April – June 2017

Key points

- Overall *S. aureus* (SA) rates for Northern Ireland (MRSA plus MSSA bacteraemias) decreased by approximately 20% during April – June 2017 compared to January-March 2017.

- MRSA rates decreased by approximately 24% during April – June 2017 compared to January-March 2017.
- MRSA reports during 2016/17 fell by 25% compared to 2015/16.

- MSSA rates decreased by approximately 20% during April – June 2017 compared to January-March 2017.
- MSSA reports during 2016/17 increased by 13% compared to 2015/16.

For further information or clarification on HCAI definitions, please refer to previous reports or contact hcaini@hscni.net
**S. aureus bacteraemia surveillance**

Figure 1: MSSA, MRSA and *S. aureus* rates in Northern Ireland by quarter, with 95% confidence intervals, April 2001 – June 2017 (see Appendix 3)

Figure 2: MRSA and MSSA rates per 1,000 occupied bed days, by HSCT, April – June 2017
Figure 3: MRSA quarterly rate January 2016 – June 2017, by HSCT, with 2016 HSCT MRSA rate

Figure 4: MRSA rate during April-June, by HSCT, from 2014–2017, with 95% confidence intervals
Figure 5: MSSA quarterly rate January 2016 – June 2017, by HSCT, with 2016 HSCT MSSA rate

Figure 6: MSSA rate during April - June, by HSCT, from 2014–2017, with 95% confidence intervals
Figure 7: Rates of MRSA, April - June 2017 by individual hospitals, (gaps represent zero episodes), compared to April - June 2017 average rates for Northern Ireland and HSCTs
Figure 8: Rates of MSSA, April - June 2017 by individual hospitals, (gaps represent zero episodes), compared to April - June 2017 average rates for Northern Ireland and HSCTs.
Figure 9a: Statistical process control chart for quarterly *S. aureus* rates in Northern Ireland

Figure 9b: Statistical process control chart for quarterly MRSA rates in Northern Ireland

Figure 9c: Statistical process control chart for quarterly MSSA rates in Northern Ireland
## Appendix 1

### Table 1: Quarterly rate of MRSA patient episodes, by hospital, Jul 2016 – Jun 2017

<table>
<thead>
<tr>
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<tr>
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<tr>
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### Table 2: Quarterly MRSA patient episodes, by Trust, Jul 2016 – Jun 2017

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<td>NI TOTAL</td>
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## Appendix 1

### Table 3: Quarterly rate of MSSA patient episodes, by hospital, Jul 2016 – Jun 2017

<table>
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<tr>
<th>Hospital</th>
<th>Jul-Sep 2016</th>
<th>Oct-Dec 2016</th>
<th>Jan-Mar 2017</th>
<th>Apr-Jun 2017</th>
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<td>0.185</td>
<td>0.370</td>
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<td>0.158</td>
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<td>Moyle Hospital</td>
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<td>0.235</td>
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</tr>
<tr>
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<td>0.376</td>
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<td>0.297</td>
<td>0.280</td>
<td>0.265</td>
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<tr>
<td>Altnagelven Area Hospital</td>
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<td>0.361</td>
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<td>0.321</td>
<td>0.165</td>
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<tr>
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<td>0.000</td>
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<tr>
<td>Waterside Hospital (Wards 1-3, 5)</td>
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<td>0.000</td>
<td>0.000</td>
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<td>0.240</td>
<td>0.230</td>
<td>0.185</td>
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### Table 4: Quarterly MSSA patient episodes, by Trust, Jul 2016 – Jun 2017

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<td><strong>Total</strong></td>
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Appendix 2: Trends in MRSA rates, by HSCT and quarter, 2001–2017
Appendix 2: Trends in MSSA rates, by HSCT and quarter, 2001–2017
### Appendix 3

**Table 3:** MSSA, MRSA and total *S. aureus* patient episode rates, and the percentage of *S. aureus* reported as MRSA, in Northern Ireland, Apr 2007 – Jun 2017

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<th>Quarter</th>
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<th>MRSA rate</th>
<th>All <em>S. aureus</em> rate</th>
<th>% MRSA</th>
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<td>0.183</td>
<td>0.091</td>
<td>0.274</td>
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<td>0.181</td>
<td>0.146</td>
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<td>0.187</td>
<td>0.137</td>
<td>0.324</td>
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<tr>
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<td>0.194</td>
<td>0.129</td>
<td>0.323</td>
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<td>0.184</td>
<td>0.136</td>
<td>0.320</td>
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<td>0.182</td>
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<td>13.6</td>
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<td>0.048</td>
<td>0.234</td>
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<td>0.034</td>
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<td>23.1</td>
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### Appendix 4

#### Table 4: MRSA patient episodes for each financial year, by HSCT

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#### Table 5: MSSA patient episodes for each financial year, by HSCT

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