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Mortality after femoral fractures.

A study on 13,000 patients in the
Swedish Fracture Register

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Introduction

- Hip fractures are among the most common fractures
 - Mortality is high – 30% at 1 year
 - Treatment within 24/36 hours
 - Old patients with comorbidities
-
- What about the rest of the femur?
 - Age? Comorbidities? Mortality?



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Material & methods



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- The Swedish Fracture Register (2011)
 - Injury mechanism
 - Fracture characteristics
 - Treatment
- Surgeons enter data
- PROM questionnaires
- 375,000 fractures May 2019
- All femoral fractures 2011-2014
- Cross-checked with The Swedish Patient Register
 - Comorbidities
 - Mortality



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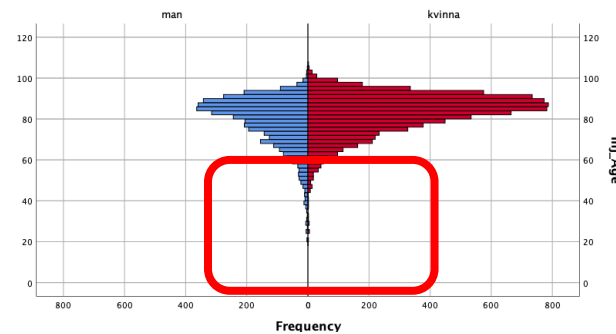
13,080 femoral fractures

2/3 women, mean age 80 years

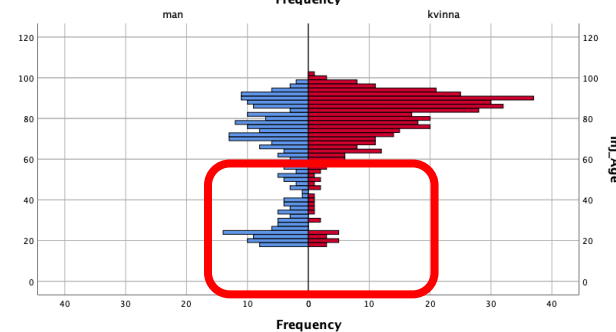


Number (%) Mean age Gender & Age distribution

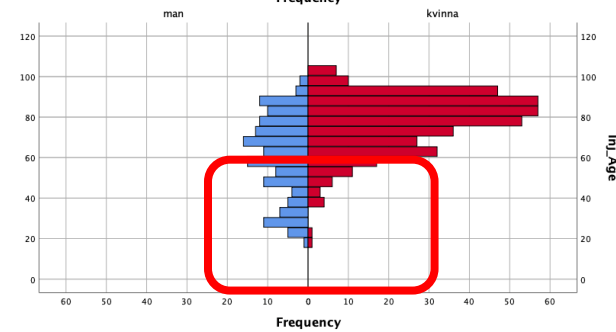
11,920 (91%) 81 yrs



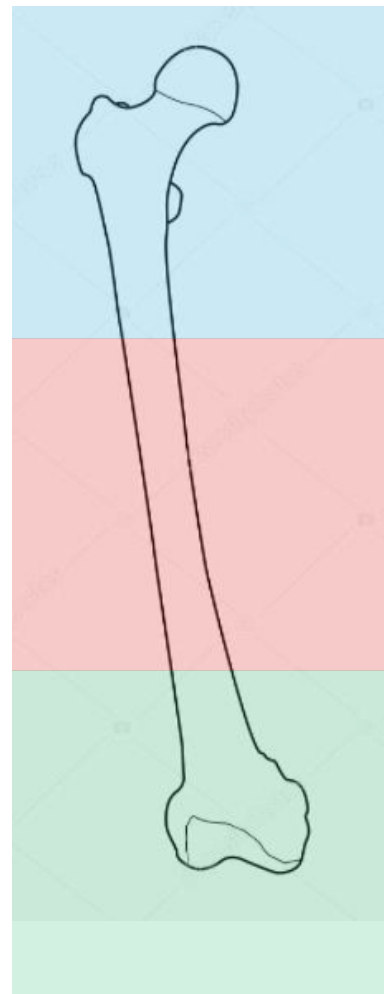
645 (5%) 71 yrs



515 (4%) 75 yrs



In younger ages...
Different population..
..more men
...20% high energy



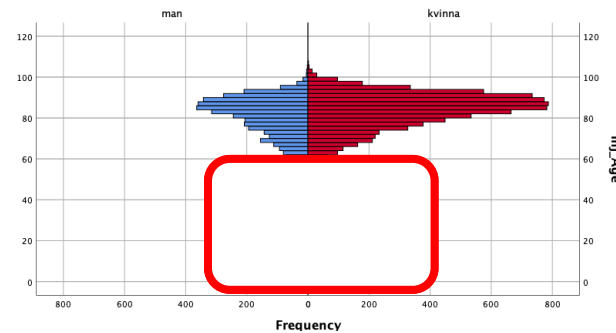
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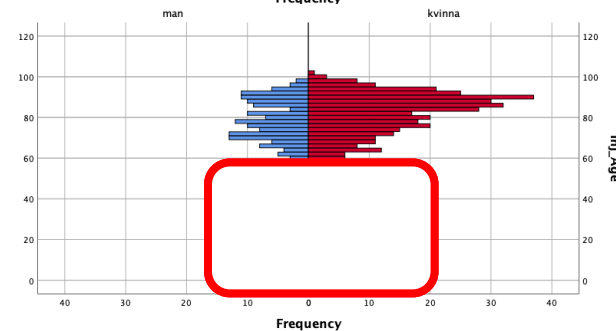


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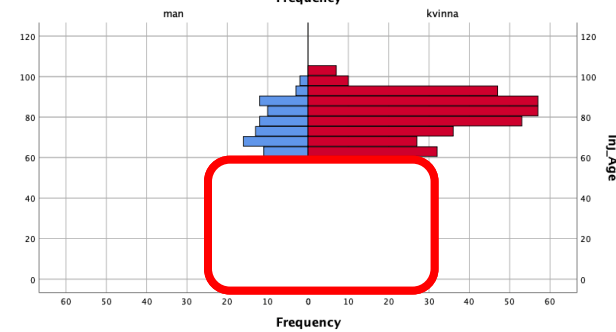
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Femoral fractures
>65 years....



11854 femoral fractures >65 years

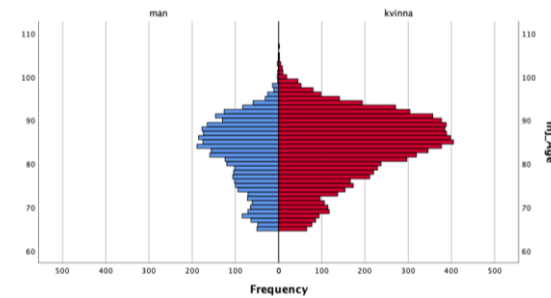
70% women, mean age 83 years



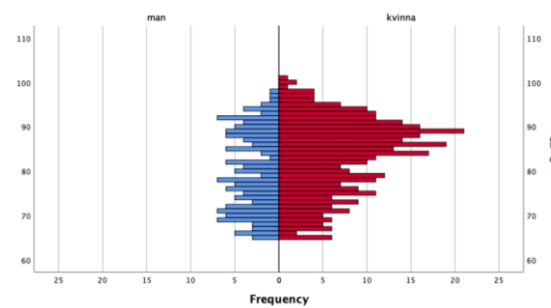
Number (%) Mean age Gender & Age distribution



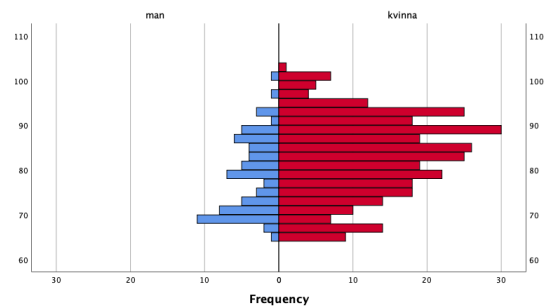
11,010 (93%) 83 yrs



472 (4%) 82 yrs



372 (3%) 82 yrs



Similar gender & age
distribution....
..... 1% high energy



Comorbidities, femoral fractures >65 years: Charlson Comorbidity Index



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No comorbidity(CCI 0) Moderate comorbidity(CCI 1-2) High comorbidity(CCI 3 or more)

54%

34%

14%

54%

29%

17%

Distal femoral fractures healthier....

63%

27%

9%



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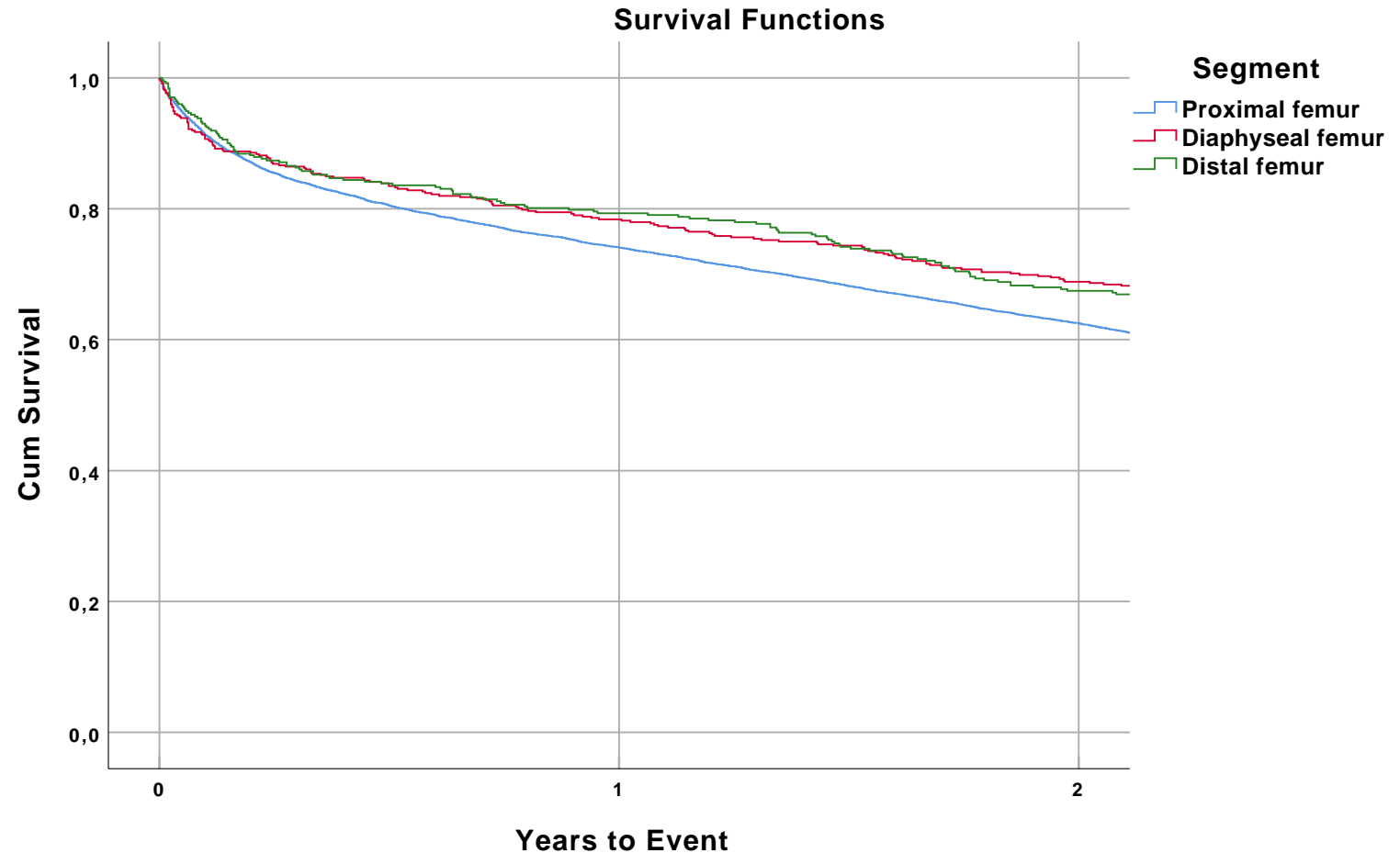
Survival after femoral fracture, >65 years

30-day 1-year mortality

8% 26%

8% 22%

6% 21%





Summary

- Patients with proximal femoral fractures are older than patients with other femoral fractures

- When looking at > 65 years
 - Age and gender distribution similar
 - Diaphyseal and distal femoral fractures are almost as deadly to the elderly as hip fractures

- **Time to reconsider time to surgery even for these patients?**

The author declares that the research for and communication of this independent body of work does not constitute any financial or other conflict of interest

