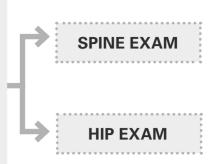
# **Diagnostic Algorithm for SI Joint Pain**

### **CHIEF COMPLAINTS**

- O Low back pain (below L5)
- Pelvis/buttock pain
- Hip/groin/thigh pain
- Sensation of lower extremity: pain, numbness, tingling, weakness
- Sitting problems
- Pain with position changes or transitional motions (i.e., sit to stand, supine to sit)
- Poor sleep habits due to pain
- > Feeling of leg giving way or buckling

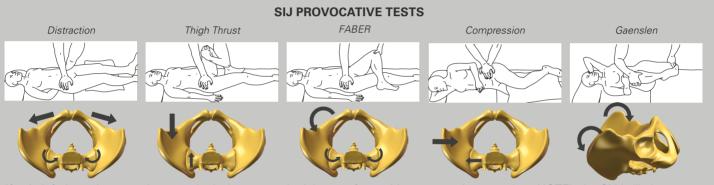
### **HISTORY**

- New onset or chronic low back pain +/- trauma
- Previous lumbar surgery
- Post-partum pain
- Description of pain
- Onset and duration of symptoms
- What makes it better/worse
- Treatment to-date: PT, meds, spine injections, other



# SI JOINT EXAM

Point to pain while standing (Fortin finger test) / Tenderness over SIJ sulcus / Posterior SIJ tender to palpation / Patient not sitting on affected side. Single leg stance test may induce pain on supporting side.



If pain inferior to L5, negative neurological exam, and minimum of 3 positive provocative tests (see NOTE), the SIJ is likely a pain generator and image-guided, diagnostic SIJ injection(s) should be ordered. Start with the Distraction Test, which has the highest single positive predictive value.2

# **DIAGNOSTIC SIJ INJECTION<sup>3</sup>**

- Posterior & inferior approach
- 22 gauge styletted needle
- 0.25ml contrast medium
- 1.25ml local anesthetic



Inferior SIJ target



Needle in SIJ pre-contrast



Needle in SU

SI JOINT IS PAIN GENERATOR



Needle in SIJ

## SIGNIFICANT POSITIVE CLINICAL RESPONSE?

Note: consider repeating to rule out false positive results

# OTHER PAIN GENERATORS POSSIBLE

**CONTINUE WORKUP** 

# **Non-surgical Options**

- Medication(s)
- Physical Therapy
- SI Joint Injections
- Radiofrequency Denervation

Minimally invasive SI joint fusion (iFuse Implant System®)

- 2 Laslett, M. et al., 2005. Diagnosis of sacrolliac joint pain: validity of indivi 3 Fluoroscopically-guided injection photos courtesy of *Joseph Schini, MD*.

<sup>1</sup> Szadek, K.M. et al., 2009. Diagnostic validity of criteria for sacroiliac joint pain: a systematic review. Journal of Pain, 10 (4), pp.354-368