

# Patients' perception of minimally invasive aortic valve replacement surgery



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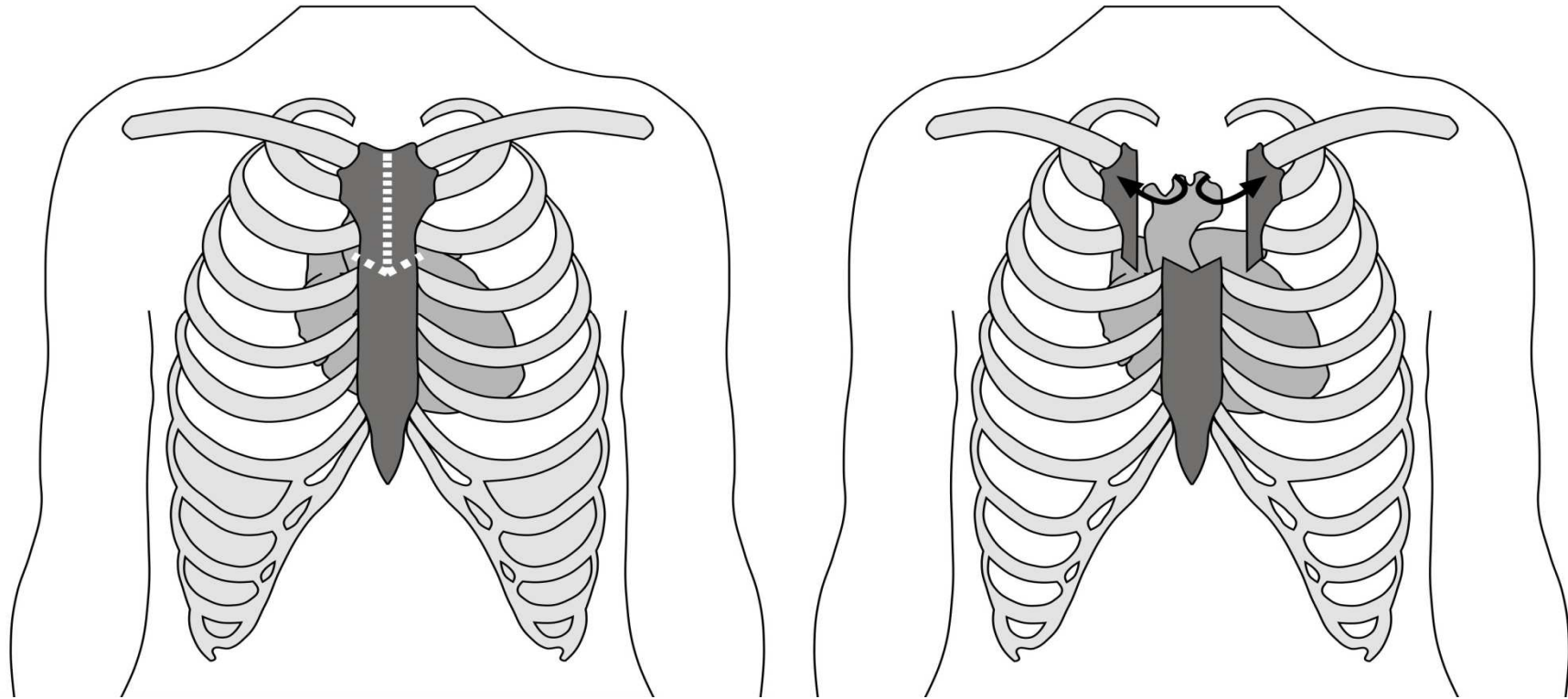
The James Cook University Hospital  
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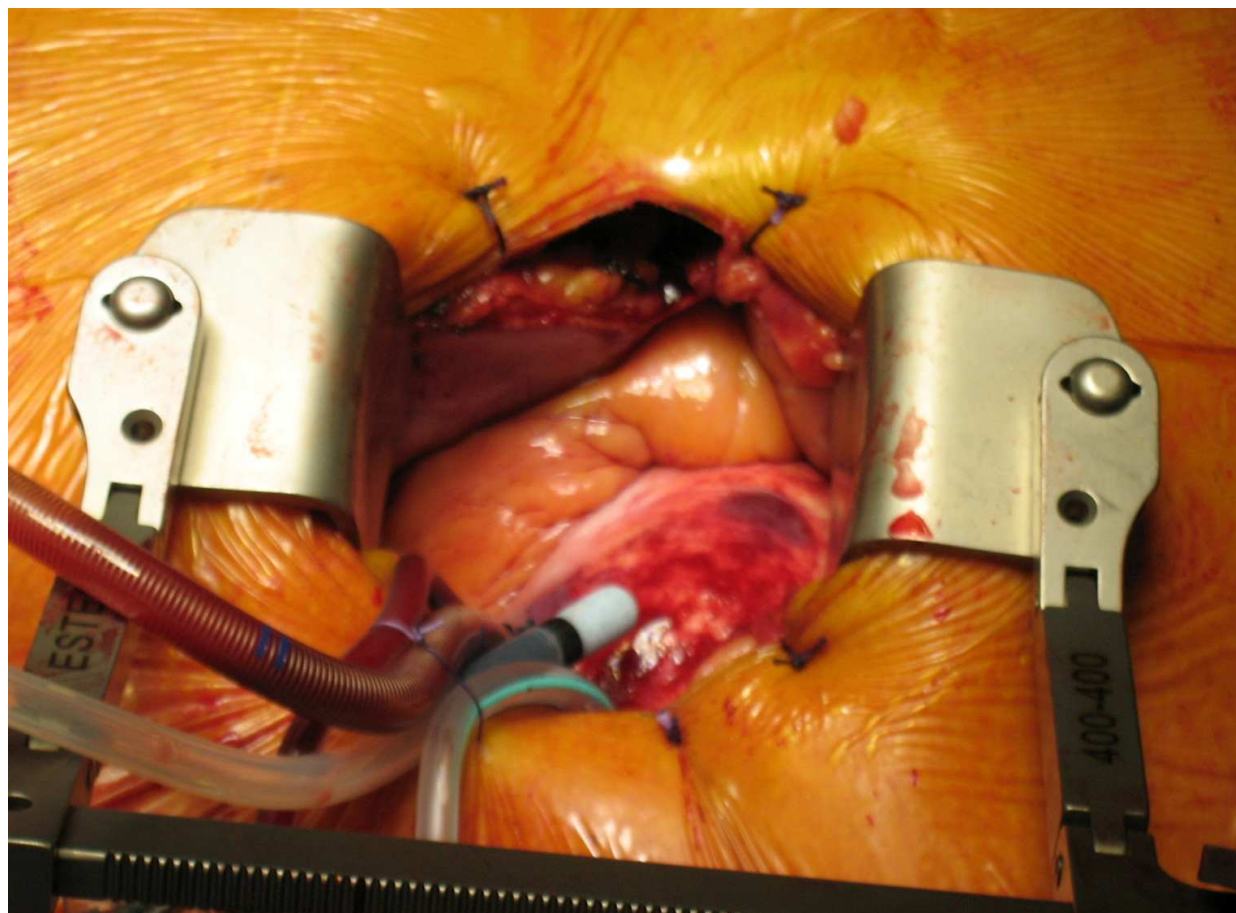
# Background

- Minimally invasive cardiac surgery is becoming more common
  - Reduced pain
  - Reduced surgical trauma
  - Less bleeding
  - Earlier functional recovery
  - Improved cosmetic results
  - Shorter hospital stay
  - Reduced cost

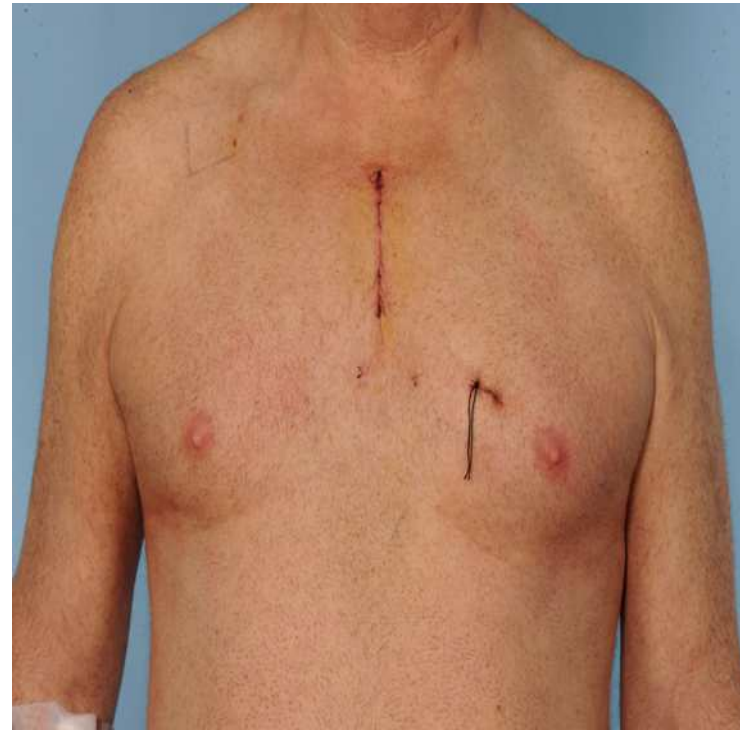
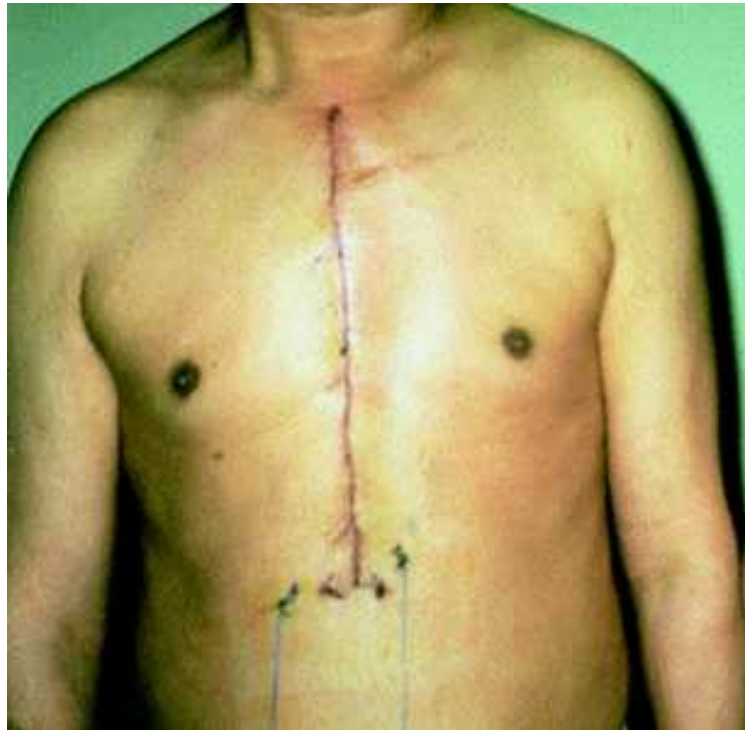
# Procedure



# Procedure



# Cosmetic Result





# Study Question

- What is the patients' perception of our minimally invasive aortic valve replacement programme?

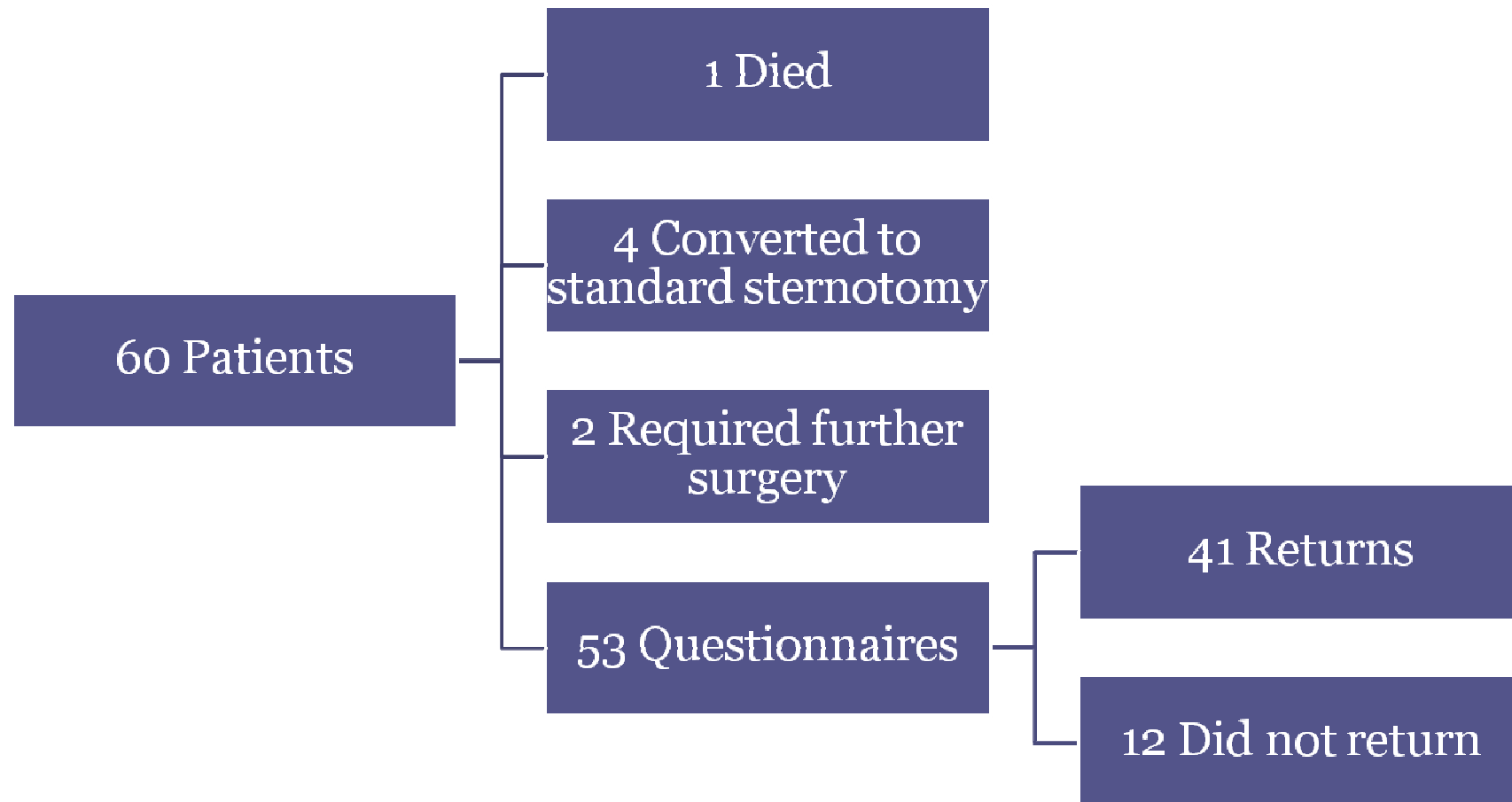




# Methods

- All mini-AVR patients identified from in-house database
- 1 Year Period November 2011 to October 2012
- Postal questionnaire sent 6 weeks post surgery

# Recruitment



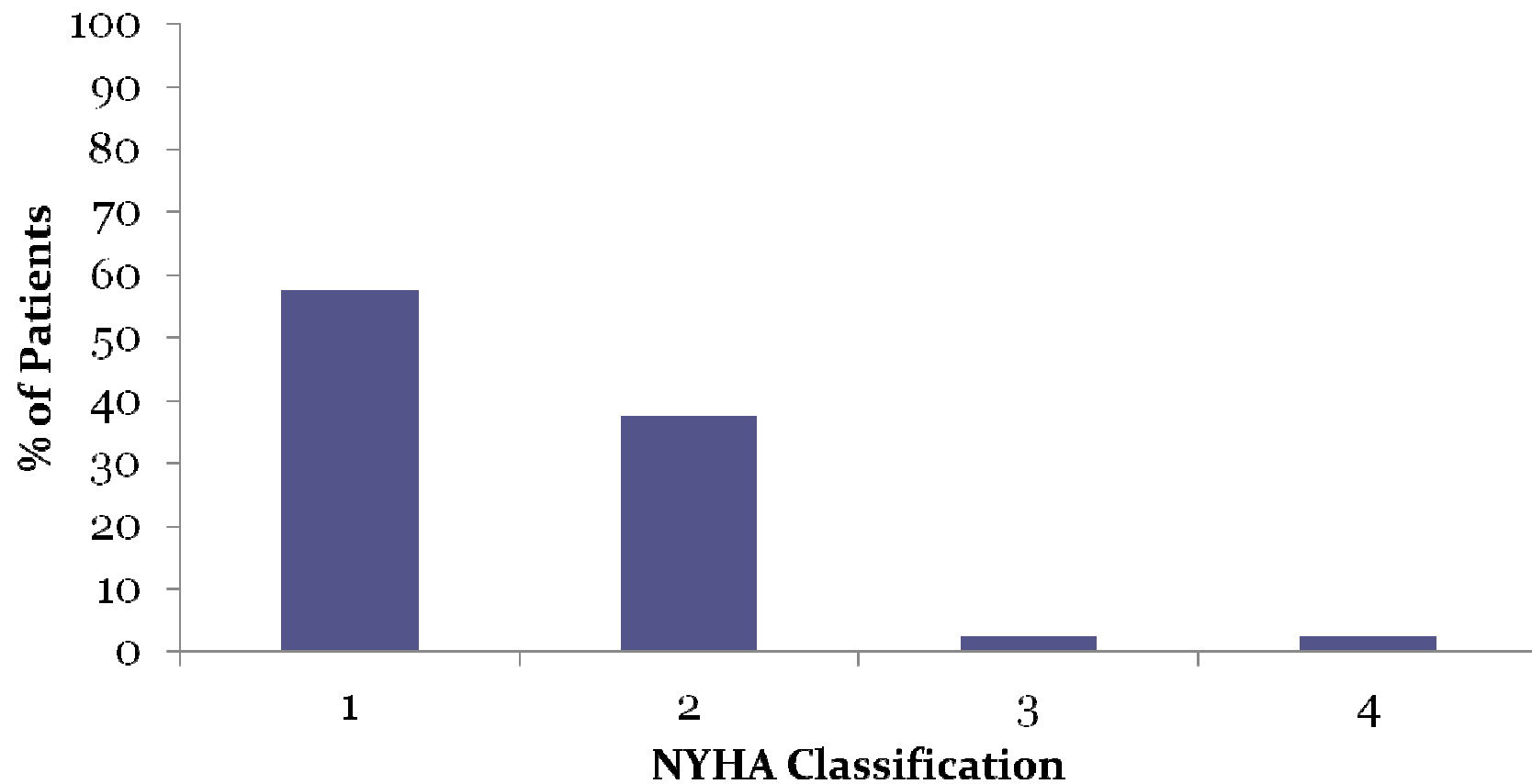




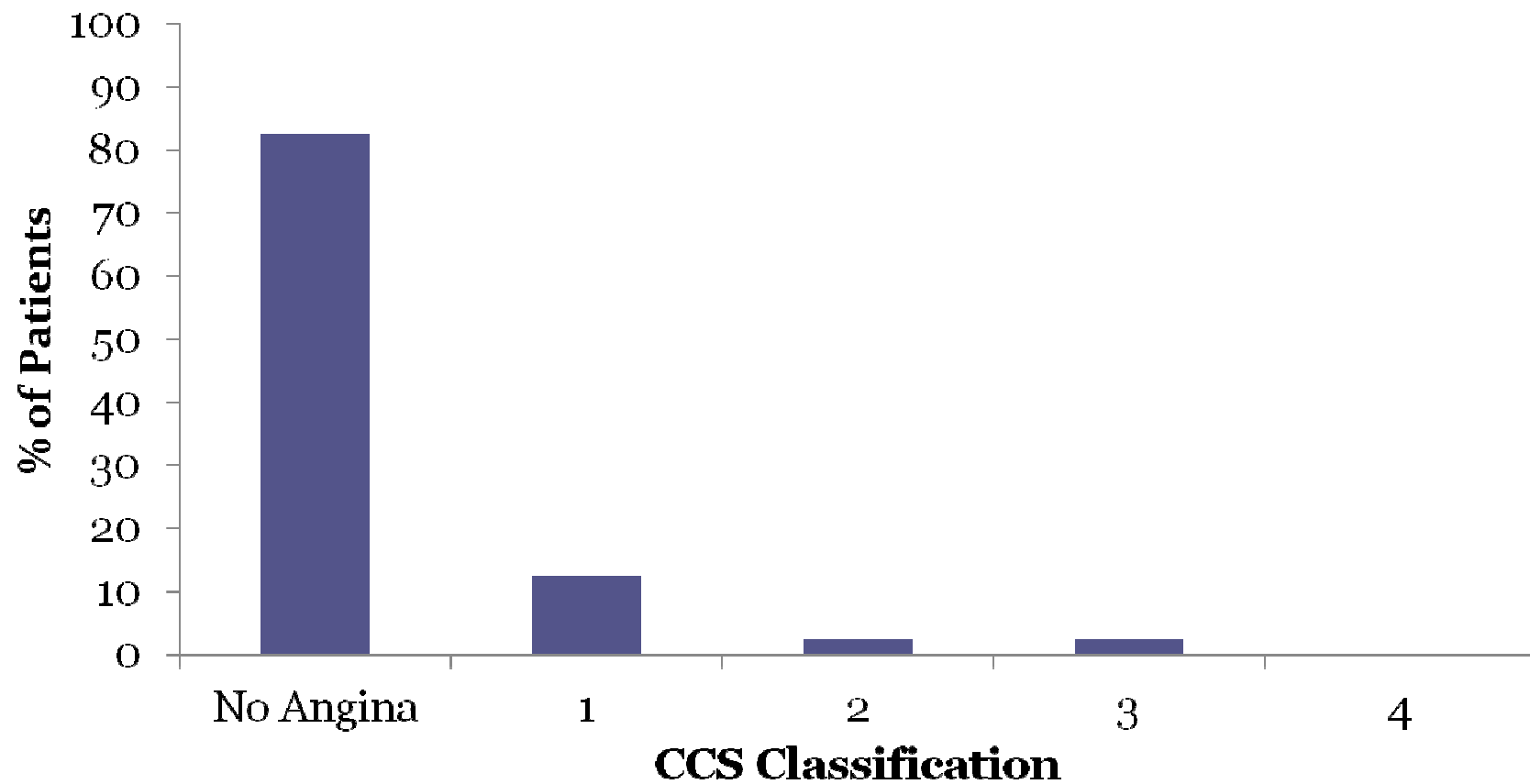
# Demographics

- Mean age 66.9 (Range 19-87)
- 25 Men, 16 Women
- Length of stay
  - Mean 6.97 days
  - Median 6 days
  - Range 3-28 days

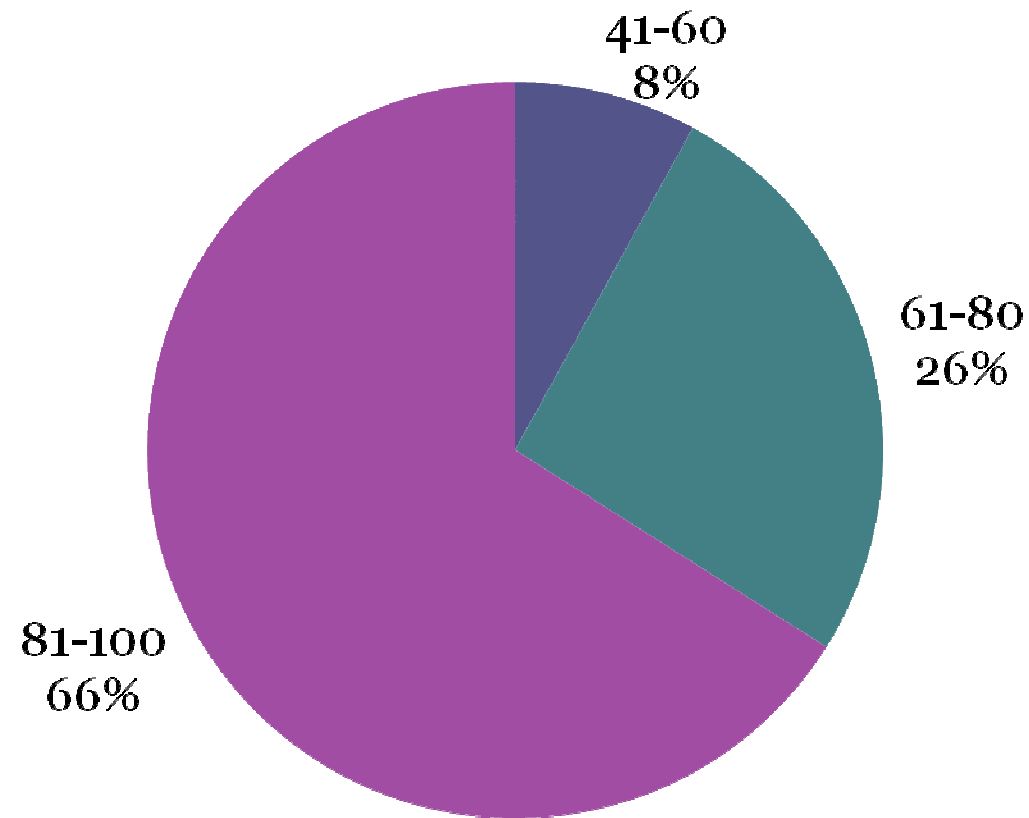
# Patient Reporting of Dyspnoea



# Patient Reporting of Chest Pain



# “Rate your health today”

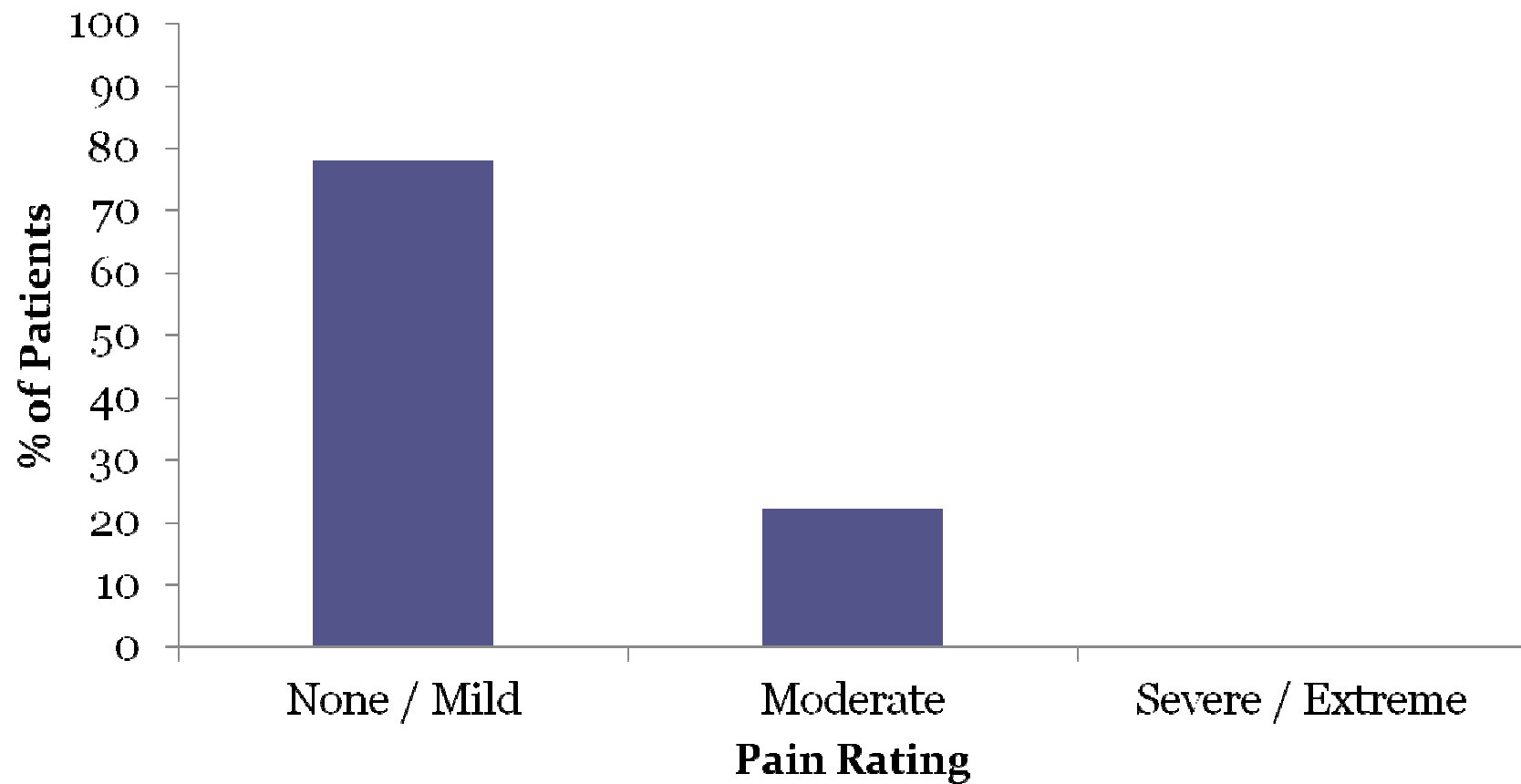




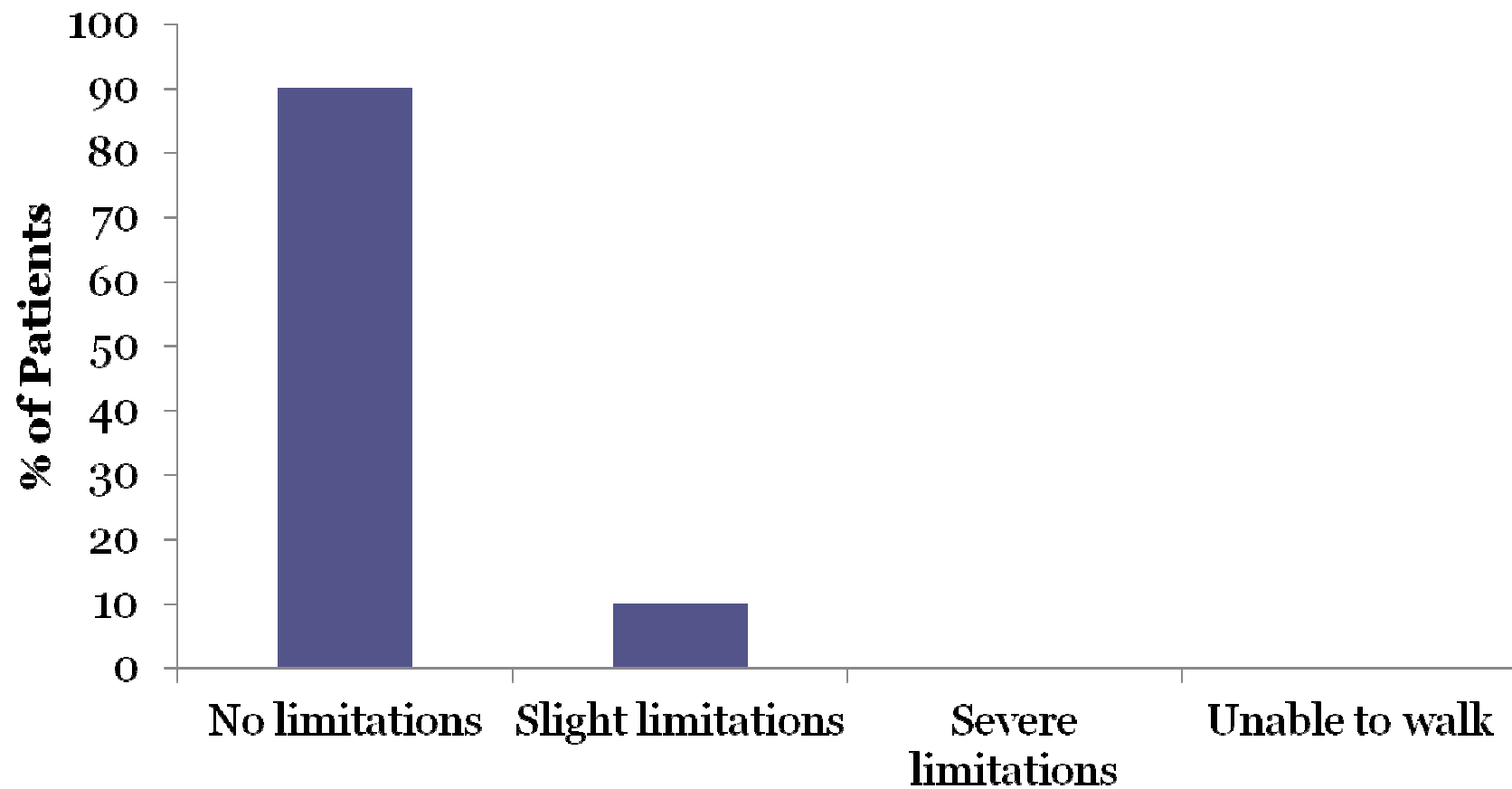
# Scar Appearance

- All patients considered the appearance of their scar as either
  - Very good (87.9%)
  - Good (12.1%)
- All patients preferred a short scar

# Pain at 6 Weeks

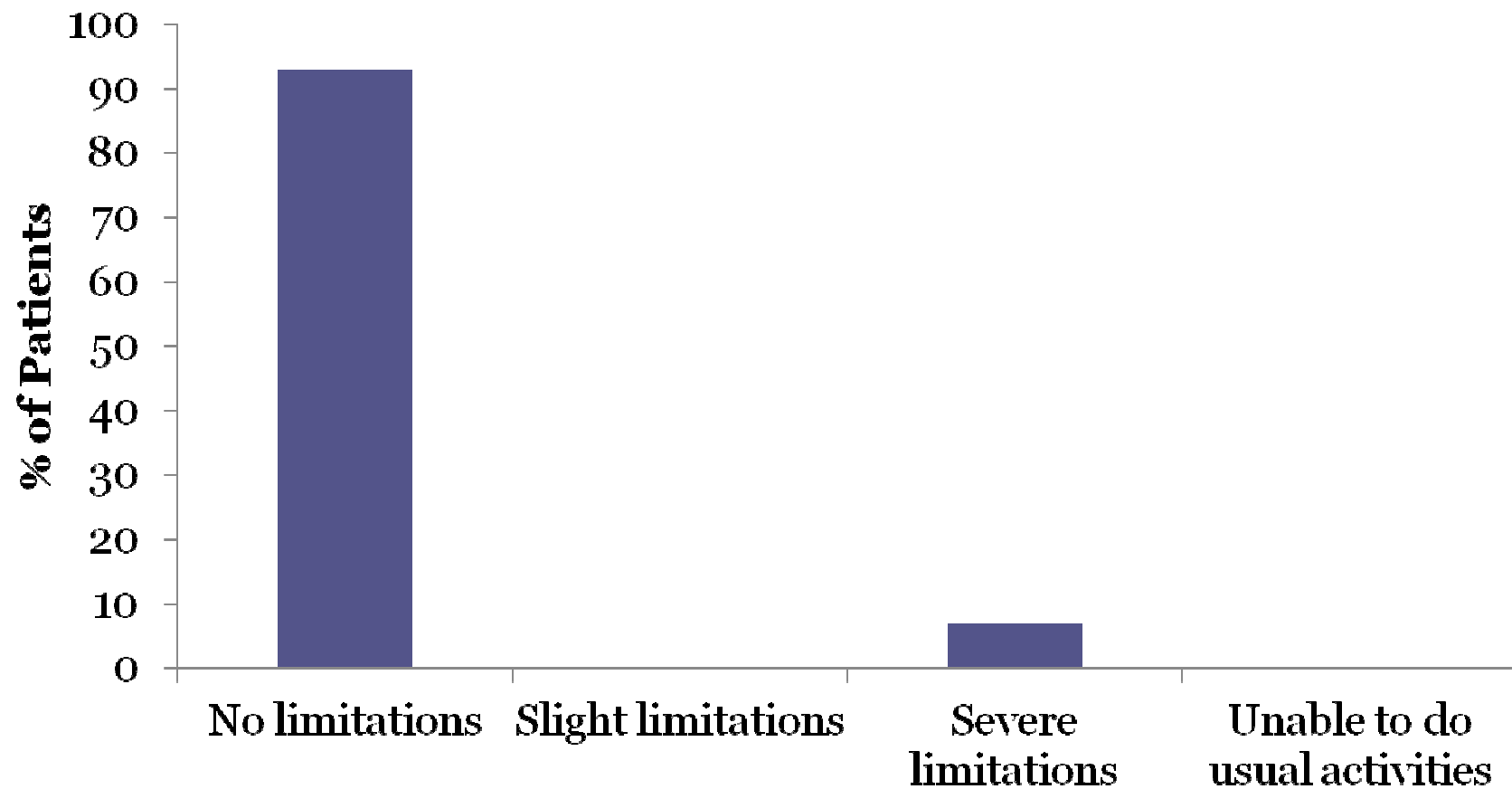


# Mobility





# Return to Usual Activities





# Conclusion

- Patients have a good post operative recovery with minimally invasive aortic valve replacement
  - High levels of satisfaction with scar appearance and size
  - Good functional recovery
  - Little wound and musculoskeletal pain at 6 weeks



# Thank you

- *“I looked at other patients on the ward and thought I am glad I did not have a big scar”*
- *“We still managed to get on holiday 10 days after the operation”*

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