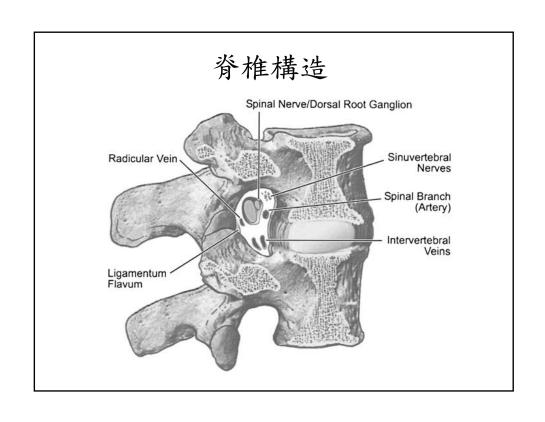
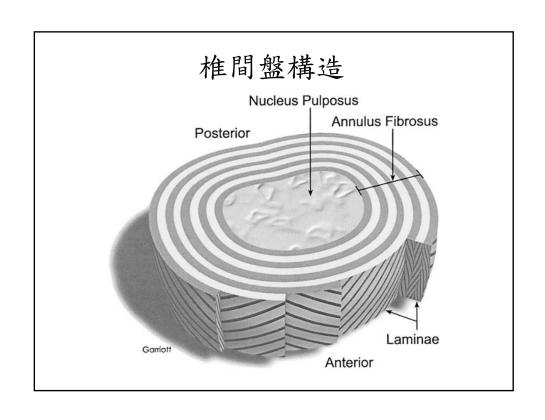
下背痛的治療

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下背痛

- 背痛: 骨科及家醫科常見疾病。
- Acute back pain : self limited
- Chronic back pain: 疼痛持續3個月





下背痛

In USA 2008

- Patient with chronic back pain will see a family physician (65.0%) orthropedists (55.9%) physical therapists (50.5%) chiropractors (46.7%)
- Estimate cost: 12.2 to 90.6 billion

下背痛評估

● 依病史初步分類:

Non-specific low back pain

Back pain with radiculopathy or spinal stenosis

Back pain referred from a nonspinal source

Back pain with another specific spinal cause

下背痛評估

Medical history: osteoporosis; osteoarthritis; cancer

- 2. Physical exam: neurological exam
- 3. Lab: ESR, CBC, CRP; urine routine Ca, Alk-p

下背痛評估

Imaging: X-ray had limited utility in most patient with chronic back pain MRI (CT) for patient with serous or rapid progressed disease Psychosocial issue

Red flags

- Age older than 50 years Fever; chills; recent urinary tract or skin infection; penetrating wound near spine
- Unrelenting night pain or pain at rest
- Progressive motor or sensory deficit
- Saddle anesthesia; bilateral sciatica or leg weakness; difficulty urinating; fecal incontinence
- Unexplained weight loss
- History of cancer or strong suspicion for current cancer
- History of osteoporosis
- Immunosuppression Chronic oral steroid use
- Intravenous drug use Substance abuse
- Failure to improve after six weeks of conservative therapy

Yellow flags

- Affect Anxiety; depression; feeling of uselessness; irritability
- Behavior Adverse coping strategies; impaired sleep because of pain; passive attitude about treatment; withdrawal from activities
- Beliefs Thinks "the worst" or that pain is harmful or uncontrollable, or that it needs to be eliminated (before returning to activities or work)
- Social History of sexual abuse, physical abuse, or substance abuse; lack of support; older age; overprotective family
- Work -Expectation that pain will increase with work and activity; pending litigation; problems with worker's compensation or claims; poor job satisfaction; unsupportive work environment

慢性下背痛治療

- ●一般原則:
- 1.Goals of treatment: to improving pain& function (rather than to cure)
- 2.Unrealistic expectation complete pain relief & return to previous level of activity

慢性下背痛治療

- 設定治療目標: documenting goals & expectations
- 避免過度期望:
 large gap between patient desire & minimal percentage improvement make a treatment worthwhile

慢性下背痛治療

- 治療步驟:
 - Maximal dose of NSAID & scanol Adjunctive medications
- 3. Nonpharmacologic therapy
- 4. Epidural steroid injection or surgical intervention

藥物治療

Acetaminophen: first-line; high safety profile

藥物治療

NSAIDs:

provide similar analgesia as acetaminophen, but have significant gastrointestinal and renovascular adverse effects.

if one class fails, medications from other classes can be tried before abandoning them altogether

Tramadol (Ultram), opioids, and other adjunctive medications may benefit some patients who do not respond to NSAIDs.

藥物治療

Tramadol

weak opioid and serotoninnorepinephrine reuptake inhibitor (SNRI) activity.

short-term improvements in pain and function, but long-term data are lacking. not be used in patients recovering from narcotic addiction.

Adverse effects include drowsiness, constipation, and nausea.

藥物治療

muscle relaxants
 provide similar short-term improvements in pain and function no evidence to support their long-term use for chronic low back pain.

 Sedation is a common adverse effect, and chronic use of benzodiazepines and carisoprodol (Soma) carries the risk of dependency

藥物治療

herbal medications
 effective in short-term trials, but lack
 long-term safety data.
 Harpagophytum procumbens (devil's
 claw), Salix alba (white willow bark, a
 source of salicylic acid), Capsicum
 frutescens (cayenne) plaster
 devil's claw and white willow bark
 appear to be as effective as NSAIDs

藥物治療

Opioids

development of tolerance, hyperalgesia (enhanced pain response to noxious stimuli), and allodynia (enhanced pain response to innocuous stimuli).

The combination of tolerance and hyperalgesia can decrease opioid effectiveness over time. One of the challenges of treating chronic low back pain is differentiating among tolerance, opioid-induced hyperalgesia, and disease progression.

Hyperalgesia involves increasing pain despite increasing opioid treatment

In this situation, the dosage of opioids should be decreased, or patients should be weaned off the medication altogether.

藥物治療

- SNRIs- Selective serotonin reuptake inhibitors, and antiepileptic medications have not been shown to help patients with chronic low back pain.
- Tricyclic antidepressants, is a useful addition to analgesic therapy.
- Gabapentin (Neurontin)may provide short-term relief in patients with radiculopathy

非藥物治療

- 45% of patients with low back pain see a chiropractor,
- 24% use massage,
- 11% get Acupuncture .
- 7% try meditation.
- Acupuncture provides short-term relief of chronic LBP

非藥物治療

- Exercise therapy: stabilized abdomen & back muscle
- Behavior therapy is as effective as exercise therapy for short-term relief of chronic LBP
- rehabilitation programs
- Acupuncture massage and pressure point massage are mildly helpful

非藥物治療

- Spinal manipulation provides modest short- and long-term relief of back pain,
- therapeutically directed style of yoga (Viniyoga) may provide some relief of chronic back pain.

非藥物治療

- Back schools, (?)
- low-level laser therapy, lumbar supports, prolotherapy, (?)
- short wave diathermy, traction, (?)
- tanscutaneous electrical nerve stimulation, ultrasound (?)

Epidural steroid injection

- Epidural steroid injections may help patients with radicular symptoms.
- there is no evidence to support the use of epidural steroid injections in patients without radicular symptoms
- injections are less effective in patients with severe spinal stenosis

Surgery

- Most patients with back pain will not benefit from surgery.
- Spinal decompression, nerve root decompression, and spinal fusion have been extensively evaluated for the treatment of degenerative disorders of the spine

Surgery

- Disk arthroplasty (replacing the original intervertebral disk with an artificial one) appears to be as effective as lumbar fusion for short-term relief of chronic low back pain
- no evidence of long-term relief

Intradiscal electrothermal therapy

- applies heat to a damaged disk through a catheter, causing collagen contraction for structural support and ablating nearby pain-sensing nerves for pain reduction
- provide modest pain relief
- little functional improvement.