### Effective Independent Medical Evaluations

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### Dr. Wojo's Specialty

- Emergency Medicine
- Internal Medicine
- Podiatric Medicine
- Osteopathic Medicine
   Back Pain
- Toxicology
- Occupational Medicine
  - Carpal Tunnel Syndrome, Hernias
  - Unusual Cases

### IME

• Independent

• No prior relationship

• Medical

- Forensic, Medical, Evidence-Based
- Evaluation
- Standard History and Physical

### Characteristics Of A Quality IME

- Independent
- Medical
- Evaluation
- Things to Consider
- Reports

# Characteristics Of A Quality IME : Medical

- Not a physician-patient relationship
- Medical records and other documentation available
- Apply scientific basis
- Appropriate specialty or training

# Characteristics Of A Quality IME : Evaluation

- Apply scientific principles
- Assess available information and data
- Thorough documentation
- Identify and explain inconsister
  Validate facts
- Demonstrate functional abilities
- Seek ecological validity

### Information Review

- Evaluate the history
- Assess inconsistencies
- Note surveillance
- Review health issues and lost time
- Clarify diagnosis
- Review medical treatment

### **Return to Work Issues**

- Determine fitness for duty
- Evaluate safe return to work
- Define disability
- Utilize evidence-based medical guidelines
- Identify restrictions

### **Dispute Resolution**

- Evaluate causation
- Second opinion
- Confirm impairment and liability

### **Referral Letter**

- Examinee Profile, Work History, Status
- Describe case and dates
- Purpose of referral and specific questions
- Contact information for follow up
- Diagnosis
- Treatment
- Work and ADL issues
- Disability

### Additional Information

- Solid facts surrounding the case
- Context of opinion requested
- Appropriate medical records.
- Radiographs
- Laboratory Studies
- Job description

### **Physical Examination**

### Physical Exam

- Determine the correct diagnosis
- Proficiency is attained through practice
- Typical format for recording the exam includes:
  Initial impression
  HEENT
- NeckThoraxAbdomen
- Extremities

- Moaning
- Pain Behaviors

### Eyes

- Constricted Pupils
- Ptosis-Droopy eyelids
- Cross eyed
- Nystagmus-"Jumpy Eyes"
- Blood Shot

### Neck

- Lymph nodes



### Lung Auscultation

- Tracheal breath sound
- Bronchovesicular
- Vesicular
- Bronchial

- Adventitious
  Wheeze
  Crackles
  Rhonchi
  Stridor
  Pleural friction rub

### Precordium-Heart Exam

- Heart topography
- Point of maximal impulse PMI
- Heart sounds



### Extremities

- Clubbing
- Cyanosis
- Pedal edema
- Capillary refill
- Peripheral skin temperature

### Back Exam

- Abnormal forward rounding of the upper back (> 40 to 45 degrees)
- Causes:
- Developmental problems, degenerative diseases (arthritis), osteoporosis with compression fractures, trauma
- Severe cases:
   Can affect lungs, nerves, causing pain and other problems





- Standing Posture:
- Nerve root impingement (lateral shift  $\downarrow$  pressure)
- Erector Spinae Muscle Tone:
- Unilateral hypertrophy or atrophy

# Palpation: Thoracic Spine Spinous Processes

- Supraspinous Ligaments:
- Fills space between the spinous processes
- Costovertebral Junction:
- Articulation between ribs and thoracic vertebrae
   Only palpable on slender individuals
- Trapezius:
- Origin to insertion
- Rhomboids and levator scapulae lie deep to middle/upper traps
- Paravertebral Muscles
- Scapular Muscles

- Forward slippage of a vertebrae on the one below it ■ L4 and L5 / L5 and S1 ■ Affects 5-6% of males, 2-3% of females
- Causes:
  - Strenuous physical activity (weightlifting, gymnastics, football)

### Types:

- Developmental:
- May exist at birth, or may develop during childhood (generally not noticed until later in childhood/adult life) Acquired:
- Acquired:
   Degeneration: caused by the daily stresses that are put on spine (i.e. carrying heavy items, physical sports)
   Connections between the vertebrae weaken
   Single or repeated force



## Palpation: Sacrum and Pelvis Median sacral crests

- Iliac crests:
- Palpate laterally from PSIS to find iliac crests and anteriorly to locate ASIS (level of symmetry)
   Posterior superior iliac spine
- Gluteals
- Ischial tuberosity
- Greater trochanter
- Sciatic nerve:
- Place thumb on ischial tuberosity and 3<sup>rd</sup> finger on the PSIS.
   2<sup>nd</sup> finger will fall into sciatic notch (nerve most superficial as it passes by ischial tuberosity)
- Pubic symphysis

- Measured with patient standing
- Distance from the fingertips to the floor can be measured (accuracy affected by tightness of hamstrings and calf muscles and scapular protraction)
  - Gravity assists with movement
  - More accurate than hook-lying position
  - Abdominal muscles have to overcome weight of the trunk

- Patient standing (feet shoulder width apart and the hand opposite the direction of the movement resting on the ilium)
- Patient bends trunk laterally (attempt to tough
- fingertips to the ground)
- Distance between the ground and fingertips is measured
- Rotation:
  - Patient is sitting position (stabilizes pelvis and lower extremity)
- Patient rotates shoulder girdles and spinal column

- Patient in hook-lying position
   Examiner brings the knees to the chest by lifting under the knees and thighs and flexing the hip and thoracic spine
- Extension:
- Patient prone (hands flat on table at shoulder level push-up position)
   Patient extends arms, lifting the torso (hips and legs remain of table)
- Rotation:

- Patient in hook-lying position
   Patient's pelvis and legs are rotated to bring lateral portion of the knee towards the table (shoulders remain flat)

### The Neurological Examination

Six Subsets of the Neuro Exam Mental Status Cranial nerves Modes

Sensory

⊙Gait

### What are we checking and how?

**Mental Status** 

### •What?

- Degree of interaction
- Following commands
- Older children: naming objects, simple calculations, extinction, neglect, fund of knowledge
- Difference from baseline

### Language, Speech

- Language
- appropriate content
- other things you can check: repetition, naming objects, reading, writing
- Speech
- dysarthria

### **Cranial Nerves**

- CN 3: Oculomotor Pupil reactivity to light (direct and consensual) and accomadation Extraocular eye movements (superior, medial and inferior recti; inferior oblique)
- CN 4: Trochlear Extraocular eye movements (superior oblique)

- CN 5: Trigeminal Muscles of mastication Facial sensation (V1, 2, 3 divisions)

# Cranial Nerves, continued CN 10: Vagus Phonation Palate elevation CN 11: Spinal accessory Head turn Shoulder shrug

Reflexes
1+: hyporeflexic
More pathologic descriptors: crossed, spreading
Where to check
Clonus
Sustained
Unsustained
Other reflexes: pectoral, grasp, suck, moro, jaw jerk
Plantar response

### Sensory

- Light touch
  Pinprick
  Temperature

- Checking a level
- Romberg- correct positioning!

### Cerebellar

- Finger-nose-finger
- Heel-knee-shin
- Rapid alternating movements





### The Neurological Examination Motor Examination Strength

Medical Research Council Scale

- 5/5 = Full Strength
- 4/5 = Weakness with Resistance
- 3/5 = Can Overcome Gravity Only
- 2/5 = Can Move Limb without Gravity
- 1/5 = Can Activate Muscle without Moving Limb
- 0/5 = Cannot Activate Muscle

Upper Motor Neuron Lower Motor Neuron						
Strength	Į.	Ļ				
Tone	Spasticity	Hypotonia				
DTR's	Brisk DTR's	Diminished or Absent DTR's				
<u>Plantar Responses</u>	Upgoing Toes	Downgoing Toes				
Atrophy/Fasiculations	None	+/-				

### The Neurological Examination Motor Examination

0/4 = Absent

- 1-2/4 = Normal Range
- 3/4 = Pathologically Brisk

• 4/4 = Clonus





### The Neurological Examination Motor Examination

### Involuntary Movements

- Hyperkinetic Movements
  - Chorea
  - Atnet

  - wyocionus
- Bradykinetic Movements
  - Parkinsonism (Bradykinesia, Rigidity, Postural Instability, Resting Tremor)
- Dystonia



### **Clinical Features**

- Pain
- Numbnes
- Tingling
- Symptoms are usually worse at night and can awaken patients from sleep.
- To relieve the symptoms, patients often "flick" their wrist as if shaking down a thermometer (flick sign).

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### **Clinical Features**

- Pain and paresthesias may radiate to the forearm, elbow, and shoulder.
- Decreased grip strength may result in loss of dexterity, and thenar muscle atrophy may develop if the syndrome is severe.



### Physical examination

- Phalen's maneuver
- Tinel's sign
- weak thumb abduction.
- two-point discrimination





### Plantar Fasciitis



- Inflammation and pain of the plantar fascia, usually at its insertion at the plantar medial tubercle of the calcaneous
- Becomes chronic in 5-10% of all patients
- Is not necessarily associated with a heel spur
- Over 90% resolve with conservative treatment

### Plantar Fasciitis Symptoms

Plantar fasciastrained Heel bone

### Weight-bearing pain on arising

- Pain subsides, returns with activity
- Footwear related to pain?

### Plantar Fasciitis Risk Factors

- Weight gain
- Equinus deformity
- Poor shoegear
- Biomechanical abnormalities
- Work Surface

### Plantar Fasciitis Diagnosis



### • Pain on palpation

- Antalgic gait
- Pes planus
- X-ray
- Ultrasound

# Characteristics Of A Quality IME : Reports

• Thoroughly document history and exam

• Organized

- Understandable
- Logic trail
- Distribution
- Timeliness of completion

### Causation

- Evaluation of mechanism of injury
- Are injuries consistent with mechanism?
- Is disability consistent with the accident?
- What is the secondary gain?

### Treatment

- Reasonable and customary?
- Excessive?
- Duplicative?
- Testing reasonable?
- End of healing consistent with evidence based medical literature?

### IME Report

• Clear diagnosis

- Clear treatment plan
- Return to Work status
- Consistency
- Neutral language
- Objective clinical findings
- Clear conclusions on diagnosis, treatment, causation, work capacity

