Cerebellar Disease Focussed Examination



What happened when you first presented with this

Do you have other problems, such as problems with

Do you have problems with buttons and shoe laces?

1. Resting (rest hands on lap and close eyes and count

2. Postural tremor (hold arms out) e.g. benign essential tremor; drugs (salbutamol), hyperthyroidism

3. Action tremor (finger nose test) e.g. cerebellar

Focussed questions

How is it affecting you?

When is your tremor worst?

Turning over in bed at night?

Getting in and out of your car?

down from 20) e.g. Parkinson's

balance or co-ordination?

Examining for tremor

condition?

NB. the instructions may be non-specific e.g. Examine this patient with a tremor (may be Parkinson's or cerebellar) or examine this patient neurologically. In this case, approach by asking a few focussed questions and finding out which type of tremor/condition is present and then proceed with the relevant focussed examination to elicit all the signs of the condition.

Introduction

 $\underline{\mathbf{W}}$ ash hands, $\underline{\mathbf{I}}$ ntroduce self, ask $\underline{\mathbf{P}}$ atients name & DOB & what they like to be called, $\underline{\mathbf{E}}$ xplain examination and get consent

General observation

General

• e.g. wheelchair (MS), neurological signs, posture, signs of neglect (alcohol)

Gait (walk with them in case they fall)

- Sit in chair to stand with arms folded (truncal ataxia)
- Walk away then heel toe if possible while walking back (ataxic gait)

Posture

- Stand with feet together
- Romberg's test if steady: ask patient to close eyes and assess stability (sensory ataxia)

NOW...work down the body

Face

Face

- H test for extraocular muscle function and pause at lateral gaze (nystagmus; saccades)
- Look from one target to another (hypometric saccades)

Speech

- Say "West register street" and "baby hippopotamus" and "british consitiution" (slurring; staccato i.e. jerky speech)
- Tongue: move side to side

Focussed Upper limbs

- Pronator drift: Ask patient to hold arms out fully extended with palms facing upwards and close their eyes (pronator drift = weakness; upward drift = cerebellar lesion).
- Rebound test: while patient's arms still held up, push patient's wrists down briskly and then quickly let go (accentuates upward cerebellar drift)
- Hypotonia
- Coordination
 - Finger-nose test (Intention tremor and dysmetria)
 - Hand slapping (dysdiadokinesis)

Focussed Lower limbs

- Hypotonia
- Coordination (heel-shin test)

To complete

- Fundi for papilloedema (space occupying lesion)
- Full neurological exam
- Examine CN 5, 7, 8 to exclude cerebellar-pontine lesion
- Summarise and suggest further investigations you would do after a full history

CAUSES= vascular lesion at brainstem, Friedreichs ataxia, alcohol, space occupying lesion, demyelinating lesions, Phenytoin (note gum hypertrophy).

Midline lesion = gait and truncal ataxia. Hemisphere lesion = ipsilateral signs

SIGNS=

Dysdiadochokinesis Ataxia/dysmetria

Nystagmus

Intention tremo

Slurred/staccato speech

Hypotonia

PAST pointing