# Inflammatory Back Pain (IBP) Referral Algorithm in Malaysia







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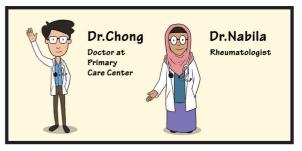
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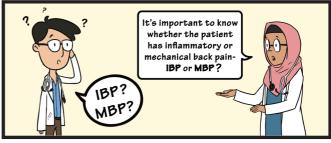
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# The Curious Case of Back Pain!











#### Inflammatory Back Pain (IBP)

- Age ≤ 40 years
- Improves with exercise
- Nocturnal pain (2nd half of night)
- Morning stiffness
  - Pain localized to the Lumbar region
  - Alternating buttock pain

#### Mechanical Back Pain (MBP)

- Any age
- Improves with rest





Thanks, doc.
I will now actively
look for **IBP** in my
back pain patients.



Remember, **IBP** is strongly associated with Axial Spondyloarthritis (Axial SpA).
Follow the **3 "R"s** when you see a low back pain patient.





#### Consensus Statement on an Inflammatory Back Pain Referral Algorithm in Malaysia

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#### Chronic low back pain in Malaysia

- Prevalence of back pain in Malaysia ~12%1.
  - o 5th most common complaint in the private primary healthcare
  - o 9th most common complaint in the public primary healthcare
- Malaysian low back pain management guideline (2010): management of low back pain in general and lack focus on chronic inflammatory back pain<sup>2</sup>.

#### Why is recognizing chronic low back pain important?

- Chronic low back pain (CLBP) is defined as back pain persisting for more than 3 months.
- CLBP is associated with significant morbidity3.
- Avoiding a delay in diagnosis is essential. CLBP may lead to
  - o diminished mobility
  - o work absenteeism
  - o burden on the healthcare system4
- CLBP can be divided into 2 main groups: Inflammatory back pain (IBP) or mechanical back pain (MBP).

#### What is inflammatory back pain?

- Inflammatory back pain (IBP) is a chronic pain condition localized to the axial spine and sacroiliac
  joints.
- **IBP** can be differentiated from **MBP** by a set of key diagnostic features.
- The symptoms of IBP include:
  - o Insidious onset of back pain
  - o Morning stiffness in the lower back of >30 minutes
  - o Improvement of back pain with exercise
  - o No improvement with rest
  - o Awakening at night or in the early morning because of back pain
  - o Alternating buttock pain

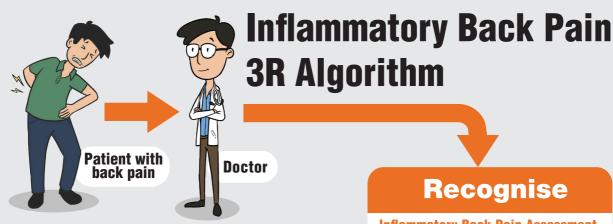
IBP is highly associated with Spondyloarthritis (SpA), an underlying inflammatory arthritis in the spine, and other joints.

- Axial SpA with primarily spine or axial involvement typically present with IBP. Conditions including:
  - o Ankylosing spondylitis
  - o Non-radiographic axial SpA
- Peripheral SpA with predominantly peripheral joint involvement may also have symptoms of IBP.
   Conditions including:
  - o Psoriatic arthritis
  - o Reactive arthritis
  - o Enteropathic arthritis





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## Recognise

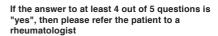
#### **Inflammatory Back Pain Assessment ASAS Expert Criteria**

Have you suffered from Back Pain for more than 3 months? If Yes:

- YES NO
- 1. Did your back pain start when you were aged 40 or under? 2. Did your back pain develop

gradually?

- 3. Does your back pain improve with exercise?
- 4. Do you find there is no improvement in your back pain when you rest?
- 5. Do you suffer from back pain at night which improves upon getting up?



Adapted from Sieper J et al. New Criteria for Inflammatory Back Pain in patients with chronic back pain: a real patient exercise by experts from the Assessment of Spondyloarthritis international Society (ASAS). Ann Rheum Dis 2009; 68: 784-8.

## Review

#### **History & Symptoms**

- Pain located in lumbar area
- Alternating buttock pain
- Nature of symptoms
- Duration of symptoms

#### **Investigations**

- X-ray of Sacroiliac joint\* (consider gonadal radiation exposure)
- ESR, CRP
- \* Normal X-ray does not rule out the possibility of Axial SpA diagnosis

#### Other information

- · Family history of rheumatological disorder, psoriasis or other autoimmune condition
- Associated symptoms eg. Uveitis, psoriasis, peripheral joint inflammation, features of inflammatory bowel disease
- Treatments used thus far

#### **Red flags**

Acute onset pain, fever, unexplained weight loss, incontinence, history of cancer, unilateral back/sacro-iliac joint pain.





Patients with red flags symptoms should be referred urgently to secondary care for further assessment.

### **Suggested GP management**

- NSAIDs for symptom management unless contraindicated
- Physiotherapy for prescription of stretching/ROM exercises

### Refer

 To a rheumatologist Find a centre with rheumatology service here: \_

https://msr.my/rheumatology -services/list-of-hospitals/





**Rheumatologist** 

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#### Why is it important to identify IBP early?

- The mean age of onset of symptoms is in the mid-20s<sup>7</sup>, a point considered as the normally most productive time of life.
- An unacceptably long delay, averaging 8 to 11 years<sup>6</sup>, between the onset of symptoms and the time of diagnosis for axial SpA.
- A longer delay in diagnosis may lead to worse functional outcome.
- If undiagnosed and untreated, or not treated effectively enough, will lead to psycho-socioeconomic consequences:
  - o continuous suffering from pain, stiffness, and fatigue
  - o loss of spinal function and mobility
  - o reduction in quality of life, and work productivity
  - o increase in direct and indirect medical costs
- Effective treatments, such as biologics, for the treatment of axial SpA have now become available.
- It is important to **identify potential patients with axial SpA** by clinicians, especially in primary care setting in order to reduce delay of diagnosis and effective management.

#### How can I identify inflammatory back pain (IBP) in my practice?

- The Assessment of SpondyloArthritis international Society (ASAS) for IBP questionnaire has been found to be robust, easy to apply and with good specificity and sensitivity<sup>5,8</sup>.
- Follow the steps from the **3R algorithm (Recognise-Review-Refer)** in Figure 1 to identify and refer patients with inflammatory back pain.
- Patients with red flags symptoms should be referred urgently to secondary care for further assessment.

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