

# **Bone Health 2023**

These cue cards are created with the sole intention of providing general advice and guidance for people of all ages.

The information has been collated by members of the Physiotherapy Dept and the Dietetic Dept in St Michael's House. The references for the exercise and dietary information are included on each information sheet.

If you have any queries about any aspect of the information shared and its relevance to you, please consult a health care professional.

If you are returning to exercise after a break, then start with short sessions (10 to 15 minutes). Add five minutes to each session, increasing every two to four weeks. Gradually build up to being active at least 30 minutes a day for most days of the week.

If you have any concerns, please contact a healthcare

professional for advice first.



Bones growing in size.

#### **Diet**

Important to have diet rich in **calcium** for example milk, cheese, yogurt (it is important to have **3 portions** of **calcium a day**) and **Vitamin D** for example eggs, oily fish, fortified cereals and milk and naturally from sunlight.

## **Recommended Daily Allowance**

Calcium: 800 mgs daily

Ref: IOS, 2023

Vitamin D: 400 iu daily (10 mcg)

Ref: FSAI, 2020



#### **Exercise**

Moderate to vigorous intensity activity for at least **60 minutes every day** to include muscle-strengthening, flexibility & bone-strengthening exercise 3 times a week **Examples of appropriate exercise include**: crawling, climbing, tumbling, rolling, running, playground equipment, gymnastics & dancing.

Ref: HSE National Physical Activity Guidelines for Ireland



Bones growing in size.

#### **Diet**

Important to have diet rich in **calcium** for example milk, cheese, yogurt (it is important to have **3 portions of calcium a day**) and **Vitamin D** for example eggs, oily fish, fortified cereals and milk and naturally from sunlight.



Calcium: 800mgs daily

Ref: IOS, 2023

Vitamin D: 400 iu daily (10 mcg)

Ref: FSAI, 2023

#### **Exercise**

Moderate to vigorous intensity activity for at least **60 minutes every day** to include muscle-strengthening, flexibility & bone-strengthening exercise 3 times a week

**Examples of appropriate exercise include** running, climbing, gymnastics, team sports, racquet sports, dancing, hiking, ice skating, jump-rope

Ref: HSE National Physical Activity Guidelines for Ireland







Bones growing in size and density.

#### Diet

Important to have diet rich in **calcium** for example milk, cheese, yogurt (it is important to have **5 portions** of **calcium a day**) and **Vitamin D** for example eggs, oily fish, fortified cereals and milk and naturally from sunlight.

## **Recommended Daily Allowance**

Calcium: 1200 mgs daily

Ref: IOS 2023

Vitamin D: 600 iu daily (15 mcg)

Ref: FSAI, 2023

#### **Exercise**

Moderate to vigorous intensity activity for at least **60 minutes every day** to include muscle-strengthening, flexibility & bone-strengthening exercise 3 times a week **Examples:** running, climbing, gymnastics, team sports, racquet sports, dancing, hiking, ice skating, jump-rope Ref: HSE National Physical Activity Guidelines for Ireland





Bones growing in density and strength

#### Diet

Important to have diet rich in **calcium** for example milk, cheese, yogurt (it is important to have **3 portions** of **calcium a day**) and **Vitamin D** for example eggs, oily fish, fortified cereals and milk and naturally from sunlight.

## **Recommended Daily Allowance**

Calcium: 800 mgs daily

Ref: IOS, 2023

Vitamin D: 600 iu daily (15 mcg)

Ref: FSAI, 2023

#### **Exercise**

Moderate to vigorous intensity activity for at least **30 minutes every day** to include musclestrengthening, flexibility & bone-strengthening exercise 3 times a week

**Examples:** running, climbing, gymnastics, team sports, racquet sports, dancing, hiking, ice skating, jump-rope

Ref: HSE National Physical Activity Guidelines for Ireland







From 30-45 years adults are maintaining acquired peak bone mass. From 45 years of age natural bone loss is occurring. The priority now is to maintain bone to reduce rate of bone loss.

Important - in menopausal women there is a rapid bone loss due to reduction in oestrogen.

#### **Diet**

Important to have diet rich in **calcium** for example milk, cheese, yogurt, it is important to have **3 portions** of calcium **a day** and **Vitamin D** for example eggs, oily fish, fortified cereals and milk and naturally from sunlight.

## **Recommended Daily Allowance**

Calcium: 800 mgs daily

Ref: IOS, 2023

Vitamin D: 600 iu daily (15mcg)

Ref: INDI, 2023

## **Important**

Bone Health medication **should always** be taken as prescribed.



### **Exercise**

Moderate intensity activity **for at least 30 minutes a day 5 days a week** (or 150 mins a week).

**Examples:** brisk walking, running, team sports, racquet sports, dancing, hiking, indoor/outdoor gym equipment, gardening, Pilates, own body-weight workout, resistance bands, tai chi, martial arts, low impact aerobics Ref: HSE National Physical Activity Guidelines for Ireland

Bone Health Happy Bones 2023

From 30-45 years adults are maintaining acquired peak bone mass. From 45 years of age natural bone loss is occurring. The priority now is to maintain bone to reduce rate of bone loss.

#### **Diet**

Important to have diet rich in **calcium** for example milk, cheese, yogurt, it is important to have **3 portions** of calcium **a day** and **Vitamin D** for example eggs, oily fish, fortified cereals and milk and naturally from sunlight.

# **Recommended Daily Allowance**

Calcium: 800 mgs daily

Ref: IOS, 2023

Vitamin D: 600 iu daily (15mcg)

Ref: FSAI, 2023

## **Important**

Bone Health medication **should always** be taken as prescribed.



#### **Exercise**

Moderate intensity activity for at **least 30** minutes a day 5 days a week (or 150 mins a week)

**Examples**: brisk walking, running, team sports, racquet sports, dancing, hiking, indoor/outdoor gym equipment, gardening, Pilates, own bodyweight workout, resistance bands, tai chi, martial arts, low impact aerobics.

Ref: HSE National Physical Activity Guidelines

for Ireland

From 45 years of age natural bone loss is occurring. The priority now is to maintain bone to reduce rate of bone loss.

#### **Diet**

Important to have diet rich in **calcium** for example milk, cheese, yogurt, it is important to have **3 portions** of calcium **a day** and **Vitamin D** for example eggs, oily fish, fortified cereals and milk and naturally from sunlight.



Calcium: 800 mgs daily

Ref: IOS, 2023

Vitamin D: 600 iu daily (15mcg)

Ref: FSAI, 2023

## **Important**

Bone Health medication **should always** be taken as prescribed.



#### **Exercise**

Moderate intensity activity for at **least 30 minutes** a day 5 days a week (or 150 mins a week)

**Examples**: brisk walking, running, team sports, racquet sports, dancing, hiking, indoor/outdoor gym equipment, gardening, Pilates, own bodyweight workout, resistance bands, tai chi, martial arts, low impact aerobics.

Ref: HSE National Physical Activity Guidelines for Ireland



Bone development occurs at a different rate in a person with an intellectual disability. This may be due to reduced movement, dietary intake, medical conditions and some medications.

#### **Diet**

Important to have diet rich in **calcium** for example milk, cheese, yogurt, it is important to have **3** portions **for adults** or **5 portions** of calcium **a day for teenagers** and **Vitamin D** for example eggs, oily fish, fortified cereals and milk and naturally from sunlight.

# **Recommended Daily Allowance**

**Calcium 1-3 yrs** 800 mgs daily, **4-10 yrs** 800 mgs daily, **11-17 yrs** 1200 mgs daily, **20-30 yrs** 800 mgs daily, **Over 30 yrs – Old Age** 800 mgs Ref: IOS, 2023

Vitamin D 1-10 yrs 400 iu daily (10mcgs), 11-65 yrs 600 iu (15mcgs), > 65 yrs Healthy Older Adult 600iu (15 mcgs), > 65 yrs Housebound Older Adult 800 iu (20mcg)

Ref: FSAI, 2023

## **Important**

Bone Health medication **should always** be taken as prescribed.



#### **Exercise**

1-18 year - Exercise for 60 minutes every day 18+ years - Exercise for 150 minutes per week

# Be as active as ability allows

**Examples**: walking, running, jumping, hopping, dancing, gardening, hiking, tai chi, marital arts, racquet sports, team sports, low impact aerobics, low impact aerobics, resistance bands, weights, gardening.

Ref: HSE National Physical Activity Guidelines for Ireland

Happy Bones 2023

Bone Health

Person with an intellectual disability

Natural bone loss with age – lower bone mass.

#### **Diet**

Important to have diet rich in **calcium** – e.g. milk cheese yogurt, **3 portions a day** 

**Vitamin D** – e.g., eggs, oily fish, fortified cereals and milk and naturally from sunlight.



Calcium: 800 mgs daily

Ref: IOS, 2023

Vitamin D:

Healthy Older Adults 15mcgs or 600 iu daily, Housebound

Older Adults 20mcg or 800iu

Ref: FSAI, 2023

## **Important**

Bone health medication in older adults living in residential care settings with osteoporosis **should always** be continued as prescribed.







Happy Bones 2023

#### **Exercise**

Moderate intensity activity for at **least 30 minutes a day 5 days a week** (or 150 mins a week). Focus on aerobic activity, muscle strengthening and balance.

**Examples:** walking, running, dancing, gardening, Pilates, own body-weight workout, resistance bands, tai chi, martial arts, low impact aerobics

Ref: HSE National Physical Activity Guidelines for Ireland

Over 65yrs