# Supplemental\_Figure\_1



Time for preoperative assessment for screening iron deficiency before surgery

# Supplemental\_Figure\_2



Number of iron deficient anaemic patients receiving iron supplementation before surgery. 91 patients received intravenous iron supplementation 1 days before surgery. Of these, 43 patients underwent cardiac thoracic surgery, 30 vascular surgery, 16 visceral surgery, and 2 urology

# Supplemental\_Figure\_3



Delta hemoglobin (Hb) g/dl depended on time of iron supplementation before surgery

# Supplemental\_Figure\_4



Results of linear regression analysis to assess predictors for haemoglobin increase

# Supplemental\_Figure\_5



Preoperative hemoglobin (Hb) g/dl decrease. A- (no anemia); A-,ID+,T+ (no anemia, iron-deficient, iron supplementation); A+ (anemia); and A+,ID+,T+ (anemia, iron-deficient, iron supplementation)

Supplemental\_Figure\_6



Results of linear regression analysis to assess predictors for haemoglobin decrease

Supplemental\_Figure\_7



Perioperative utilization of red blood cell (RBC) units. A+,ID+,T- (anaemia, iron-deficient, NO iron supplementation), A+,ID+,T+ (anaemia, iron-deficient, iron supplementation 6 days before surgery). Intra=intraoperative, Post=postoperative. \*Statistically significant. RBC utilization postoperative A+,ID+,T- versus A+,ID+,T+ (p=0.04) and intraoperative A+,ID+,T- versus A+,ID+,T+ (p=0.01)

# Supplemental\_Figure\_8



Hospital length of stay. \*Statistic significant. A- versus A+ (p<0.001) and A- versus A+,ID+,T+ (p<0.001)

Supplemental\_Figure\_9



Results of linear regression analysis to assess predictors for prolonged hospital stay.

Supplemental\_Figure\_10



Results of linear regression analysis to assess predictors for delayed mobility.

# Supplemental\_Table\_1 Hemoglobin increase depending on time of iron supplementation

|  |  |  |  |
| --- | --- | --- | --- |
|  | **days 1-5****(g/dl)** | **days 6-10****(g/dl)** | **days >10****(g/dl)** |
| mild | 0 (-0.2; 0.0) | 0.1 (-0.3; 0.4) | -0.1 (-0.3; 0.9) |
| moderate | 0 (0.0; 0.0) | 0.1 (-0.1; 0.3) | 0.2 (-0.1; 1) |
| severe | 0 (-0.1; 0.1) | 0.6 (0.4; 1.2) | 1.2 (0.7; 1.6) |

# Supplemental\_Table\_2 Amount of iron deficient anaemic responders depending on time of iron supplementation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Days 1-5** | **Days 6-10** | **Days >10** | **All days** |
| 0.1-0.5 g/dl | 38% | 53% | 40% | 42% |
| >0.5 g/dl | 62% | 47% | 60% | 58% |