

Staphylococcus aureus Blood Stream Infection (Bacteraemia)
Surveillance

Abertawe Bro Morgannwg University Health Board Data
per 100 000 Bed Days

Rates of *Staphylococcus aureus* Blood Stream Infections per 100 000 bed days

For the *Staphylococcus aureus* blood stream infection (bacteraemia) surveillance scheme, rates produced for reports have historically used 1000 bed days as the standard comparison denominator. However, the Top Ten Blood Stream Infection (bacteraemia) surveillance uses 100 000 bed days as the standard comparison denominator. To allow comparisons between the two schemes, the *Staph. aureus* data published for each Health Board has been recalculated to be per 100 000 bed days. However to allow comparison with the English scheme, is presented per 10,000 bed days please divide these Welsh Health Board figures by 10.

Abertawe Bro Morgannwg University Health Board Annual Data: 01/10/10 – 30/09/11

Blood Culture Sets Taken (BCS)	Positive Blood Cultures (PBS)*	Total <i>S.aureus</i>	MRSA	Bed days	% of BCS that are MRSA	% of PBS that are MRSA	% of <i>S.aureus</i> that are MRSA	BCS/100 000 bed days	PBS/100 000 bed days	Total <i>S.aureus</i> /100 000 bed days	MRSA/100 000 bed days
17640	2457	164	28	813193	0.16	1.14	17.07	2169	302	20	3

*Including duplicates and contaminants

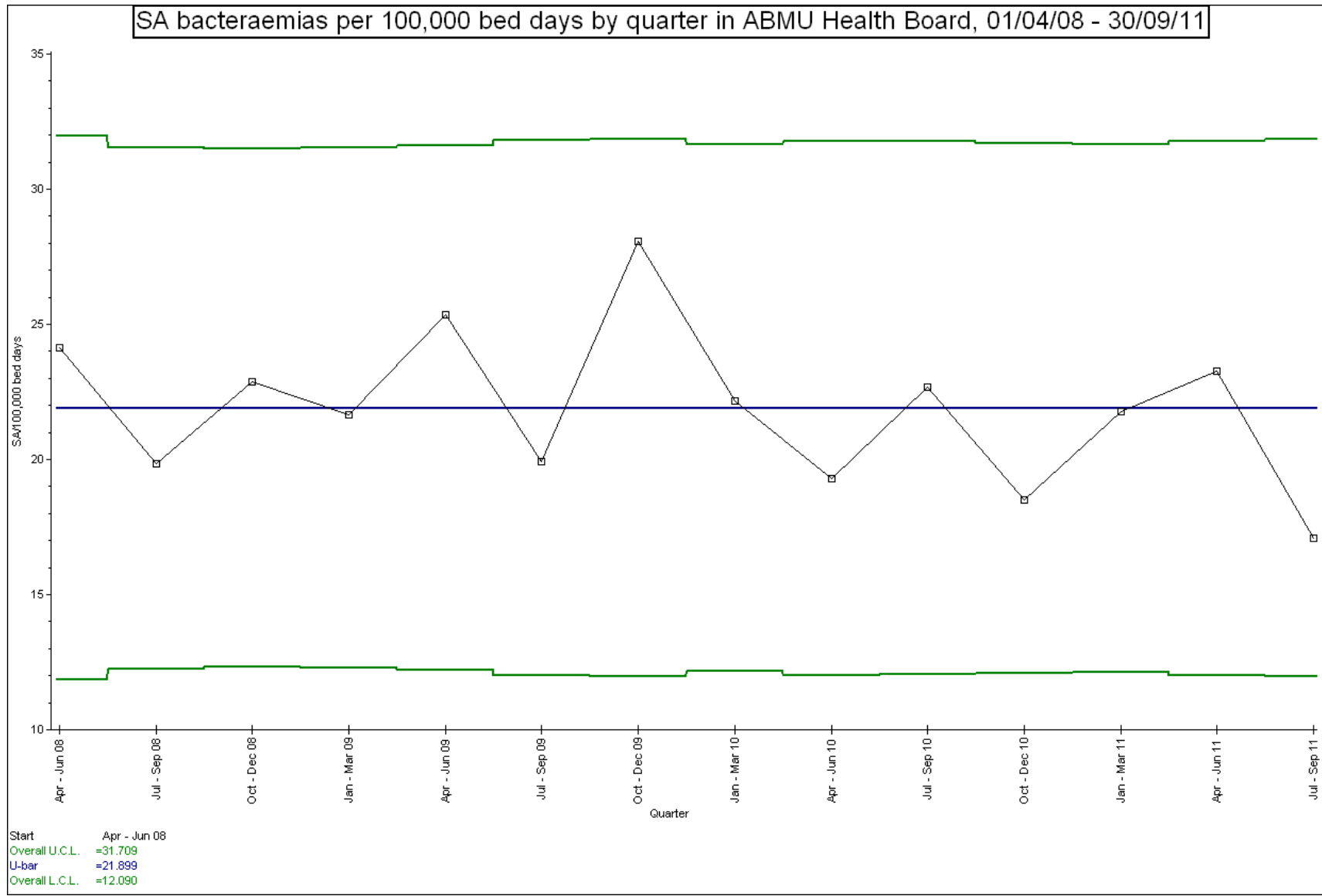
Abertawe Bro Morgannwg Unversity Health Board Quarterly Trend Data:
01/04/08 – 30/09/11

Quarter	Quarter no	MRSA	MSSA	Total <i>S. aureus</i>	Bed days	MRSA/100 000 bed days	MSSA/100 000 bed days	SA/100 000 bed days
Apr 08 - Jun 08	29	23	24	47	194598	12	12	24
Jul 08 - Sep 08	30	16	26	42	211498	8	12	20
Oct 08 - Dec 08	31	15	34	49	214293	7	16	23
Jan 09 - Mar 09	32	9	37	46	212419	4	17	22
Apr 09 - Jun 09	33	12	41	53	209062	6	20	25
Jul 09 - Sep 09	34	6	34	40	200835	3	17	20
Oct 09 - Dec 09	35	16	40	56	199484	8	20	28
Jan 10 - Mar 10	36	10	36	46	207415	5	17	22
Apr 10 - Jun 10	37	13	26	39	202142	6	13	19
Jul 10 - Sep 10	38	16	30	46	202725	8	15	23
Oct 10 - Dec 10	39	9	29	38	205281	4	14	19
Jan 11 - Mar 11	40	9	36	45	206822	4	17	22
Apr 11 - Jun 11	41	5	42	47	201970	2	21	23
Jul 11 - Sep 11	42	5	29	34	199120	3	15	17

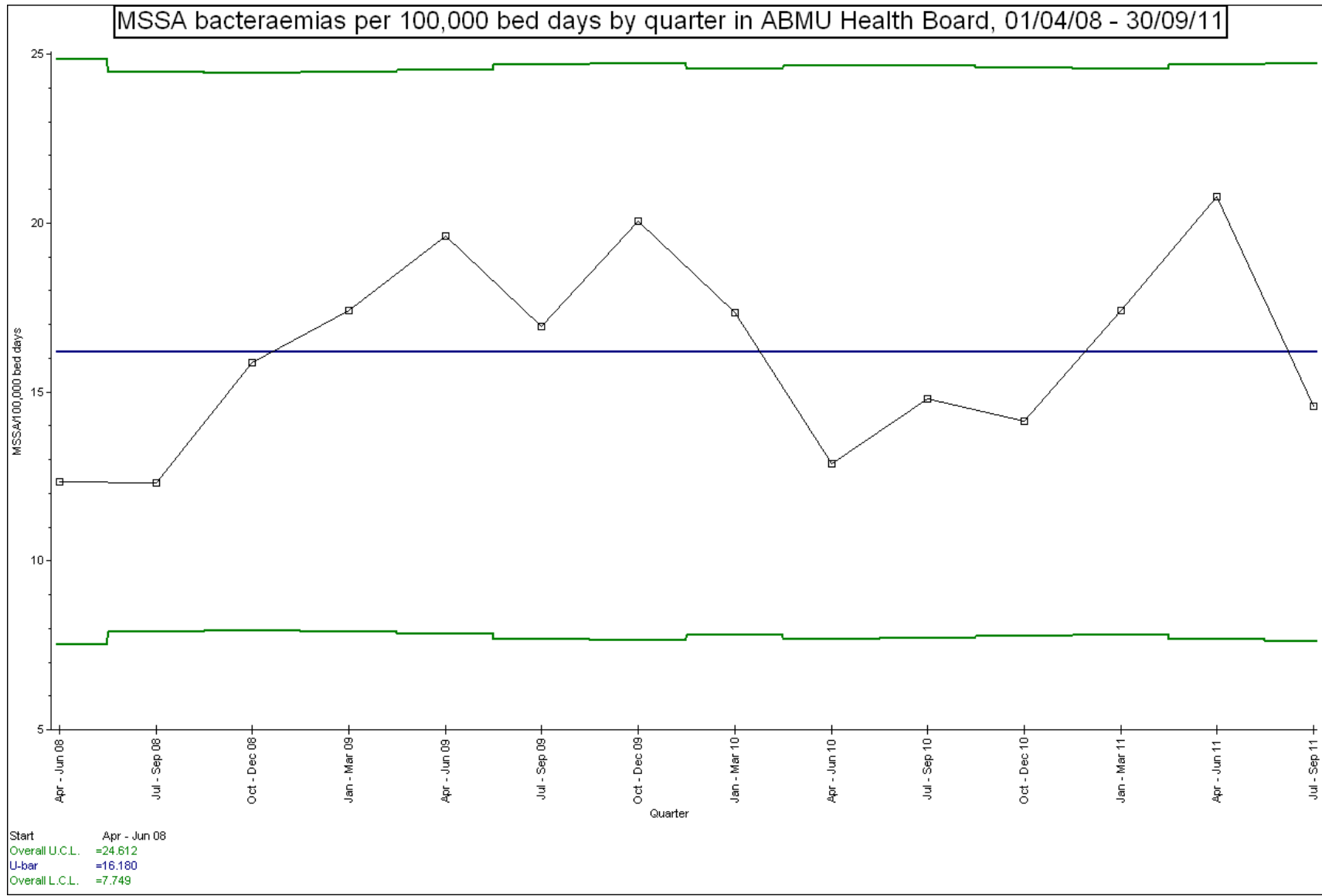
Abertawe Bro Morgannwg Unversity Health Board Statistical Process Control Charts for Rates of *S. aureus* Blood Stream Infections per 100 000 Bed Days

Data from the *Staphylococcus aureus* blood stream infection (bacteraemia) surveillance are used to produce statistical process control (SPC) charts. These compare a Health Board's rate of infection with calculated upper and lower control limits, which allow natural variation in rates to be distinguished from situations where something unusual is occurring. SPC charts are used to compare rates within a Health Board over time and between equivalent Health Boards at a given point in time. Health Boards are asked to investigate if their rates fall outside the control limits of the SPC charts. More information about the statistical analyses performed on the *Staph. aureus* data and what the results mean is provided in the section on the *Staph. aureus* Blood Stream Infections surveillance scheme.

SPC Chart for Quarterly *S. aureus* Blood Stream (Bacteraemia) Rates in Abertawe Bro Morgannwg University Health Board: 01/04/08 – 30/09/11



SPC Chart for Quarterly MSSA Blood Stream (Bacteraemia) Rates in Abertawe Bro Morgannwg University Health Board: 01/04/08 – 30/09/11



SPC Chart for Quarterly MRSA Blood Stream (Bacteraemia) Rates in Abertawe Bro Morgannwg University Health Board: 01/04/08 – 30/09/11

