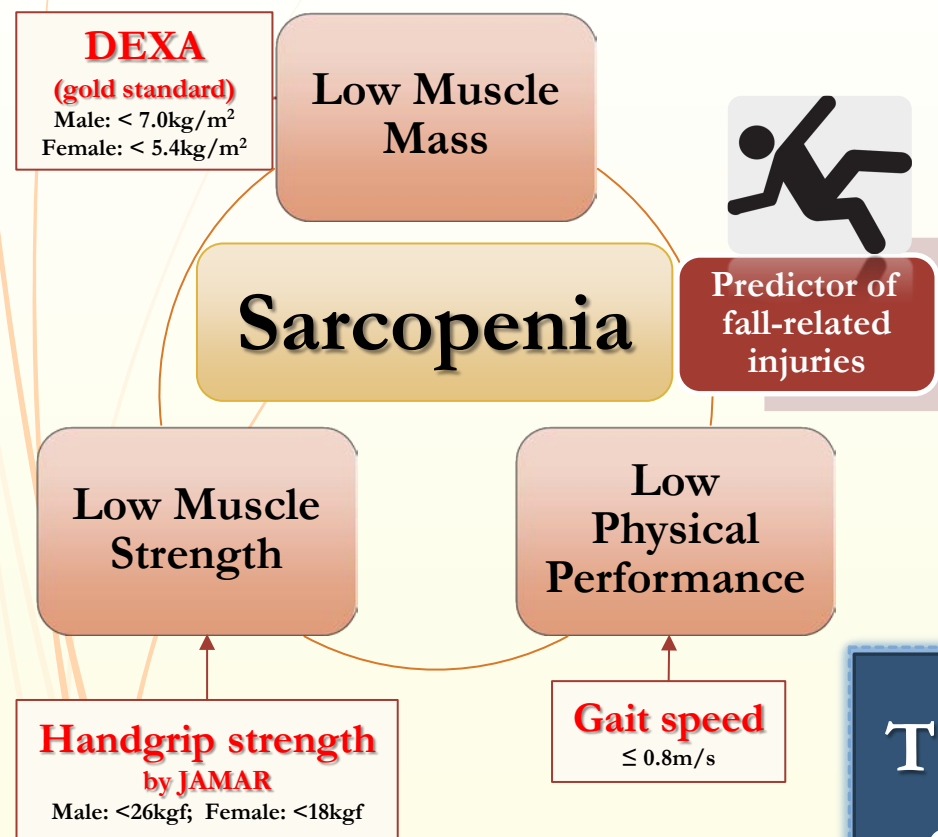


Correlation of Sarcopenia and Functional Performance Factors in Hong Kong Chinese Geriatric Ambulatory Patients with Hip Fracture

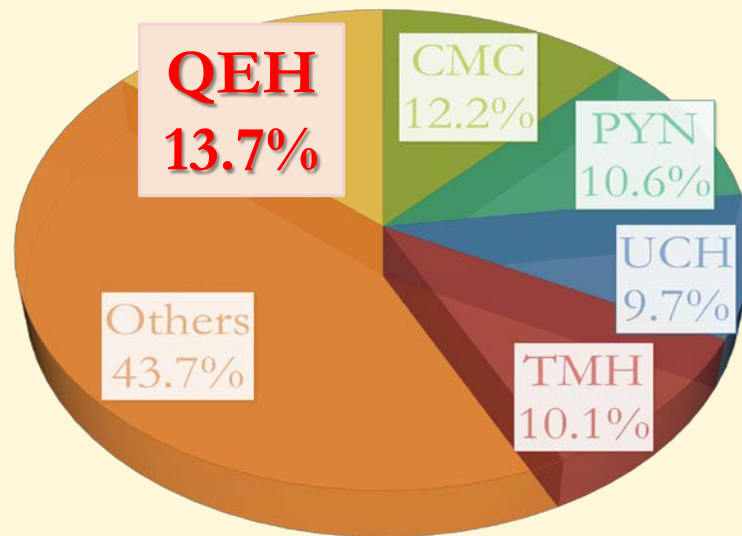
Au ILY(1), Chan ACM(1), Lee KB(2), Chui KH(2), Lee MWH(2), Chan DWL(1), Chow IHW(1), Yung BPK(1), Ng VTW(1)

(1)Physiotherapy Department, Queen Elizabeth Hospital

(2)Department of Orthopaedics & Traumatology, Queen Elizabeth Hospital



Percentage of headcount of admission to Hospital Authority with hip fracture in the past 5 years



To investigate the correlation of sarcopenia and different physical-performance factors

Methodology

Ethical approval was obtained from the KCC/ KEC
Research Ethics Committee/ Institutional Review Board

Retrospective Study

Muscle Mass

RASM (Relative appendicular skeletal muscle mass index)
measured by **DEXA**
(Dual-energy X-ray absorptiometry)
(within 1 month of admission)



Muscle Strength

HGS (Handgrip strength)
of dominant and non-dominant side
(within 2 days of admission)

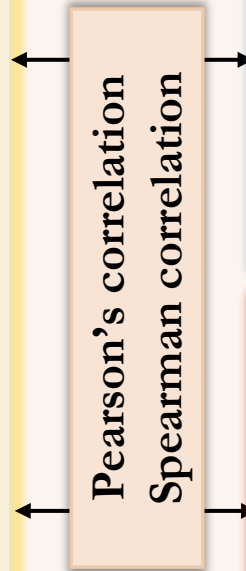


Physical Performance

NMS (New mobility score)
MFAC (Modified functional ambulation classification)
MBI (Modified barthel index)
(within 2 days of admission)



Pearson's correlation
Spearman correlation



Data Analysis

Prevalence of Sarcopenia: Criteria by Asian Working Group for Sarcopenia

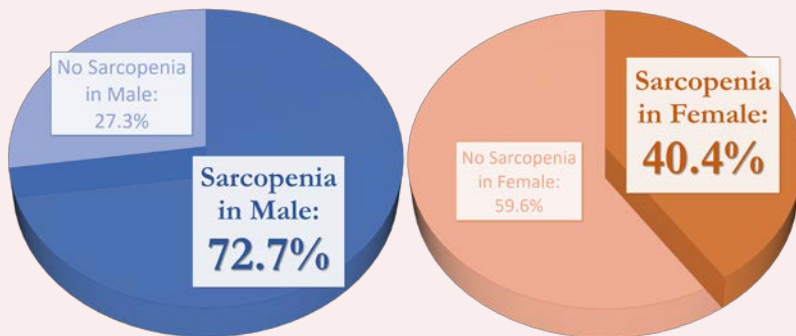
Results

n = 175

Mean age:
82.7±7.3 years

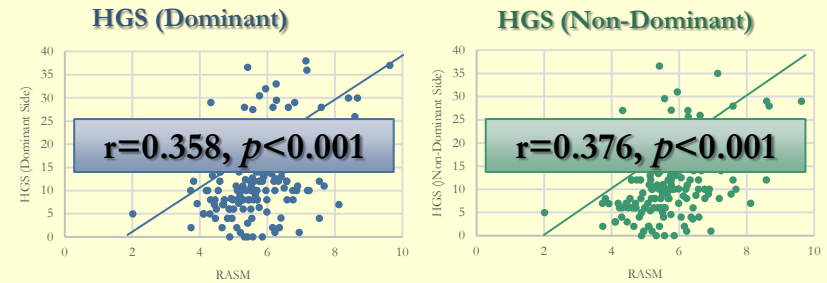
66 males, 109 females

Prevalence of Sarcopenia in Male and Female Patients with Hip Fracture

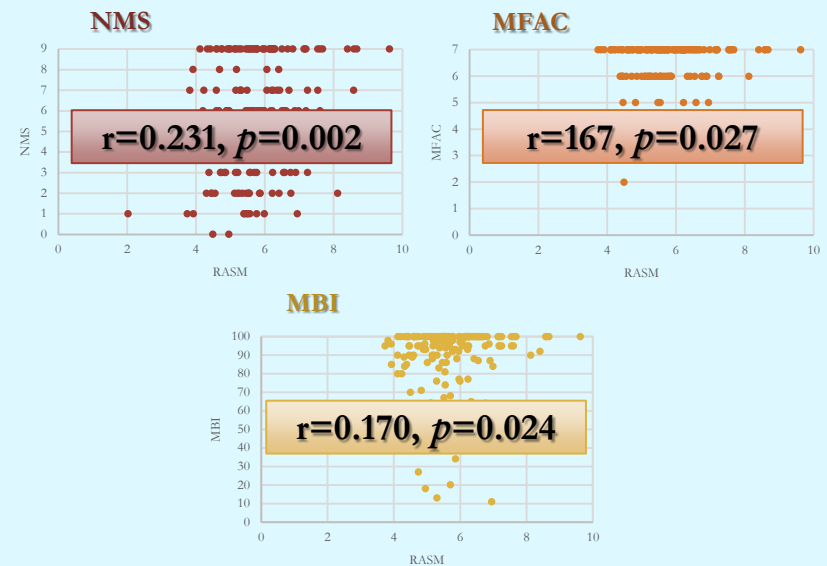


Correlation of RASM and different physical factors

Moderate Relationship



Weak Relationship



RASM is positively correlated with HGS, NMS, MFAC, MBI



Discussion



**Medical Social
Collaboration
「醫社合作」**



**Subsequent Fall
Prevention**

**Shortening of
DEXA Waiting
Time**

Conclusion

Prevalence of sarcopenia in patients with hip fracture is **high**

Muscle mass (by DEXA) is positively **correlated with HGS, NMS, MFAC & MBI**

HGS & NMS can be **easily administered** clinically with **low cost** & used as **potential screening tools for sarcopenia** in geriatric patients with hip fracture

There is potential **Medical Social Collaboration** for skill transfer to community partnership to provide extension of care

