

2017 Blood cultures - top 15 sites by number of cultures

Count of FPBC1 Column Labels									
facility	Bacterial-sig	CANT	Fungal isolate	Negative	total	Contam rate	Signif rate	Total positive	% contam vs total pos
~PP	11	4		285	300	1.3%	3.7%	5.0%	27%
ARM	95	47	1	1336	1485	3.2%	6.5%	9.6%	33%
BMT	285	73		3293	3653	2.0%	7.8%	9.8%	20%
CES	66	14	1	524	605	2.3%	11.1%	13.4%	17%
INV	29	19	1	367	417	4.6%	7.2%	11.8%	39%
JHH	1008	383	55	14086	15545	2.5%	6.8%	9.3%	26%
MAI	354	148	4	4604	5114	2.9%	7.0%	9.9%	29%
MBH	329	96	5	3759	4191	2.3%	8.0%	10.3%	22%
MMN	646	124	8	8045	8837	1.4%	7.4%	8.8%	16%
MUS	22	8		338	368	2.2%	6.0%	8.2%	27%
PNE	17	6		237	261	2.3%	6.5%	8.8%	26%
SCO	21	5		224	250	2.0%	8.4%	10.4%	19%
SIN	21	4		303	328	1.2%	6.4%	7.6%	16%
TAM	253	107	22	3280	3676	2.9%	7.5%	10.4%	28%
NBPC	32	10		226	268	3.7%	11.9%	15.7%	24%
total	3189	1048	97	40907	45298	2.3%	7.3%	9.6%	24%

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Forensic and QAP removed

FPBC1 gaps completed

temp mrns and priv hosp mrns removed (only a few

kempsey and coffs separated from these data

false positives low- overall rate 0.13%

top 15 account for this % of total 97%

2017 Blood cultures -Mid North Coast sites

Count of Facility	Column Labels			
Facility	Bacterial-sig	CANT	Negative	Grand Total
~DH	2	2	38	42
CHB	332	129	3763	4224
ELL	10	3	97	110
KDH	112	32	1348	1492
MCK	27	17	415	459
WDH	1	1	29	31
Grand Total	484	184	5690	6358

Contam	95% conf. intervals	
rate		
4.8%	0.0%	13.2%
3.1%	2.4%	3.7%
2.7%	0.0%	6.7%
2.1%	1.2%	3.1%
3.7%	1.4%	6.0%
3.2%	0.0%	11.4%
2.9%		

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Forensic and QAP checked-nil there
 FPBC1 gaps completed - very few gaps in fact
 No false positives recorded
 Target rate is 2-3%

Double set blood cultures, 2017, HNE District

By Facility (top 10)

Facility	Count of Facility					Total	DS or better %
	5S	DS	QS	SS	TS		
ARM	7	325	16	1092	45	1485	29.8%
BMT	7	1159	37	2330	120	3653	49.7%
CES		78	2	518	7	605	15.1%
INV		52	2	357	6	417	14.6%
JHH	74	4446	237	10048	740	15545	44.2%
MAI	22	1320	60	3486	226	5114	37.9%
MBH	16	976	53	2956	190	4191	33.0%
MMN	52	2987	182	5117	499	8837	58.4%
MUS		39		327	2	368	11.9%
TAM	14	776	38	2708	140	3676	28.7%
Total	192	12158	627	28939	1975	43891	42.0%

ED departments (top 10)

Facility	Count of Facility					Total	DS or better %
	5S	DS	QS	SS	TS		
3ED~MMN		66		141	2	209	46.8%
CAS~MUS		19		181	1	201	10.5%
ED~BMT		763	6	1710	41	2520	44.6%
ED~CES		33		266	2	301	12.4%
ED~JHH	2	1428	13	3659	92	5194	39.0%
ED~MBH		431	3	1744	14	2192	24.7%
ED~MMN	1	1544	18	2822	86	4471	54.7%
ED~NARM		26		180		206	14.4%
EMERG~MAI		722	8	2146	76	2952	33.6%
ER~SIN		22		98		120	22.4%
Grand Total	3	5054	48	12947	314	18366	39.0%

ICUs

ICU	Count of Facility					Total	DS or better %
	5S	DS	QS	SS	TS		
3ICU~MMN		62	4	128	12	206	48.4%
AICU~NARM		30	1	77	3	111	39.0%
ICU~JHH	1	112	5	294	27	439	38.1%
ICU~MBH	5	68	9	195	18	295	34.9%
TICU~TAM	3	78	6	207	27	321	37.7%
Grand Total	9	350	25	901	87	1372	38.8%

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Assumes that a culture received < 1.1 days after a first culture is part of that sepsis episode
Inclusion of ED cultures together with ICU cultures for each patient did not impact on the ICU rates above.

Additive impact of successive cultures, 2017 data, HNE LHD

	Number	Bacterial isolates	Cumulative positivity	Fungal isolates	Cumulative positivity
Single set	32591	2172	4.7%	57	0.1%
Double set	11976	112	4.9%	6	0.1%
Triple set	1403	8	4.9%	2	0.1%
Quad set	397	0	4.9%	0	0.1%
Quin set	120				
Total	46487	2292		65	
Additional yield of > SS		5.2%		12.3%	

For double set, there were an additional 830 instances where the second culture was positive (21 of these were for fungi).

Within 1 day cut off for repeat cultures.