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MOBILITY ISSUES ARE AN INCREASING CHALLENGE AND A GLOBAL PUBLIC HEALTH CONCERN

1.71 billion

conditions worldwide

Leading contributor to global

Significantly limits mobility and dexterity reducing QoL and ability to participate in society



Due to our ageing population the number of people living with musculoskeletal functional limitations is rapidly increasing

>1 in 4 adults



do not meet the global recommended levels of physical activity, with even greater prevalence in higher income countries

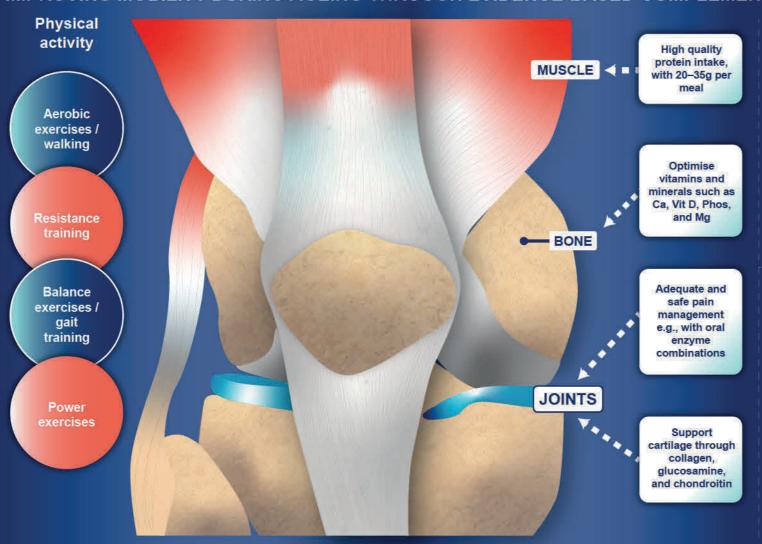
Those who are insufficiently active have

20%-30%

increased risk of death

XXXXXXXXXX

IMPROVING MOBILITY DURING AGEING THROUGH EVIDENCE-BASED COMPLEMENTARY APPROACHES



International Expert Groups Recommend Higher Protein Intake for Adults >65 years

Protein levels

for Adults

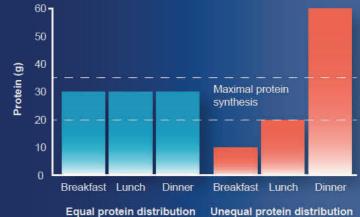
Current Recommendation



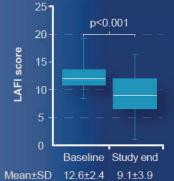
kg: body weight

Maximise Protein Synthesis with Even Distribution of Protein Throughout the Day's Meals

Expert Recommendations

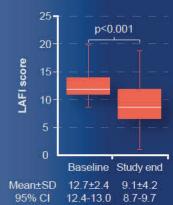


Comparable Efficacy with a Superior Safety Profile: Oral Enzyme Combination with Bromelain/Trypsin/Rutin



95% CI 12.3–12.9 8.7–9.6

Diclofenac (NSAID)

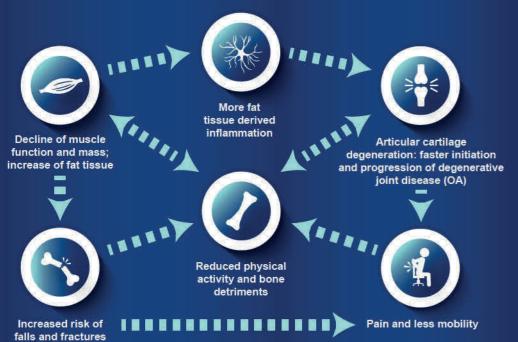


LAFI: self-assessment of OA-related joint pain and functional disability in daily life

Measure functional capacity (handgrip strength, walking speed,

chair rise test balance)

ADDRESSING ALL ASPECTS OF THE MUSCULOSKELETAL SYSTEM IS NECESSARY TO BREAK THE VICIOUS CYCLE



THE IMPACT OF AGEING CAN BE SEEN AS EARLY AS 40Y

Peak muscle and bone mass

20-30

years old

years old

Approximately 1%/
year average loss of

40-50

muscle mass begins 2-5 times faster loss of muscle strength

4

50–60 years old

Bone loss with a decline in mineral density; prevalent in females due to menopause

30% of postmenopausal females have osteoporosis, and over 40% of them will have fragility fractures in

oor diet, sedentary lifestyle, comorbidities, or injuries will hasten this progression

*

60-70

years old

Cartilage that lines the

joints tends to thin and

efficiency of repair mechanisms are reduced

Ligaments and tendons

become less elastic and

Over 70 years old

Significant muscle and strength loss, declining to <50% in the 80s compared with peak

Percentage of body fat increases, along with risk of health problems such as diabetes

Food intake often declines, increasing risk of calorie-protein malnutrition



Assess dietary intake (ensure higher protein across the day and nutritional adequacy including nutrients for bone health)

TOP RISKS TO SCREEN FOR:



ACRONYMS

Ca: calcium; Cl: confidence interval; LAFI: Lequesne Algofunctional Index; Mg: magnesium NSAID: non-steroidal anti-inflammatory drug; OA: osteoarthritis; Phos; Phosphorus; QoL: quality of life; SO: standard deviation; Vif D: Vitamin D.

Please click here for references.