**Appendix A – Supplementary Table**

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| **Table S1**. Comparison of the Prevalence of Rectal Carriage of Extended-Spectrum Beta-Lactamase-Producing Enterobacteriaceae (ESBL-E) at Hospital Admission and at Hospital Discharge across Studies. |
|  |  |  |  |  |  |  |  | Prevalence at admission |  | Prevalence at discharge |
| Study | Country | Setting | Year | Specimen | Pre-enrichment | ESBL screening agar | ESBL confirmation | % | 95% CI |  | % | 95% CI |
| SoM study, pragmatic approacha | The Netherlands | University hospital (n=6)Non-university hospital (n=8) | 2011-2014 | Perianal swab | Yes | Yes | Phenotypic | 7.4 | [5.5–9.9]c |  | 10.1 | [7.1–15.0]c |
| R-GNOSIS study, pragmatic approacha | The Netherlands | University hospital | 2014-2015 | Perianal swab | No | Yes | Phenotypic | 6.4 | [5.3–7.8] |  | 8.7 | [6.8–11.0] |
| R-GNOSIS study, MCMC model | The Netherlands | University hospital | 2014-2015 | Perianal swab | No | Yes | Phenotypic | 7.0 | [6.2–7.8]c |  | 9.3 | [8.6–10.0]c |
| Esposito et al.1 | Italy | University hospital | 2001 | Rectal swab | No | No | Phenotypic | 4.8 | [2.9–7.8] |  | - | - |
| Ben-Ami et al.2 | Israel | University hospital | 2002-2003 | Feces | Yes | Yes | Genotypic | 10.8 | [7.4–15.4] |  | - | - |
| Ruppé et al.3 | France | University hospital | 2007 | Rectal swab | Yes | Yes | Genotypic | 6.6 | [4.7–9.2] |  | - | - |
| Schoevaerdts et al.4 | Belgium | University hospital | 2010 | Rectal swab | No | Yes | Genotypic | 11.6 | [8.6–15.5] |  | 12.4 | [9.0–16.8] |
| Pasricha et al.5 | Switzerland | University hospital | 2010 | Rectal swab | No | Yes | Phenotypic | 4.8 | [3.6–6.2] |  | 7.2 | [5.2–9.9] |
| Shitrit et al.6 | Israel | Non-university hospital | 2011 | Rectal swab | Yes | Yes | Phenotypic | 10.7 | [8.3–13.6] |  | - | - |
| Platteel et al.7 b | The Netherlands | University hospital (n=1)Non-university hospital (n=3) | 2010-2012 | Perianal swab | No | Yes | Genotypic | 8.2 | [6.9–9.8] |  | - | - |
| Willemsen et al.8 | The Netherlands | Non-university hospital | 2010-2014 | Rectal swab | Yes | Yes | Genotypic | 4.2 | [3.3–5.4] |  | - | - |
| Huizinga et al.9 | The Netherlands | Non-university hospital | 2014-2015 | Rectal swab | Yes | Yes | Genotypic | 5.4 | [3.8–7.6] |  | ‘ | - |
| CI, confidence interval; ESBL, extended-spectrum beta-lactamase; MCMC, Markov chain Monte Carlo.aPatients with a length of hospital stay of more than two days.bPatients with an expected length of hospital stay of more than two days.c95% credible interval.  |

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