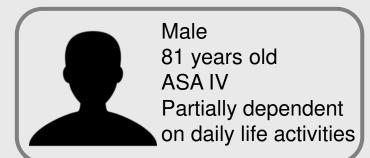
HEMODIALYSIS BEFORE URGENT SURGERY IN A PATIENT TREATED WITH DABIGATRAN - A CASE REPORT

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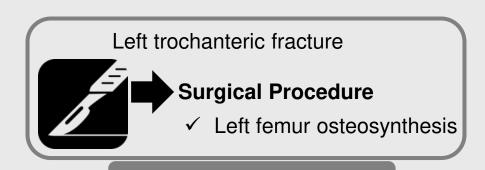
BACKGROUND

Dabigatran is a reversable direct thrombin inhibitor with 80% renal excretion. Fast reversal of anticoagulants' activity may be necessary to urgent surgical procedures and mandatory for neuroaxial anesthesic approach. Hemodialysis should be considered in Dabigatran anticoagulated patients with severe renal failure who require urgent surgery.

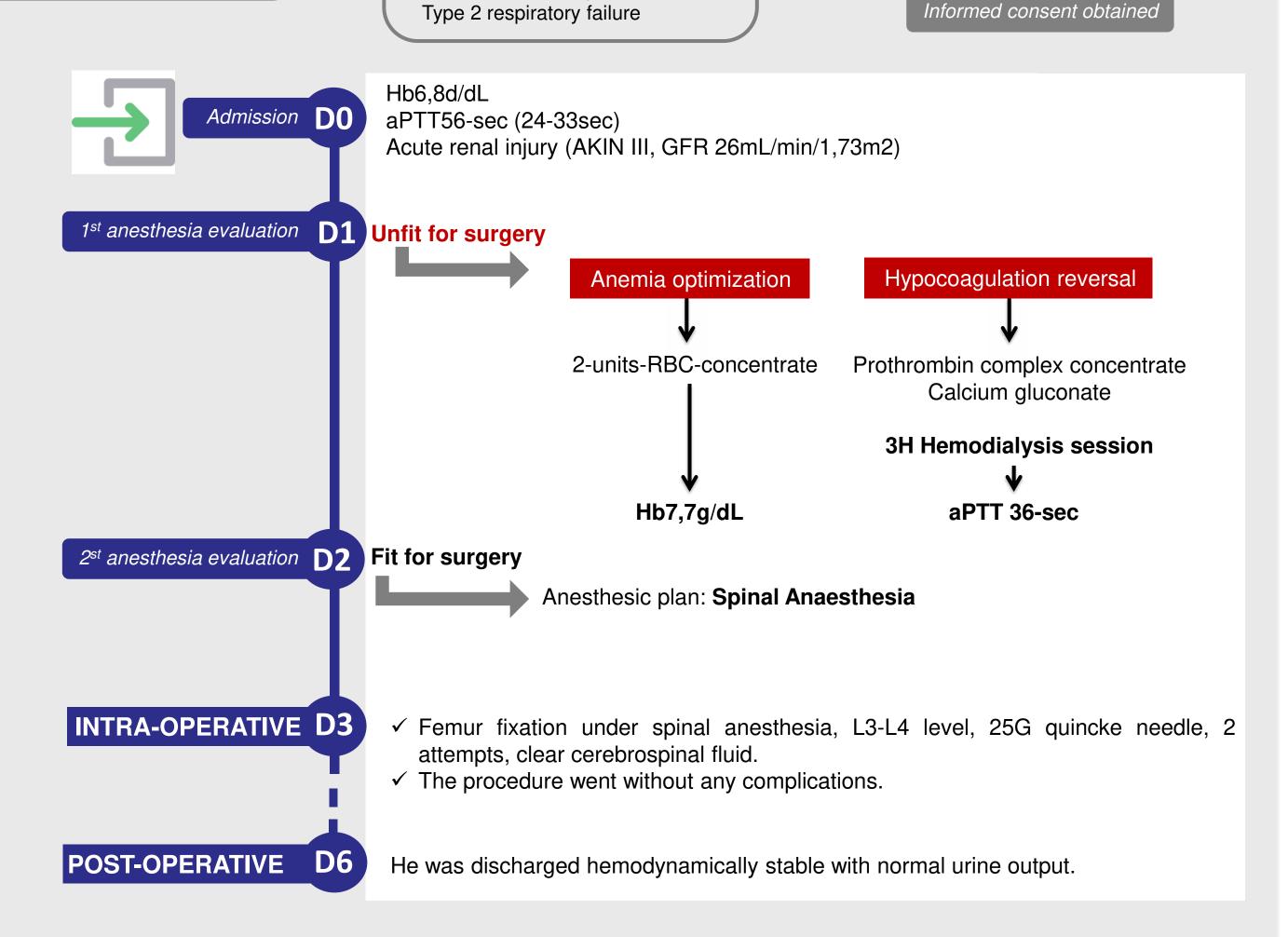
CASE-REPORT



Hypertension
Atrial fibrillation
Chronic heart failure (NYHA IV)
Chronic anemia
COPD
Radiation induced pneumonitis



2019



DISCUSSION

Orthopedic surgery has a high hemorrhagic risk and hypocoagulation is common among older orthopedic patients. Dabigatran hypocoagulated patients with impaired renal function (GFR < 30 mL/min/1,73m2), require at least a 5 days suspension.

Dabigatran is the only anticoagulant that can be removed through hemodialysis.

Regarding our patient we considered spinal anesthesia a safer option taking in account the risks related to anesthesia recovery, particularly ventilatory weaning.

In patients hypocoagulated with Dabigatran, whose general anesthesia and airway related risks are increased, hemodialysis along with PCC are effective interventions to reduce dabigatran serum levels allowing neuraxial anestesia.

1. Khadzhynov D. et al - Effective elimination of dabigatran by haemodialysis. A phase I single-centre study in patients with end-stage renal disease. Thromb Haemost. 2013 Apr;109(4):596-605.