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Surveillance: *Clostridium difficile* (*C. difficile*) and *Staphylococcus aureus* bacteraemia (MRSA and MSSA)

Report: Bi-annual report

Time period: 1st April to 30th September 2014

Health Board: Abertawe Bro Morgannwg (ABM) University Health Board

Content: Pg 2 – *C. difficile*
Pg 16 – MRSA bacteraemia
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1. *Clostridium difficile* (*C. difficile*)

C. difficile surveillance notes for interpretation

- This report presents data on numbers of *C. difficile* in Wales from April to September 2014, with trend data from April 2010.
- **Data for April to September 2014 is provisional.**
- Data is mainly collected via Datastore, a data warehouse system used by all microbiology laboratories in Wales. This data is supplemented manually with *C. difficile* specimens from patients in Powys Teaching Health Board where the laboratory used for processing the specimen is in England.
- Data is extracted for the surveillance scheme using the following criteria:
 - The patient is at least 2 years old
 - The sample was not taken from a patient in a private hospital, a privately run dialysis unit or post-mortem
 - The sample had a positive *C. difficile* toxin test, if a single test (either a toxin A and B enzyme immunoassay or a neutralised cell toxicity assay) protocol was in use in the laboratory at the time the investigation was carried out, or a positive glutamate dehydrogenase (GDH) assay combined with a positive *C. difficile* toxin enzyme immunoassay, if a two-stage testing protocol was in use in the laboratory at the time the investigation was carried out.
 - Multiple positive samples from the same patient within a 28 day period are excluded as duplicates
- Hospital admission data has been supplied by NHS Wales Informatics Service (NWIS) from the Patient Episode Database for Wales (PEDW).
- Population data has been extracted from <https://statswales.wales.gov.uk/Catalogue/Population-and-Migration/Population/Estimates>.
- All ages are included in the hospital admission and population numbers used to calculate rates.
- Mid 2013 population estimates have been used to calculate the 2014/15 population rates. These rates will be updated when the mid 2013 population estimates become available.

Wales *C. difficile*, Apr – Sep 14

- 686 cases of *C. difficile* have been reported for the 6 month period. This is a 24% decrease in numbers compared to the equivalent period last year. The rate of *C. difficile* per 1,000 hospital admissions has decreased by 25%, from 4.11 to 3.08. (Table 1.1.)
- Compared to the equivalent period last year, 6 of the 8 health boards/trust in Wales have achieved a reduction in numbers of *C. difficile*. (Table 1.1.)
- Compared to Apr – Sep 10, there has been a 56% decrease in the number of *C. difficile* and a 56% decrease in the rate of *C. difficile* per 1,000 hospital admissions in Wales. (Table 1.2.)
- Compared to the Apr – Sep 10, all of the 8 health boards/trust in Wales have achieved a reduction in numbers of *C. difficile*. (Table 1.3.) Powys Teaching Health Board had some changes in data collection methods over this time period.
- 69% (471) of cases were diagnosed in the 18 acute hospitals, 8% (52) diagnosed in non-acute hospitals and 23% (161) in non-hospital locations. 2 locations were not specified.
- 65% (446) of cases were diagnosed in hospital inpatient locations. The inpatient rate for Wales is 2.00 per 1,000 hospital admissions for this period.
- 59% (403) of *C. difficile* were in female patients and 80% (547) were in patients aged 66+ for the 6 month period.
- The rate of *C. difficile* per 100,000 population has decreased by 24% compared to the equivalent period last year, from 58.30 to 44.39. (Table 1.2.)
- Compared to Apr – Sep 10, the rate of *C. difficile* per 100,000 population has decreased by 57%. (Table 1.2.)

Table 1.1. Wales numbers of *C. difficile*, percentage change in numbers (from Apr – Sep 13) and rates per 1,000 hospital admissions and 100,000 population by health board, Apr – Sep 14

	Number of <i>C. difficile</i>	% change in number of <i>C. difficile</i> from Apr – Sep 13	% change in number of <i>C. difficile</i> from Apr – Sep 10	<i>C. difficile</i> / 1,000 hospital admissions	<i>C. difficile</i> /100,000 population
ABM	147	+15% (128)	-34% (224)	3.35	56.31
Aneurin Bevan	114	-51% (232)	-69% (370)	2.61	39.26
Betsi Cadwaladr	179	-29% (252)	-55% (401)	3.71	51.59
Cardiff and Vale	103	-26% (140)	-71% (352)	3.18	42.90
Cwm Taf	60	+36% (44)	-38% (96)	2.28	40.55
Hywel Dda	74	-11% (83)	-28% (103)	2.78	38.45
Powys Teaching	4	-71% (14)	-43% (7)	5.01	6.01
Velindre	5	-38% (8)	-50% (10)	5.95	N/A
Wales	685	-24% (901)	-56% (1563)	3.08	44.39
Wales average	86	-22% (113)	-49% (195)	3.61	39.20
Wales median	89	-28% (106)	-46% (164)	3.27	40.55

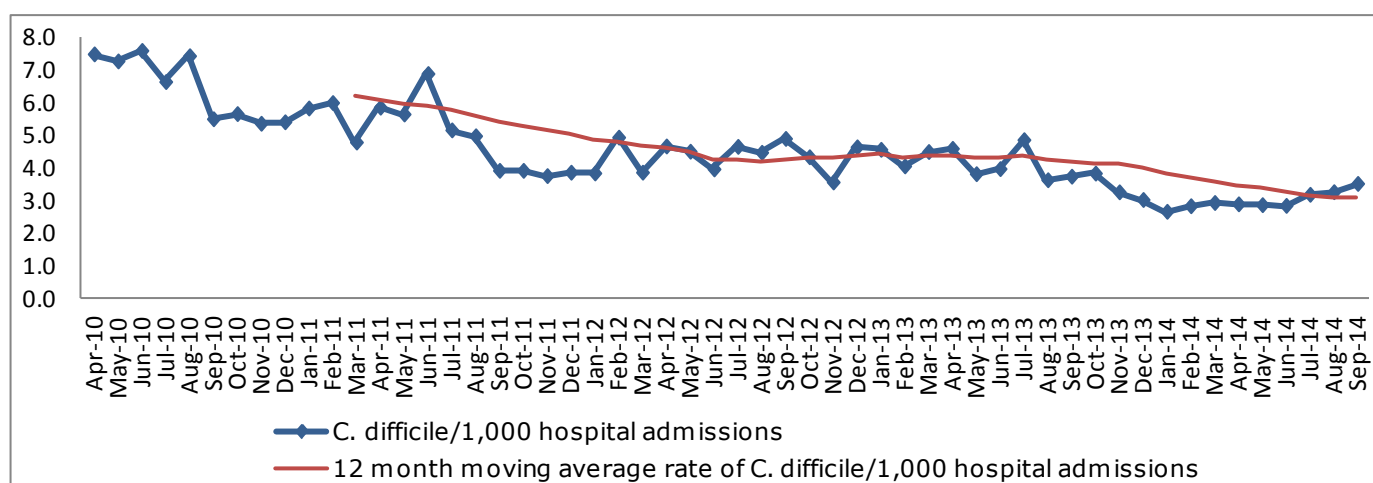
Wales

Table 1.2. Wales numbers and rates of *C. difficile* per 1,000 hospital admissions and 100,000 population, Apr 10 – Sep 14

	Number of <i>C. difficile</i>	Number of hospital admissions	<i>C. difficile</i> / 1,000 hospital admissions	Population*	<i>C. difficile</i> / 100,000 population
Apr – Sep 14	686	222610	3.08	1545428	44.39
Sep 14	127	36423	3.49	253349	50.13
Aug 14	116	34805	3.33	261794	44.31
Jul 14	123	39180	3.14	261794	46.98
Jun 14	105	37406	2.81	253349	41.44
May 14	108	37757	2.86	261794	41.25
Apr 14	107	37039	2.89	253349	42.23
2013/14 FY	1577	437247	3.61	3082412	51.16
Apr – Sep 13	901	219353	4.11	1545428	58.30
2012/13 FY	1934	439792	4.40	3074067	62.91
Apr – Sep 12	998	220574	4.52	1541245	64.75
2011/12 FY	2142	455772	4.70	3063758	69.91
Apr – Sep 11	1214	224821	5.40	1536076	79.03
Apr – Dec 10	2795	448561	6.23	3049971	91.64
Apr – Sep 10	1563	223855	6.98	1529164	102.21

*Monthly population = (Total population/Number of days in year) x Number of days in month

Figure 1.1. Wales monthly and 12 month moving average rates of *C. difficile* per 1,000 hospital admissions, Apr 10 – Sep 14*



*12 month moving average rates are shown from Mar 11 as this is when the first full FY of data is complete

Abertawe Bro Morgannwg University
Health Board

Abertawe Bro Morgannwg University Health Board *C. difficile*, Apr – Sep 14

- 147 cases of *C. difficile* have been reported for the 6 month period. This is a 15% increase in numbers compared to the equivalent period last year. The rate of *C. difficile* per 1,000 hospital admissions has increased by 11%, from 3.01 to 3.35. (Table 1.3.) The rate of *C. difficile* per 1,000 hospital admissions in Wales has decreased by 25% for the same period.
- Compared to Apr – Sep 10, there has been a 34% decrease in the number of *C. difficile* and a 35% decrease in the rate of *C. difficile* per 1,000 hospital admissions in this health board. (Table 1.4.) The rate of *C. difficile* per 1,000 hospital admissions in Wales has decreased by 56%.
- 78% (115) of cases were diagnosed in the 4 acute hospitals in this health board, 1% (1) diagnosed in non-acute hospitals and 21% (31) in non-hospital locations. (Table 1.9.)
- 73% (107) of cases in this health board were diagnosed in hospital inpatient locations. The inpatient rate is 2.44 per 1,000 hospital admissions for this period.
- 55% (81) of *C. difficile* in this health board were in female patients and 80% (118) were in patients aged 66+ for the 6 month period.
- The rate of *C. difficile* per 100,000 population has increased by 15% compared to the equivalent period last year, from 49.03 to 56.31. (Table 1.3.) The rate of *C. difficile* per 100,000 population in Wales has decreased by 24% for the same period.
- Compared to Apr – Sep 10, the rate of *C. difficile* per 100,000 population has decreased by 35% in this health board. (Table 1.4.) The rate of *C. difficile* per 100,000 population in Wales has decreased by 57%.

Table 1.3. Abertawe Bro Morgannwg University Health Board numbers of *C. difficile*, percentage change in numbers (from from Apr – Sep 13 and from Apr – Sep 10) and rates per 1,000 hospital admissions and 100,000 population by acute hospital, Apr – Sep 14

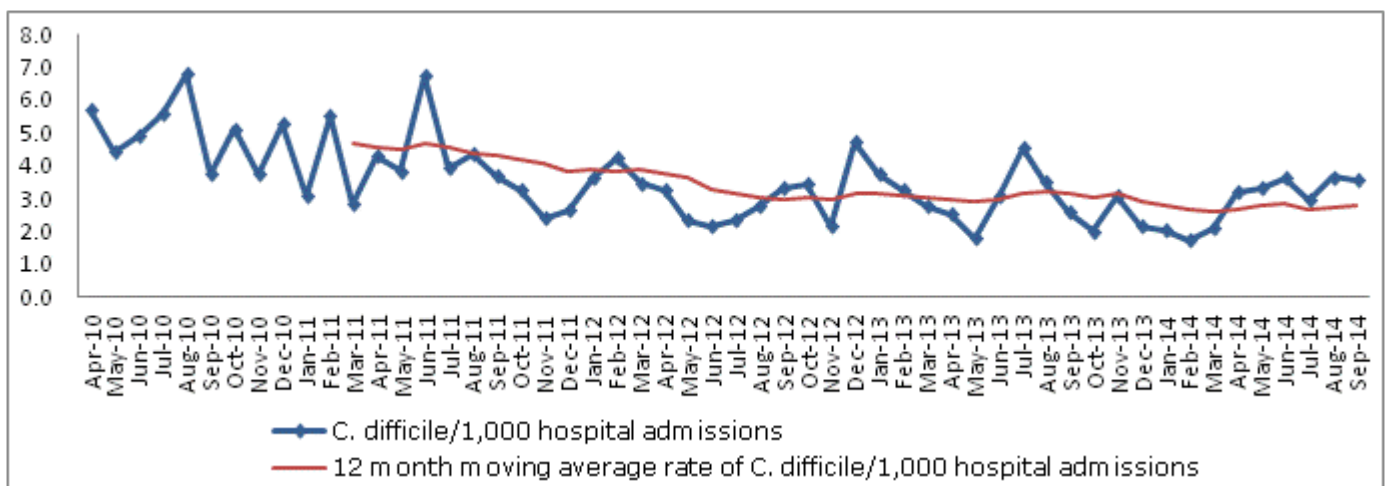
Health board/ hospital	Number of <i>C. difficile</i>	% change in number of <i>C. difficile</i> from Apr – Sep 13	% change in number of <i>C. difficile</i> from Apr – Sep 10	<i>C. difficile</i> / 1,000 hospital admissions	<i>C. difficile</i> /100,000 population
Morrison	36	-10% (40)	-56% (81)	1.67	N/A
Neath Port Talbot	5	-38% (8)	-81% (26)	2.83	N/A
Princess of Wales	40	+38% (29)	-32% (59)	3.41	N/A
Singleton	34	-6% (36)	+31% (26)	4.59	N/A
ABM	147	+15% (128)	-34% (224)	3.35	56.31
Wales	686	-24% (901)	-56% (1563)	3.08	44.39

Table 1.4. Abertawe Bro Morgannwg University Health Board numbers and rates of *C. difficile* per 1,000 hospital admissions and 100,000 population, Apr 10 – Sep 14

	Number of <i>C. difficile</i>	Number of hospital admissions	<i>C. difficile</i> /1,000 hospital admissions	Population*	<i>C. difficile</i> /100,000 population
Apr – Sep 14	147	43818	3.35	261068	56.31
Sep 14	25	7232	3.46	42798	58.41
Aug 14	25	6793	3.68	44225	56.53
Jul 14	23	7813	2.94	44225	52.01
Jun 14	27	7429	3.63	42798	63.09
May 14	24	7300	3.29	44225	54.27
Apr 14	23	7251	3.17	42798	53.74
2013/14 FY	219	84116	2.60	520710	42.06
Apr – Sep 13	128	42490	3.01	261068	49.03
2012/13 FY	263	87341	3.01	519481	50.63
Apr – Sep 12	118	43790	2.69	260452	45.31
2011/12 FY	355	92028	3.86	517981	68.54
Apr – Sep 11	203	45459	4.47	259700	78.17
Apr – Dec 10	411	87896	4.68	515420	79.74
Apr – Sep 10	224	43477	5.15	258416	86.68

*Monthly population = (Total population/Number of days in year) x Number of days in month

Figure 1.2. Abertawe Bro Morgannwg University Health Board monthly and 12 month moving average rates of *C. difficile* per 1,000 hospital admissions, Apr 10 – Sep 14*



*12 month moving average rates are shown from Mar 11 as this is when the first full FY of data is complete

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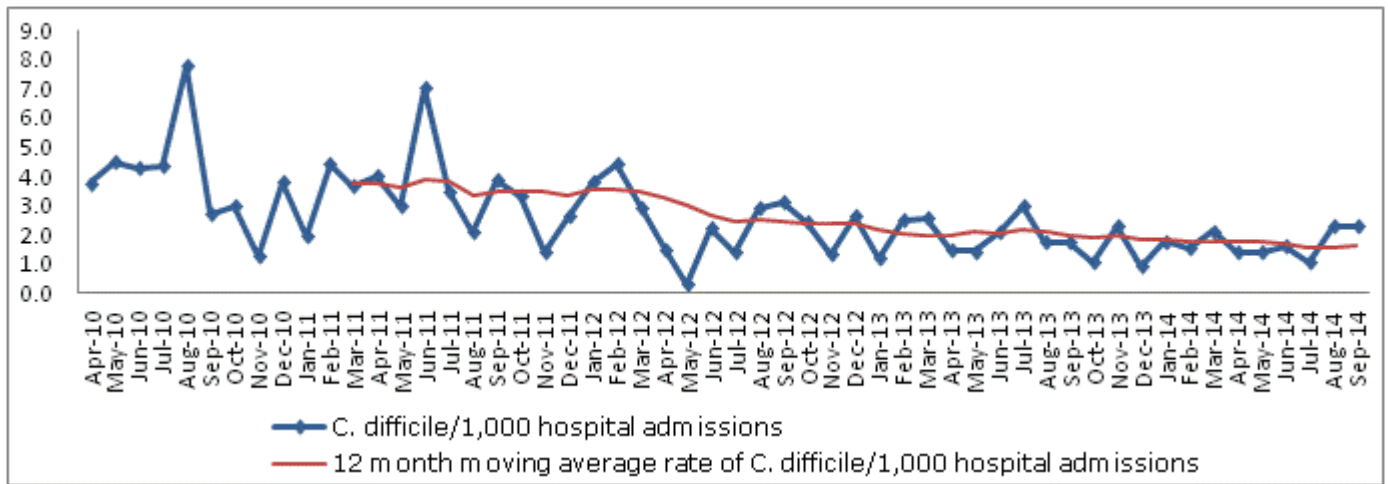
Morrison Hospital *C. difficile*, Apr – Sep 14

- 36 cases of *C. difficile* have been reported for the 6 month period. This is a 10% decrease in numbers compared to the equivalent period last year. (Table 1.3.) The rate of *C. difficile* per 1,000 hospital admissions has decreased by 13%, from 1.91 to 1.67. (Table 1.5.)
- Compared to the Apr – Sep 10, there has been a 56% decrease in the number of *C. difficile* and a 63% decrease in the rate of *C. difficile* per 1,000 hospital admissions in this hospital. (Table 1.5.)
- The rate of *C. difficile* in this hospital is not significantly different than the rates for the acute hospitals in Wales for this 6 month period. (Figure 1.7.)
- 94% (34) of the cases were diagnosed in hospital inpatient locations. The inpatient rate is 1.57 per 1,000 hospital admissions for this period.

Table 1.5. Morrison Hospital numbers and rates of *C. difficile* per 1,000 hospital admissions, Apr 10 – Sep 14

	Number of <i>C. difficile</i>	Number of hospital admissions	<i>C. difficile</i> /1,000 hospital admissions
Apr – Sep 14	36	21599	1.67
Sep 14	8	3521	2.27
Aug 14	8	3355	2.38
Jul 14	4	3822	1.05
Jun 14	6	3686	1.63
May 14	5	3582	1.40
Apr 14	5	3633	1.38
2013/14 FY	73	41496	1.76
Apr – Sep 13	40	20967	1.91
2012/13 FY	82	41454	1.98
Apr – Sep 12	39	20769	1.88
2011/12 FY	142	41091	3.46
Apr – Sep 11	78	20084	3.88
2010/11 FY	137	36538	3.75
Apr – Sep 10	81	17860	4.54

Figure 1.3. Morriston Hospital monthly and 12 month moving average rates of *C. difficile* per 1,000 hospital admissions, Apr 10 – Sep 14*



*12 month moving average rates are shown from Mar 11 as this is when the first full FY of data is complete

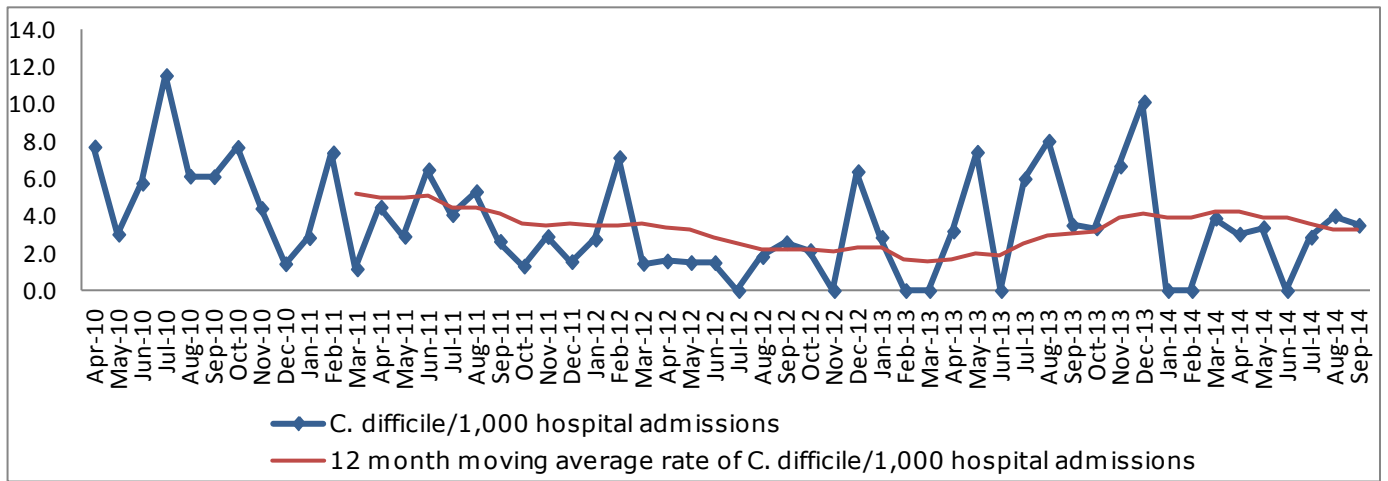
Neath Port Talbot Hospital *C. difficile*, Apr – Sep 14

- 5 cases of *C. difficile* have been reported for the 6 month period. This is a 38% decrease in numbers compared to the equivalent period last year. (Table 1.3.) The rate of *C. difficile* per 1,000 hospital admissions has decreased by 38%, from 4.58 to 2.83. (Table 1.6.)
- Compared to the Apr – Sep 10, there has been an 81% decrease in the number of *C. difficile* and a 57% decrease in the rate of *C. difficile* per 1,000 hospital admissions in this hospital. (Table 1.6.)
- The rate of *C. difficile* in this hospital is not significantly different than the rates for the acute hospitals in Wales for this 6 month period. (Figure 1.7.)
- 80% (4) of the cases were diagnosed in hospital inpatient locations. The inpatient rate is 2.26 per 1,000 hospital admissions for this period.

Table 1.6. Neath Port Talbot Hospital numbers and rates of *C. difficile* per 1,000 hospital admissions, Apr 10 – Sep 14

	Number of <i>C. difficile</i>	Number of hospital admissions	<i>C. difficile</i> /1,000 hospital admissions
Apr – Sep 14	5	1769	2.83
Sep 14	1	277	3.61
Aug 14	1	175	5.71
Jul 14	1	350	2.86
Jun 14	0	334	0.00
May 14	1	299	3.34
Apr 14	1	334	2.99
2013/14 FY	15	3505	4.28
Apr – Sep 13	8	1745	4.58
2012/13 FY	9	5743	1.57
Apr – Sep 12	5	3597	1.39
2011/12 FY	31	8602	3.60
Apr – Sep 11	19	4386	4.33
2010/11 FY	43	8203	5.24
Apr – Sep 10	26	3926	6.62

Figure 1.4. Neath Port Talbot Hospital monthly and 12 month moving average rates of *C. difficile* per 1,000 hospital admissions, Apr 10 – Sep 14*



*12 month moving average rates are shown from Mar 11 as this is when the first full FY of data is complete

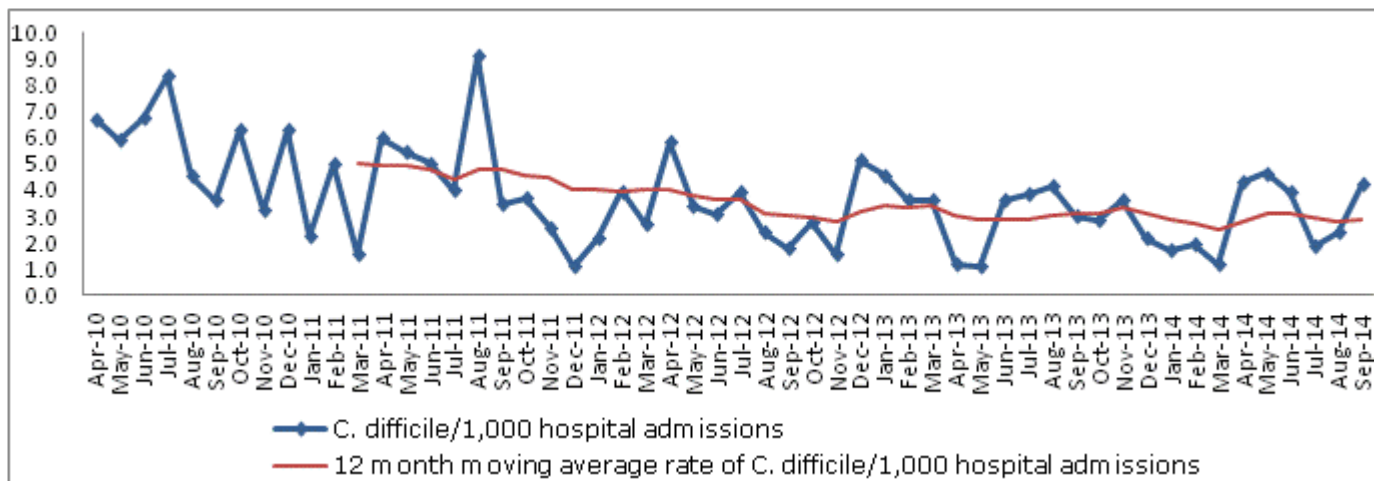
Princess of Wales Hospital *C. difficile*, Apr – Sep 14

- 40 cases of *C. difficile* have been reported for the 6 month period. This is a 38% increase in numbers compared to equivalent period last year. (Table 1.3.) The rate of *C. difficile* per 1,000 hospital admissions has increased by 23%, from 2.76 to 3.41. (Table 1.7.)
- Compared to the Apr – Sep 10, there has been a 32% decrease in the number of *C. difficile* and a 43% decrease in the rate of *C. difficile* per 1,000 hospital admissions in this hospital. (Table 1.7.)
- The rate of *C. difficile* in this hospital is not significantly different than the rates for the acute hospitals in Wales for this 6 month period. (Figure 1.7.)
- 88% (35) of the cases were diagnosed in hospital inpatient locations. The inpatient rate is 2.98 per 1,000 hospital admissions for this period.

Table 1.7. Princess of Wales Hospital numbers and rates of *C. difficile* per 1,000 hospital admissions, Apr 10 – Sep 14

	Number of <i>C. difficile</i>	Number of hospital admissions	<i>C. difficile</i> /1,000 hospital admissions
Apr – Sep 14	40	11732	3.41
Sep 14	7	1907	3.67
Aug 14	4	1814	2.21
Jul 14	4	2169	1.84
Jun 14	8	2050	3.90
May 14	9	1936	4.65
Apr 14	8	1856	4.31
2013/14 FY	53	21095	2.51
Apr – Sep 13	29	10489	2.76
2012/13 FY	71	20683	3.43
Apr – Sep 12	34	10088	3.37
2011/12 FY	88	21769	4.04
Apr – Sep 11	58	10597	5.47
2010/11 FY	103	20698	4.98
Apr – Sep 10	59	9866	5.98

Figure 1.5. Princess of Wales Hospital monthly and 12 month moving average rates of *C. difficile* per 1,000 hospital admissions, Apr 10 – Sep 14*



*12 month moving average rates are shown from Mar 11 as this is when the first full FY of data is complete

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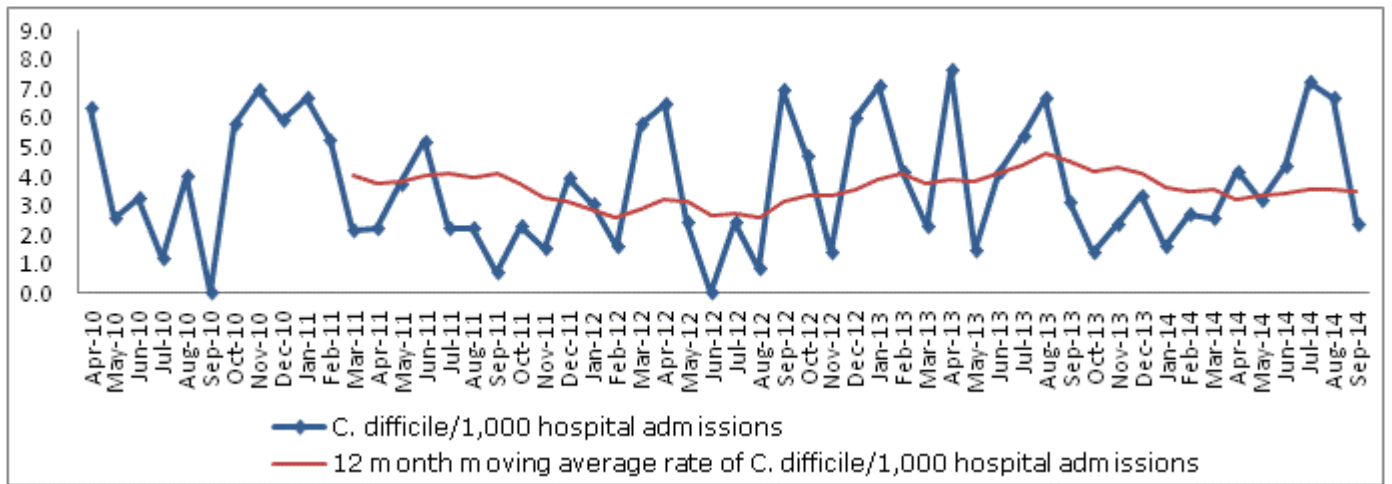
Singleton Hospital *C. difficile*, Apr – Sep 14

- 34 cases of *C. difficile* have been reported for the 6 month period. This is a 6% decrease in numbers compared to the equivalent period last year. (Table 1.3.) The rate of *C. difficile* per 1,000 hospital admissions has decreased by 3%, from 4.71 to 4.59. (Table 1.8.)
- Compared to the Apr – Sep 10, there has been a 31% increase in the number of *C. difficile* and a 63% increase in the rate of *C. difficile* per 1,000 hospital admissions in this hospital. (Table 1.8.)
- The rate of *C. difficile* in this hospital significantly higher than the rates for the acute hospitals in Wales for this 6 month period. (Figure 1.7.)
- 97% (33) of the cases were diagnosed in hospital inpatient locations. The inpatient rate is 4.46 per 1,000 hospital admissions for this period.

Table 1.8. Singleton Hospital numbers and rates of *C. difficile* per 1,000 hospital admissions, Apr 10 – Sep 14

	Number of <i>C. difficile</i>	Number of hospital admissions	<i>C. difficile</i> /1,000 hospital admissions
Apr – Sep 14	34	7402	4.59
Sep 14	3	1345	2.23
Aug 14	8	1231	6.50
Jul 14	9	1227	7.33
Jun 14	5	1147	4.36
May 14	4	1254	3.19
Apr 14	5	1198	4.17
2013/14 FY	53	15017	3.53
Apr – Sep 13	36	7640	4.71
2012/13 FY	59	15583	3.79
Apr – Sep 12	24	7403	3.24
2011/12 FY	46	15993	2.88
Apr – Sep 11	22	8122	2.71
2010/11 FY	71	17473	4.06
Apr – Sep 10	26	9235	2.82

Figure 1.6. Singleton Hospital monthly and 12 month moving average rates of *C. difficile* per 1,000 hospital admissions, Apr 10 – Sep 14*



*12 month moving average rates are shown from Mar 11 as this is when the first full FY of data is complete

Abertawe Bro Morgannwg University Health Board

Figure 1.7. Rates of *C. difficile* per 1,000 hospital admissions by acute hospital, Apr – Sep 14

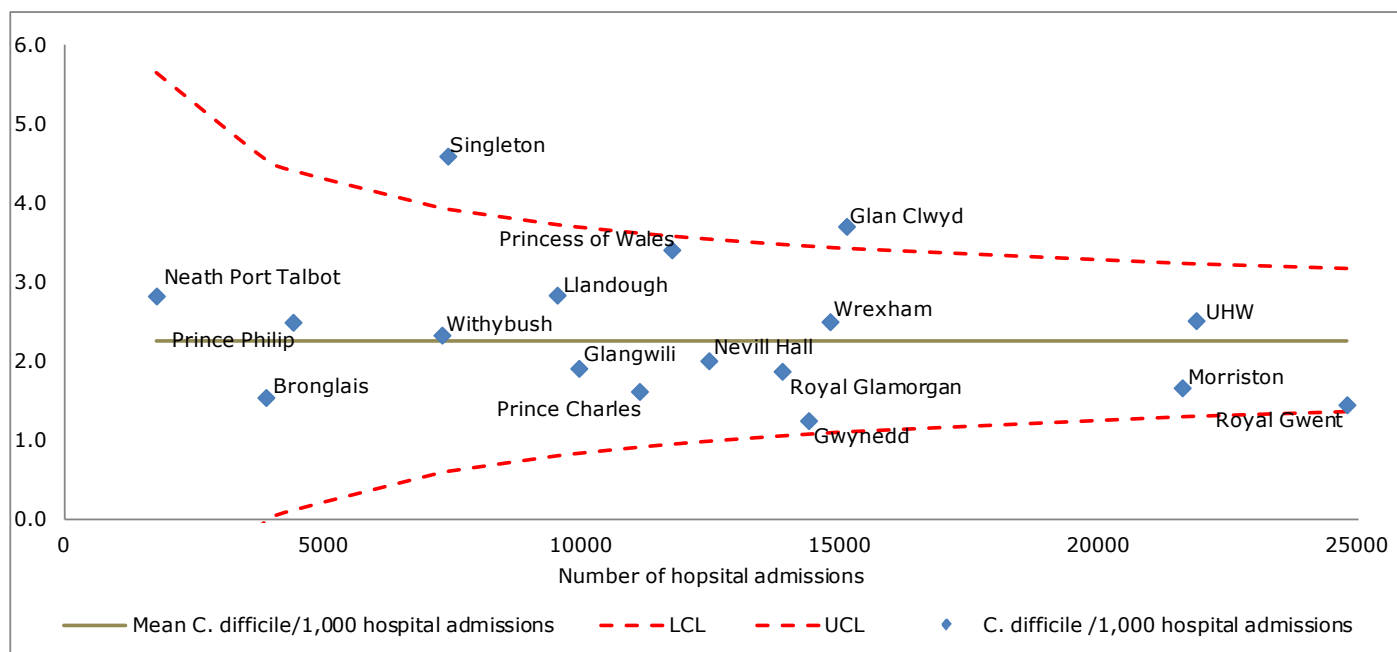


Table 1.9. Abertawe Bro Morgannwg University Health Board, numbers of *C. difficile* in non-acute hospital locations, Apr – Sep 14

Location	Number of <i>C. difficile</i>
Gorseinon Hospital	1
Non-hospital location	31

2. MRSA (meticillin-resistant *Staphylococcus aureus*) bacteraemia

MRSA bacteraemia surveillance notes for interpretation

- This report presents data on numbers of MRSA from blood cultures (bacteraemia) in Wales from April to September 2014, with trend data from April 2010 (other than for Powys Health Board where data collection started in Apr 2011).
- **Data for April to September 2014 is provisional.**
- Data is mainly collected via Datastore, a data warehouse system used by all microbiology laboratories in Wales. This data is supplemented manually with MRSA bacteraemia specimens from patients in Powys Health Board where the laboratory used for processing the specimen is in England.
- Data is extracted for the surveillance scheme using the following criteria:
 - *Staphylococcus aureus* (*S. aureus*) was identified from a blood culture sample
 - The sample was not taken from a patient in a private hospital, a privately run dialysis unit or post-mortem
 - Multiple positive samples from the same patient within a 14 day period are excluded as duplicates
- *S. aureus* positive blood cultures are assigned as MRSA (meticillin-resistant *S. aureus*) or MSSA (meticillin-sensitive *S. aureus*) on the basis of sensitivity to the antibiotic flucloxacillin
- Hospital admission data has been supplied by NHS Wales Informatics Service (NWIS) from the Patient Episode Database for Wales (PEDW).
- Population data has been extracted from <https://statswales.wales.gov.uk/Catalogue/Population-and-Migration/Population/Estimates>
- Mid 2013 population estimates have been used to calculate the 2014/15 population rates. These rates will be updated when the mid 2013 population estimates become available.

Wales MRSA bacteraemia, Apr – Sep 14

- 82 cases of MRSA bacteraemia have been reported for the 6 month period. This is a 3% increase in numbers compared to the equivalent period last year. The rate of MRSA bacteraemia per 1,000 hospital admissions has increased by 1%, from 0.36 to 0.37. (Table 2.1.)
- Compared to the equivalent period last year, 4 of the 8 health boards/trust in Wales have achieved a reduction in numbers of MRSA bacteraemia. One health board had the same number of MRSA bacteraemia for both time periods. (Table 2.1.)
- Compared to Apr – Sep 10, there has been a 31% decrease in the number of MRSA bacteraemia and a 31% decrease in the rate of MRSA bacteraemia per 1,000 hospital admissions in Wales. (Table 2.2.)
- Compared to the Apr – Sep 10, 5 of the 8 health boards/trust in Wales have achieved a reduction in numbers of MRSA bacteraemia. One health board had the same number of MRSA bacteraemia for both time periods. (Table 2.3.) Powys Teaching Health Board had some changes in data collection methods over this time period.
- 94% (77) of cases were diagnosed in the 18 acute hospitals, 4% (3) diagnosed in non-acute hospitals and 0% in non-hospital locations. 2 locations were not specified.
- 67% (55) of cases were diagnosed in hospital inpatient locations. The inpatient rate for Wales is 0.25 per 1,000 hospital admissions for this period.
- 35% (29) of MRSA bacteraemia were in female patients and 72% (59) were in patients aged 66+ for the 6 month period.
- The rate of MRSA bacteraemia per 100,000 population has increased by 3% compared to the equivalent period last year, from 5.18 to 5.31. (Table 2.2.)
- Compared to Apr – Sep 10, the rate of MRSA bacteraemia per 100,000 population has decreased by 32%. (Table 2.2.)

Table 2.1. Wales numbers of MRSA bacteraemia, percentage change in numbers (from Apr – Sep 13) and rates per 1,000 hospital admissions and 100,000 population by health board, Apr – Sep 14

	Number of MRSA bacteraemia	% change in number of MRSA bacteraemia from Apr – Sep 13	% change in number of MRSA bacteraemia from Apr – Sep 10	MRSA bacteraemia /1,000 hospital admissions	MRSA bacteraemia /100,000 population
ABM	13	+8% (12)	-55% (29)	0.30	4.98
Aneurin Bevan	10	-17% (12)	-9% (11)	0.23	3.44
Betsi Cadwaladr	18	-25% (24)	-36% (28)	0.37	5.19
Cardiff and Vale	21	+75% (12)	-5% (22)	0.65	8.75
Cwm Taf	6	+100% (3)	-45% (11)	0.23	4.05
Hywel Dda	14	-7% (15)	-13% (16)	0.53	7.27
Powys Teaching	0	-100% (1)	N/A	0.00	0.00
Velindre	0	-100% (1)	-100% (2)	0.00	N/A
Wales	82	+3% (80)	-31% (119)	0.37	5.31
Wales average	10	-8% (10)	-37% (17)	0.29	4.81
Wales median	12	-12% (12)	-36% (16)	0.26	4.98

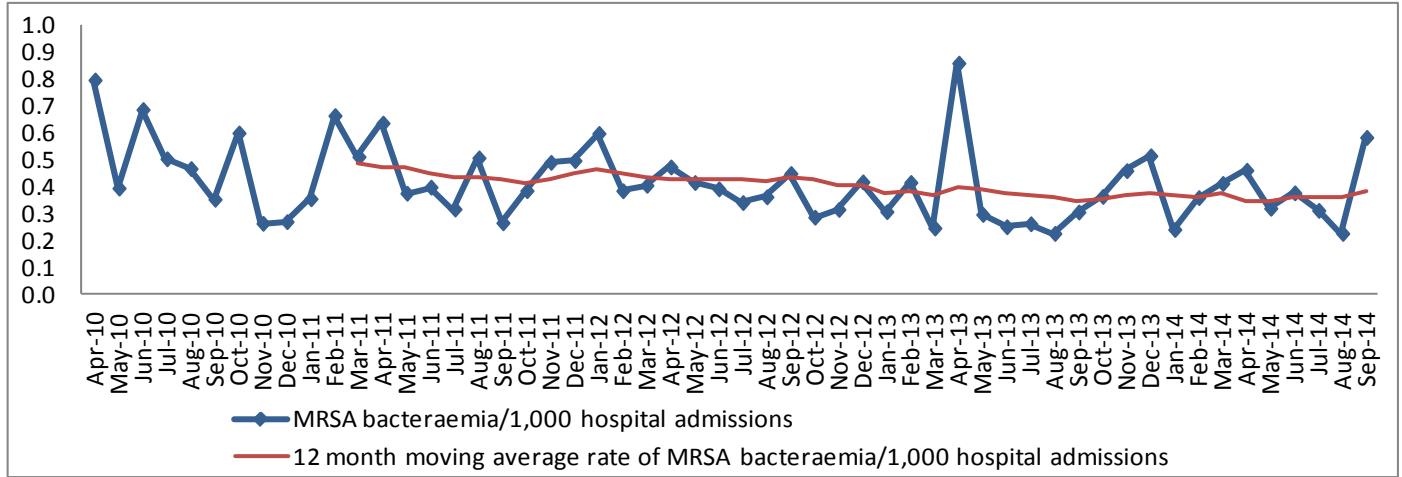
Table 2.2. Wales numbers and rates of MRSA bacteraemia per 1,000 hospital admissions and 100,000 population, Apr 10 – Sep 14

	Number of MRSA bacteraemia	Number of hospital admissions	MRSA bacteraemia/ 1,000 hospital admissions	Population*	MRSA bacteraemia/ 100,000 population
Apr – Sep 14	82	222610	0.37	1545428	5.31
Sep 14	19	36423	0.52	253349	7.50
Aug 14	8	34805	0.23	261794	3.06
Jul 14	12	39180	0.31	261794	4.58
Jun 14	14	37406	0.37	253349	5.53
May 14	12	37757	0.32	261794	4.58
Apr 14	17	37039	0.46	253349	6.71
2013/14 FY	165	437247	0.38	3082412	5.35
Apr – Sep 13	80	219353	0.36	1545428	5.18
2012/13 FY	161	439792	0.37	3074067	5.24
Apr – Sep 12	89	220574	0.40	1541245	5.77
2011/12 FY	199	455772	0.44	3063758	6.50
Apr – Sep 11	93	224821	0.41	1536076	6.05
Apr – Dec 10	218	448561	0.49	3049971	7.15
Apr – Sep 10	119	223855	0.53	1529164	7.78

*Monthly population = (Total population/Number of days in year) x Number of days in month

Wales

Figure 2.1. Wales monthly and 12 month moving average rates of MRSA bacteraemia per 1,000 hospital admissions, Apr 10 – Sep 14*



*12 month moving average rates are shown from Mar 11 as this is when the first full FY of data is complete

Abertawe Bro Morgannwg University
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Abertawe Bro Morgannwg University Health Board MRSA bacteraemia, Apr – Sep 14

- 13 cases of MRSA bacteraemia have been reported for the 6 month period. This is an 8% increase in numbers compared to the equivalent period last year. The rate of MRSA bacteraemia per 1,000 hospital admissions has increased by 5%, from 0.28 to 0.30. (Table 2.3.) The rate of MRSA bacteraemia per 1,000 hospital admissions in Wales has increased by 1% for the same period.
- Compared to Apr – Sep 10, there has been a 55% decrease in the number of MRSA bacteraemia and a 56% decrease in the rate of MRSA bacteraemia per 1,000 hospital admissions in this health board. (Table 2.4.) The rate of MRSA bacteraemia per 1,000 hospital admissions in Wales has decreased by 31%.
- All (13) of cases were diagnosed in the 4 acute hospitals in this health board.
- 62% (8) of cases in this health board were diagnosed in hospital inpatient locations. The inpatient rate is 0.18 per 1,000 hospital admissions for this period.
- 31% (4) of MRSA bacteraemia in this health board were in female patients and 77% (10) were in patients aged 66+ for the 6 month period.
- The rate of MRSA bacteraemia per 100,000 population has increased by 8% compared to the equivalent period last year, from 4.60 to 4.98. (Table 2.3.) The rate of MRSA bacteraemia per 100,000 population in Wales has increased by 5% for the same period.
- Compared to the Apr – Sep 10, the rate of MRSA bacteraemia per 100,000 population has decreased by 56% in this health board. (Table 2.4.) The rate of MRSA bacteraemia per 100,000 population in Wales has decreased by 32%.

Table 2.3. Abertawe Bro Morgannwg University Health Board numbers of MRSA bacteraemia, percentage change in numbers (from from Apr – Sep 13 and from Apr – Sep 10) and rates per 1,000 hospital admissions and 100,000 population by acute hospital, Apr – Sep 14

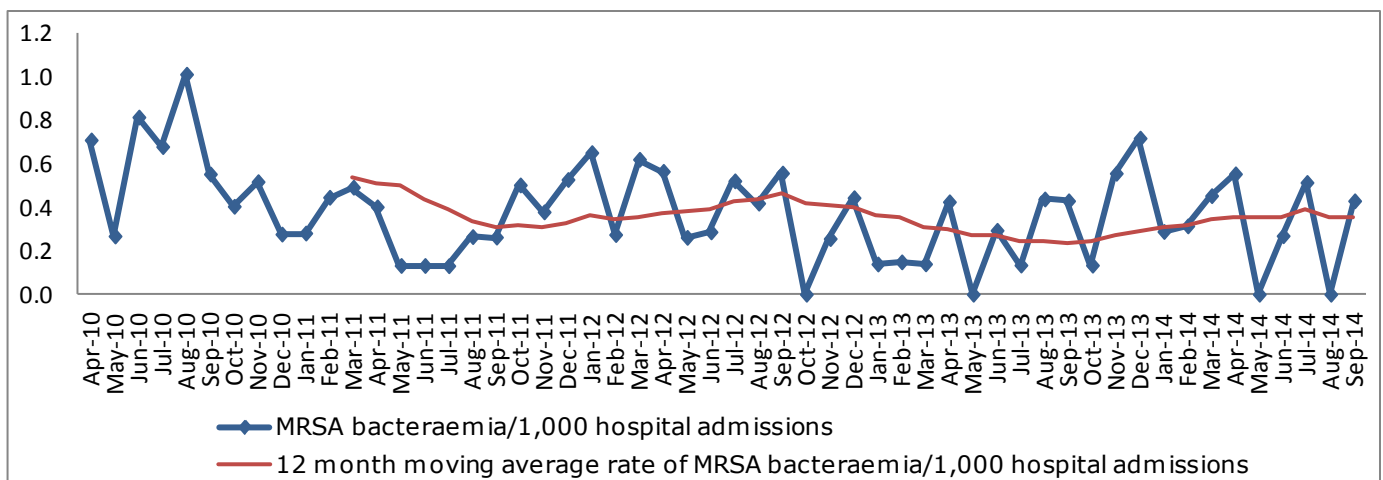
Health board/ hospital	Number of MRSA bacteraemia	% change in number of MRSA bacteraemia from Apr – Sep 13	% change in number of MRSA bacteraemia from Apr – Sep 10	MRSA bacteraemia /1,000 hospital admissions	MRSA bacteraemia /100,000 population
Morriston	4	-43% (7)	-64% (11)	0.19	N/A
Neath Port Talbot	0	0% (0)	-100% (2)	0.00	N/A
Princess of Wales	7	+250% (2)	-36% (11)	0.60	N/A
Singleton	2	-33% (3)	-60% (5)	0.27	N/A
ABM	13	+8% (12)	-55% (29)	0.30	4.98
Wales	82	+3% (80)	-31% (119)	0.37	5.31

Table 2.4. Abertawe Bro Morgannwg University Health Board numbers and rates of MRSA bacteraemia per 1,000 hospital admissions and 100,000 population, Apr 10 – Sep 14

	Number of MRSA bacteraemia	Number of hospital admissions	MRSA bacteraemia/ 1,000 hospital admissions	Population*	MRSA bacteraemia/ 100,000 population
Apr – Sep 14	13	43818	0.30	261068	4.98
Sep 14	3	7232	0.41	42798	7.01
Aug 14	0	6793	0.00	44225	0.00
Jul 14	4	7813	0.51	44225	9.04
Jun 14	2	7429	0.27	42798	4.67
May 14	0	7300	0.00	44225	0.00
Apr 14	4	7251	0.55	42798	9.35
2013/14 FY	29	84116	0.34	520710	5.57
Apr – Sep 13	12	42490	0.28	261068	4.60
2012/13 FY	27	87341	0.31	519481	5.20
Apr – Sep 12	19	43790	0.43	260452	7.30
2011/12 FY	33	92028	0.36	517981	6.37
Apr – Sep 11	10	45459	0.22	259700	3.85
2010/11 FY	47	87896	0.53	515420	9.12
Apr – Sep 10	29	43477	0.67	258416	11.22

*Monthly population = (Total population/Number of days in year) x Number of days in month

Figure 2.2. Abertawe Bro Morgannwg University Health Board monthly and 12 month moving average rates of MRSA bacteraemia per 1,000 hospital admissions, Apr 10 – Sep 14*



*12 month moving average rates are shown from Mar 11 as this is when the first full FY of data is complete

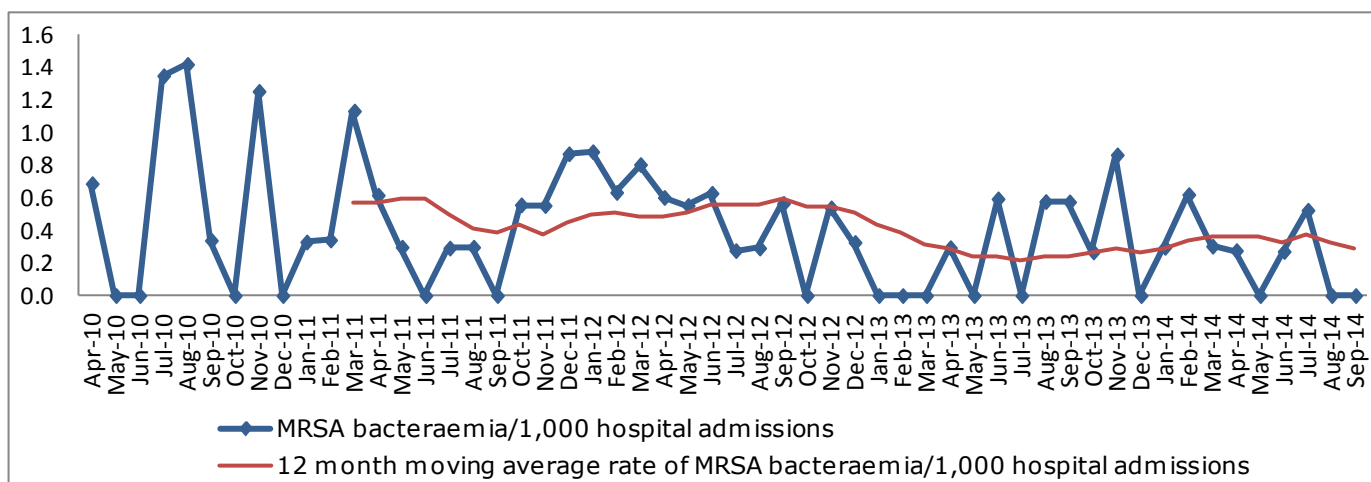
Morrison Hospital MRSA bacteraemia, Apr – Sep 14

- 4 cases of MRSA bacteraemia have been reported for the 6 month period. This is a 43% decrease in numbers compared to the equivalent period last year. (Table 2.3.) The rate of MRSA bacteraemia per 1,000 hospital admissions has decreased by 45%, from 0.33 to 0.19. (Table 2.5.)
- Compared to the Apr – Sep 10, there has been a 64% decrease in the number of MRSA bacteraemia and a 70% decrease in the rate of MRSA bacteraemia per 1,000 hospital admissions in this hospital. (Table 2.5.)
- The rate of MRSA bacteraemia in this hospital is not significantly different than the rates for the acute hospitals in Wales for this 6 month period. (Figure 2.7.)
- All of the cases were diagnosed in hospital non-inpatient locations.

Table 2.5. Morrison Hospital numbers and rates of MRSA bacteraemia per 1,000 hospital admissions, Apr 10 – Sep 14

	Number of MRSA bacteraemia	Number of hospital admissions	MRSA bacteraemia/ 1,000 hospital admissions
Apr – Sep 14	4	21599	0.19
Sep 14	0	3521	0.00
Aug 14	0	3355	0.00
Jul 14	2	3822	0.52
Jun 14	1	3686	0.27
May 14	0	3582	0.00
Apr 14	1	3633	0.28
2013/14 FY	15	41496	0.36
Apr – Sep 13	7	20967	0.33
2012/13 FY	13	41454	0.31
Apr – Sep 12	10	20769	0.48
2011/12 FY	20	41091	0.49
Apr – Sep 11	5	20084	0.25
2010/11 FY	21	36538	0.57
Apr – Sep 10	11	17860	0.62

Figure 2.3. Morriston Hospital monthly and 12 month moving average rates of MRSA bacteraemia per 1,000 hospital admissions, Apr 10 – Sep 14*



*12 month moving average rates are shown from Mar 11 as this is when the first full FY of data is complete

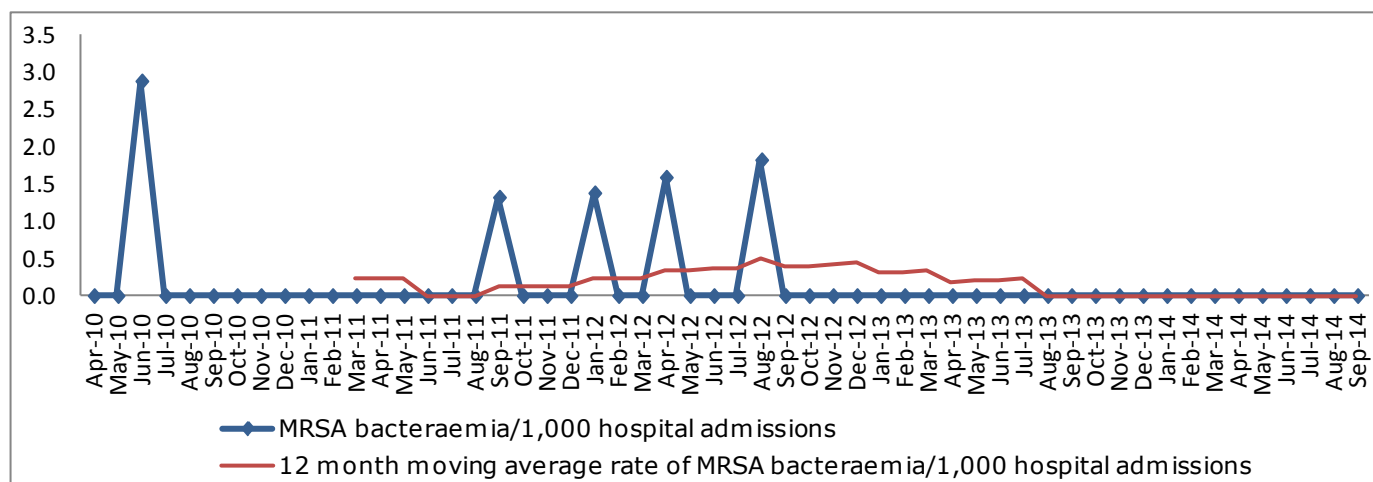
Neath Port Talbot Hospital MRSA bacteraemia, Apr – Sep 14

- 0 cases of MRSA bacteraemia have been reported for the 6 month period. This is the same number compared to the equivalent period last year. (Table 2.3.)
- Compared to the Apr – Sep 10, there has been a 100% decrease in the number of MRSA bacteraemia and a 100% decrease in the rate of MRSA bacteraemia per 1,000 hospital admissions in this hospital. (Table 2.6.)
- The rate of MRSA bacteraemia in this hospital is not significantly different than the rates for the acute hospitals in Wales for this 6 month period. (Figure 2.7.)

Table 2.6. Neath Port Talbot Hospital numbers and rates of MRSA bacteraemia per 1,000 hospital admissions, Apr 10 – Sep 14

	Number of MRSA bacteraemia	Number of hospital admissions	MRSA bacteraemia/ 1,000 hospital admissions
Apr – Sep 14	0	1769	0.00
Sep 14	0	277	0.00
Aug 14	0	175	0.00
Jul 14	0	350	0.00
Jun 14	0	334	0.00
May 14	0	299	0.00
Apr 14	0	334	0.00
2013/14 FY	0	3505	0.00
Apr – Sep 13	0	1745	0.00
2012/13 FY	2	5743	0.35
Apr – Sep 12	2	3597	0.56
2011/12 FY	2	8602	0.23
Apr – Sep 11	1	4386	0.23
2010/11 FY	2	8203	0.24
Apr – Sep 10	2	3926	0.51

Figure 2.4. Neath Port Talbot Hospital monthly and 12 month moving average rates of MRSA bacteraemia per 1,000 hospital admissions, Apr 10 – Sep 14*



*12 month moving average rates are shown from Mar 11 as this is when the first full FY of data is complete

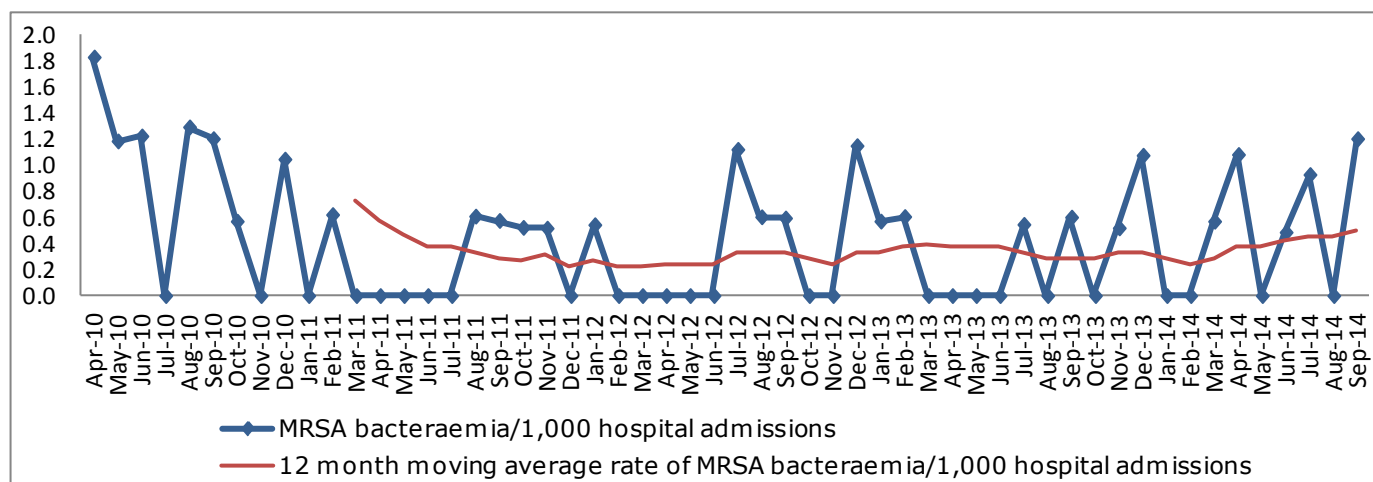
Princess of Wales Hospital MRSA bacteraemia, Apr – Sep 14

- 7 cases of MRSA bacteraemia have been reported for the 6 month period. This is a 250% increase in numbers compared to the equivalent period last year. (Table 2.3.) The rate of MRSA bacteraemia per 1,000 hospital admissions has increased by 213%, from 0.19 to 0.60. (Table 2.7.)
- Compared to the Apr – Sep 10, there has been a 36% decrease in the number of MRSA bacteraemia and a 46% decrease in the rate of MRSA bacteraemia per 1,000 hospital admissions in this hospital. (Table 2.7.)
- The rate of MRSA bacteraemia in this hospital is not significantly different than the rates for the acute hospitals in Wales for this 6 month period. (Figure 2.7.)
- 86% (6) of the cases were diagnosed in hospital inpatient locations. The inpatient rate is 0.51 per 1,000 hospital admissions for this period.

Table 2.7. Princess of Wales Hospital numbers and rates of MRSA bacteraemia per 1,000 hospital admissions, Apr 10 – Sep 14

	Number of MRSA bacteraemia	Number of hospital admissions	MRSA bacteraemia/ 1,000 hospital admissions
Apr – Sep 14	7	11732	0.60
Sep 14	2	1907	1.05
Aug 14	0	1814	0.00
Jul 14	2	2169	0.92
Jun 14	1	2050	0.49
May 14	0	1936	0.00
Apr 14	2	1856	1.08
2013/14 FY	6	21095	0.28
Apr – Sep 13	2	10489	0.19
2012/13 FY	8	20683	0.39
Apr – Sep 12	4	10088	0.40
2011/12 FY	5	21769	0.23
Apr – Sep 11	2	10597	0.19
2010/11 FY	15	20698	0.72
Apr – Sep 10	11	9866	1.11

Figure 2.5. Princess of Wales Hospital monthly and 12 month moving average rates of MRSA bacteraemia per 1,000 hospital admissions, Apr 10 – Sep 14*



*12 month moving average rates are shown from Mar 11 as this is when the first full FY of data is complete

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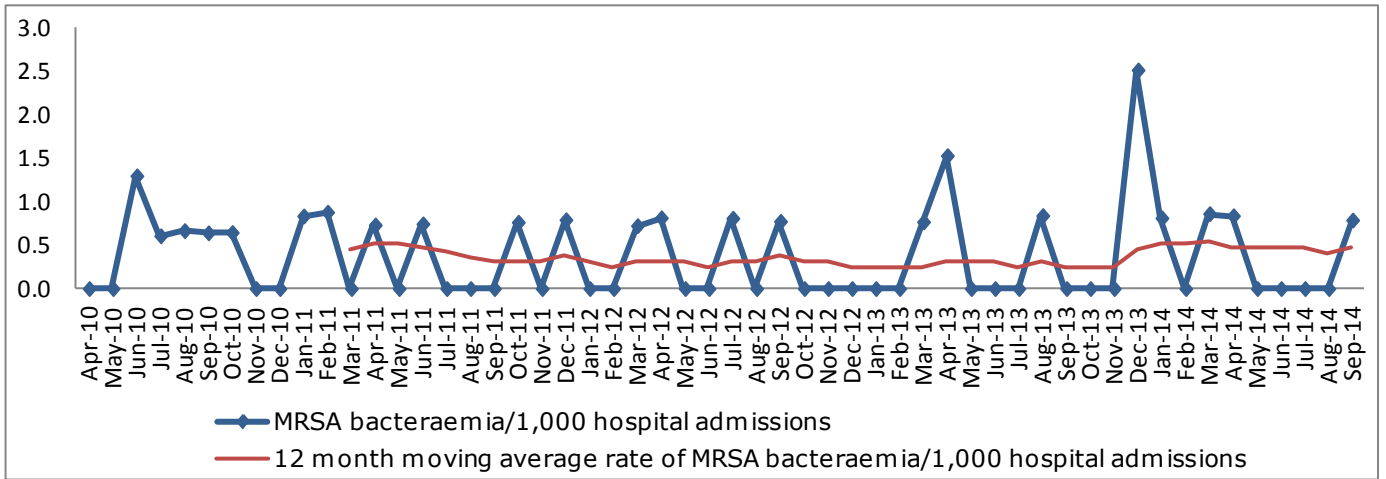
Singleton Hospital MRSA bacteraemia, Apr – Sep 14

- 2 cases of MRSA bacteraemia have been reported for the 6 month period. This is a 33% decrease in numbers compared to the equivalent period last year. (Table 2.3.) The rate of MRSA bacteraemia per 1,000 hospital admissions has decreased by 31%, from 0.39 to 0.27. (Table 2.8.)
- Compared to the Apr – Sep 10, there has been a 60% decrease in the number of MRSA bacteraemia and a 50% decrease in the rate of MRSA bacteraemia per 1,000 hospital admissions in this hospital. (Table 2.8.)
- The rate of MRSA bacteraemia in this hospital is not significantly different than the rates for the acute hospitals in Wales for this 6 month period. (Figure 2.7.)
- All of the cases were diagnosed in hospital inpatient locations.

Table 2.8. Singleton Hospital numbers and rates of MRSA bacteraemia per 1,000 hospital admissions, Apr 10 – Sep 14

	Number of MRSA bacteraemia	Number of hospital admissions	MRSA bacteraemia/ 1,000 hospital admissions
Apr – Sep 14	2	7402	0.27
Sep 14	1	1345	0.74
Aug 14	0	1231	0.00
Jul 14	0	1227	0.00
Jun 14	0	1147	0.00
May 14	0	1254	0.00
Apr 14	1	1198	0.83
2013/14 FY	8	15017	0.53
Apr – Sep 13	3	7640	0.39
2012/13 FY	4	15583	0.26
Apr – Sep 12	3	7403	0.41
2011/12 FY	5	15993	0.31
Apr – Sep 11	2	8122	0.25
2010/11 FY	8	17473	0.46
Apr – Sep 10	5	9235	0.54

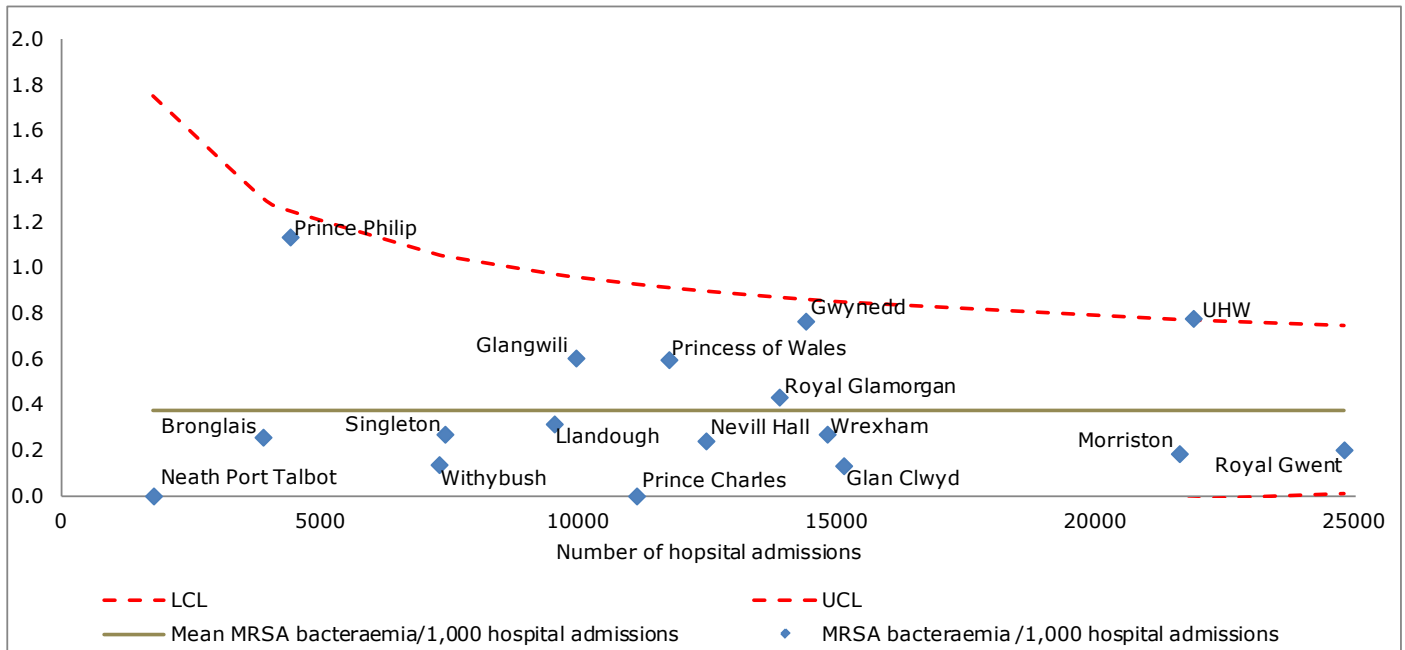
Figure 2.6. Singleton Hospital monthly and 12 month moving average rates of MRSA bacteraemia per 1,000 hospital admissions, Apr 10 – Sep 14*



*12 month moving average rates are shown from Mar 11 as this is when the first full FY of data is complete

Staphylococcus aureus bacteraemia Surveillance
April to September 2014 Bi-annual Report
Abertawe Bro Morgannwg University Health Board

Figure 2.7. Rates of MRSA bacteraemia per 1,000 hospital admissions by acute hospital, Apr – Sep 14



3. MSSA (meticillin-sensitive *Staphylococcus aureus*) bacteraemia

MSSA bacteraemia surveillance notes for interpretation

- This report presents data on numbers of MSSA from blood cultures (bacteraemia) in Wales from April to September 2014, with trend data from April 2010 (other than for Powys Health Board where data collection started in Apr 2011).
- **Data for April to September 2014 is provisional.**
- Data is mainly collected via Datastore, a data warehouse system used by all microbiology laboratories in Wales. This data is supplemented manually with MSSA bacteraemia specimens from patients in Powys Health Board where the laboratory used for processing the specimen is in England.
- Data is extracted for the surveillance scheme using the following criteria:
 - *Staphylococcus aureus* (*S. aureus*) was identified from a blood culture sample
 - The sample was not taken from a patient in a private hospital, a privately run dialysis unit or post-mortem
 - Multiple positive samples from the same patient within a 14 day period are excluded as duplicates
- *S. aureus* positive blood cultures are assigned as MRSA (meticillin-resistant *S. aureus*) or MSSA (meticillin-sensitive *S. aureus*) on the basis of sensitivity to the antibiotic flucloxacillin
- Hospital admission data has been supplied by NHS Wales Informatics Service (NWIS) from the Patient Episode Database for Wales (PEDW).
- Population data has been extracted from <https://statswales.wales.gov.uk/Catalogue/Population-and-Migration/Population/Estimates>
- Mid 2013 population estimates have been used to calculate the 2014/15 population rates. These rates will be updated when the mid 2013 population estimates become available.

Wales MSSA bacteraemia, Apr – Sep 14

- 389 cases of MSSA bacteraemia have been reported for the 6 month period. This is a 3% increase in numbers compared to the equivalent period last year. The rate of MSSA bacteraemia per 1,000 hospital admissions has increased by 1%, from 1.72 to 1.75. (Table 3.1.)
- Compared to the equivalent period last year, 2 of the 8 health boards/trust in Wales have achieved a reduction in numbers of MSSA bacteraemia. (Table 3.1.)
- Compared to Apr – Sep 10, there has been a 20% increase in the number of MSSA bacteraemia and a 20% increase in the rate of MSSA bacteraemia per 1,000 hospital admissions in Wales. (Table 3.2.)
- Compared to the Apr – Sep 10, 2 of the 8 health boards/trust in Wales have achieved a reduction in numbers of MSSA bacteraemia. (Table 3.3.) Powys Teaching Health Board had some changes in data collection methods over this time period.
- 96% (375) of cases were diagnosed in the 18 acute hospitals, 2% (7) diagnosed in non-acute hospitals and 1% (2) in non-hospital locations. 5 locations were not specified.
- 61% (238) of cases were diagnosed in hospital inpatient locations. The inpatient rate for Wales is 1.07 per 1,000 hospital admissions for this period.
- 40% (155) of MSSA bacteraemia were in female patients and 47% (183) were in patients aged 66+ for the 6 month period.
- The rate of MSSA bacteraemia per 100,000 population has increased by 3% compared to the equivalent period last year, from 24.46 to 25.17. (Table 3.2.)
- Compared to Apr – Sep 10, the rate of MSSA bacteraemia per 100,000 population has increased by 18%. (Table 3.2.)

Table 3.1. Wales numbers of MSSA bacteraemia, percentage change in numbers (from Apr – Sep 13) and rates per 1,000 hospital admissions and 100,000 population by health board, Apr – Sep 14

	Number of MSSA bacteraemia	% change in number of MSSA bacteraemia from Apr – Sep 13	% change in number of MSSA bacteraemia from Apr – Sep 10	MSSA bacteraemia /1,000 hospital admissions	MSSA bacteraemia /100,000 population
ABM	80	+1% (79)	+43% (56)	1.83	30.64
Aneurin Bevan	60	+2% (59)	-3% (62)	1.37	20.67
Betsi Cadwaladr	72	+24% (58)	+7% (67)	1.49	20.75
Cardiff and Vale	74	-11% (83)	+21% (61)	2.29	30.82
Cwm Taf	48	+7% (45)	+71% (28)	1.83	32.44
Hywel Dda	53	+8% (49)	+10% (48)	1.99	27.54
Powys Teaching	0	0% (0)	N/A	0.00	0.00
Velindre	2	-60% (5)	-33% (3)	2.38	N/A
Wales	389	+3% (378)	+20% (325)	1.75	25.17
Wales average	49	-4% (47)	+17% (46)	1.65	23.27
Wales median	57	+1% (54)	+10% (56)	1.83	27.54

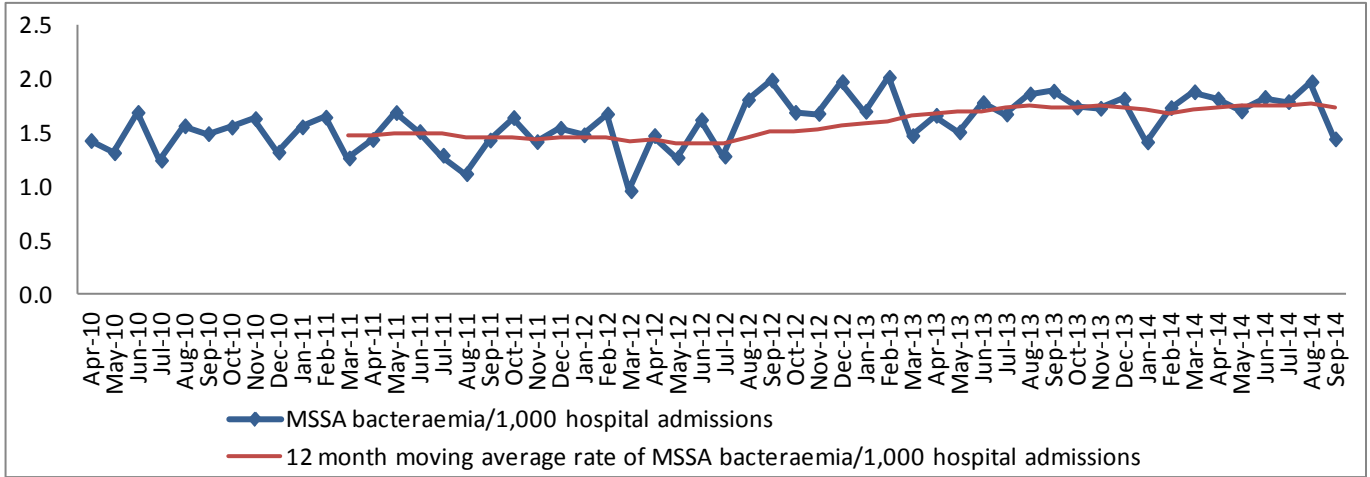
Table 3.2. Wales numbers and rates of MSSA bacteraemia per 1,000 hospital admissions and 100,000 population, Apr 10 – Sep 14

	Number of MSSA bacteraemia	Number of hospital admissions	MSSA bacteraemia/ 1,000 hospital admissions	Population*	MSSA bacteraemia/ 100,000 population
Apr – Sep 14	389	222610	1.75	1545428	25.17
Sep 14	52	36423	1.43	253349	20.53
Aug 14	70	34805	2.01	261794	26.74
Jul 14	70	39180	1.79	261794	26.74
Jun 14	67	37406	1.79	253349	26.45
May 14	64	37757	1.70	261794	24.45
Apr 14	66	37039	1.78	253349	26.05
2013/14 FY	751	437247	1.72	3082412	24.36
Apr – Sep 13	378	219353	1.72	1545428	24.46
2012/13 FY	728	439792	1.66	3074067	23.68
Apr – Sep 12	345	220574	1.56	1541245	22.38
2011/12 FY	651	455772	1.43	3063758	21.25
Apr – Sep 11	317	224821	1.41	1536076	20.64
Apr – Dec 10	659	448561	1.47	3049971	21.61
Apr – Sep 10	325	223855	1.45	1529164	21.25

*Monthly population = (Total population/Number of days in year) x Number of days in month

Wales

Figure 3.1. Wales monthly and 12 month moving average rates of MSSA bacteraemia per 1,000 hospital admissions, Apr 10 – Sep 14*



*12 month moving average rates are shown from Mar 11 as this is when the first full FY of data is complete

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Abertawe Bro Morgannwg University Health Board MSSA bacteraemia, Apr – Sep 14

- 80 cases of MSSA bacteraemia have been reported for the 6 month period. This is a 1% increase in numbers compared to the equivalent period last year. The rate of MSSA bacteraemia per 1,000 hospital admissions has decreased by 2%, from 1.86 to 1.83. (Table 3.3.) The rate of MSSA bacteraemia per 1,000 hospital admissions in Wales has increased by 1% for the same period.
- Compared to Apr – Sep 10, there has been a 43% increase in the number of MSSA bacteraemia and a 42% increase in the rate of MSSA bacteraemia per 1,000 hospital admissions in this health board. (Table 3.4.) The rate of MSSA bacteraemia per 1,000 hospital admissions in Wales has increased by 20%.
- All cases were diagnosed in the 4 acute hospitals in this health board.
- 70% (56) of cases in this health board were diagnosed in hospital inpatient locations. The inpatient rate is 1.28 per 1,000 hospital admissions for this period.
- 41% (33) of MSSA bacteraemia in this health board were in female patients and 49% (39) were in patients aged 66+ for the 6 month period.
- The rate of MSSA bacteraemia per 100,000 population has increased by 1% compared to the equivalent period last year, from 30.26 to 30.64. (Table 3.3.) The rate of MSSA bacteraemia per 100,000 population in Wales has increased by 3% for the same period.
- Compared to the Apr – Sep 10, the rate of MSSA bacteraemia per 100,000 population has increased by 41% in this health board. (Table 3.4.) The rate of MSSA bacteraemia per 100,000 population in Wales has increased by 18%.

Table 3.3. Abertawe Bro Morgannwg University Health Board numbers of MSSA bacteraemia, percentage change in numbers (from from Apr – Sep 13 and from Apr – Sep 10) and rates per 1,000 hospital admissions and 100,000 population by acute hospital, Apr – Sep 14

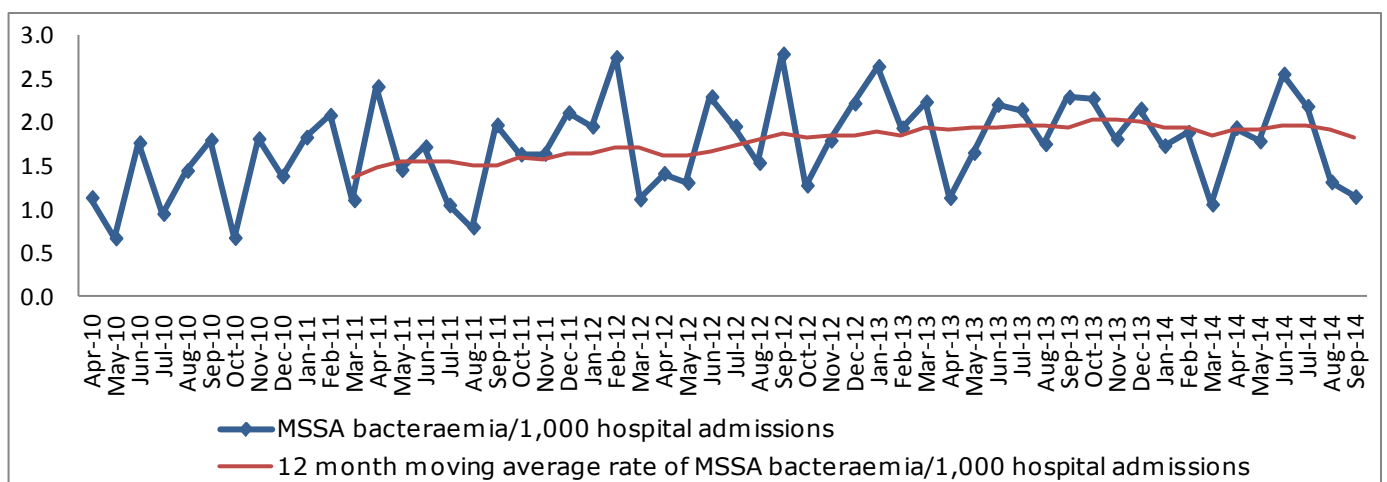
Health board/ hospital	Number of MSSA bacteraemia	% change in number of MSSA bacteraemia from Apr – Sep 13	% change in number of MSSA bacteraemia from Apr – Sep 10	MSSA bacteraemia /1,000 hospital admissions	MSSA bacteraemia /100,000 population
Morrison	48	+41% (34)	+100% (24)	2.22	N/A
Neath Port Talbot	2	0% (2)	-33% (3)	1.13	N/A
Princess of Wales	13	-50% (26)	-24% (17)	1.11	N/A
Singleton	17	0% (17)	+42% (12)	2.30	N/A
ABM	80	+1% (79)	+43% (56)	1.83	30.64
Wales	389	+3% (378)	+20% (325)	1.75	25.17

Table 3.4. Abertawe Bro Morgannwg University Health Board numbers and rates of MSSA bacteraemia per 1,000 hospital admissions and 100,000 population, Apr 10 – Sep 14

	Number of MSSA bacteraemia	Number of hospital admissions	MSSA bacteraemia/ 1,000 hospital admissions	Population*	MSSA bacteraemia/ 100,000 population
Apr – Sep 14	80	43818	1.83	261068	30.64
Sep 14	8	7232	1.11	42798	18.69
Aug 14	9	6793	1.32	44225	20.35
Jul 14	17	7813	2.18	44225	38.44
Jun 14	19	7429	2.56	42798	44.39
May 14	13	7300	1.78	44225	29.40
Apr 14	14	7251	1.93	42798	32.71
2013/14 FY	155	84116	1.84	520710	29.77
Apr – Sep 13	79	42490	1.86	261068	30.26
2012/13 FY	169	87341	1.93	519481	32.53
Apr – Sep 12	82	43790	1.87	260452	31.48
2011/12 FY	157	92028	1.71	517981	30.31
Apr – Sep 11	71	45459	1.56	259700	27.34
2010/11 FY	121	87896	1.38	515420	23.48
Apr – Sep 10	56	43477	1.29	258416	21.67

*Monthly population = (Total population/Number of days in year) x Number of days in month

Figure 3.2. Abertawe Bro Morgannwg University Health Board monthly and 12 month moving average rates of MSSA bacteraemia per 1,000 hospital admissions, Apr 10 – Sep 14*



*12 month moving average rates are shown from Mar 11 as this is when the first full FY of data is complete

Abertawe Bro Morgannwg University
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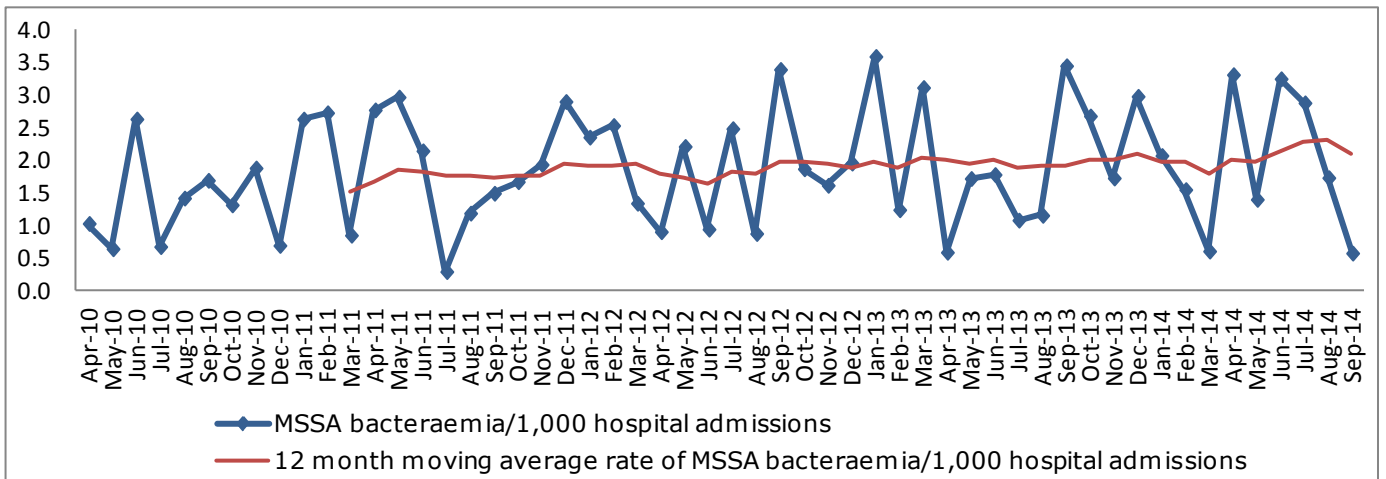
Morrison Hospital MSSA bacteraemia, Apr – Sep 14

- 48 cases of MSSA bacteraemia have been reported for the 6 month period. This is a 41% increase in numbers compared to the equivalent period last year. (Table 3.3.) The rate of MSSA bacteraemia per 1,000 hospital admissions has increased by 37%, from 1.62 to 2.22. (Table 3.5.)
- Compared to the Apr – Sep 10, there has been a 100% increase in the number of MSSA bacteraemia and a 65% increase in the rate of MSSA bacteraemia per 1,000 hospital admissions in this hospital. (Table 3.5.)
- The rate of MSSA bacteraemia in this hospital is not significantly different than the rates for the acute hospitals in Wales for this 6 month period. (Figure 3.7.)
- 60% (29) of the cases were diagnosed in hospital inpatient locations. The inpatient rate is 1.34 per 1,000 hospital admissions for this period.

Table 3.5. Morrison Hospital numbers and rates of MSSA bacteraemia per 1,000 hospital admissions, Apr 10 – Sep 14

	Number of MSSA bacteraemia	Number of hospital admissions	MSSA bacteraemia/ 1,000 hospital admissions
Apr – Sep 14	48	21599	2.22
Sep 14	2	3521	0.57
Aug 14	6	3355	1.79
Jul 14	11	3822	2.88
Jun 14	12	3686	3.26
May 14	5	3582	1.40
Apr 14	12	3633	3.30
2013/14 FY	74	41496	1.78
Apr – Sep 13	34	20967	1.62
2012/13 FY	84	41454	2.03
Apr – Sep 12	38	20769	1.83
2011/12 FY	80	41091	1.95
Apr – Sep 11	36	20084	1.79
2010/11 FY	55	36538	1.51
Apr – Sep 10	24	17860	1.34

Figure 3.3. Morriston Hospital monthly and 12 month moving average rates of MSSA bacteraemia per 1,000 hospital admissions, Apr 10 – Sep 14*



*12 month moving average rates are shown from Mar 11 as this is when the first full FY of data is complete

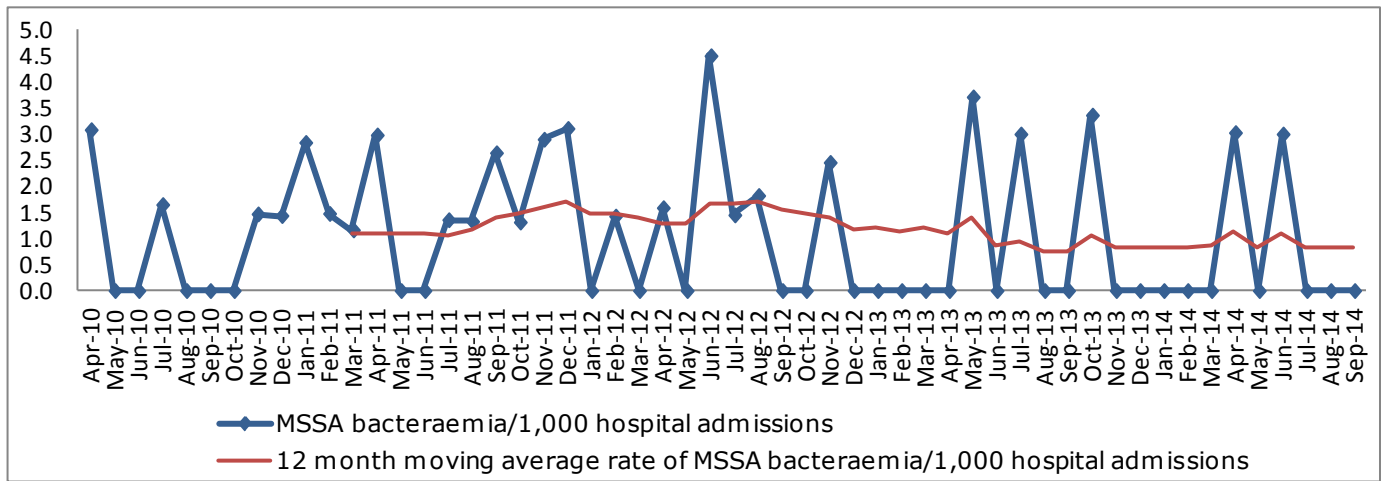
Neath Port Talbot Hospital MSSA bacteraemia, Apr – Sep 14

- 2 cases of MSSA bacteraemia have been reported for the 6 month period. This is the same number compared to the equivalent period last year. (Table 3.3.)
- Compared to the Apr – Sep 10, there has been a 33% decrease in the number of MSSA bacteraemia and a 48% increase in the rate of MSSA bacteraemia per 1,000 hospital admissions in this hospital. (Table 3.6.)
- The rate of MSSA bacteraemia in this hospital is not significantly different than the rates for the acute hospitals in Wales for this 6 month period. (Figure 3.7.)
- All of the cases were diagnosed in hospital inpatient locations.

Table 3.6. Neath Port Talbot Hospital numbers and rates of MSSA bacteraemia per 1,000 hospital admissions, Apr 10 – Sep 14

	Number of MSSA bacteraemia	Number of hospital admissions	MSSA bacteraemia/ 1,000 hospital admissions
Apr – Sep 14	2	1769	1.13
Sep 14	0	277	0.00
Aug 14	0	175	0.00
Jul 14	0	350	0.00
Jun 14	1	334	2.99
May 14	0	299	0.00
Apr 14	1	334	2.99
2013/14 FY	3	3505	0.86
Apr – Sep 13	2	1745	1.15
2012/13 FY	7	5743	1.22
Apr – Sep 12	6	3597	1.67
2011/12 FY	12	8602	1.40
Apr – Sep 11	6	4386	1.37
2010/11 FY	9	8203	1.10
Apr – Sep 10	3	3926	0.76

Figure 3.4. Neath Port Talbot Hospital monthly and 12 month moving average rates of MSSA bacteraemia per 1,000 hospital admissions, Apr 10 – Sep 14*



*12 month moving average rates are shown from Mar 11 as this is when the first full FY of data is complete

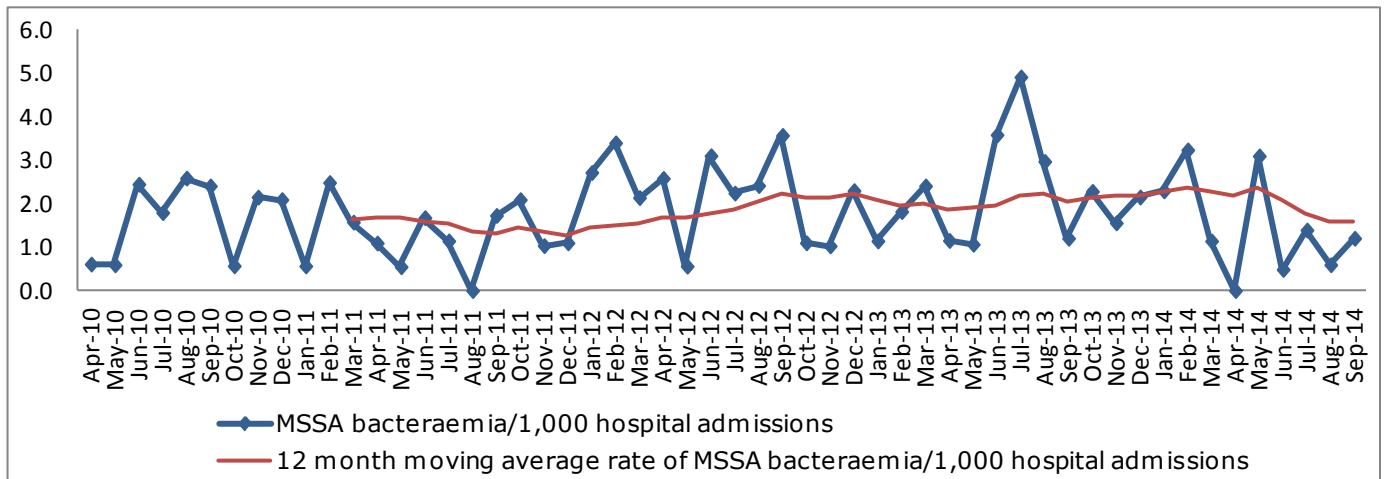
Princess of Wales Hospital MSSA bacteraemia, Apr – Sep 14

- 13 cases of MSSA bacteraemia have been reported for the 6 month period. This is a 50% decrease in numbers compared to the equivalent period last year. (Table 3.3.) The rate of MSSA bacteraemia per 1,000 hospital admissions has decreased by 55%, from 2.48 to 1.11. (Table 3.7.)
- Compared to the Apr – Sep 10, there has been a 24% decrease in the number of MSSA bacteraemia and a 36% decrease in the rate of MSSA bacteraemia per 1,000 hospital admissions in this hospital. (Table 3.7.)
- The rate of MSSA bacteraemia in this hospital is not significantly different than the rates for the acute hospitals in Wales for this 6 month period. (Figure 3.7.)
- 62% (8) of the cases were diagnosed in hospital inpatient locations. The inpatient rate is 0.68 per 1,000 hospital admissions for this period.

Table 3.7. Princess of Wales Hospital numbers and rates of MSSA bacteraemia per 1,000 hospital admissions, Apr 10 – Sep 14

	Number of MSSA bacteraemia	Number of hospital admissions	MSSA bacteraemia/ 1,000 hospital admissions
Apr – Sep 14	13	11732	1.11
Sep 14	2	1907	1.05
Aug 14	1	1814	0.55
Jul 14	3	2169	1.38
Jun 14	1	2050	0.49
May 14	6	1936	3.10
Apr 14	0	1856	0.00
2013/14 FY	48	21095	2.28
Apr – Sep 13	26	10489	2.48
2012/13 FY	41	20683	1.98
Apr – Sep 12	24	10088	2.38
2011/12 FY	34	21769	1.56
Apr – Sep 11	11	10597	1.04
2010/11 FY	34	20698	1.64
Apr – Sep 10	17	9866	1.72

Figure 3.5. Princess of Wales Hospital monthly and 12 month moving average rates of MSSA bacteraemia per 1,000 hospital admissions, Apr 10 – Sep 14*



*12 month moving average rates are shown from Mar 11 as this is when the first full FY of data is complete

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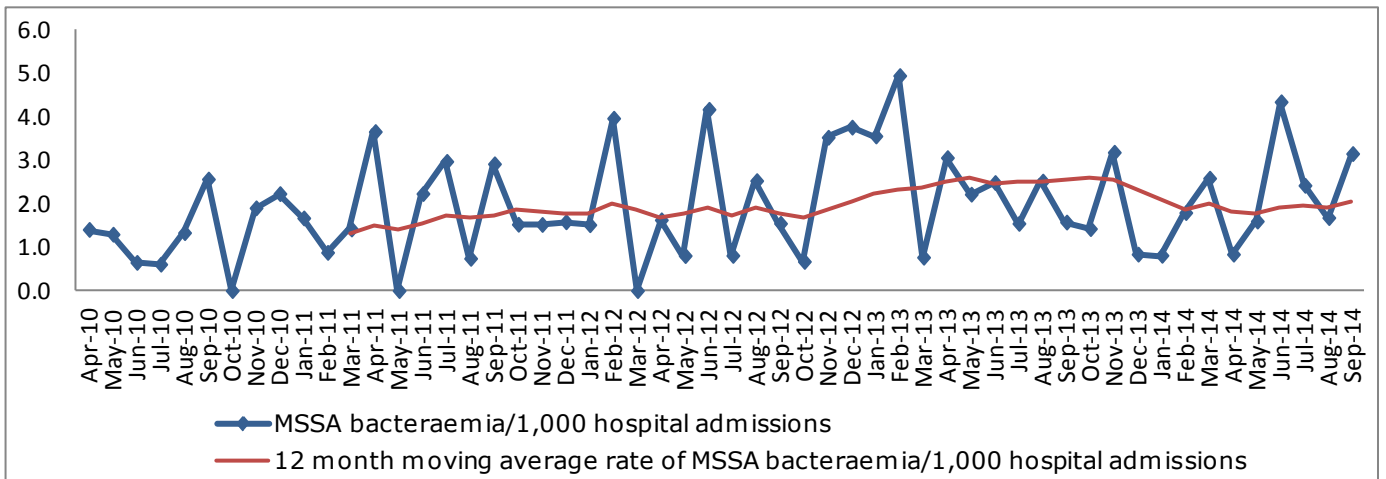
Singleton Hospital MSSA bacteraemia, Apr – Sep 14

- 17 cases of MSSA bacteraemia have been reported for the 6 month period. This is the same number compared to the equivalent period last year. (Table 3.3.) The rate of MSSA bacteraemia per 1,000 hospital admissions has increased by 3%, from 2.23 to 2.30. (Table 3.8.)
- Compared to the Apr – Sep 10, there has been a 42% increase in the number of MSSA bacteraemia and a 77% increase in the rate of MSSA bacteraemia per 1,000 hospital admissions in this hospital. (Table 3.8.)
- The rate of MSSA bacteraemia in this hospital is not significantly different than the rates for the acute hospitals in Wales for this 6 month period. (Figure 3.7.)
- All of the cases were diagnosed in hospital inpatient locations.

Table 3.8. Singleton Hospital numbers and rates of MSSA bacteraemia per 1,000 hospital admissions, Apr 10 – Sep 14

	Number of MSSA bacteraemia	Number of hospital admissions	MSSA bacteraemia/ 1,000 hospital admissions
Apr – Sep 14	17	7402	2.30
Sep 14	4	1345	2.97
Aug 14	2	1231	1.62
Jul 14	3	1227	2.44
Jun 14	5	1147	4.36
May 14	2	1254	1.59
Apr 14	1	1198	0.83
2013/14 FY	30	15017	2.00
Apr – Sep 13	17	7640	2.23
2012/13 FY	37	15583	2.37
Apr – Sep 12	14	7403	1.89
2011/12 FY	30	15993	1.88
Apr – Sep 11	17	8122	2.09
2010/11 FY	23	17473	1.32
Apr – Sep 10	12	9235	1.30

Figure 3.6. Singleton Hospital monthly and 12 month moving average rates of MSSA bacteraemia per 1,000 hospital admissions, Apr 10 – Sep 14*



*12 month moving average rates are shown from Mar 11 as this is when the first full FY of data is complete

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Figure 3.7. Rates of MSSA bacteraemia per 1,000 hospital admissions by acute hospital, Apr – Sep 14

