



**ANZHF**

Australian & New Zealand Hip Fracture Registry

**Hip Fest July 2019**

**Roger Harris**

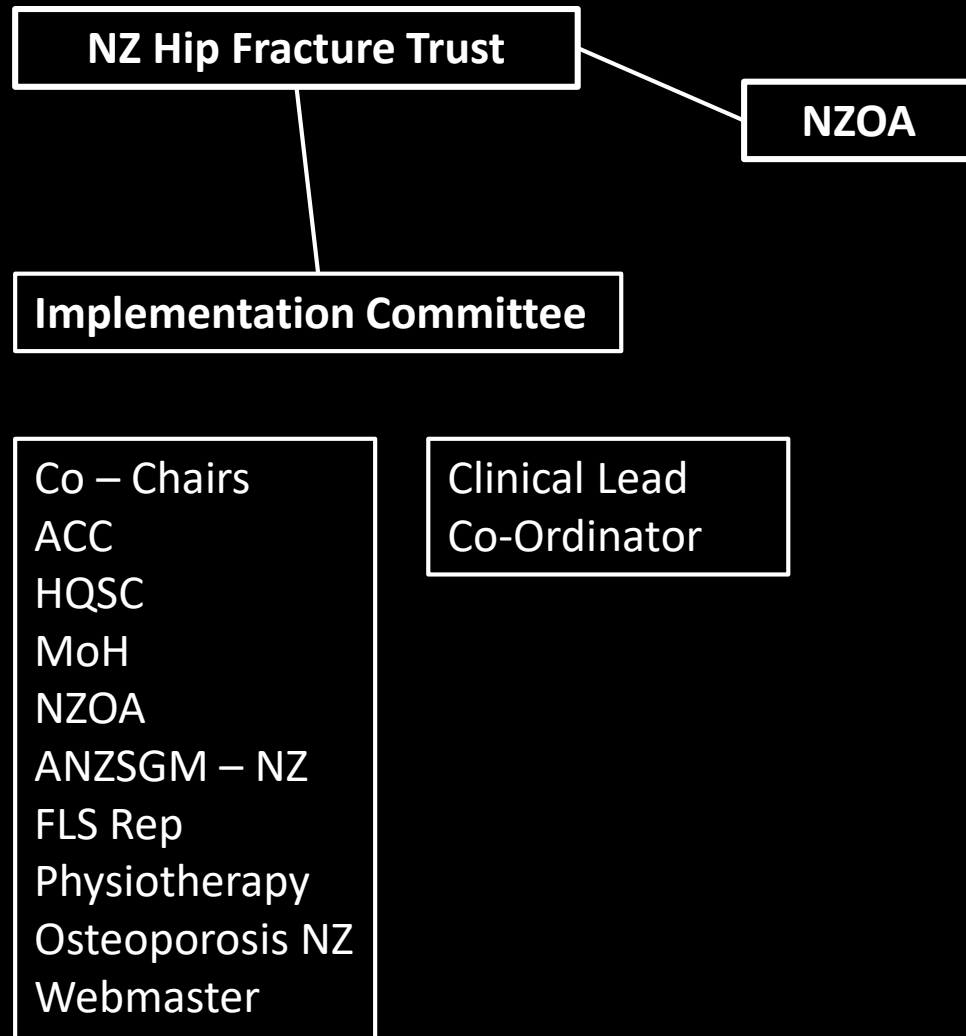


## Getting Started

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- Started in November 2011
- Bupa Grant \$450k
- Funded the Bi-national development work
  - Also Website with \$ contribution from NZ
- AIM: To use patient level and facility level data to enable improvements in hip fracture care across both countries

# How Things are Organised



## ANZHFR Steering Group / Sydney

### Co-Chairs

#### NZ x3

Geriatrics  
Orthopaedics  
Injury Epidem  
Anaesthetics  
Emergency  
Consumer Rep  
Webmaster  
Physiotherapy  
Bone & Min Soc  
Ortho Nurses  
National Co-ord  
Colleges  
Osteoporosis  
Dietetics

### Committees

- Data
- Research



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Australian & New Zealand Hip Fracture Registry

2012: Working on data dictionary and guideline

2013: Adaptation of NICE guideline

- :Facilities audit –started annually

2014: Guideline completed

- : Data dictionary and data form finalised

- : Ethics approval obtained

- : Pilot data collection started



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2015: Pilot collecting data in Northern region

: Developing Clinical Care Standards

2016: Publishing first report (on 2015 data)

:Publishing Clinical Care Standards

2017: Second Annual Report

2018: Third Annual Report with hospitals identified

# Hip Fracture Clinical Care Standards

- Care at presentation – timely and appropriate
  - ED pathway / protocol
  - Cognitive assessment
- Pain Management
  - ED protocol / hospital protocols
  - Pain assessed & meds within 30 minutes
- Orthogeriatric Model of Care

# Hip Fracture Clinical Care Standards

- Timing of Surgery
- Mobilisation & Weight Bearing Status
  - Mobilised day1
  - Post op weight bearing status
- Pressure injury
- Minimising risk of another fracture
  - Bone protection medication at discharge
- Transition from hospital care
  - Individualised care plan

# Patient Level Data Collected: 2015 - 2016

- All the appropriate dates / times
- Preadmission status: Living situation / cognition / osteoporosis Rx / mobility
- Assessment details: Fracture type / cognition / ? Medical assessment
- Surgical and Anaesthetic details
- Post operative: First day mobilisation / seen by Geriatrician / Rehab Wd?
- Discharge: Osteoporosis treatment / destination
- Follow Up at 30 and 120 days: Re-operation / mobility /Op.Rx / Living



# Additional - 2017 / 2018 / 2019

2017

- Clinical Care Standards
  - Pain assessment and management in ED

2018

- Delirium assessment
- Hospitals named

2019

- 120 day follow up only
- Malnutrition assessment

- Website Improvement

- Quarterly reports
- Hospital vs NZ average

- Dashboard

- Internal report w.r.t. Standards

- Research development

# Facility Level Data

- Model of Orthogeriatric care
- Protocols and elements of care
  - DVT prophylaxis
  - ED / overall pathway
  - Pain protocol
  - Weekend therapy
- After Orthopaedics
  - Rehabilitation
  - FLS
  - Outpatient clinics
  - Patient and carer information

# Support for ANZHFR

- Economic Evaluation of Clinical Quality Registries Report, 2016
- Australian Health Services Research Prize, 2017
- POMRC Report 2018 recommends hospitals contribute to ANZHFR
- Two publications in 2018 support ANZHFR model for improving care
  - Injury, Int J Care Injured 49 (2018) 1418-1423
  - Journal of Bone and Joint Surgery 2018;100:751-7
- All the improvement activities underway in NZ

# NZ Current Status

- 20 / 22 hospitals contributing data
- Total cases per year steadily increasing
- Estimate 68% of NZ hip fractures in 2018
- Current total cases in registry (all years) = 7,948
- Australia has 60% of hospitals contributing data / 28,609 cases
  
- Total cases is registry 36,557

# NZ Current Status

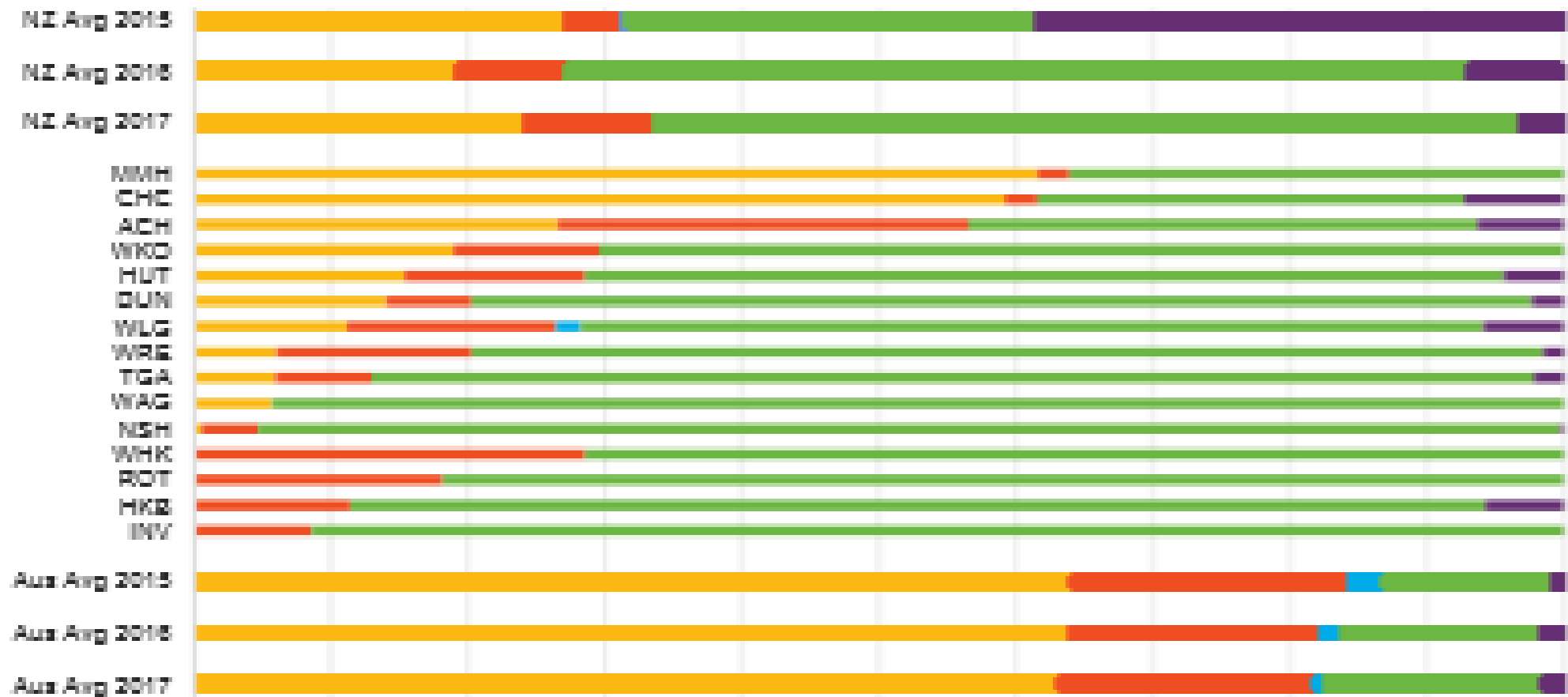
## Numbers

- Comparison with NMDS 2018
- 2018 = 68%
- 2019, June 30 = 52% !!
  
- Records with no date = 232 !!

## Attributes

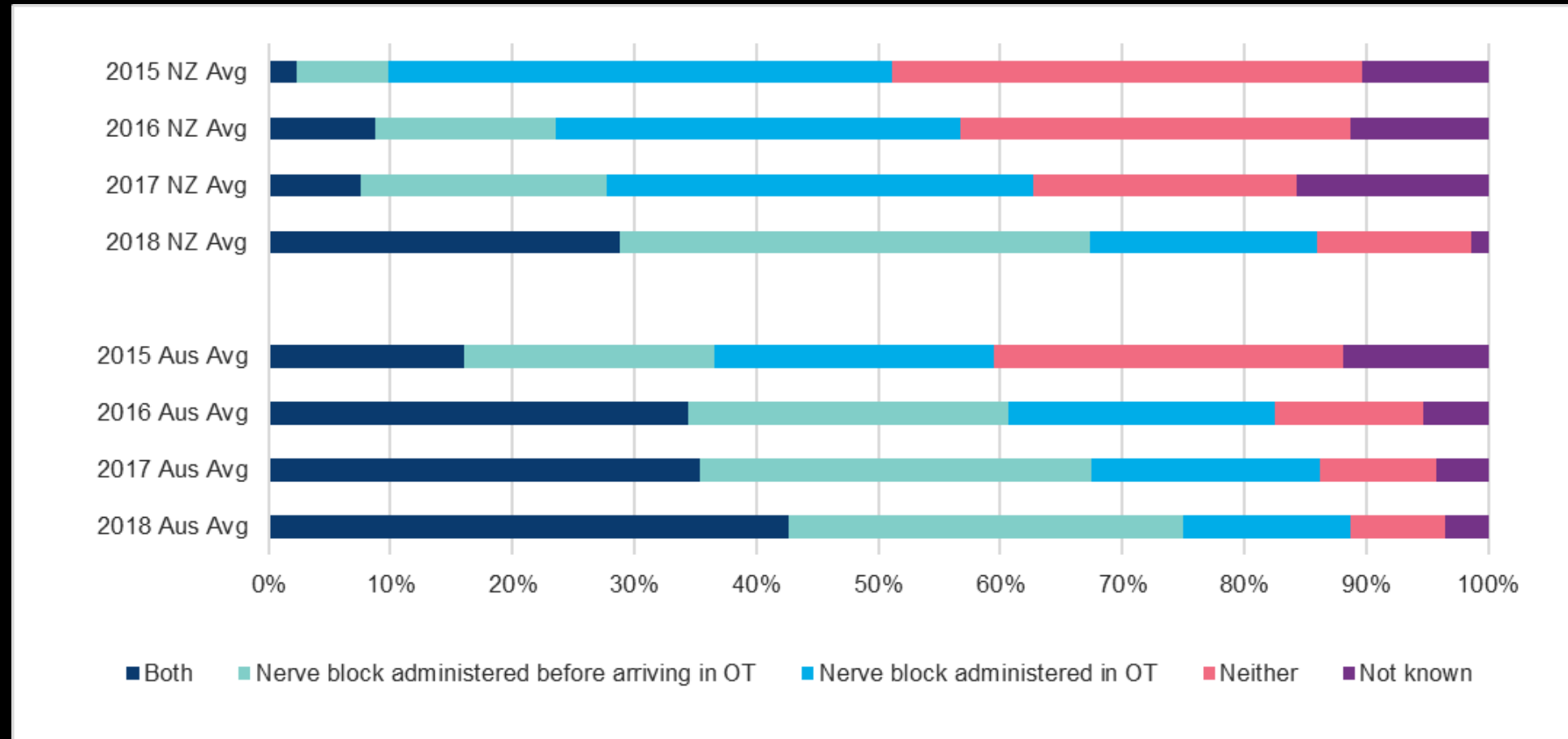
- 8 / 20 have resilient system
- 12/20 absorbed into daily work
  - **THANKYOU !**
  
- **Lots of improvement activities**

**FIGURE 16 PREOPERATIVE MEDICAL ASSESSMENT**

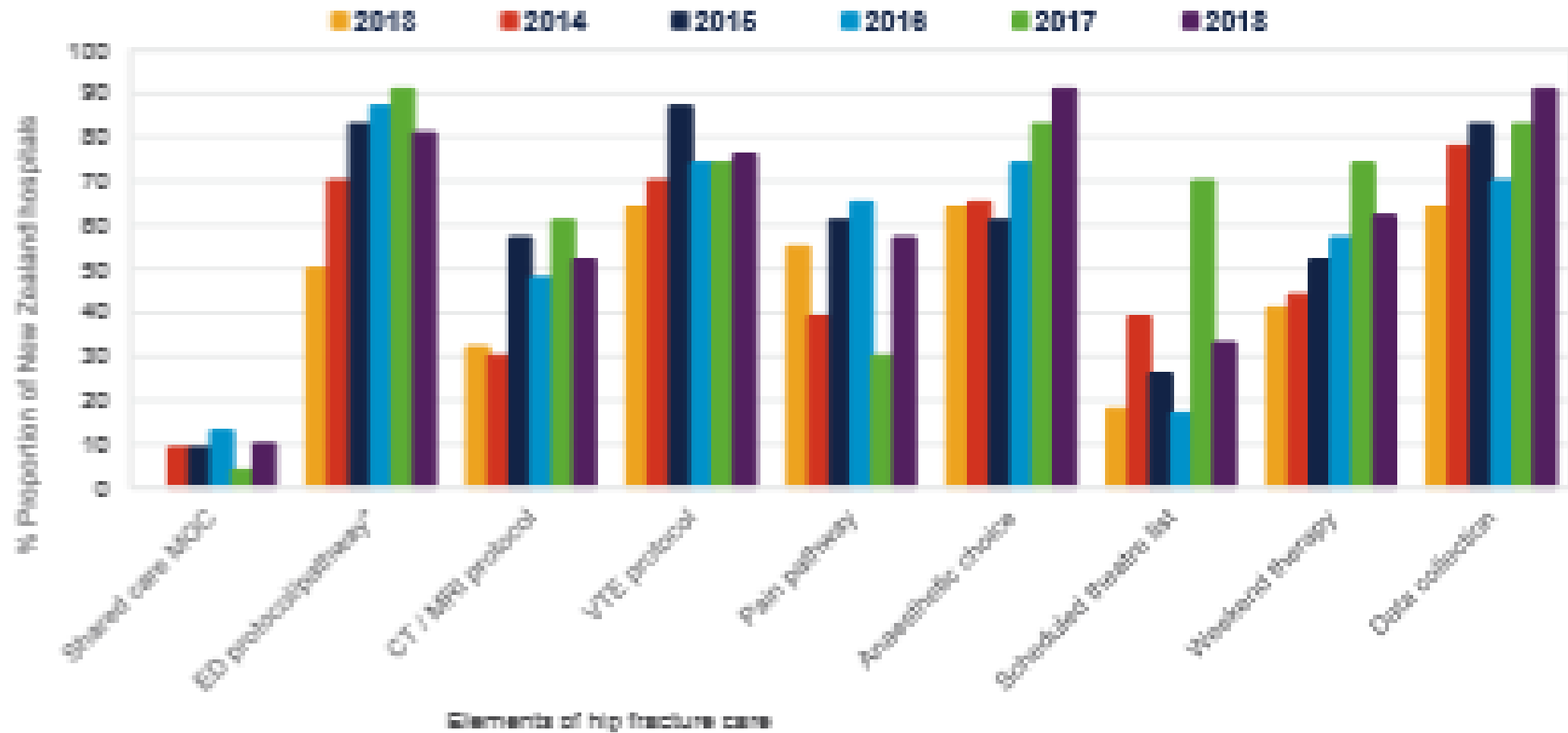


- Geriatrician / Geriatric Team
- Physician / Physician Team
- GP
- Specialist Nurse
- No assessment conducted
- Not known

# Demo – Early Adopters – Nerve Blocks

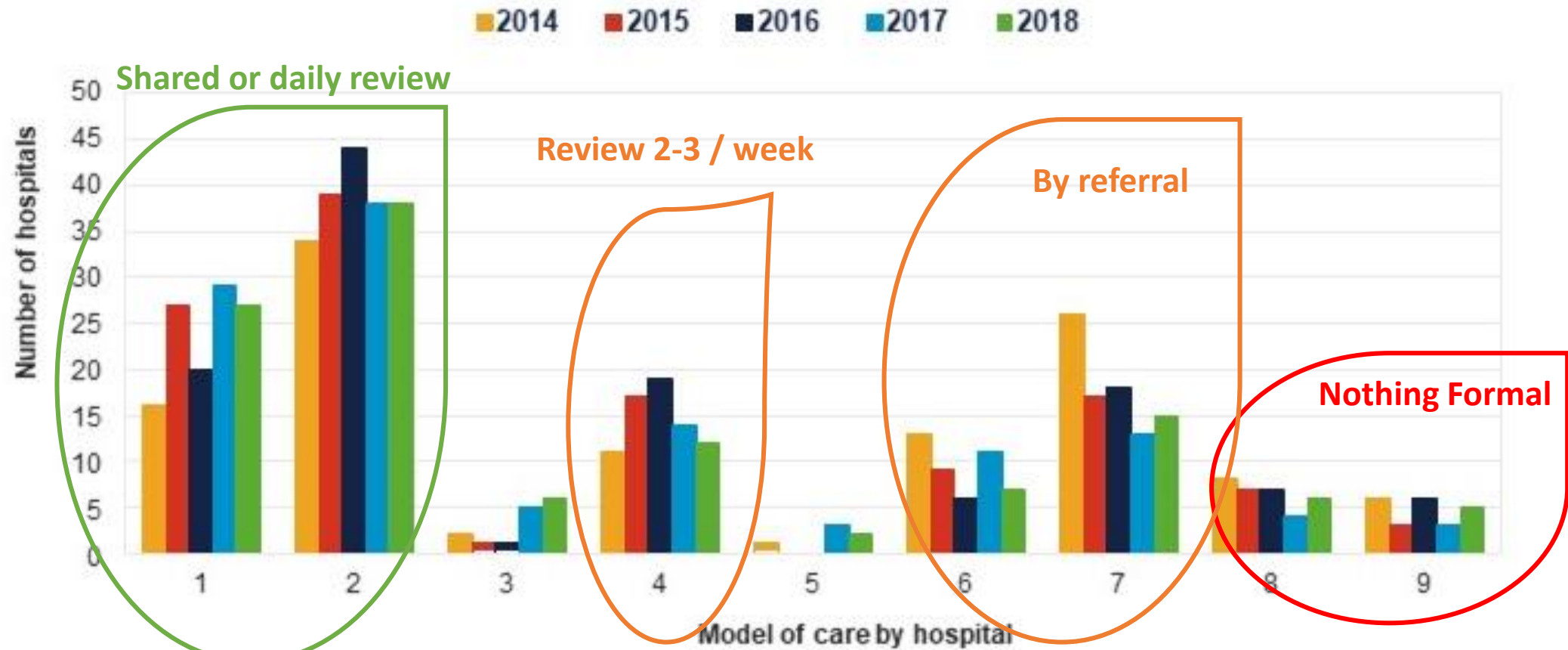


**FIGURE 63 NEW ZEALAND HOSPITALS REPORTED ELEMENTS OF CARE 2013–2018**





**FIGURE 61 MODEL OF CARE FOR OLDER HIP FRACTURE PATIENTS 2014-2018**



1. A shared care arrangement where there is joint responsibility for the patient from admission between orthopaedics and geriatric medicine for all older hip fracture patients.
2. An orthogeriatric liaison service where geriatric medicine provides regular review of all older hip fracture patients (daily during working week)
3. A medical liaison service where a general physician or GP provides regular review of all older hip fracture patients (daily during working week)
4. An orthogeriatric liaison service where geriatric medicine provides intermittent review of all older hip fracture patients (2-3 times weekly)

5. A medical liaison service where a general physician or GP provides intermittent review of hip fracture patients (2-3 times weekly)
6. An orthogeriatric liaison service (2014) / geriatric service (2015) where a consult system determines which patients are reviewed
7. A medical liaison service (2014) / medical service (2015) where a consult system determines which patients are reviewed
8. No formal service exists
9. Other



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Thankyou to everybody  
for your interest and support