

## In Vitro activity of antibiotics

✓ = *in vitro* activity (ie usually sensitive)

— = inappropriate therapy OR usually resistant

? = variable sensitivity

P = prophylaxis only

|                                 | <i>Gram positive</i> | <i>Anaerobes</i> |                       |                       |   | <i>Gram negative</i> | <i>Atypicals</i>  |                      |                         |                       |                    |                        |                       |                      |                                    |                |                      |                       |              |                      |                      |
|---------------------------------|----------------------|------------------|-----------------------|-----------------------|---|----------------------|-------------------|----------------------|-------------------------|-----------------------|--------------------|------------------------|-----------------------|----------------------|------------------------------------|----------------|----------------------|-----------------------|--------------|----------------------|----------------------|
|                                 |                      | <i>S. aureus</i> | <i>S. aureus MRSA</i> | <i>S. epidermidis</i> | <i>H. streptococci</i><br>(Strep A,C,G and Strep B) | <i>E. faecalis</i>   | <i>E. faecium</i> | <i>S. pneumoniae</i> | <i>L. monocytogenes</i> | <i>C. perfringens</i> | <i>B. fragilis</i> | <i>N. meningitidis</i> | <i>N. gonorrhoeae</i> | <i>H. influenzae</i> | <i>K. sp</i> (& other 'coliforms') | <i>E. coli</i> | <i>P. aeruginosa</i> | <i>M. catarrhalis</i> | <i>L. sp</i> | <i>M. pneumoniae</i> | <i>C. pneumoniae</i> |
| <b>Penicillins</b>              |                      |                  |                       |                       |   |                      |                   |                      |                         |                       |                    |                        |                       |                      |                                    |                |                      |                       |              |                      |                      |
| Benzylpenicillin                | —                    | —                | —                     | ✓                     | ✓   | —                    | ✓                 | ✓                    | ✓                       | ✓                     | —                  | —                      | ✓                     | ?                    | —                                  | —              | —                    | —                     | —            | —                    |                      |
| Ampicillin/<br>Amoxicillin      | —                    | —                | —                     | ✓                     | ✓   | —                    | ✓                 | ✓                    | ✓                       | ✓                     | —                  | —                      | ?                     | ?                    | ?                                  | ?              | —                    | —                     | —            | —                    |                      |
| Co-amoxiclav                    | ✓                    | —                | —                     | ✓                     | ✓   | —                    | ✓                 | —                    | ✓                       | —                     | ✓                  | —                      | ?                     | ✓                    | ✓                                  | ?              | —                    | —                     | ✓            | —                    |                      |
| Flucloxacillin                  | ✓                    | —                | ?                     | ✓                     | —   | —                    | —                 | —                    | —                       | —                     | —                  | —                      | —                     | —                    | —                                  | —              | —                    | —                     | —            | —                    |                      |
| Pip+tazobactam<br>(Tazocin®)    | ✓                    | —                | —                     | ✓                     | ✓   | —                    | ✓                 | —                    | ✓                       | —                     | ✓                  | —                      | —                     | ✓                    | ✓                                  | ✓              | ?                    | ✓                     | ✓            | —                    |                      |
| <b>Cephalosporins</b>           |                      |                  |                       |                       |   |                      |                   |                      |                         |                       |                    |                        |                       |                      |                                    |                |                      |                       |              |                      |                      |
| Cefradine                       | ✓                    | —                | ?                     | ✓                     | —   | —                    | ✓                 | —                    | —                       | —                     | —                  | —                      | —                     | ✓                    | ?                                  | —              | —                    | —                     | —            | —                    |                      |
| Cefuroxime                      | ✓                    | —                | ?                     | ✓                     | —   | —                    | ✓                 | —                    | —                       | —                     | —                  | —                      | —                     | ✓                    | ✓                                  | ✓              | —                    | —                     | ✓            | —                    |                      |
| Ceftriaxone                     | —                    | —                | —                     | ✓                     | —   | —                    | ✓                 | —                    | —                       | —                     | —                  | ✓                      | ✓                     | ✓                    | ✓                                  | ✓              | —                    | —                     | ✓            | —                    |                      |
| Ceftazidime                     | —                    | —                | —                     | —                     | —   | —                    | —                 | —                    | —                       | —                     | —                  | —                      | ✓                     | ✓                    | ✓                                  | ✓              | —                    | ✓                     | ✓            | —                    |                      |
| <b>Carbapenems</b>              |                      |                  |                       |                       |   |                      |                   |                      |                         |                       |                    |                        |                       |                      |                                    |                |                      |                       |              |                      |                      |
| Meropenem/<br>Imipenem          | ✓                    | —                | —                     | ✓                     | ✓   | —                    | ✓                 | ✓                    | ✓                       | ✓                     | —                  | ✓                      | ✓                     | ✓                    | ✓                                  | ✓              | ✓                    | ✓                     | ✓            | —                    |                      |
| <b>Macrolides/ Lincosamides</b> |                      |                  |                       |                       |   |                      |                   |                      |                         |                       |                    |                        |                       |                      |                                    |                |                      |                       |              |                      |                      |
| Erythromycin                    | ✓                    | ?                | —                     | ✓                     | —   | —                    | ✓                 | —                    | —                       | —                     | —                  | —                      | —                     | —                    | —                                  | —              | —                    | —                     | ✓            | ✓                    |                      |
| Clarithromycin                  | ✓                    | ?                | —                     | ✓                     | —   | —                    | ✓                 | —                    | —                       | —                     | —                  | —                      | —                     | —                    | —                                  | —              | —                    | —                     | ✓            | ✓                    |                      |
| Clindamycin                     | ✓                    | ?                | ?                     | ✓                     | —   | —                    | —                 | —                    | ✓                       | —                     | ✓                  | —                      | —                     | —                    | —                                  | —              | —                    | —                     | —            | —                    |                      |
| <b>Aminoglycosides</b>          |                      |                  |                       |                       |   |                      |                   |                      |                         |                       |                    |                        |                       |                      |                                    |                |                      |                       |              |                      |                      |
| Gentamicin                      | ✓                    | ✓                | ?                     | —                     | —   | —                    | —                 | —                    | —                       | —                     | —                  | —                      | ✓                     | ✓                    | ?                                  | ✓              | ✓                    | ✓                     | —            | —                    |                      |
| <b>Diaminopyrimidines</b>       |                      |                  |                       |                       |   |                      |                   |                      |                         |                       |                    |                        |                       |                      |                                    |                |                      |                       |              |                      |                      |
| Trimethoprim                    | ?                    | ?                | —                     | —                     | ?   | ?                    | —                 | —                    | —                       | —                     | —                  | —                      | ?                     | ✓                    | ✓                                  | —              | —                    | —                     | —            | —                    |                      |
| <b>Quinolones</b>               |                      |                  |                       |                       |   |                      |                   |                      |                         |                       |                    |                        |                       |                      |                                    |                |                      |                       |              |                      |                      |
| Ciprofloxacin                   | ✓                    | —                | —                     | —                     | —   | —                    | —                 | —                    | —                       | —                     | —                  | —                      | ✓P                    | ?                    | ✓                                  | ✓              | ✓                    | ?                     | ✓            | ✓                    |                      |
| Levofloxacin                    | ✓                    | —                | —                     | —                     | —   | —                    | ✓                 | —                    | —                       | —                     | —                  | —                      | ?                     | ✓                    | ✓                                  | ✓              | ?                    | ✓                     | ✓            | ✓                    |                      |
| <b>Glycopeptides</b>            |                      |                  |                       |                       |   |                      |                   |                      |                         |                       |                    |                        |                       |                      |                                    |                |                      |                       |              |                      |                      |
| Vancomycin IV                   | ✓                    | ✓                | ✓                     | ✓                     | ✓   | ✓                    | ✓                 | ✓                    | ✓                       | ✓                     | ✓                  | ✓                      | —                     | —                    | —                                  | —              | —                    | —                     | —            | —                    |                      |
| Teicoplanin                     | ✓                    | ✓                | ✓                     | ✓                     | ✓   | ✓                    | ✓                 | ✓                    | ✓                       | ✓                     | ✓                  | ✓                      | —                     | —                    | —                                  | —              | —                    | —                     | —            | —                    |                      |
| Vancomycin PO                   | —                    | —                | —                     | —                     | —   | —                    | —                 | —                    | —                       | —                     | ✓                  | —                      | —                     | —                    | —                                  | —              | —                    | —                     | —            | —                    |                      |
| <b>Nitroimidazoles</b>          |                      |                  |                       |                       |   |                      |                   |                      |                         |                       |                    |                        |                       |                      |                                    |                |                      |                       |              |                      |                      |
| Metronidazole                   | —                    | —                | —                     | —                     | —   | —                    | —                 | —                    | ✓                       | ✓                     | ✓                  | ✓                      | —                     | —                    | —                                  | —              | —                    | —                     | —            | —                    |                      |
| <b>Oxazolidinones</b>           |                      |                  |                       |                       |   |                      |                   |                      |                         |                       |                    |                        |                       |                      |                                    |                |                      |                       |              |                      |                      |
| Linezolid                       | ✓                    | ✓                | ✓                     | ✓                     | ✓   | ✓                    | ✓                 | ✓                    | ✓                       | ✓                     | ✓                  | ✓                      | —                     | —                    | —                                  | —              | —                    | —                     | —            | —                    |                      |
| <b>Tetracyclines</b>            |                      |                  |                       |                       |   |                      |                   |                      |                         |                       |                    |                        |                       |                      |                                    |                |                      |                       |              |                      |                      |
| Doxycycline                     | ✓                    | ✓                | ?                     | ?                     | ?   | ?                    | ?                 | ✓                    | —                       | —                     | —                  | —                      | —                     | ?                    | ✓                                  | —              | —                    | —                     | ✓            | ✓                    |                      |