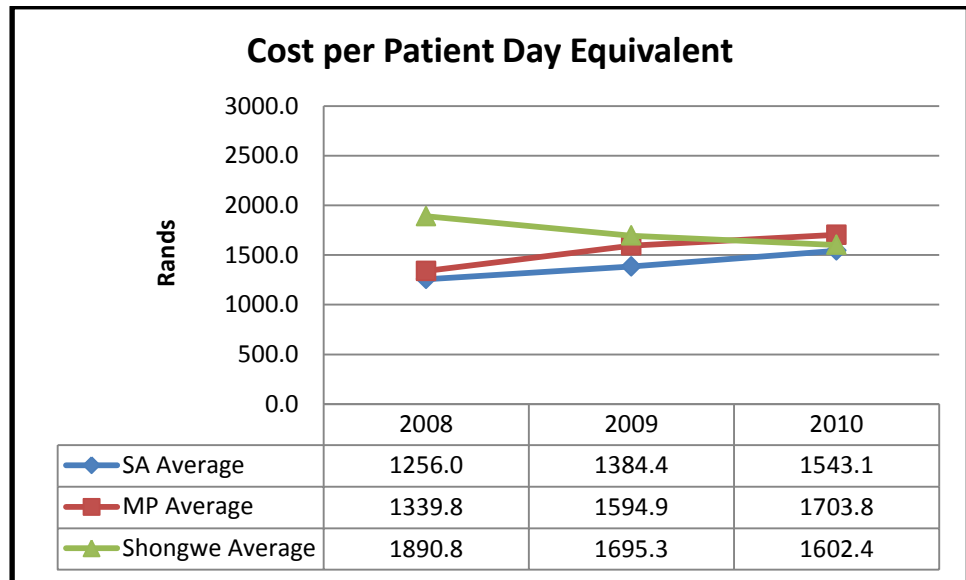
1. **Average length of stay (ALOS) – the average length of time inpatients spend in hospital**

The ALOS was relatively stable over the reporting period. It was in line with the national and provincial averages in 2010.



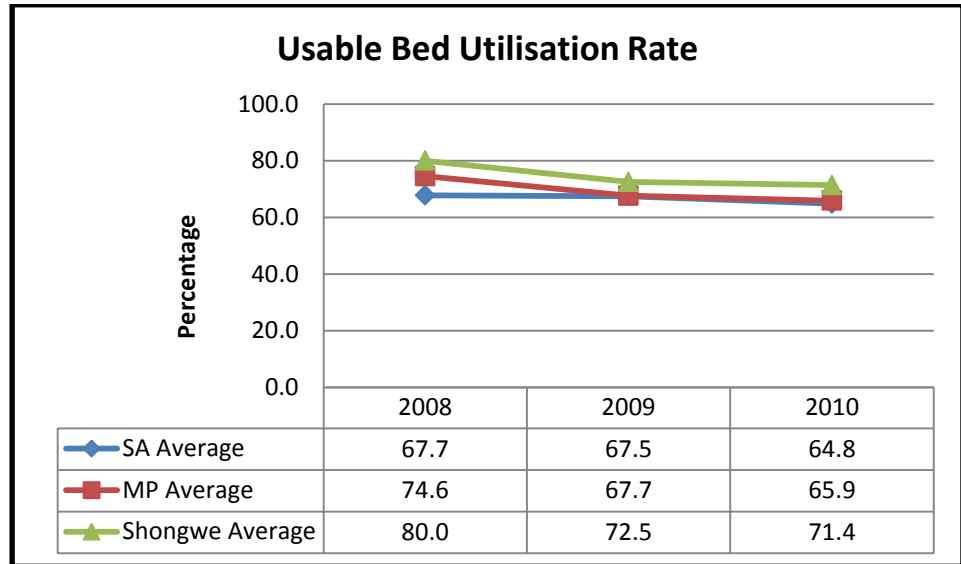
2. Cost per patient day equivalent (CpPDE): measure of efficiency in the hospital

The CpPDE decreased over the reporting period. It was lower than the provincial average in 2010.



3. Usable bed utilisation rate (BUR): measures occupancy of beds which are available for use

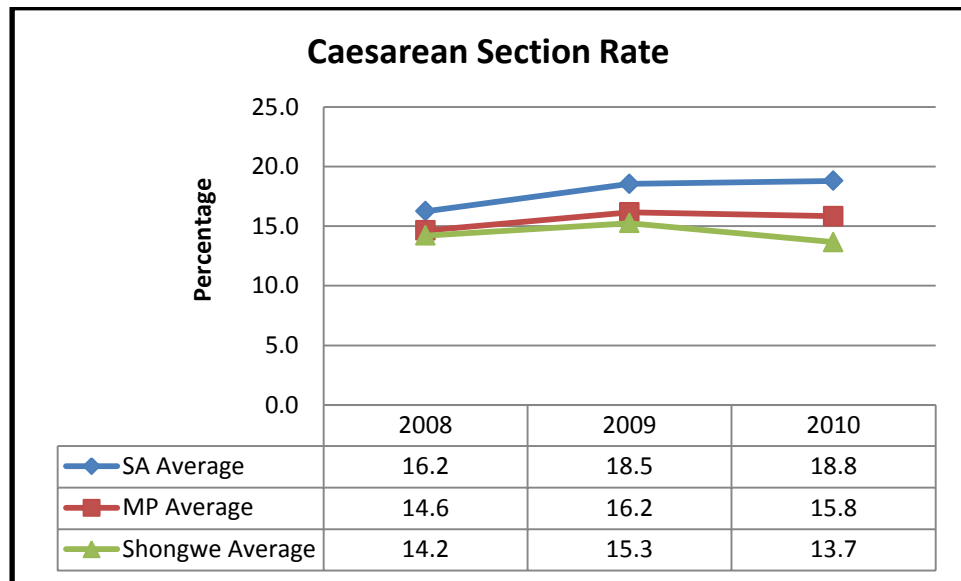
The BUR decreased over the reporting period. It was higher than the national and provincial averages throughout this period.



iii: Outcomes indicators

Caesarean section (CS) rate: proportion of deliveries for which a CS is performed

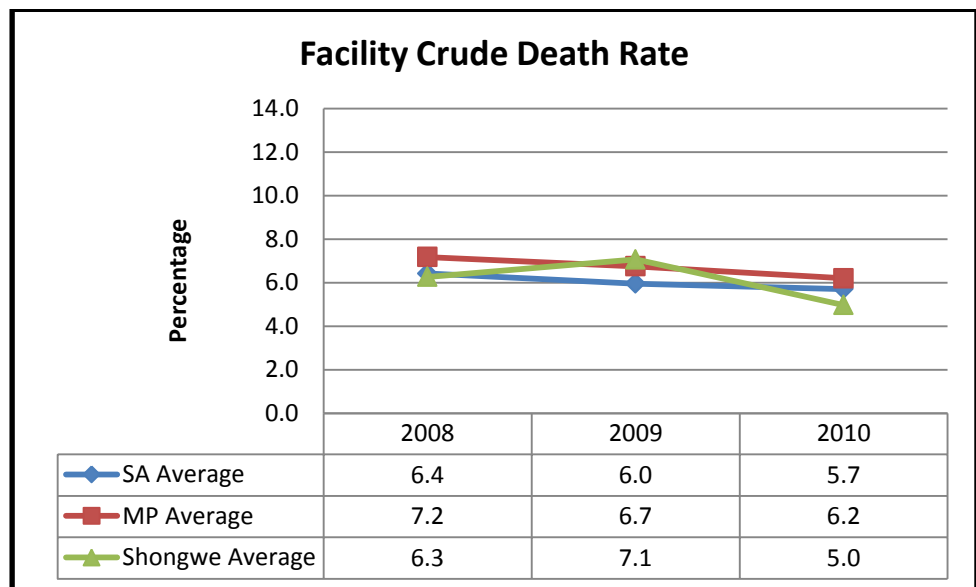
The CS rate fluctuated, increasing to 15.3% in 2009 before decreasing in 2010. It was lower than the national and provincial averages throughout the reporting period.



iv: Impact Indicators

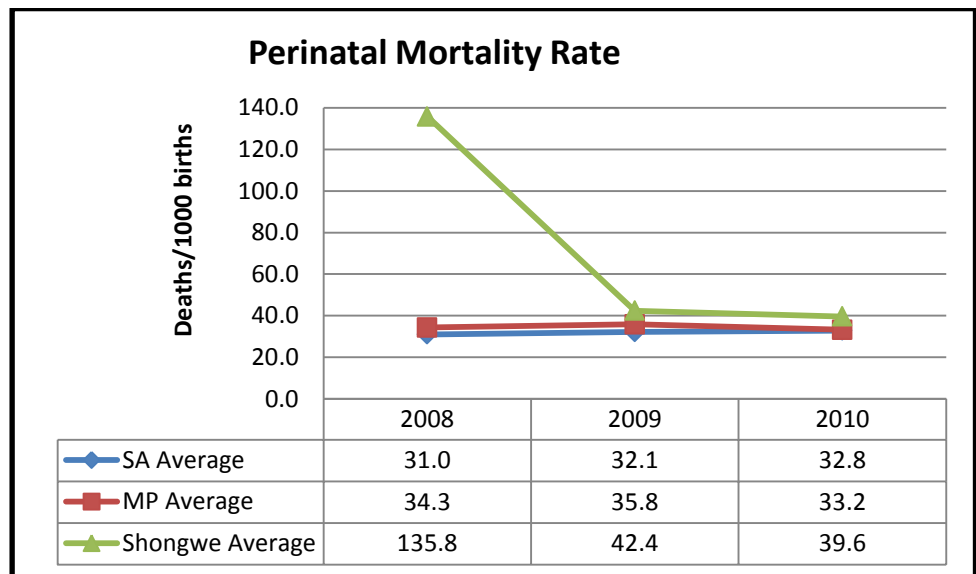
1. Facility crude death rate (FCDR): proportion of all inpatient separations that are deaths

The FCDR fluctuated; increasing between 2008 and 2009 before decreasing in 2010. It was lower than the national and provincial averages in 2010.



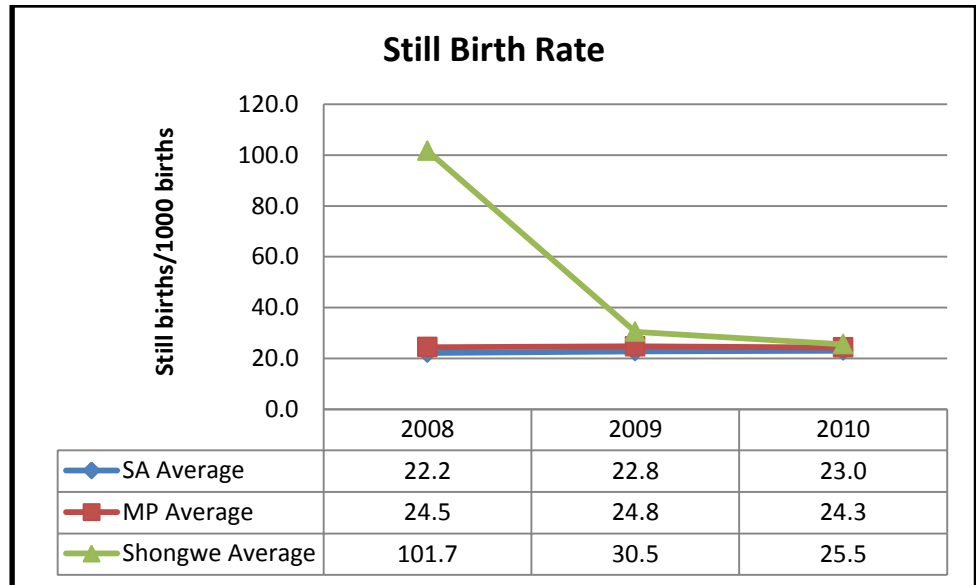
2. Perinatal mortality rate (PNMR) – the sum of still births + those babies dying within 7 days of life/1000 births

The PNMR was extremely high in 2008, and decreased significantly in 2009, with a further smaller decrease in 2010. It was higher than the national and provincial averages throughout the reporting period. The data should be reviewed and reasons for the very high rate in 2008 ascertained.



3. Still birth rate (SBR): number of babies born dead/1000 births

The SBR was also extremely high in 2008, and decreased significantly in 2009, with further smaller decrease in 2010. It was higher than the national and provincial averages throughout the reporting period. The data should be reviewed and reasons for the high rate in 2008 ascertained.



v: **Conclusions:**

The PMNR and SBR data should be reviewed and the reasons for the extremely high rates observed in 2008 ascertained.

8. *Tonga Hospital*

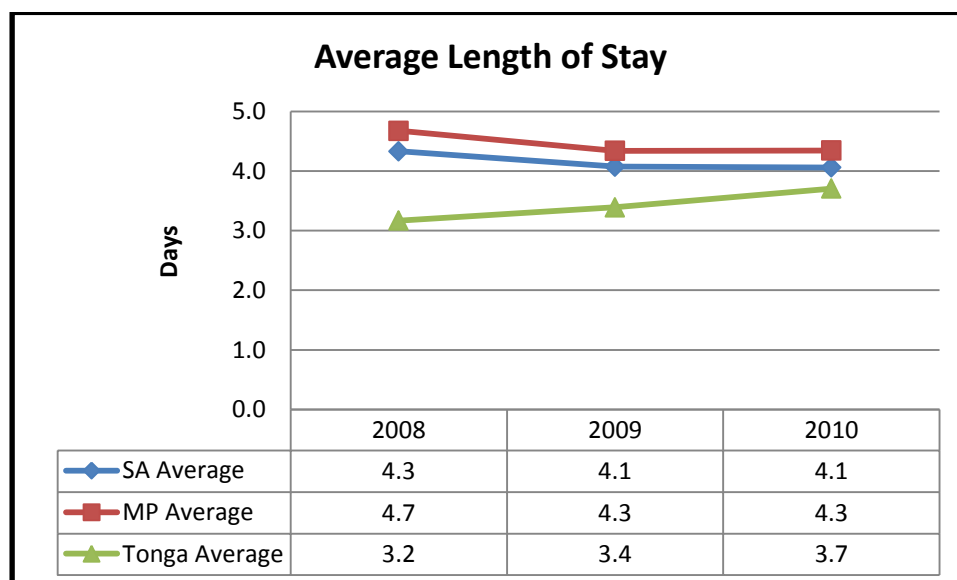
i: **Description**

Tonga District Hospital has 143 beds and lies in the Nkomazi sub-district.

ii: **Input and process indicators**

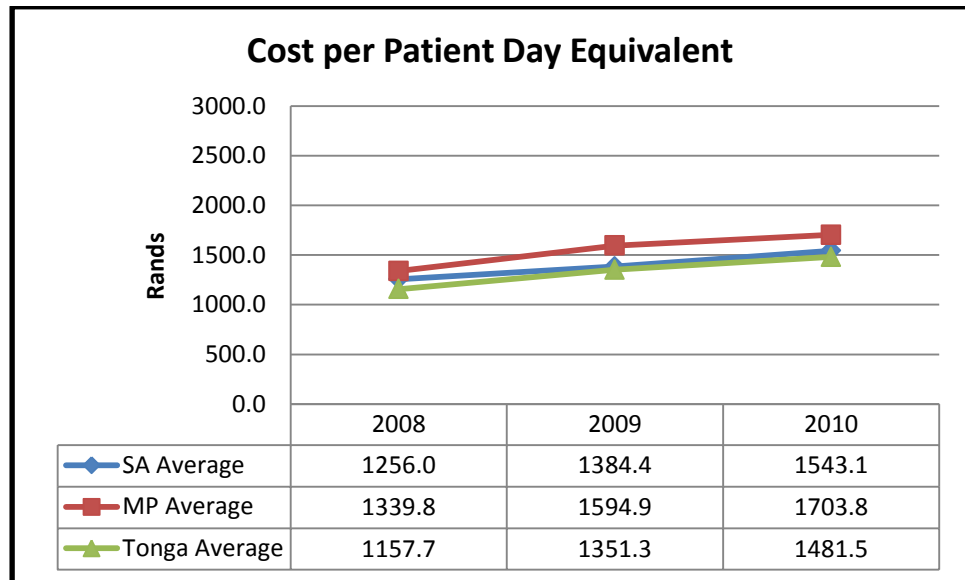
1. **Average length of stay (ALOS) – the average length of time inpatients spend in hospital**

The ALOS increased marginally. It was lower than the national and provincial averages throughout the reporting period.



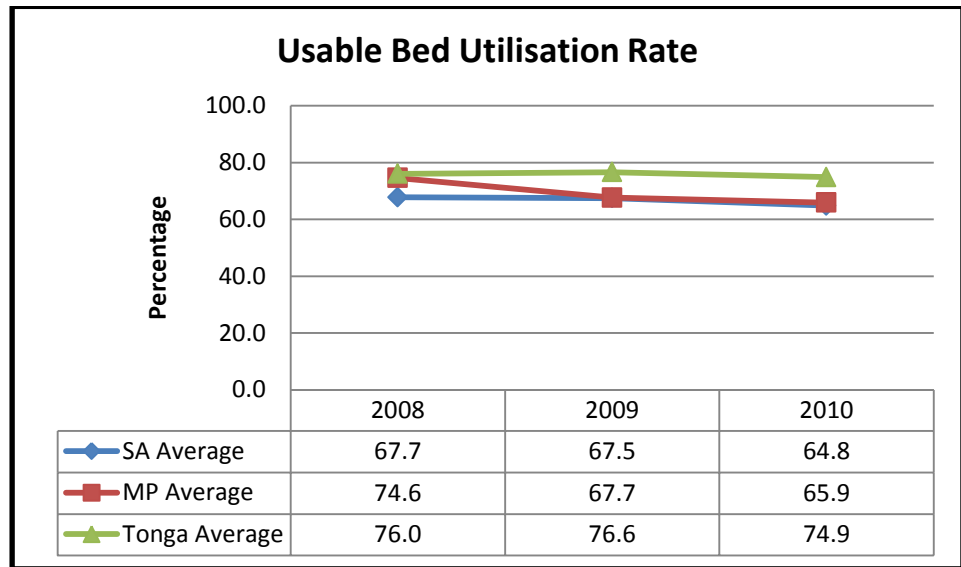
2. Cost per patient day equivalent (CpPDE): measure of efficiency in the hospital

The CpPDE increased over the reporting period, and was lower than the national and provincial averages throughout this period.



3. Usable bed utilisation rate (BUR): measures occupancy of beds which are available for use

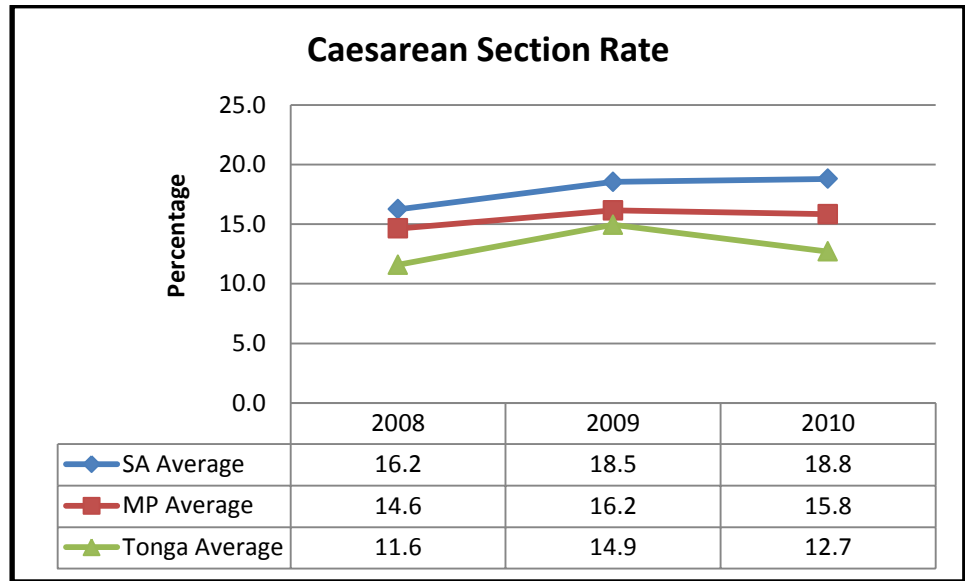
The BUR was largely constant in 2008 and 2009 and decreased slightly in 2010. It was higher than the national and provincial averages throughout this period.



iii: Outcomes indicators

Caesarean section (CS) rate: proportion of deliveries for which a CS is performed

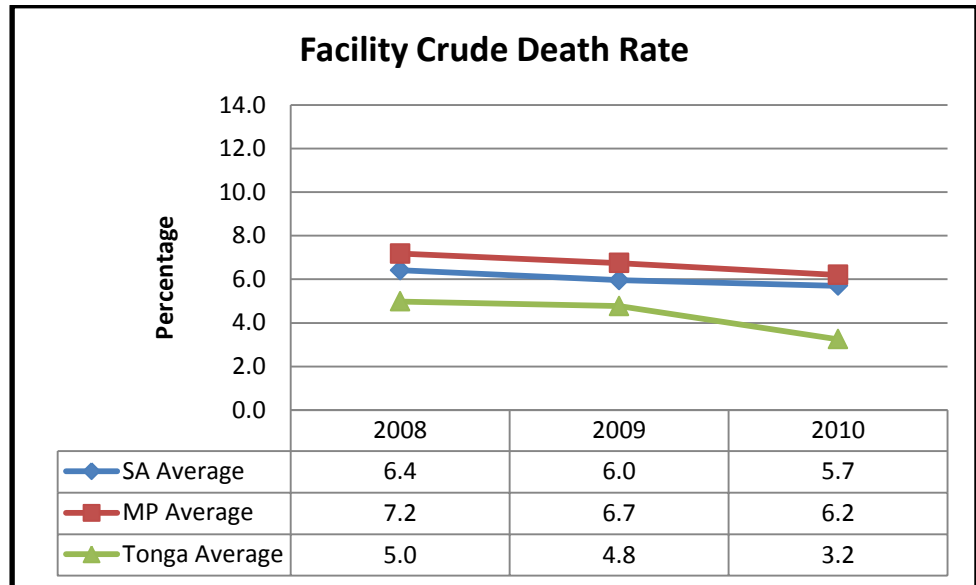
The CS rate fluctuated between 2008 and 2010. It was lower than the national and provincial averages throughout this period.



iv: Impact Indicators

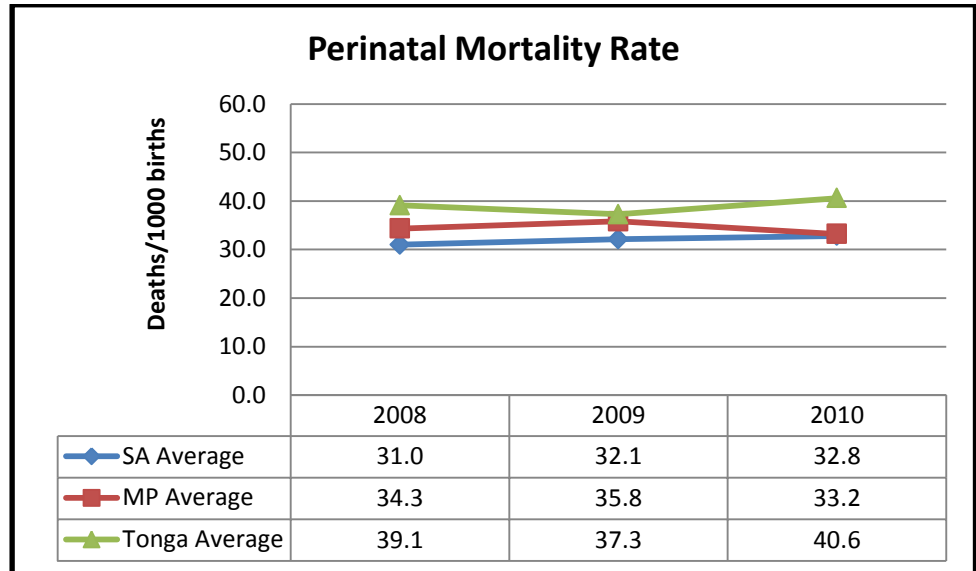
1. Facility crude death rate (FCDR): proportion of all inpatient separations that are deaths

The FCDR decreased steadily over the reporting period. It was lower than the national and provincial averages throughout this period.



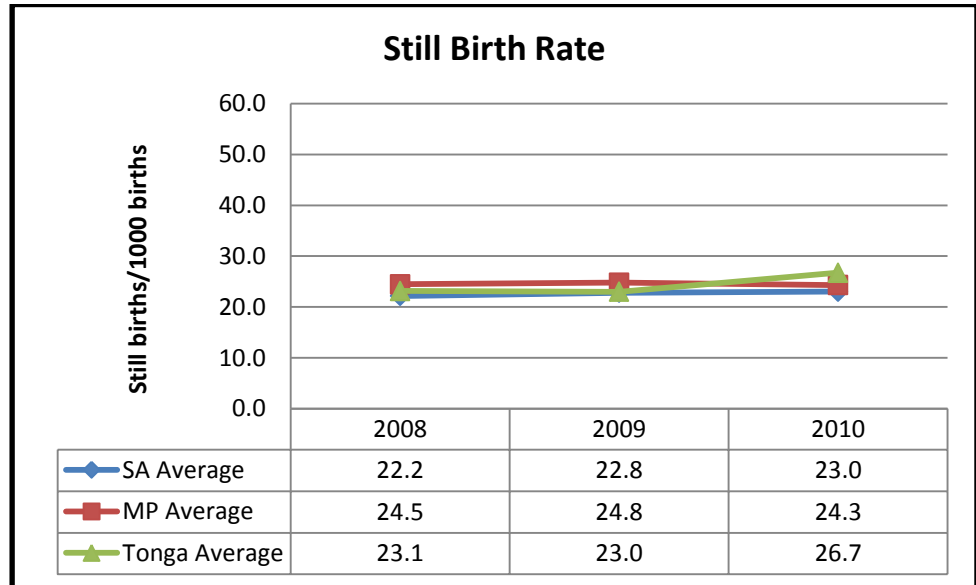
2. Perinatal mortality rate (PNMR) – the sum of still births + those babies dying within 7 days of life/1000 births

The PNMR fluctuated marginally between 2008 and 2010. It was higher than the national and provincial averages.



3. Still birth rate (SBR): number of babies born dead/1000 births

The SBR was constant in 2008 and 2009 and increased in 2010. It was higher than the national and provincial averages in 2010.



v: **Conclusions:**

The BUR was higher than the national and provincial averages and the reasons for this should be ascertained. The reasons for the increasing PNMR and SBR should also be ascertained.