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# **CAESAREAN SECTION SURGICAL SITE INFECTION SURVEILLANCE**

## **ABERTawe Bro MORGANNWG UNIVERSITY HEALTH BOARD**

### **ANNUAL REPORT 2008**

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## **Summary**

- This is the third annual report covering the mandatory surveillance of C-section procedures in Wales (2008). The report covers both lower and upper uterine segment procedure categories and excludes C-section hysterectomy.
- The Trust compliance for 2008 was 79%.
- A total of 1243 questionnaires were received for 2008 with 93% valid for further data analysis.
- Overall 176 SSIs were detected with an overall SSI rate of 15.2%. The majority of SSI were detected post-discharge providing a post-discharge rate of 14.2%.
- The overall SSI rate broken down by type was 12.1% superficial infections and 2.2% deep seated infections, with 1.0% unknown.
- The post-discharge SSI rate broken down by type was 11.5% superficial infections and 2.0% deep seated infections, with 0.7% unknown.
- To take into account the variation in post-discharge follow up, rates were also calculated by 1000 days of patient follow up. The overall rate was 7.0 per 1000 days followed.

## **Abertawe Bro Morgannwg University NHS Trust Summary Report**

**Table 1.1** Coverage of the C-section SSI Surveillance compared to procedures reported to the PEDW database at HSW for Abertawe Bro Morgannwg University NHS Trust in 2008

No. of questionnaires returned to WHAIP	No. of valid questionnaires returned to WHAIP*	No. of C-sections reported to HSW*	% Compliance
1243	1156	1471	79

\* valid questionnaires – procedures with an SSI complete on the main form or where infection data could be updated post-discharge

**Table 1.2** Number of inpatient, post-discharge and valid questionnaires returned by Abertawe Bro Morgannwg University NHS Trust for the surveillance in 2008

No. of in-patient forms returned	No. of expected post-discharge forms	No. of expected post-discharge forms returned	No. of valid forms used for data analysis*	% of valid forms for data analysis*
1243	1243	1183 (95%)	1156	93 (1156/1243)

**Table 1.3** Percentage completion of the SSI field on the C-section questionnaire (main and post-discharge) for Abertawe Bro Morgannwg University NHS Trust for 2008

Data Item	No. completed	No. expected	% Complete
Inpatient SSI (Yes/No):	1212	1243	97.5
If Yes, SSI type	6	9	66.7
If Yes, Infection date	8	9	88.9
Post-discharge SSI* (Yes/No):	1178	1183	99.6
If Yes, Infection date	165	167	98.8
If Yes, SSI type	159	167	95.2
Overall SSI**	1156	1243	93.0

\* Number expected is based on the number of post-discharge forms received.

\*\* Includes procedures with an SSI complete on the main form or updated by completion of the SSI field on a post-discharge form.

**Table 1.4** Incidence of C-section SSI in Abertawe Bro Morgannwg University NHS Trust for 2008

	No. of procedures analysed	No. of SSI*	Rate (%) (95% CI)
Overall SSI rate	1156	176	15.2 (13.1-17.6)
Post-discharge SSI rate	1178	167	14.2 (12.1-16.5)

\* Figures based on valid questionnaires only. This only includes procedures with either an SSI field completed on the main form or where infection data could be updated post-discharge.

**Table 1.5** Overall SSI rate broken down by SSI type for Abertawe Bro Morgannwg University NHS Trust in 2008

SSI type	No. SSI	% SSI (95% CI)
Superficial infections	140	12.1 (10.2-14.3)
Deep seated infections	25	2.2 (1.4-3.2)
Unknown	11	1.0 (0.5-1.7)

**Table 1.6** Post-discharge SSI rate broken down by SSI type for Abertawe Bro Morgannwg University NHS Trust in 2008

SSI type	No. SSI	% SSI (95% CI)
Superficial infections	135	11.5 (9.6-13.6)
Deep seated infections	24	2.0 (1.3-3.0)
Unknown	8	0.7 (0.3-1.3)

**Table 1.7** Total SSI rate/1000 days followed up in Abertawe Bro Morgannwg University NHS Trust in 2008

Valid Records	SSI	Days followed up	SSI/1000 days followed	95% CI
1155	176	25030	7.0	6.0-8.2