## Cheatography

Case

- 38 y.o.
- Episodic LBP for 7 yrs.

## Pain, onset, character

- LB / pelvic region
- 2-3/10 best
- 6-7/10 worst
- Ache & sharp w/ bending

## AF

- Pain during 3rd trimester & postpartum w/ all 4 pregnancies
- Housework & picking up children

## RF

- Rest & periodic chiro
- SMT (spinal manipulation technique) & STW (soft tissue work) techniques

## Extra

- Asthma since childhood concerned its getting worse (worried there's dampness in house)
- Smokes 20/day for 20 years
- Takes OCP (oral contraceptive pill)

## Psychosocial factors

- Can't read / write well & blames this on getting the MMR vaccine
- Children aren't vaccinated
- Husband passed away last year

## System review

- Non-productive cough in the mornings

## **Physical Examination Findings**

#### Observations

- Appears pale + underweight
- Nicotine stains on hands + fingers
- Slightlower crossed posture
- Levoconvex Tx scoliosis

### ROM

- Levoscoliosis (apex T6)
- AROM Lx: flexion & extension slight limitation at end range w/ discomfort around LS junction
- Small rib hump seen on forward flexion

## Palpations

- QL trigger points
- Glute med, max TTP

## **Clinical tests**

#### Kemps:

- Purpose: assess Lx spine facet joint pain
- Findings: L reproduces POC at LS junction; R -ve

## SLR:

- Purpose: identifies impairment in disc anatomy or nerve root irritation
- Findings: 70° bilat. w/ tight hamstrings

#### Slump's:

- Purpose: detect altered neurodynamics or neural tissue sensitivity
- Findings: Negative (-ve)

## SI springing:

- Purpose: diagnose joint dysfunction
- Findings: mild LBP R>L

#### Faber's:

- Purpose: diagnose hip pathology by attempting reproducing pain
- Findings: mild LBP R>L; no restrictions of hip range

#### Thigh thrust:

- Purpose: provocation of SIJ
- Findings: mild LBP R>L

#### Gaenslens:

- Purpose: diagnose SIJ lesion, pubic symph. instability, L4 nerve root lesion
- Findings: mild LBP R>L

#### Sacral base compression:

- Purpose: diagnose hip pathology
- Findings: mild LBP

#### SIJ compression & distraction:

- Purpose: SIJ sprain or dysfunction
- Findings: no pain

### McGills test:

- assess radiographic Lx instability
- Findings: LBP on part 1, decreased pain on part 2 (positive = Lx-pelvic instability)

#### Active SLR:

- Purpose: assess Lx-Sx nerve root irritation
- Findings: LBP on part 1, decreased pain on part 2

## Discussion

#### Working Dx

- Chronic LBP w/ associated Lx & pelvic functional instability

## Psychosocial

- Pt's circumstances changed dramatically the past year after husband's death
- Now reliant on social support
- Her & her 3 children had to move due to lack of social housing
- Difficulty reading & writing
- On medication for depression & anxiety

#### Communication

- Don't talk to pt about tardiness / psychology

#### Other

- Chronic pain usually psychosocial
- Scoliosis not related to complaint but may be to some of the findings

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## 5002 Case 6 Cheat Sheet by bee.f (bee.f) via cheatography.com/180201/cs/38630/

# Cheatography

## Learning outcomes

#### Dx of LBP:

- Muscle strain: pain, stiffness, & soreness
- Herniated disc: pain, numbness, & tingling in LB, buttocks, & legs
- OA: pain, stiffness, & loss of mobility
- Spinal stenosis: pain, numbness, & weakness in LB, buttocks, & legs
- Spondylolisthesis: LB pain, numbness, & stiffness, as well as numbness & tingling the legs
- Fibromyalgia: widespread pain, including the LB
- Inflammatory arthritis: inflammation & pain

## Scoliosis:

## Definition:

- Spine curvature mild or severe
- Can affect all ages
- Most commonly diagnosed in children & adolescents
- □ Types:
- Idiopathic: most common & cause is unknown
- Congenital: present at birth & caused by abnormal spinal development
- Neuromuscular: caused by neuromuscular disorder (e.g. cerebral palsy or muscular dystrophy)
- Degenerative: caused by degeneration of the spinal discs & joints in the spine (usually seen in adult >65y.)

## □ Symptoms:

- Depend on severity
- Mild: asymptomatic
- Severe: back pain, fatigue, uneven shoulders & hips, & difficulty standing or sitting up straight

## □ Treatment:

- Depends on severity & age
- Mild: may not require treatment, or manual therapy
- Severe: bracing or surgery

## Management of this pt:

- Pain management: NSAIDs, cognitive behavioural therapy (CBT), acupancture, manual therapy, electrotherapies
- Deprivation Physical therapy: improve strength, flexibility, stability, core strength, posture, & overall mobility

- Manual therapy: spinal manipulation or mobilisation (relieve pain & improve mobility), soft tissue therapy to relive muscle tension & improve ROM

- Psychosocial interventions: cognitive-behavioural therapy (CBT) to reduce anxiety & depression related to pain
- Bracing: in severe cases provides support to the affected area
- (Surgery only in severe cases)

## Impact of yellow flags present:

- Prolonged recovery
- Increased disability: psychosocial factors can affect their ability to cope w/ pain & perform ADLs
- Increased healthcare utilisation
- Work-related issues: more economic burdens than this pt already has

- Chronic pain: yellow flags are more likely to develop chronic pain (psychosocial factors can contribute to the development of long-term pain conditions)

## Consider other health concerns present in this pt:

- Non-productive cough: likely due to smoking
- Smoking 20 (30?) cigarettes / day for 20 years
- Unvaccinated
- Underweight & pale: iron-deficiency, malnutrition, chronic stress, or depression

#### Relationship between depression & LBP:

-Shared biological mechanisms: common biological pathways (e.g. abnormalities in the CNS), that contribute to the development & maintenance of both conditions

- Psychosocial factors: chronic pain can lead to -ve psychosocial consequences (e.g. social isolation, reduced physical activity, & poor quality of life), which can contribute to depression

- Stress: chronic stress is linked to development & exacerbation of both depression & chronic pain

- Behavioural factors: pts w/ chronic pain may adopt maladaptive comping strategies (avoidance), which can lead to a -ve spiral of pain, disability & depression

LBP & depression interact in complex ways & treatment has combination of pharmacological & psychosocial interventions (CBT)

#### Changes needed to make w/ clinical procedures & consent to support this pt:

- Holistic approach
- Pt-centred care
- Informed consent
- Multidisciplinary team
- Screening for depression

#### Other tests that should be done:

- Respiratory exam: non-reproductive cough, likely due to smoking
- Wardell sign: how much of the pain is psych. related



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