Supplementary Table 1 – Practices pertaining to post-operative prophylaxis, MRSA/MSSA screening/decolonization, and use of vancomycin powder

|  |  |
| --- | --- |
| Question | Percentage (No./Total Responses) |
| Are antibiotics routinely administered after closure of the incision? | 91% (21/23) |
| Are antibiotics routinely administered after incision closure in the following cases |  |
| *Elective Craniotomy* | 65% (15/23) |
| *Cranial Trauma* | 61% (14/23) |
| *Elective Spinal Procedures with Instrumentation* | 78% (18/23) |
| *Elective Spinal Procedures without Instrumentation* | 48% (11/23) |
| *Spinal Trauma* | 62% (13/21)1 |
| *Peripheral Nerve* | 26% (6/23) |
| *Functional/Pain Procedures* | 57% (13/23) |
| *Adult Shunt Insertion* | 65% (15/23) |
| *Pediatric Shunt Insertion* | 79% (15/19)2 |
| *Pediatric Myelomeningocele Surgery* | 63% (12/19)2 |
| Duration of Post-Operative Antibiotics |  |
| *Less than 24 hours of antibiotics*  | 76% (16/21) |
| *More than 24 hours of antibiotics*  | 24% (5/21) |
| Is there a routine MRSA screening or decolonization protocol for surgical patients? | 43% (10/23) |
| Is there a routine MSSA screening or decolonization protocol for surgical patients? | 26% (6/23) |
| Is Vancomycin powder used in neurosurgical procedures? |  |
| *Routinely* | 13% (3/23) |
| *Surgeon/Procedure-dependent* | 30% (7/23) |

1 2 respondents indicated that they did not perform these procedures

2 4 respondents indicated that they did not perform these procedures

Supplementary Table 2 – Antibiotics used routinely per neurosurgical procedure

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Procedure | Cefazolin | Vancomycin | Cefuroxime | Cefepime | Gentamicin | Ampicillin | Ceftriaxone |
| Elective Craniotomy | 95.7% (22/23) | 26% (6/23) | 4.3% (1/23) | NA | NA | NA | NA |
| Cranial Trauma1 | 90.5% (19/21) | 23.8% (5/21) | NA | 4.3% (1/23) | NA | NA | NA |
| Elective Spinal Procedures with Instrumentation | 95.7% (22/23) | 26% (6/23) | 4.3% (1/23) | NA | 4.3% (1/23) | NA | NA |
| Elective Spinal Procedures without Instrumentation | 87% (20/23) | 13% (3/23) | 4.3% (1/23) | NA | 4.3% (1/23) | NA | NA |
| Spinal Trauma1 | 81.3% (13/16) | 18.8% (3/16) | NA | 6.3% (1/16) | 6.3% (1/16) | NA | NA |
| Peripheral Nerve | 77.2% (17/22) | 18.2% (4/22) | NA | NA | NA | NA | NA |
| Functional/Pain Procedures | 93.8% (15/16) | 12.5% (2/16) | NA | NA | NA | NA | NA |
| Adult Shunt Insertion | 91.3% (21/23) | 26.1% (6/23) | 4.3% (1/23) | NA | NA | NA | NA |
| Pediatric Shunt Insertion | 80% (12/15) | 20% (3/15) | NA | NA | NA | NA | 6.7% (1/15) |
| Pediatric Myelomeningocele Surgery2 | 15.8% (3/19) | 10.5% (2/19) | 5.3% (1/19) | NA | 10.5% (2/19) | 5.3% (1/19) | NA |

1 7 respondents indicated that they did not do these procedures

2 4 respondents indicated they did not do these procedures