**Supplementary Table 1: Pre-Set Criteria for Penicillin AR Categorisation – Allergy versus Intolerance**

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| **Categorisation** | **Criteria** | **Examples** |
| Allergy | Reaction descriptions consistent with a possible immune-mediated mechanism | Anaphylaxis  Angioedema  Bronchoconstriction  Urticaria  Rash |
| Intolerance | Reaction descriptions consistent with an non-immunological mechanism | Nausea  Vomiting  Headache |
| Unclassifiable | Unable to make a determination | Unknown reaction  No reaction type documented |