

Author(s):  
 Question: Probiotics supplementation compared to Standard for Critically ill patients  
 Setting: ICU  
 Bibliography:

| Certainty assessment |                   |              |               |              |              |                      | № of patients    |                  | Effect                 |                                                   | Certainty     | Importance |
|----------------------|-------------------|--------------|---------------|--------------|--------------|----------------------|------------------|------------------|------------------------|---------------------------------------------------|---------------|------------|
| № of studies         | Study design      | Risk of bias | Inconsistency | Indirectness | Imprecision  | Other considerations | Probiotics       | Standard         | Relative (95% CI)      | Absolute (95% CI)                                 |               |            |
| ICU mortality        |                   |              |               |              |              |                      |                  |                  |                        |                                                   |               |            |
| 6                    | randomised trials | not serious  | not serious   | serious      | not serious  | none                 | 320/1654 (19.3%) | 334/1677 (19.9%) | RR 0.97 (0.81 to 1.15) | 6 fewer per 1,000 (from 30 fewer to 22 more)      | ⊕⊕⊕○ Moderate | CRITICAL   |
| 28/30d mortality     |                   |              |               |              |              |                      |                  |                  |                        |                                                   |               |            |
| 2                    | randomised trials | not serious  | not serious   | serious      | very serious | none                 | 25/146 (17.1%)   | 21/133 (15.8%)   | RR 1.09 (0.65 to 1.82) | 14 more per 1,000 (from 55 fewer to 129 more)     | ⊕○○○ Very Low | CRITICAL   |
| Infection            |                   |              |               |              |              |                      |                  |                  |                        |                                                   |               |            |
| 3                    | randomised trials | not serious  | not serious   | serious      | not serious  | none                 | 452/1515 (29.8%) | 453/1520 (29.8%) | RR 1.00 (0.90 to 1.12) | 0 more per 1,000 (from 30 fewer to 36 more)       | ⊕⊕⊕○ Moderate | IMPORTANT  |
| Pneumonia/VAP        |                   |              |               |              |              |                      |                  |                  |                        |                                                   |               |            |
| 14                   | randomised trials | serious      | serious       | serious      | not serious  | none                 | 468/2082 (22.5%) | 570/2097 (27.2%) | RR 0.83 (0.75 to 0.92) | 46 fewer per 1,000 (from 22 fewer to 68 fewer)    | ⊕○○○ Very Low | IMPORTANT  |
| Diarrhea             |                   |              |               |              |              |                      |                  |                  |                        |                                                   |               |            |
| 8                    | randomised trials | not serious  | not serious   | serious      | not serious  | none                 | 978/1700 (57.5%) | 996/1712 (58.2%) | RR 1.00 (0.95 to 1.05) | 0 more per 1,000 (from 29 fewer to 29 more)       | ⊕⊕⊕○ Moderate | IMPORTANT  |
| Constipation         |                   |              |               |              |              |                      |                  |                  |                        |                                                   |               |            |
| 4                    | randomised trials | serious      | not serious   | serious      | serious      | none                 | 10/158 (6.3%)    | 48/148 (32.4%)   | RR 0.23 (0.12 to 0.41) | 250 fewer per 1,000 (from 191 fewer to 285 fewer) | ⊕○○○ Very Low | IMPORTANT  |
| ICU LOS              |                   |              |               |              |              |                      |                  |                  |                        |                                                   |               |            |
| 10                   | randomised trials | serious      | serious       | serious      | not serious  | none                 | 626              | 632              |                        | MD 1.23 lower (1.59 lower to 0.87 lower)          | ⊕○○○ Very Low | IMPORTANT  |

CI, confidence interval; MD, mean difference; RR, risk ratio  
 ICU, intensive care unit; LOS, Length of stay; VAP, ventilator associated pneumonia; LOS, length of stay.

**Supplement Fig. 22.** GRADE Summary of Findings generated using GRADEpro GDT for probiotics supplementation in critically ill adults (KQ13).