**Supplementary Table 1. Study Definitions**

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| **Terminology** | **Definition** |
| Antimicrobial stewardship clinician or staff | A person with ongoing staffing hours dedicated to ASP. Includes those with part time ASP staffing hours. |
| Antimicrobial stewardship monitoring rule | Complex logic incorporating medications and order elements, laboratory values, and microbiology, etc., to identify elements of antimicrobial therapy for optimization |
| Antimicrobial stewardship monitoring tool | A longstanding, homegrown patient flagging system functioning within the EHR. It generates a provider-facing patient list based on a series of clinical monitoring rules to direct prospective audit and feedback activities. |
| Asynchronous communication | Electronic clinician to clinician (or clinician team) communication using inbasket message within the EHR or made via an email. |
| Change made by the intervener | Direct action undertaken by the intervening clinician to medication or laboratory orders. |
| Completed outcome | Intervention was documented as accepted or rejected. |
| Direct communication | Verbal/phone interactions and real-time electronic ‘chat’ communications. |
| Undetermined outcome | Intervention was documented as “awaiting provider response” so outcome of intervention is unknown. |
| Clinician | Any member of the multidisciplinary healthcare team, including physicians, advance practice providers, or pharmacists and their professional learners, participating in antimicrobial stewardship activities. |

**ASP = Antimicrobial Stewardship Program, EHR = electronic health record**