



UNIVERSITÄTS**medizin.**

Dept. of Cardiothoracic and Vascular Surgery

MAINZ

**OBESE CARDIAC PATIENTS:
SIGNIFICANT REDUCTION OF DEEP
STERNAL WOUND COMPLICATIONS
BY WEARING THE POSTHORAX VEST?**

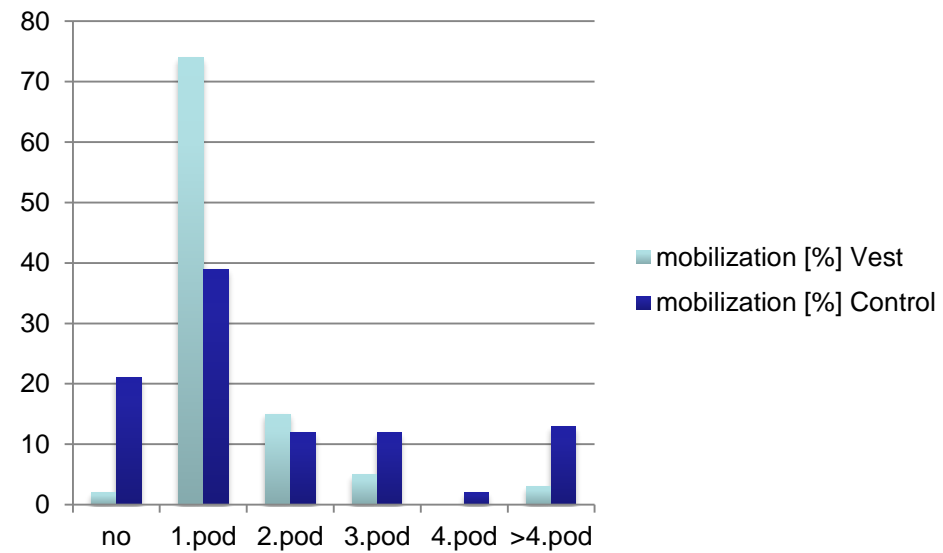
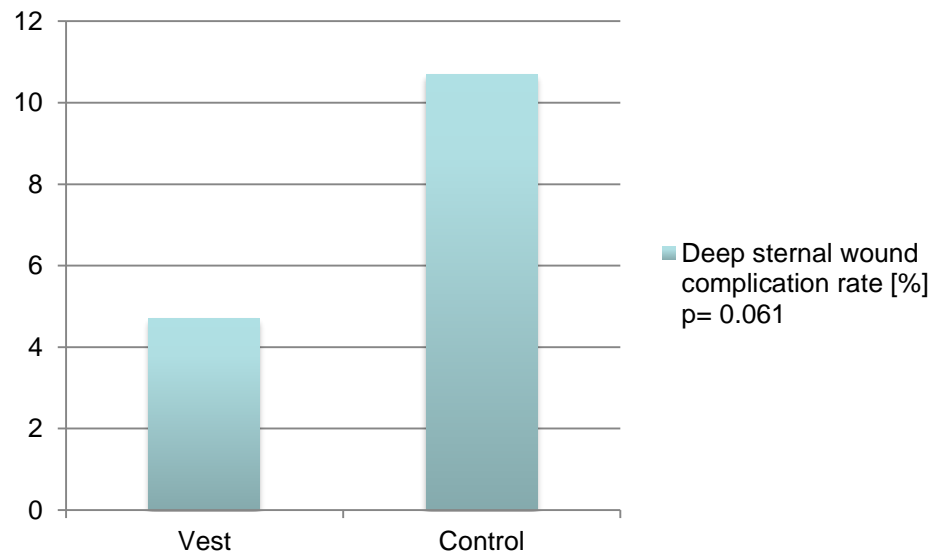
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Objectives & Methods

- Sternal wound healing disturbances is a postoperative complication after median sternotomy especially in obese patients.
 - Surgical wound revision and prolonged hospitalization increase the costs disproportionately.
 - Prospective study 08/14 – 07/15:
Median Sternotomy, BMI > 30kg/m²
 - n=129 Vest Group
 - n=131 Control Group (07/13-12/13)
- Feasible reduction of sternal wound complication rate by the Posthorax vest?

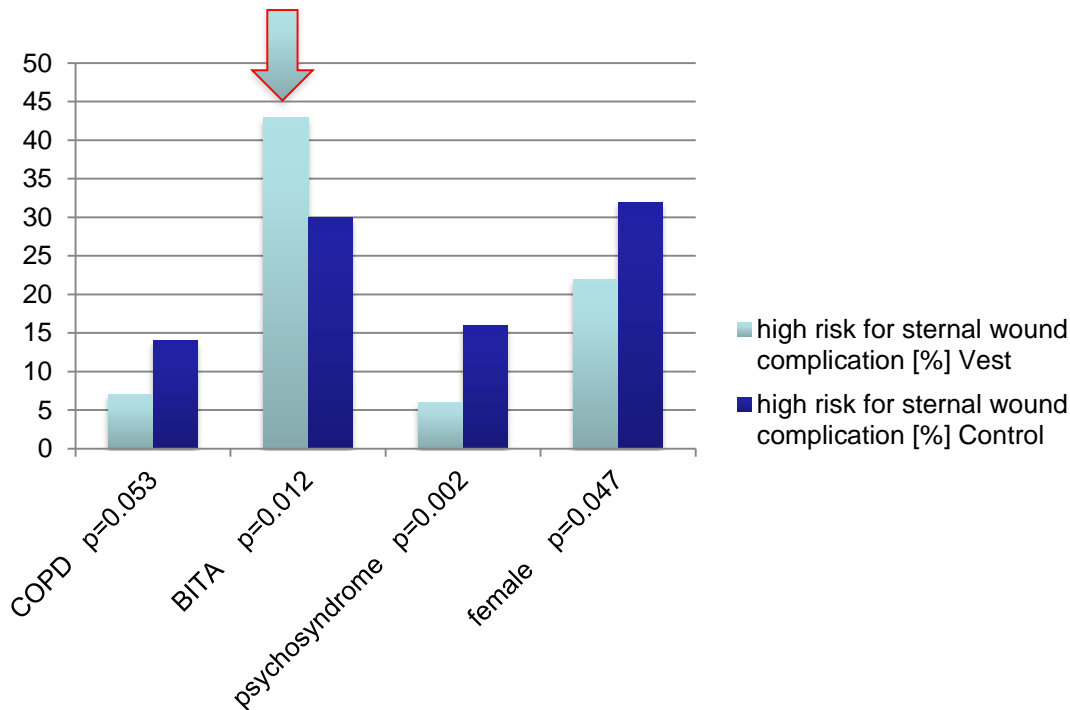


Results



Results

	Vest	Control
BMI [kg/m ²]	34.8 ± 4.3	34.5 ± 4.2
Age [yrs]	65.7 ± 10.4	65.4 ± 11.2
IDDM/NIDDM [%]	46	45
OP time [min]	194.3 ± 55.8	196.3 ± 52.7
ventilation time [hrs]	< 24h (0 - >95)	< 24h (0 - >95)



Conclusion

1. Reduction of deep sternal wound complication rate in the Vest Group.
2. Limitation: Are the groups comparable concerning lower rate of COPD, psychosyndrome and female gender in est Group? Otherwise BITA rate is higher in Vest group.
3. Nevertheless Vest group shows earlier mobilization.
4. Since internal demonstration of our results every patient that underwent median sternotomy has to wear the Posthorax vest in order to reduce sternal wound complications and therefore costs.



Vielen Dank!

