Periinterventional Outcome Study in the Elderly (POSE)

I. Baseline assessment (Visit 1)

Age ___________ years [80-120]  Gender □M □F  ASA □I □II □III □IV □V
Height ___________ cm [120-230]  Weight ___________ kg [30-250]

Referring facility [single best answer]
□Home  □Other hospital  □Rehabilitation  □Nursing home
□other, if other please specify: __________________________________________

Planned kind of procedure [single best answer]
Inpatient intervention □Y □N  Outpatient intervention □Y □N

Medical history: [single best answer]

Functional status [within 30 days before assessment]:
□ Independent [patient does not require assistance from another person for activities of daily living]
□ Partially dependent [The patient requires some assistance from another person]
□ Totally dependent [The patient requires total assistance for all activities of daily living]

□Y □N Emergency case
□Y □N Current steroid use for chronic condition
□Y □N Ascites within 30 days prior to intervention

Systemic Sepsis within 48 hours before intervention: □SIRS □Sepsis □Septic shock
□Y □N Ventilator depended within 48h before intervention: [excludes CPAP for sleep apnoea]
□Y □N Disseminated cancer: [includes ALL,AML,Lymphoma °IV; excludes CLL,CML,Lymphoma I-III°]

Diabetes □N □Oral □Insulin □Diet
□Y □N Hypertension requiring medication: [<30d prior surgery]
□Y □N Congestive Heart Failure: [<30d prior surgery, acute or chronic + symptoms]

Dyspnoea: □N □with moderate exertion □at rest [<30d prior surgery]
□Y □N Current smoker: [<1yrs prior surgery; excluding pipes, cigars, chewing tobacco]

Alcohol: number of units per week ________ [1 unit = 0.25l beer, 0.1l wine, 0.02l shot]

□Y □N History of severe COPD: [functional disability or chronic bronchodilator therapy or past hospitalization or FEV1 of <75%]

□Y □N Dialysis

□Y □N Acute renal failure: [1.Increased BUN on two measurements AND two creatinine results > 3mg/dl

OR 2. Surgeon or physician has documented Acute Renal Failure AND one of the following: Increased BUN on two measurements OR two Cr results > 3mg/dl]
Risk assessment [tick all that apply]

- Ischemic heart disease
- Chronic heart failure or cardiomyopathy
- Hemiplegia
- Chronic respiratory failure
- Cancer
- Dementia
- Mild cognitive impairment
- Chronic renal failure
- Cardiac arrhythmia or heart blocks
- Peripheral vascular disease
- COPD
- Chronic alcohol abuse
- Transplanted organ(s)
- Cerebrovascular disease
- Other cognitive complaints

Most recent (within 1 month) pre-interventional blood results [optional, only if done in the clinical routine]:

- Haemoglobin [Y/N] value: ____________ Unit: [g/dL] [0.1-20.0] [mmol/L] [0.5-14]
- Haematocrit [Y/N] value: ____________ Unit: [none] [0.1-0.99] [%] [1.0-99.00]
- Creatinine [Y/N] value: ____________ Unit: [mg/dL] [0.1-20.0] [µmol/L] [1-999]
- Albumin [Y/N] value: ____________ Unit: [g/dL] [0.5-20.0] [g/L] [1-999]

Chronic medication [until at least 7 days before intervention]: [tick all that apply]

- Anticoagulants [Y/N]
- Antiplatelet therapy [Y/N]
- Beta blockers [Y/N]
- ACE inhibitor / AT II-Receptor blocker [Y/N]
- Antidepressants [Y/N]
- Neuroleptics [Y/N]
- Benzodiazepines [Y/N]
- Z-drugs [e.g. Zolpidem, Zopiclone, Zaleplon] [Y/N]

Frailty Assessments:

1. History of falls during the last 6 months: [none] [1 time] [>1 time]
2. Unintentional weight loss of ≥4.5 kg in the last year [Y/N]
3. Mini Cog: Correct number of recalled words [0-3]
   - Clock draw points [0 or 2]
   - Total points [0-5]
3. Timed up and go test [_____] seconds [Patient cannot perform this at the moment]
II. Surgery day (Visit 2)

Anaesthesia induction date: [__] - [__] - [2017] [>=01-Apr-2017]
Anaesthesia induction time: [__]:[__] hh:mm [0-999]

Premedication before surgery:  
- none
- Clonidine
- Benzodiazepine

Anaesthesia technique [tick all that apply]
- General
- Spinal
- Epidural
- Other regional
- Sedation/ local

If general anaesthesia: Main anaesthetic for maintenance:
- Desflurane
- Isoflurane
- Sevoflurane
- Propofol
- other

If general anaesthesia: Main opioid for maintenance:
- Alfentanil
- Fentanyl
- Morphine
- Piritramide
- Remifentanil
- Sufentanil
- other

Advanced intraoperative Monitoring [tick all that apply]
- BIS
- NIRS
- Invasive RR
- CVP
- TEE
- Pulmonary artery catheter
- Cardiac output via arterial waveform analysis
- other

Surgical procedure exact name:

Surgical category: [single best answer]

- Endoscopic digestive
- Other orthopaedic
- Ear, nose and throat (ENT)
- Major urologic
- Minor gastrointestinal
- Orthopaedic trauma
- Neuro
- Interventional neuroradiology
- Multiple trauma related
- Ophthalmologic
- Interv.cardioelectrophysiology
- Interv.cardiology [e.g. TAVI]
- Minor urologic
- Others surgery
- Renal transplant
- Major hepatic
- Major vascular
- Cardiac
- Gynaecologic
- Arthroplasty and spine
- Plastic
- Minor hepatic
- Thoracic
- Major gastrointestinal
- Transplant

Severity of surgery*

Urgency of surgery*

Surgical wound classification*

Data entry staff use only
POSE patient Identifier:  
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Laparoscopic surgery □ Y □ N  Cancer surgery □ Y □ N
On-pump cardiac surgery □ Y □ N

Immediately at the end of surgery:
Extubation □ Y □ N  not applicable [e.g. patient was not intubated]
Admission to ICU □ Y □ N [including intermediate care]  If Yes, planned admission? □ Y □ N
Admission to a unit with "geriatric support" (e.g. geriatric units, geriatric co-management models, geriatric liaison services) □ Y □ N

Transfusion:
Intraoperative transfusion of packed red blood cells: □ Y □ N  if yes amount: [______] [n]
Intraoperative transfusion of fresh frozen plasma: □ Y □ N  if yes amount: [______] [n]
Intraoperative transfusion of platelets: □ Y □ N  if yes amount: [______] [n]

WHO-surgical checklist used? □ Y □ N

End of anaesthesia date: 1_0_1_0_1_7  [>=01-Apr-2017]
End of anaesthesia time: 2_3_9 [23:59]

* Definitions:
Severity of surgery
Minor  e.g. skin-lesions or small skin tumours, biopsies, draining breast abscess, brief diagnostic and therapeutic procedures like arthroscopy without intervention
Intermediate  Primary repair of inguinal hernia, excising varicose veins in the leg, tonsillectomy or adenotonsillectomy, knee arthroscopy, cataract surgery, vulvectomy, minimally invasive repair of vaginal prolapse, vaginal hysterectomy, tendon repair of hand etc.
Major  Total abdominal hysterectomy, endoscopic resection of prostate, lumbar discectomy, thyroidectomy, total joint replacement, lung operations, colon resection, radical neck dissection etc.

Urgency of surgery/ non-surgical intervention
Elective  Intervention that is scheduled in advance because it does not involve a medical emergency
Urgent  Intervention required within < 48 hrs
Emergency  Non-elective intervention performed when the patient's life or well-being is in direct jeopardy

Surgical wound classification
Clean  Elective, not emergency, non-traumatic, primarily closed; no acute inflammation; no break in technique; respiratory, gastrointestinal, biliary and genitourinary tracts not entered.
Clean-contaminated  Urgent or emergency case that is otherwise clean; elective opening of respiratory, gastrointestinal, biliary or genitourinary tract with minimal spillage (e.g. appendectomy) not encountering infected urine or bile; minor technique break.
Contaminated  Non-purulent inflammation; gross spillage from gastrointestinal tract; entry into biliary or genitourinary tract in the presence of infected bile or urine; major break in technique; penetrating trauma < 4 hours old; chronic open wounds to be grafted or covered.
Dirty  Purulent inflammation (e.g. abscess); preoperative perforation of respiratory, gastrointestinal, biliary or genitourinary tract; penetrating trauma > 4 hours old.
III. Follow-up on POD 30 (Visit 3)

Date of Follow-up: ________________________ 

Patient status on postoperative day 30:

☐ Discharged before day 30

If yes:

Discharge date: ________________________

Discharge destination: [single best answer]

☐ In hospital death

If dead: Was cardiopulmonary resuscitation performed? Y ☐ N

Date of death: ________________________

☐ Other hospital

☐ Rehabilitation

☐ Nursing home

☐ Home

☐ Other, please specify __________

☐ Still in hospital at day 30

Hospital length of stay after intervention: __________ [≤ 31 days] [including day of surgery, excluding discharge day]

Total ICU length of stay after intervention: __________ [≤ 31 days] [including day of ICU admission, excluding discharge day from ICU]

Unplanned ICU admission at any time after intervention until day 30? Y ☐ N

Admission to a unit with "geriatric support" at any time-point until day 30? Y ☐ N

[ex. geriatric units, geriatric co-management models, geriatric liaison services]

In hospital outcome according to the ACS NSQIP® [tick all that apply]

☐ Cardiac arrest

☐ DVT (deep vein thrombosis)

☐ Myocardial infarction

☐ Venous thromboembolism/ blood clot (requiring therapy)

☐ Pneumonia

☐ Superficial incisional SSI (surgical site infection)

☐ Pulmonary embolism

☐ Deep incisional SSI

☐ Unplanned intubation

☐ Organ space SSI

☐ Ventilator >48h

☐ Wound disruption

☐ Return to the operating room

☐ Systemic sepsis

☐ Stroke

☐ Urinary tract infection

☐ Renal failure (creatinine of >2mg/dl from preoperative value or new dialysis)

☐ Discharge to post-acute care (other hospital, nursing/ rehab facility)

Actual functional status: ☐ independent ☐ partially dependent ☐ totally dependent

Brief screen for cognitive impairment: Correct number of recalled words: __________ [0-3]
Additional Telephone follow-up on day 30 (if the patient was discharged before)

Patient status on day 30

☐ Alive
☐ Dead, If yes, date of death: __d__ __d__ - __m__ __m__ - __2__ __0__ __1__ __7__
☐ Follow-up not performed/ not available

If follow up is NOT available, specify reason: [single best answer]

☐ Patient’s will
☐ Other, please specify: ____________________________________________

Any complications after hospital discharge: [only present if they led to hospital re-admission or death, or additionally in case of kidney injury, if it led to renal replacement therapy]

Cardiac (Cardiac arrest, myocardial infarction) ☐ Y ☐ N
Pulmonary (Pneumonia, pulmonary embolism) ☐ Y ☐ N
Stroke ☐ Y ☐ N
Acute kidney injury ☐ Y ☐ N

Actual functional status:

☐ Independent [patient does not require assistance from another person for activities of daily living]
☐ Partially dependent [The patient requires some assistance from another person]
☐ Totally dependent [The patient requires total assistance for all activities of daily living]

Brief screen for cognitive impairment: Correct number of recalled words [0-3]