

Appendix B: Clinical, Quality, Safety, Operational, and Financial Patient Outcome Variables

Clinical Variables – Hospital Acquired Condition (HAC) Codes

1. Foreign object retained after surgery
2. Air embolism
3. Blood incompatibility
4. Stage III and IV pressure ulcers
5. Falls and trauma
6. Manifestations of poor glycemic control
7. Catheter-associated urinary tract infection
8. Vascular catheter-associated infection
9. Surgical site infection
10. Deep vein thrombosis or pulmonary embolism

Patient Quality and Safety Indicator Variables

1. All-cause mortality at 28 day, 60 day, and 1 year postoperatively
2. Death in low-mortality DRGs
3. Death among surgical inpatients with serious treatable complications (“failure-to-rescue”)
4. Unplanned postoperative intubation
5. Iatrogenic pneumothorax
6. Prolonged mechanical ventilation (>48 hour)
7. Postoperative pneumonia
8. Postoperative SSI (including deep-wound or organ-space infection)
9. Selected infections due to medical care: CLABSI; CAUTI; HAP; VAP

10. Postoperative hip fracture
11. Postoperative hemorrhage or hematoma
12. Postoperative physiologic and metabolic derangements
13. Postoperative respiratory failure
14. Postoperative deep vein thrombosis or pulmonary embolism
15. Postoperative stroke
16. Postoperative acute renal failure
17. Postoperative myocardial infarction
18. Postoperative sepsis and septic shock
19. Postoperative abdominal wound dehiscence (including fascial dehiscence)
20. Decubitus pressure ulcer
21. Blood transfusion (intraoperative or postoperative)
22. Blood transfusion reaction
23. Percent of surgery patients on β -blocker therapy before arrival who received a β -blocker during the perioperative period
24. Percent of surgery patients who had the urinary catheter removed on postoperative day 1 or postoperative day 2 (day of surgery being day 0)
25. Percent of surgery patients who receive an appropriate blood clot preventive therapy within 24 hour before the surgical incision time to 24 hour after the surgery end time

Operational Variables

1. Day of surgery on-time starts
2. Day of surgery anesthesia-related delays

3. Day of surgery cancellations
4. Observed hospital length of stay
5. ICU admission rate
6. ICU readmission rate
7. ICU days
8. 30 day all cause readmission
9. 30 day surgery procedure-related cause readmission

Financial Variables

1. Total direct medical cost in US\$
2. Direct surgery cost in US\$ for all hip patients
3. Direct non-surgery cost in US\$ for all hip patients
4. Direct surgery cost in US\$ for all knee patients
5. Direct non-surgery cost in US\$ for all knee patients