

Disclosures





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Update on Cold vs Warm Stored Platelets in Bleeding CT Surgery Patients.

Clinical Trial Haukeland University Hospital
Bergen



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COLD STORED PLATELET CLINICAL TRIAL

- Study outline: A two-armed randomized pilot study was designed to evaluate if leukoreduced apheresis platelets in PAS stored for up to 7 days cold (4CPLT) or at room temperature (RTPLT) are equally effective in treatment of postoperative bleeding in patients undergoing major cardiothoracic surgery.
- Complex cardiac surgery likely to require platelet transfusion.

HYPOTHESIS

- Cold stored apheresis platelets are as safe and efficacious as room temperature stored platelets (as part of transfusion strategy for bleeding patients)

PRIMARY AND SECONDARY OBJECTIVES

- P: To compare change in platelet function and coagulation profile the first 24 hours
- S: Chest drain output(postop bleeding)
- S: Total amount of blood products transfused
- S: Adverse events – transfusion reactions,tromboembolic events

PATIENT POPULATION

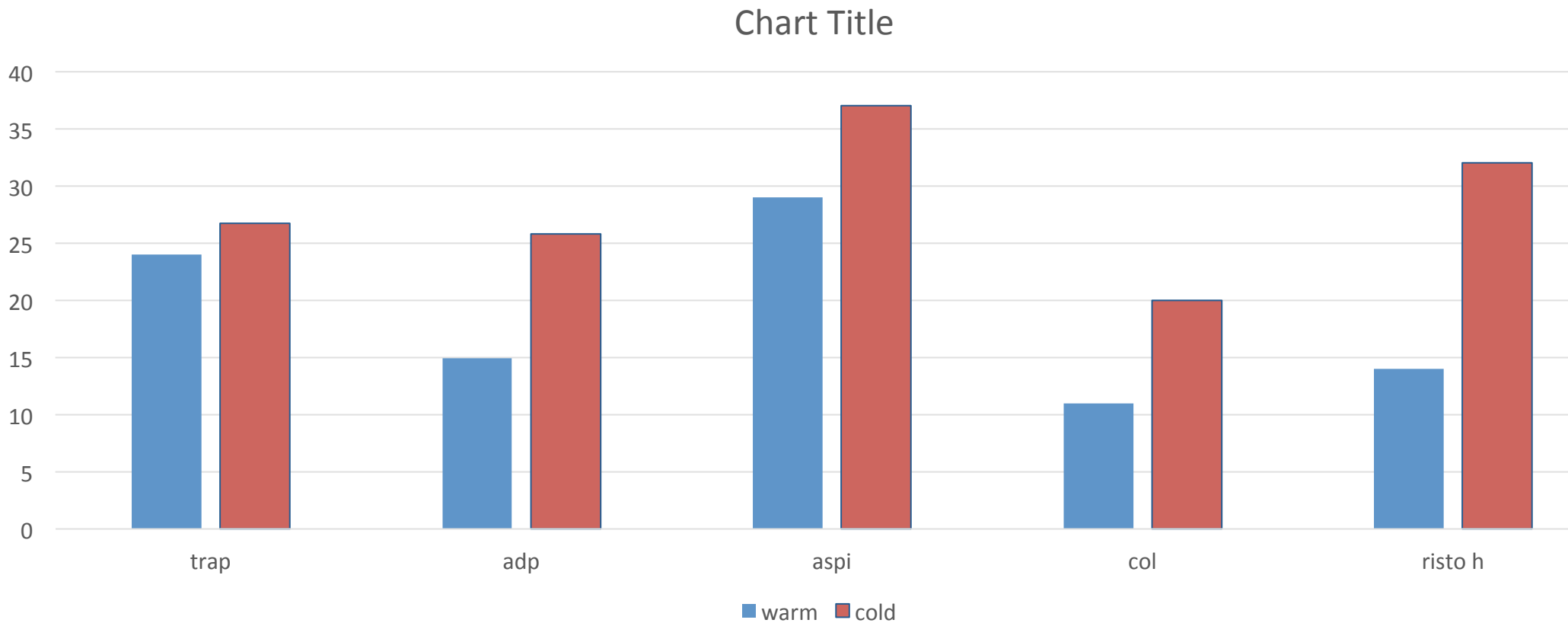
- Complex cardiac surgery with expected long extracorporeal time(>120 minutes)
- Likely to require platelet transfusion
- Typical aortic arch surgery deep hypothermia, endocarditis redos, double valves, dual platelet inhibition not withdrawn last 48 hours etc
- Elective/semi elective surgery only

INCLUDED SINCE START MID APRIL 2015

- 65 patients enrolled in the study
- 30 patients received platelet transfusion
- Cluster randomisation



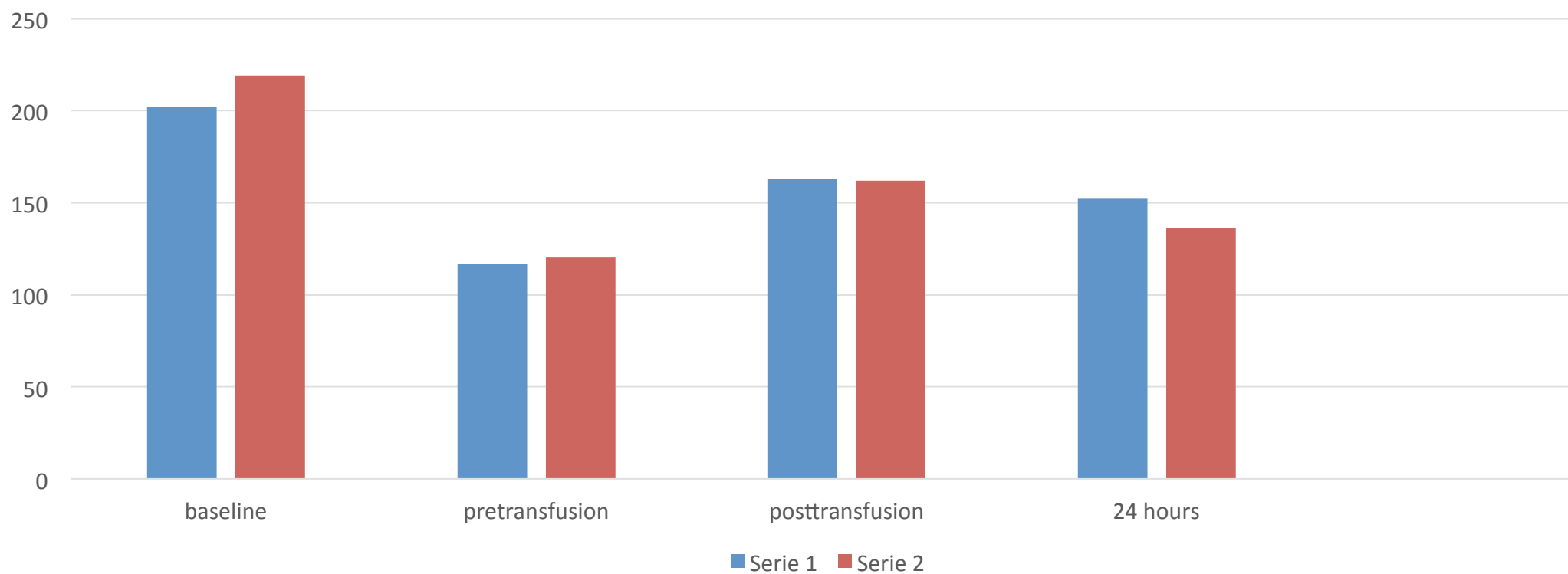
Difference in multiplate after transfusion episode





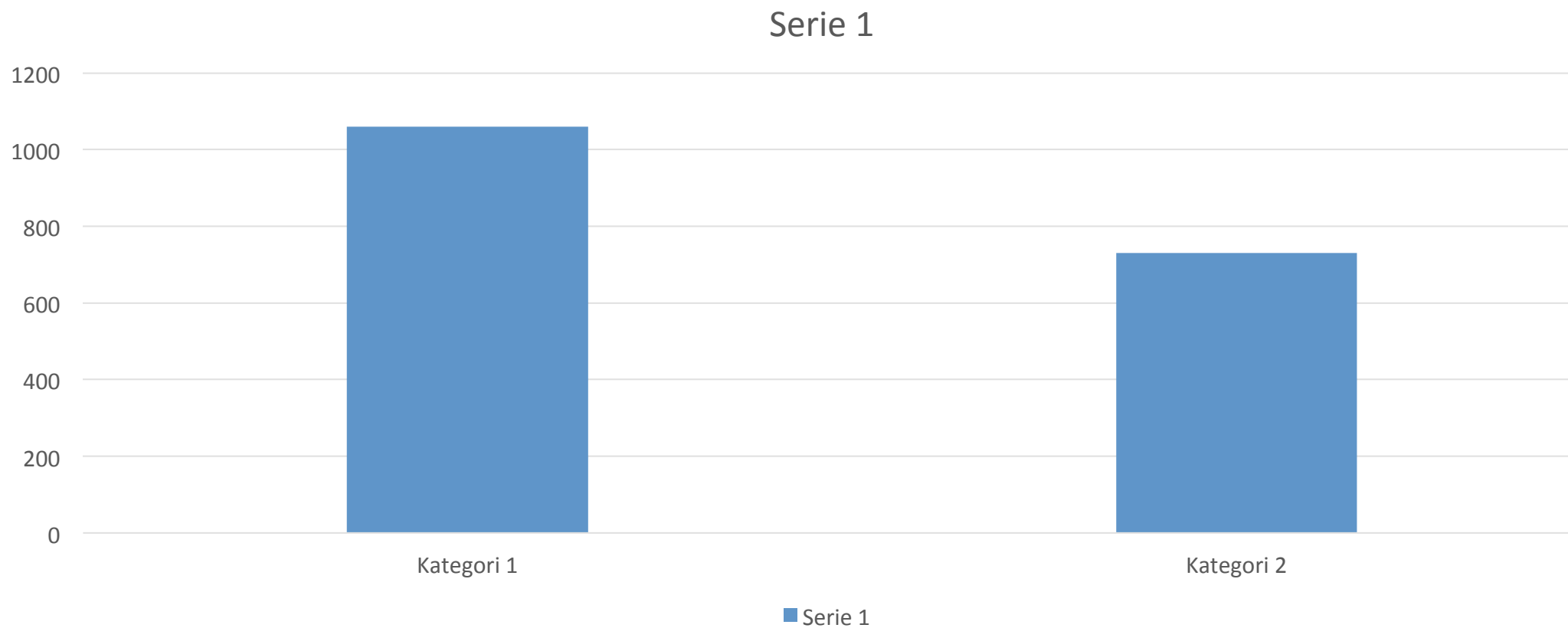
Platelet count the first 24 hours

Chart Title



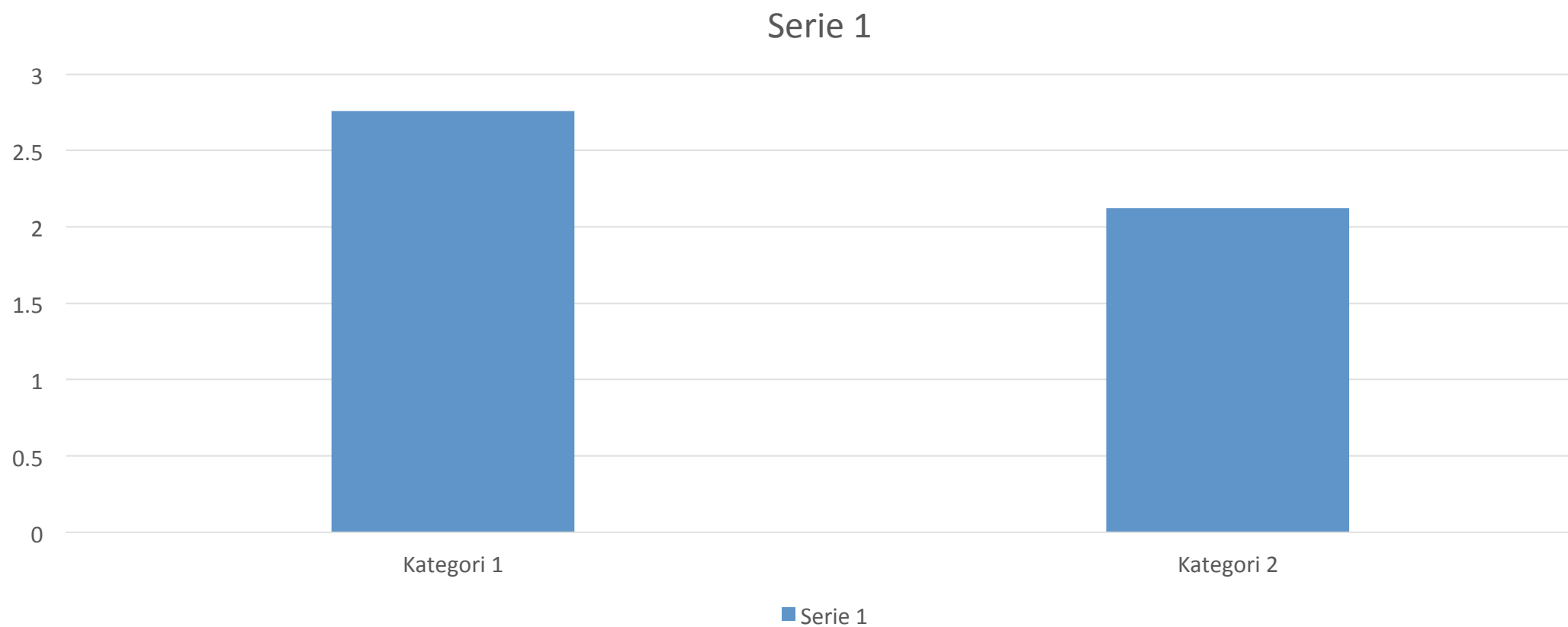


CHESTDRAIN OUTPUT 24 HOURS





AVERAGE NUMBER OF PLATELET UNITS USED





ADVERSE EFFECTS DUE TO TRANSFUSION OF COLD PLT`S??

- NO TROMBOEMBOLIC EVENTS FIRST 24 HOURS



THE WAY FORWARD

- END THIS STUDY WHEN 20 IN EACH ARM
- PROCEED WITH UP TO 14 DAYS OF COLD STORAGE NONAGITATED
- COMPARE 1:1:1 USING COLD STORED APHERESIS PLT'S AND COLD STORED WHOLE BLOOD
- START USING COLD STORED WHOLE BLOOD IN THE TRAUMA PACKS STARTING SEPTEMBER??