***Supplemental Digital Content 1: Definitions of infections***

*Wound*

Wounds were considered likely to be infected when pus was expressed from the incision or aspirated from a loculated mass within the wound. Purulent exudates were cultured and, when positive for pathogenic bacteria, appropriate antibiotic treatment was initiated.

*Intraabdominal*

Radiological or surgical evidence of infection.

*Respiratory*

New or progressive infiltrates in the chest X-ray and a CPIS ≥ 6 (table)

|  |  |  |  |
| --- | --- | --- | --- |
|  | 0 | 1 | 2 |
| Tracheal secretions | Rare | Copious | Purulent |
| Chest infiltrates | None | Diffuse | Localized |
| Fever | ≥ 36.5 and ≤ 38.4ºC | > 38.4 and ≤ 38.9ºC | > 38.9 or < 36ºC |
| White blood cells | ≥ 4000 and ≤ 11000 | < 4000 or > 11000 | < 4000 or > 11000 and ≥ 500 immature cells |
| PaO2/FiO2 | ≥ 240 or ARDS |  | < 240 and ARDS excluded |
| Microbiology | Negative |  | Positive |

#  Table: CPIS

*Urinary*

Signs and symptoms suggestive of urinary tract infection: fever > 38ºC, dysuria, piuria, hematuria, positive culture (> 103 cfu/mL).

*Catheter*

At least one positive blood culture and one of the following:

# Positive culture from the catheter: > 14 cfu for the same microorganism isolated in blood.

* Positive culture from the insertion site of the catheterfor the same microorganism isolated in blood.

***Suplemental Digital Content 2****.* Data obtained from studies (reference) in high-risk surgical patients. Comparison between goal-directed therapy (GDT) versus control patients. Hospital length of stay is expressed as median (interquartile range). References in brackets.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Hospital length of stay (days, GDT vs control) | Complications (% ) | n |
| Lopes (10) | 7 (6-8) vs 16 (7.5-20) | 41 vs 75 | 33 |
| Benes (15) | 9 (8-12) vs 10 (8-19) | 30 vs 58 | 105 |
| Mayer (17) | 15 (12-18) vs 19 (14-23.5) | 20 vs 50 | 60 |
| Pearse (18) | 11 (7-15) vs 14 (11-27) | 44 vs 68 | 122 |
| Lobo (19)  |  | 31 vs 67 | 35 |
| Lobo (20) | 20 (14.5-32) vs 14 (8.5-18.5) | 56 vs 68 | 50 |