



# Dr Karim Mahawish

Consultant in General  
Geriatric & Stroke Medicine  
Rotorua Hospital

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# The Acutely Dizzy Patient

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# Scope

- Targeted history
- Tips on examining the otoneurological system
- Acute vestibular syndrome
- Miscellaneous conditions
- ?Syncope

# Background

- By age of 60, one third of the population has suffered a balance disorder
- Associated with falls & increased mortality

# Patient 1: Mr PT

- 56 year old
- Presents with 2 day history of dizziness
- What else would you like to know?



| Variable              | Kroenke, et al 1992 |
|-----------------------|---------------------|
|                       | Primary care        |
| <b>Patients</b>       | 100                 |
| <b>Average age</b>    | 46                  |
| <b>Cause, percent</b> |                     |
| Vertigo               | 54                  |
| BPPV                  | 16                  |
| Vestibular neuronitis | 4                   |
| Other vestibular      | 10                  |
| Central               | 10                  |
| Migraine              | 1                   |
| Nonspecific</         |                     |

# Traditional method

- Vertigo – Vestibular causes
- Pre-syncope – Cardiovascular
- Disequilibrium – Neurological causes
- Non-specific – Psychiatric/metabolic/drug effects

# Triage, Timing & Triggers

- Triage (Red flags):
  - Abnormal vital signs
  - Altered mental state
  - Sudden, severe, sustained head or neck pain
  - Progressive hearing loss
  - Neurological symptoms: diplopia, focal symptoms, dysphagia
  - Cardiovascular symptoms: chest pain, dyspnoea, syncope

# Timing

- Sudden onset/gradual
- Transient or episodic
- Continuous
- Duration
- Frequency
- Associated symptoms

# Triggers

- Hanging up washing/looking at the sky/turning over in bed
- Changes in posture
- Relieving factors/avoidance behaviours



# Physical Examination

## Pre-syncope

- Murmurs
- Orthostatic blood pressure changes
- (Note – not carotid bruit)

## Vertigo

- Neurological deficit
- Detection of nystagmus
- Positional changes in symptoms

## Mr OT cont.

- Preceding RTI
- Gradual onset vertigo
- Now unsteady when walking and nauseous
- OE
  - Uni-directional nystagmus
  - No focal neurological deficit

# Examination

# Nystagmus

- Named for the fast phase
- Fast phase – reflex resetting mechanism bringing eyes back to original position
- Slow phase – movement induced by vestibular pathology
- Physiological nystagmus may be induced if gaze  $> 30$  degrees off the midline



# Vestibular Neuritis Nystagmus



# HiNTS Test –

# Head impulse test







# Normal HiNT

# Abnormal HiNT



# Test of Skew

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# HiNTS Test

# V









# Effect of alte





# Post

























































