# I'm Older But Not Old

A Positive Ageing Forum presented by Aged Care Psychiatry Service

Eastern Suburbs Mental Health Service
South Eastern Sydney Local Health District
24 October 2017

### Staying Upright Staying Independent



#### **Professor Jacqueline Close**

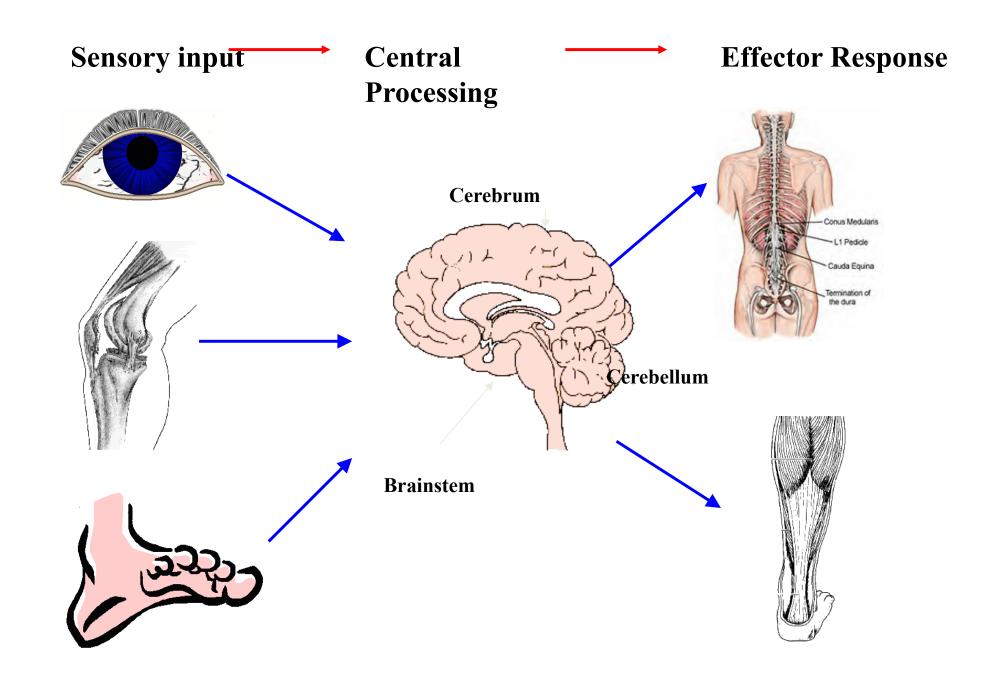




#### Falls are common

- 33% of people age 65+ will fall each year
- More common with increasing age
- Leading cause of accident related death in people aged 65+
- Falls more common in housebound and institutional residents
- Hip fracture is one of most serious consequences
- 25-33% of those who sustain a hip fracture are dead with a year

# **Staying Upright**



#### J. H. Sheldon – the grandfather of falls

J. H. SHEEDON, C.B.E., M.D., F.R.C.P.

themselves is such a commonplace of experience that and, particularly, of mental defect is so much greater it has been tacitly accepted as an inevitable aspect of The environment contributed a quota to the causation ageing, and thereby deprived of the exercise of curiosity. of 224 falls, whereas the cause lay within the old person The literature, in fact, on what has always been a trial in the remaining 276, though effective separation i for the elderly and is now becoming a problem for the difficult. Thus, while in some of the accidental fall community is very meagre (Sheldon, 1948; Scott, 1954; a younger person would also have fallen, in many other Droller, 1955: Hobson and Pemberton, 1955: Howell, 1955; DeLargy, 1958; Boucher, 1959; Exton-Smith, practical importance or the intrinsic interest of the subject. An essential preliminary to further investigation is a knowledge of what actually happens, and the present paper is an attempt to meet that need by an account of the natural history of these falls.

The inquiry was directed at old people living at home, as follows: since the hospital population of old age has a heavy pathological bias, and, in addition, faces postural risks different from those of the community at large. This paper presents the results of an inquiry into 500 falls which happened to 202 individuals-86 had been brought to the casualty department of the Royal Hospital.

The liability of old people to tumble and often to injure old people (Fine, 1959), where the incidence of physics balance would have been retained; for old people complain bitterly of inability to preserve their balance 1959: Fine 1959), and hears little relation to either the as they did when younger, saving, "Once you're going you've got to go "-a remark which reveals a consider able problem in defective physiology.

There were 171 falls (34% of total) in 125 individuals

On stairs
Missing last step or steps 15
Poor illumination
Vertigo 12
Various 23
Slipping 49
Falling over unexpected objects
Dark
Various causes 31



"The liability of old people to tumble.... is such a commonplace experience that it has been tacitly accepted as an inevitable aspect of ageing and thereby deprived of the exercise of curiosity

# Stroke & Falls

Patients with stroke rarely fall because they walk slowly and concentrate hard

**Lord Brain 1964** 

## Causes of Falls

- D Drugs and alcohol especially centrally acting medications
- A Age related physiological changes –
   changes in balance, gait speed, eyesight etc
- M Any acute medical problem. Also specific diseases such as stroke, dementia, depression, Parkinsonism.
- E Environmental hazards



# **Drugs**



Search com / Once Disco





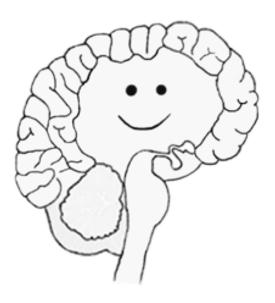


### Age Related Physiological Changes

- Reduced walking speed
- Decreased strength
- Poorer balance
- Slower reaction times

#### **Medical Conditions**

- Stroke
- Depression
- Dementia
- Parkinson's disease



# **Environment**







### **How to Prevent Falls**

#### **Exercise**

- Must challenge balance
- Need to be doing the exercises for about 3 hours a week

- Walking is <u>not</u> a falls prevention strategy
- Housework doesn't count as exercise





#### **Medication review**







& Stock.com/ Once Ding





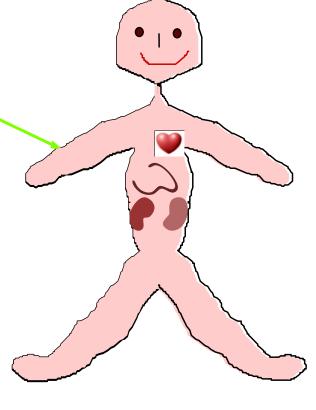


#### **Vitamin D**

Synthesise vitamin D in the skin

Convert to 25-OH D
In the liver

Convert to 1-25 di-OH D in kidney



Daily intake - 1,000iu/day

Aim for vit D level >50nmol/L

Consider liquid form especially for people with very low vitamin D levels

Neurocognitive performance

**Nervous tissue** 

**Cardiac benefits** 

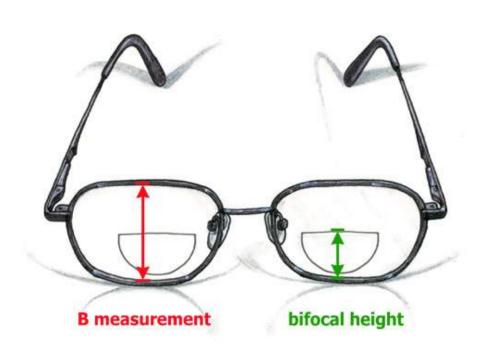
Protective against malignancy

**Bone health** 

**Muscle function** 

**Prevents falls** 

### **Multifocal and Bifocal Glasses**





# Occupational home assessment



# **Cataract surgery**



# Podiatry and good footwear







# New Research NeuRA



### **iFOCIS**

- Trial to prevent falls in people with dementia
- 310 people recruited
- Intervention is home based exercise and home safety intervention
- Focus is on preserved cognitive abilities
- Results due Aug 2018

# smart step

A cognitive exercise training system for people aged 65+ years



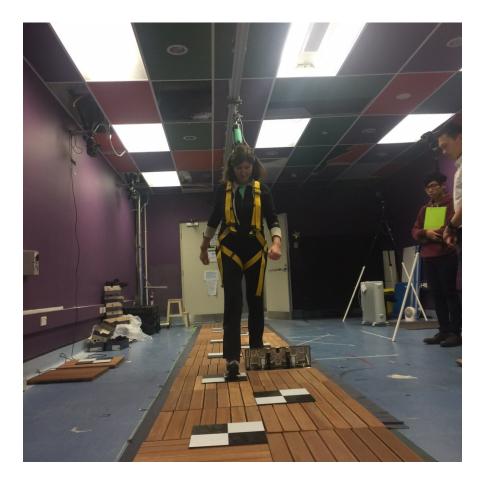


#### The smart±step study aims to investigate:

 the benefits of balance and brain training on physical and cognitive functions, general health and accidental falls.

# Slip and trip training





#### Conclusions

- Falls are common
- They can impact on independence
- Risk factors are well established
- Some evidence to tell us how to prevent falls
- More research needed