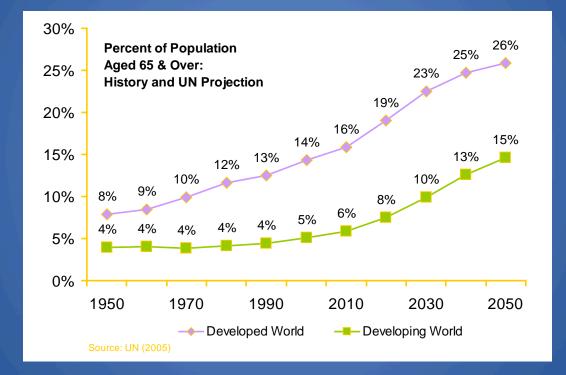
Adjusting for the Cognitive Effects of Normal Aging in the Work Place Janet Leathem Massey University – Wellington New Zealand

Demographics

- Population of older individuals (60+) rose from 205 million in 1950 to 606 million in 2000 (UN, 2002).
 Projected to reach the 2 billion mark by 2050.
- New Zealand, 2001 (12% of the population) aged 65 or over (Statistics New Zealand [SNZ], 2009).
 Projected 25% of population by 2026.

Demographics



Demographics: Workforce

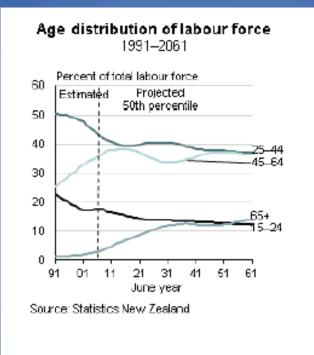
Number of people 65+ in workforce

- 1991 (1/16)
- 2012 (1/5)
- 2020 (1/3)
- 2036 (9-15% of labour force)
- 2061 (10-18% of labour force)

Largest growth between 2011 and 2031



Demographics: Workforce



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Cognitive Effects of Normal Aging

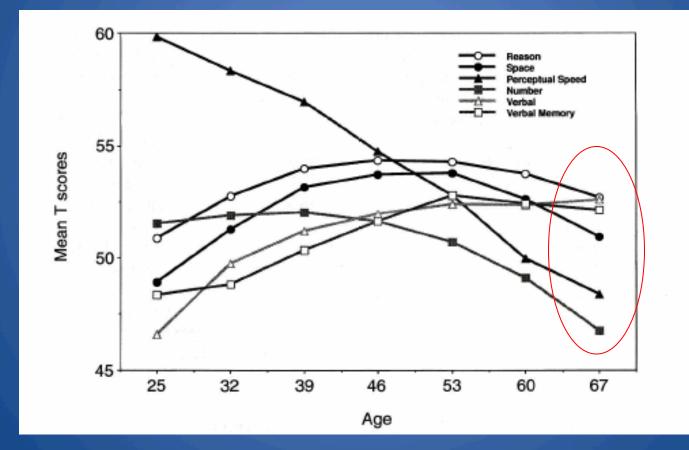
Better or same

- Verbal & Language skills
- General knowledge, Vocabulary
- Wisdom

Lower

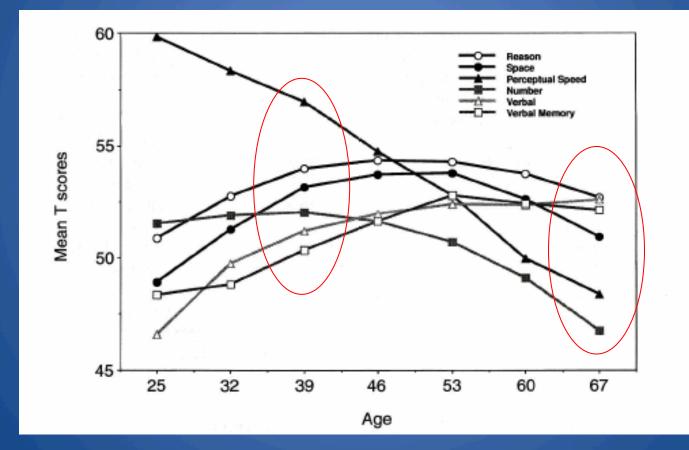
- Information processing speed
- Working memory
- Divided/selective attention
- Memory (new material)

Normal Aging: Cognition



(Willis & Schaie, 1999)

Normal Aging: Cognition



(Willis & Schaie, 1999)

Summary

- People are living longer
- Increasingly higher % of older adults in the general population.
- Choosing to remain in workforce longer
- Age related decline in some areas of cognition
 - Attention
 - Information processing Speed
 - Working memory
 - Executive function
 - Motor speed
- Pattern of cognitive strengths & weaknesses different than when younger
- Work performance concerns

High school principal; 63 years; living alone

– Lupus Erythematosus 40 years

- Cardiac & Urinary tract infections
- Steroids use increasing 35 years
 - Hip replacements

High school principal; 3 adult children; living alone

– Lupus Erythematosus 40 years

Cardiac &
 Steroids us
 Hip repla



High school principal; 3 adult children; living alone

• Problems

- Leaving important things behind
 - Forgot documents when flying to another city for meeting
- Forgetting why went somewhere
 - Standing in room wondering what she went there to do
- Making errors
 - Spelling errors in emails and documents
- Names
 - Thinking quickly of peoples names when she meets them again
- Forgetting to do things
 - Wondering whether she has taken medication
- Near accidents
 - Went through a red light
 - Failed to check for other traffic before moving off
- Depressed
 - About the future

High school principal; 3 adult children; living alone

• Problems

Leaving important things behind

- Forgot documents when flying to another city for meeting
- Information processing speed low average
 Motor speed above average

High school principal; 3 adult children; living alone

• Problems

Leaving important things behind

• Forgot documents when flying to another city for meeting

Test results

Information processing speed low average

Motor speed above average

Moving faster than she is giving herself time to think

High school principal; 3 adult children; living alone

• Problems

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High school principal; 3 adult children; living alone

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Normal Aging

- Attention
- Vulnerability to distraction
- Information processing speed
- Worrying more distraction

High school principal; 3 adult children; living alone

• Problems

- Leaving important things behind
 - Forgot documents when flying to another city for meeting
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 - Standing in room wondering what she went there to do

Normal Aging

- Attention
- Vulnerability to distraction
- Information processing speed
- Worrying more distraction

Doesn't attend properly at outset, so doesn't learn, distraction, when can't remember doesn't give self time to think, then immediately worries about future, leading to more distraction.

High school principal; 3 adult children; living alone

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Leaving important things behind

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Bottom Line

- It's no wonder that older adults experience difficulty
- There is no reason for them to leave work if:
 - Awareness of effects of normal aging on cognition and adjust for them
 - Allow time
 - Attend
 - Avoid distraction-one thing at a time
 - Organise, plan & simplify to assist learning
 - Don't stress

