

History and Physical Exam

Andrea Trescot, MD

“The diagnosis is hidden in the patient’s history, and the cause is elicited by the physical exam.”

J. Bart Staal

History

- The history given by the patient, in the patient's own words, is key to making the diagnosis
- There are reproducible, recognizable patterns of pain that provide clues to the cause of the pain.
 - Unfortunately, by the time the patient has reached a pain specialist, the pain may have spread beyond its original site, “like a forest fire raging out of control”, so the initial pain pattern is important

History

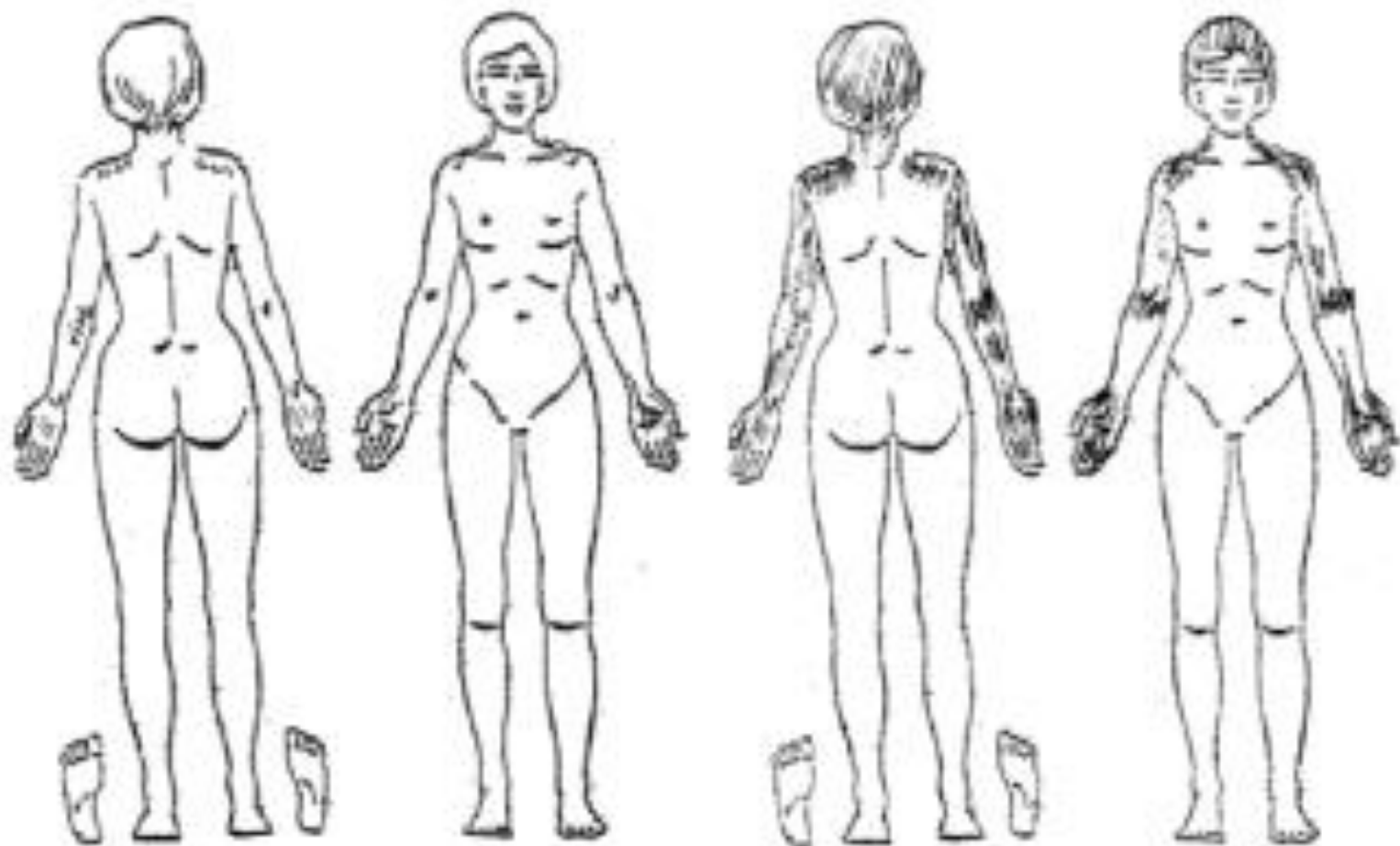
- The history should include
 - The mechanism of injury
 - How did the pain start?
 - The initial site of pain
 - The initial pain referral pattern
 - Any associated weakness or sensory changes
- These are vital clues to the etiology of the pain

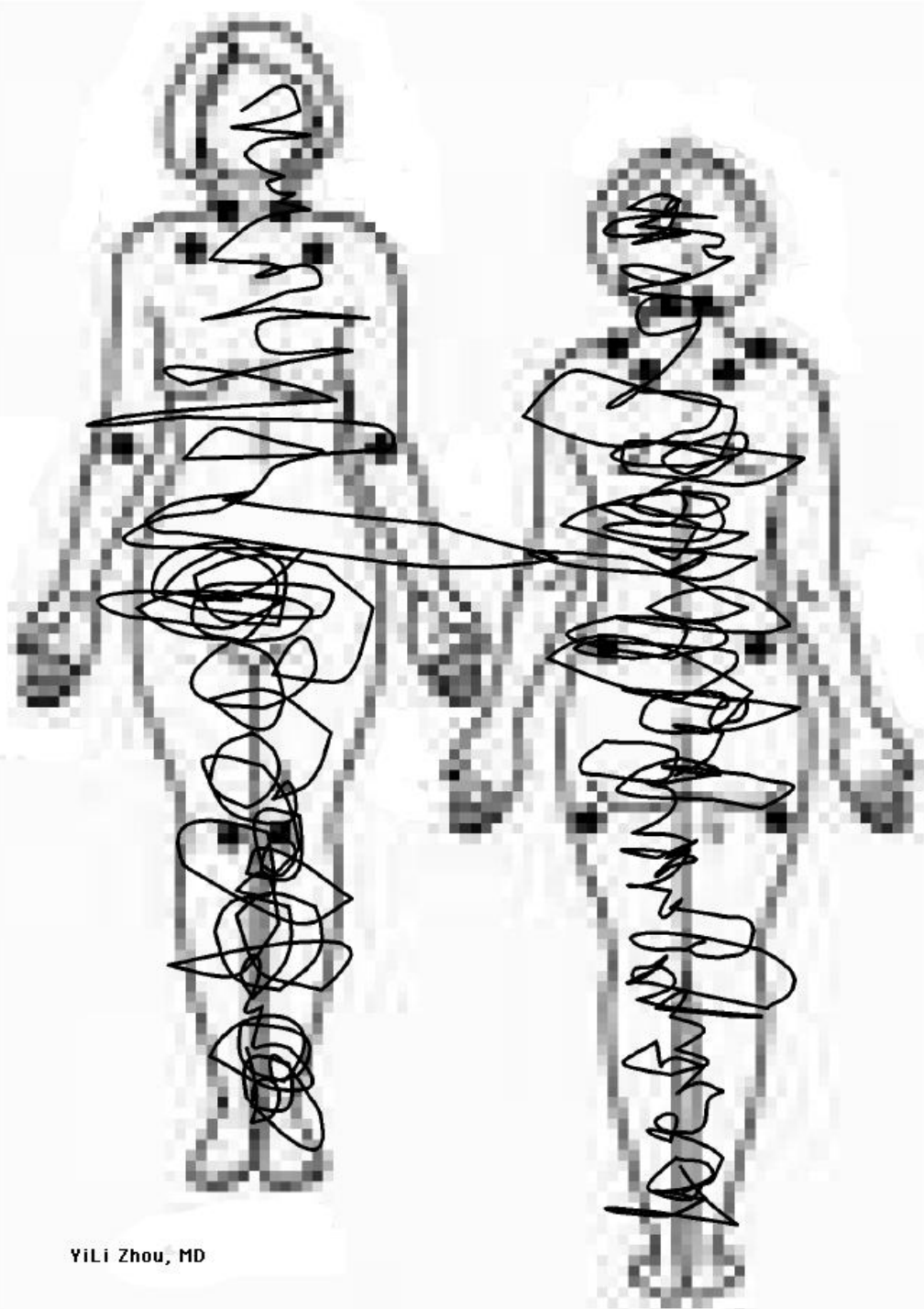
Specific Questions

- Where does it hurt?
- Where and when did it start to hurt?
- What makes it better?
- What makes it worse?

It is important to ask these questions in this order, since patients will respond “nothing” to “what makes it better?”

Site of pain	Quality (looking for neuropathic features)
Radiation pattern	Duration
Intensity (at rest and with movement)	Temporal variation
Previous therapies and response	Precipitating factors
Mood	Relieving factors
Activities of daily living	Sleep
Current therapies	Patient beliefs regarding cause of pain





“Show me where it hurts”



Physical exam

It is important to do a physical exam because...

- Patients and doctors do not use the same words
 - “hip”, “back”
- The physical exam should direct the intervention
 - SI vs radiculopathy
- Diagnostic studies do not show pain

MRIs do not show pain

MRI Study

- **98 asymptomatic patients**
 - **52% had disc bulges**
 - **27% had disc protrusions**
 - **1% had disc extrusions (outside the annulus)**
 - **14% had annular defects**
 - **8% had facet pathology**
 - **7% had spondylolithesis**
 - **7% had stenosis (central or foraminal)**

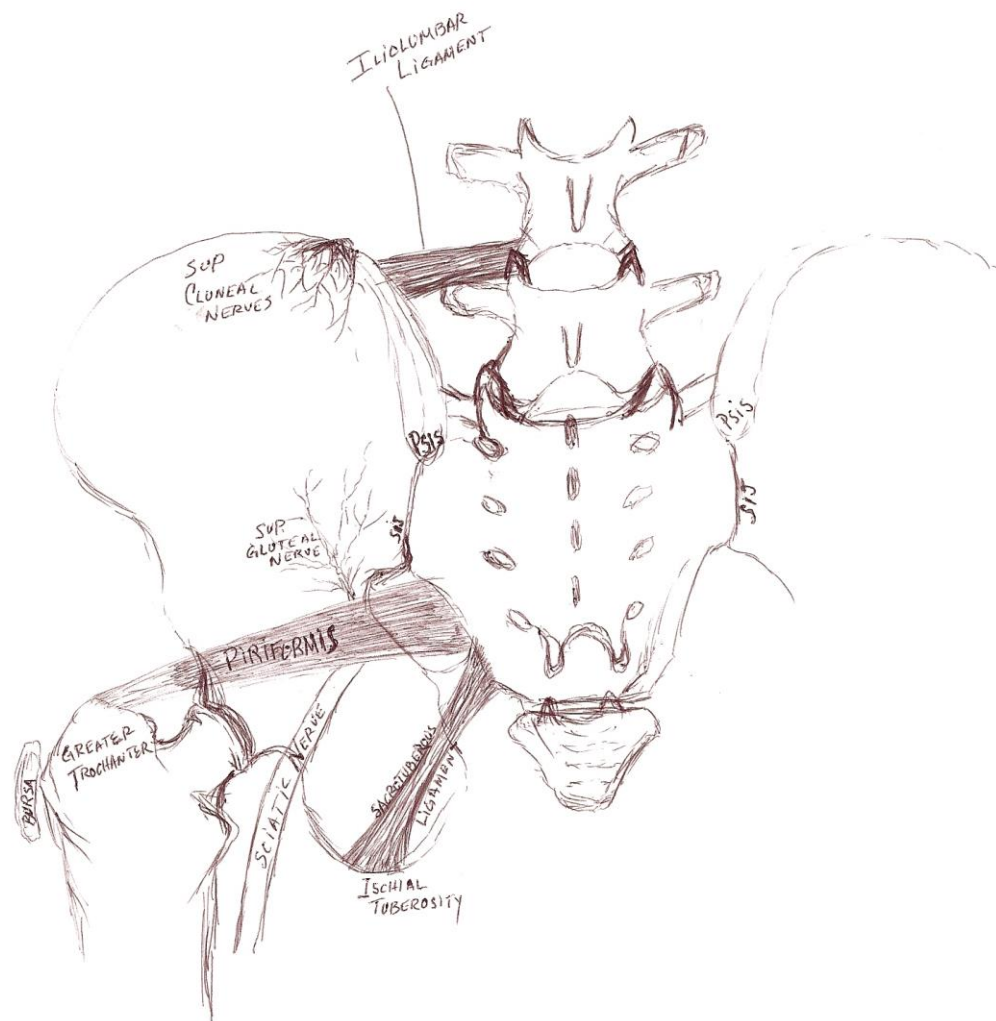
Jensen

NEJM July 1994

Physical exam of the back

Back Exam



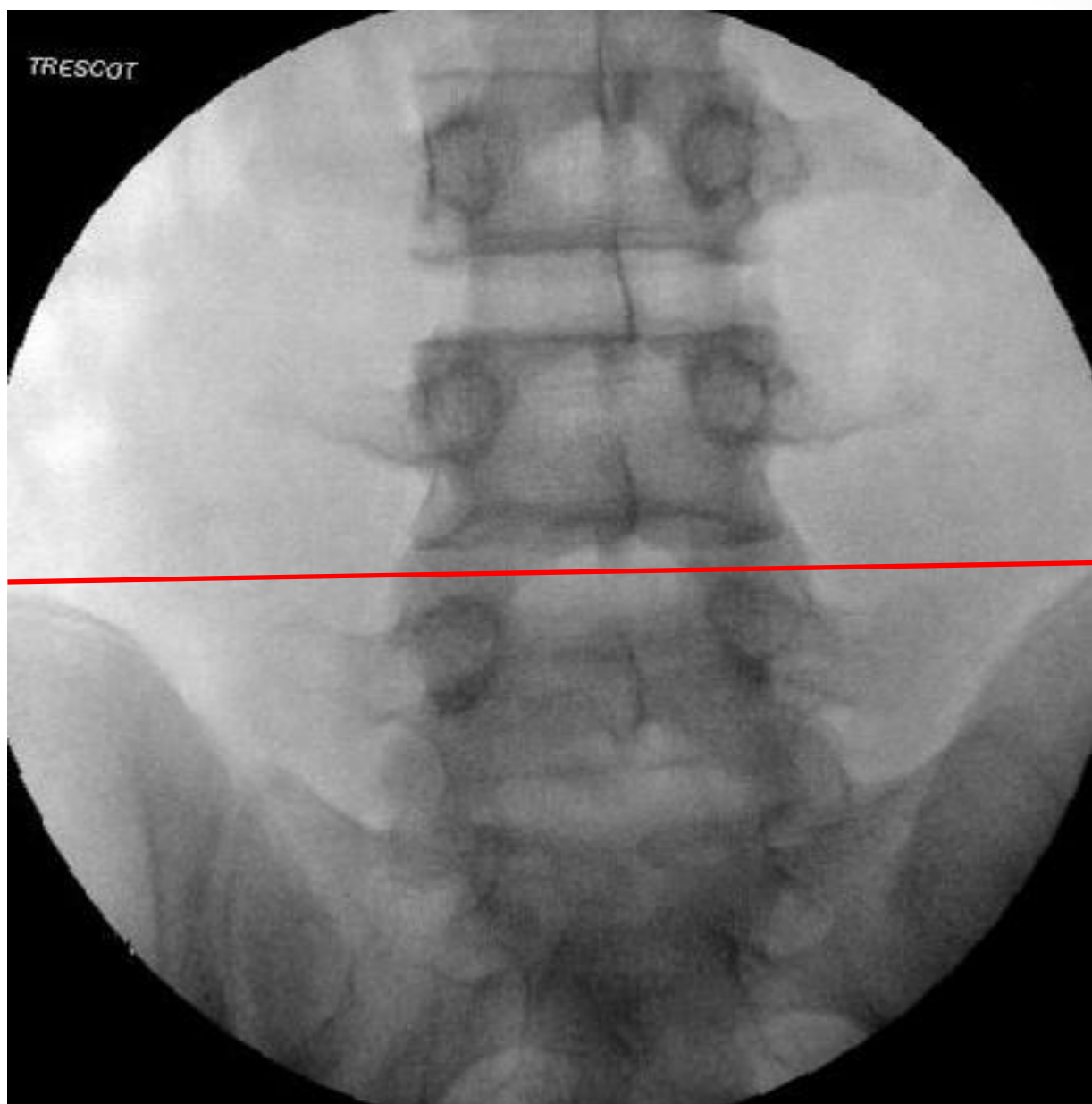


Luis N. Hernandez, M.D.

Midline L45



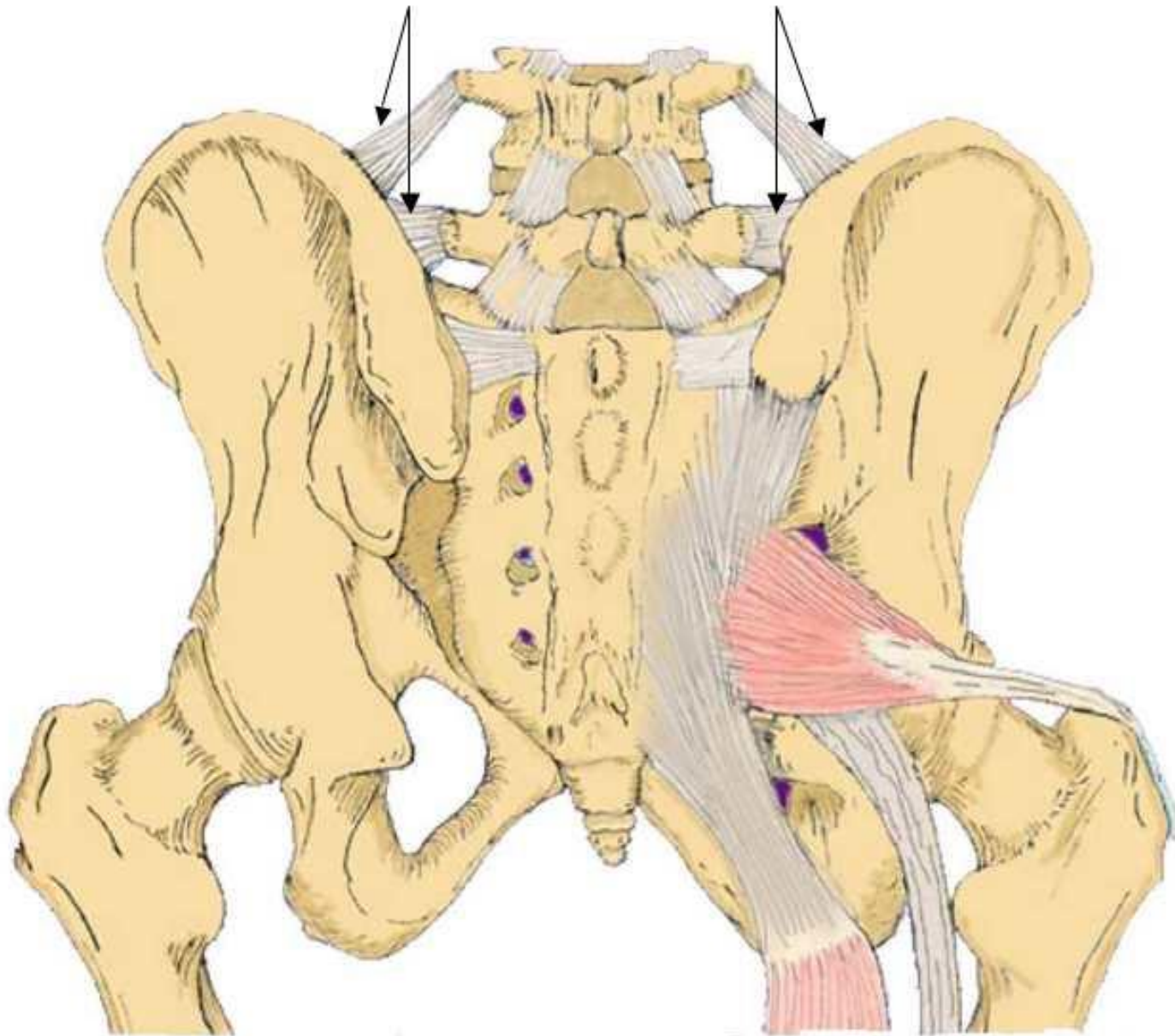


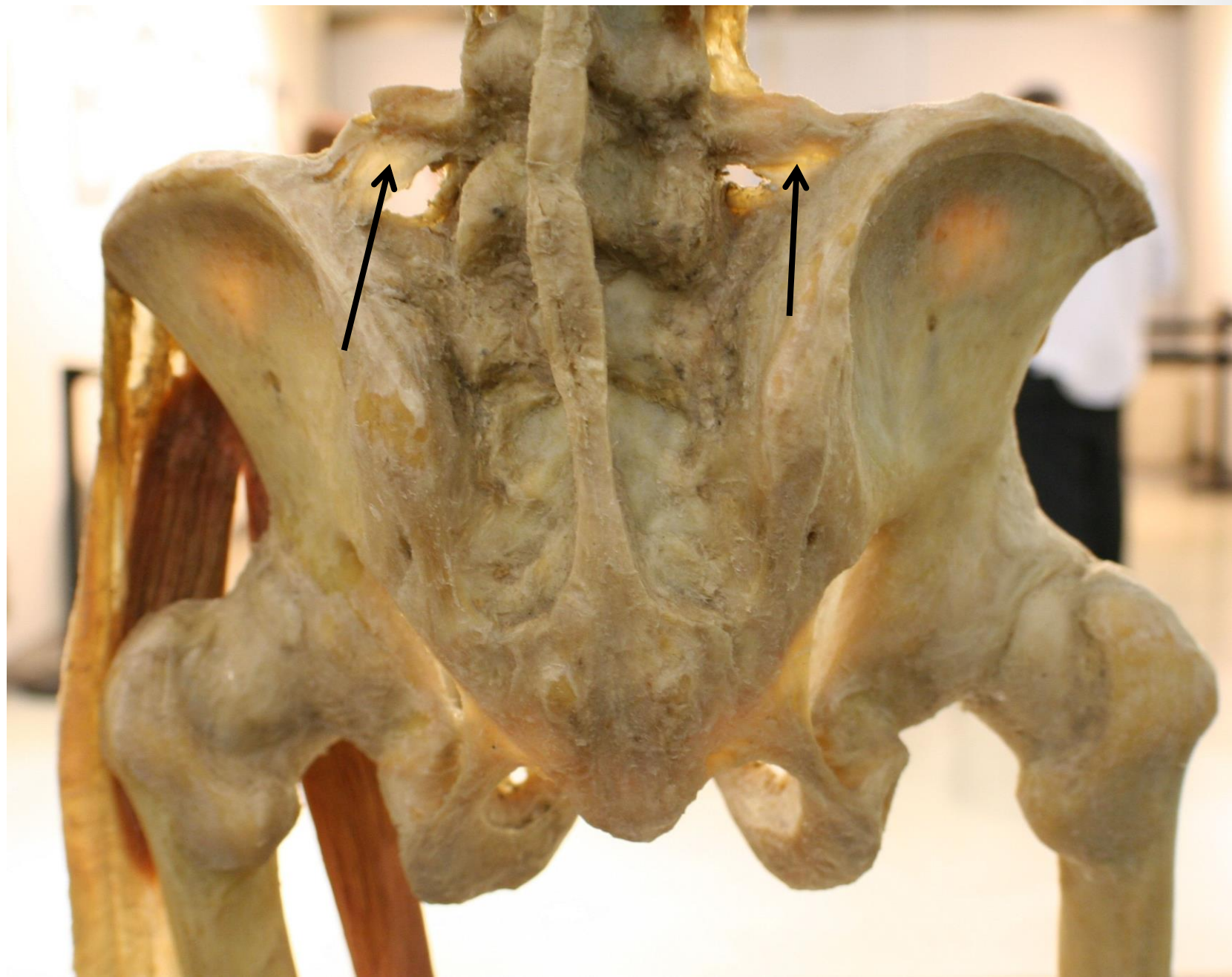


Iliolumbar Ligament



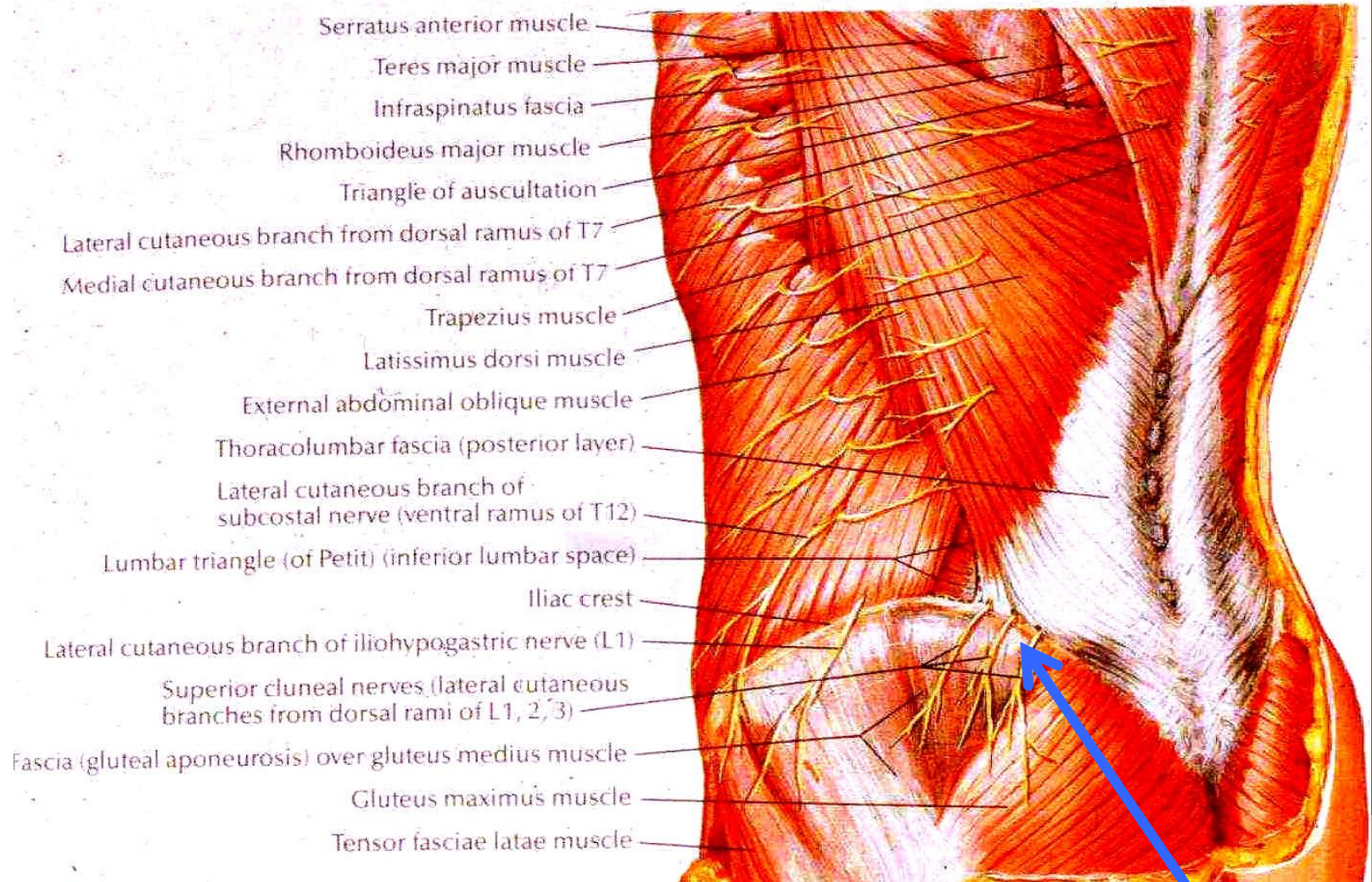
Iliolumbar Ligament

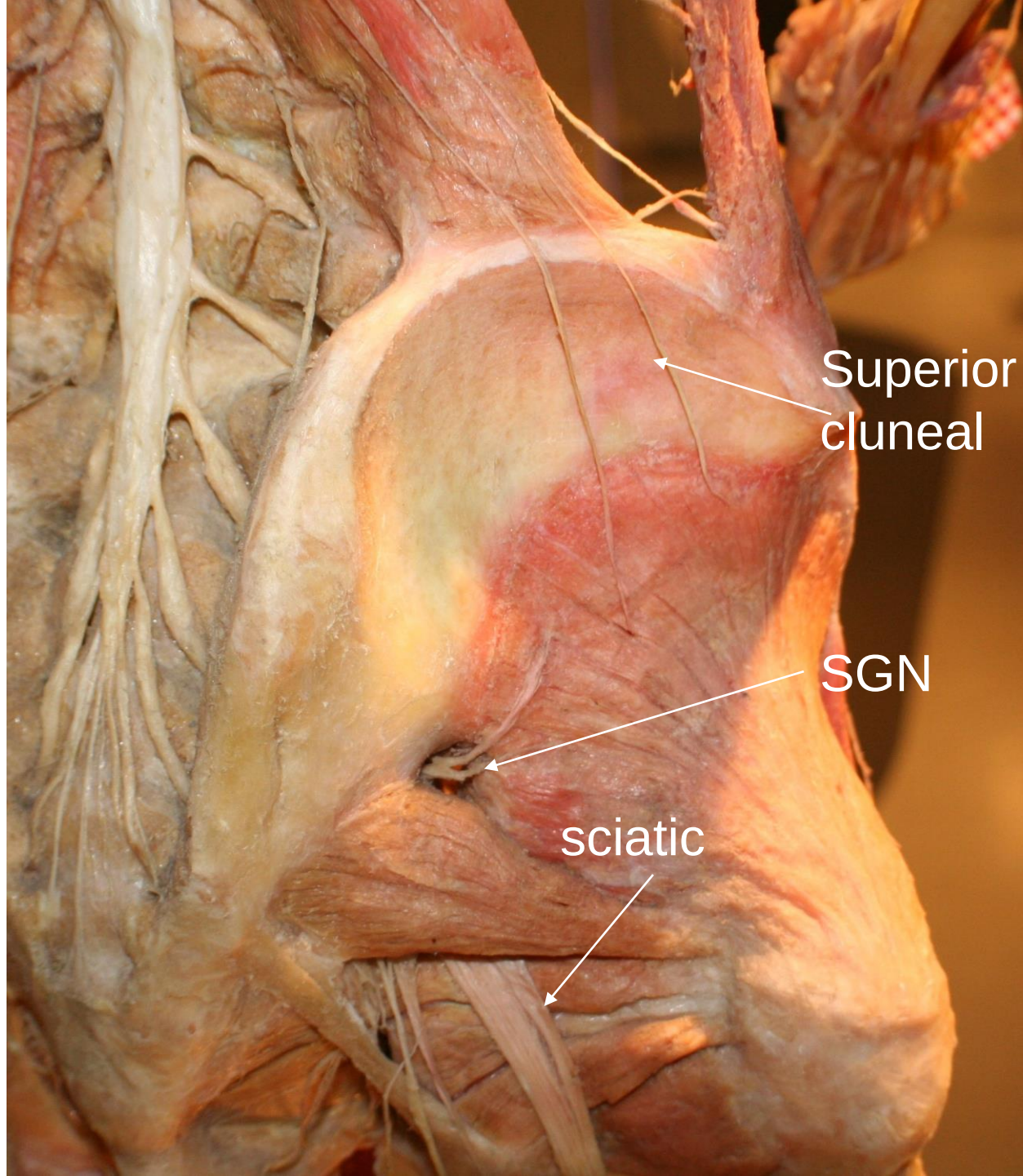




Cluneal Nerve







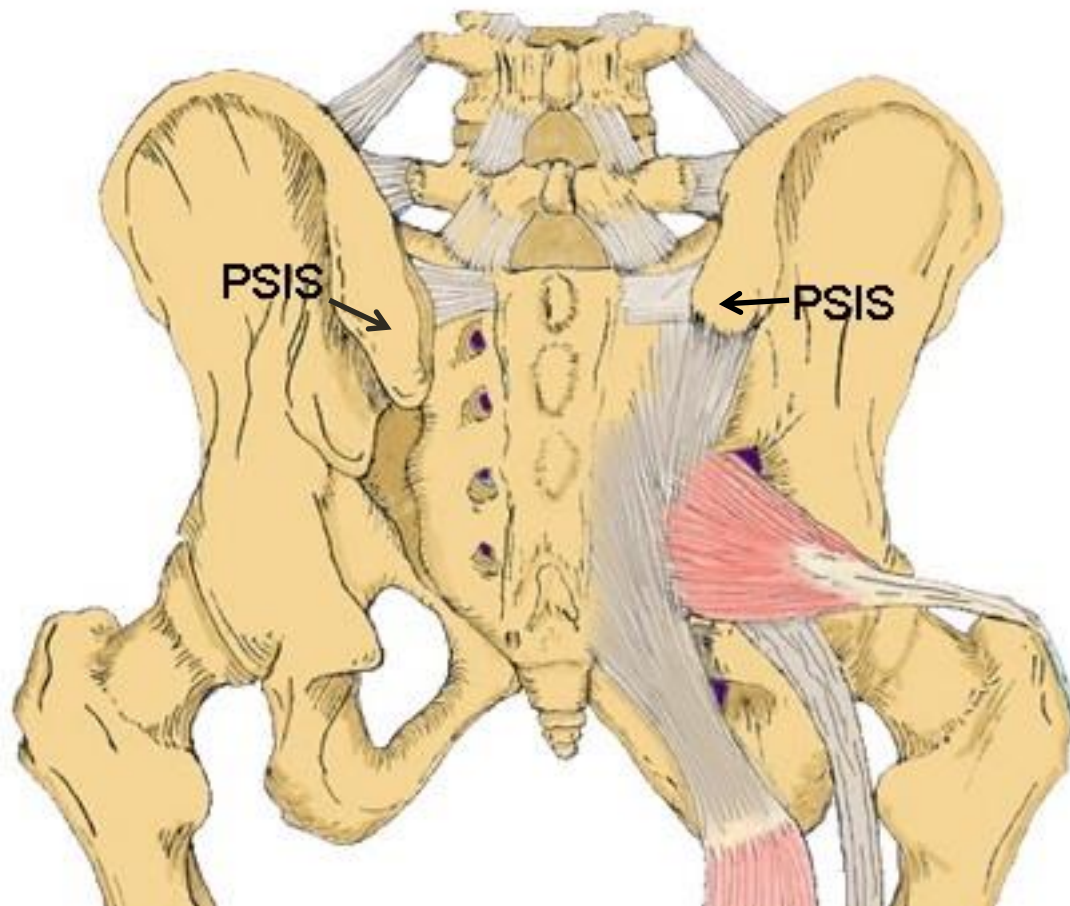
Superior
cluneal

SGN

sciatic

Posterior Superior Iliac Spine (PSIS)





CLAY SURGERY CENTER

TRESCOT

87 kVp
3.70 mA

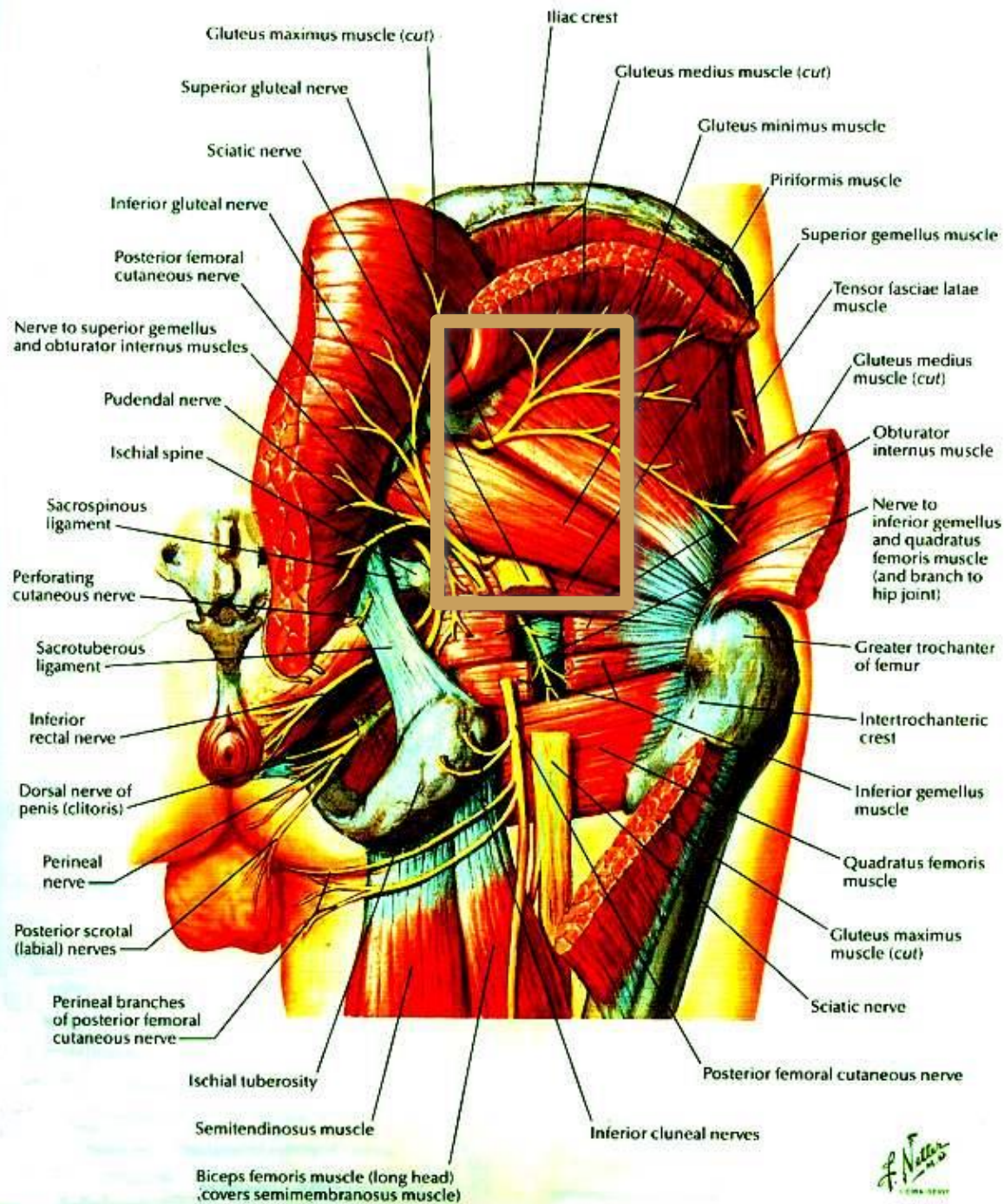
51 ☀
49 🌑

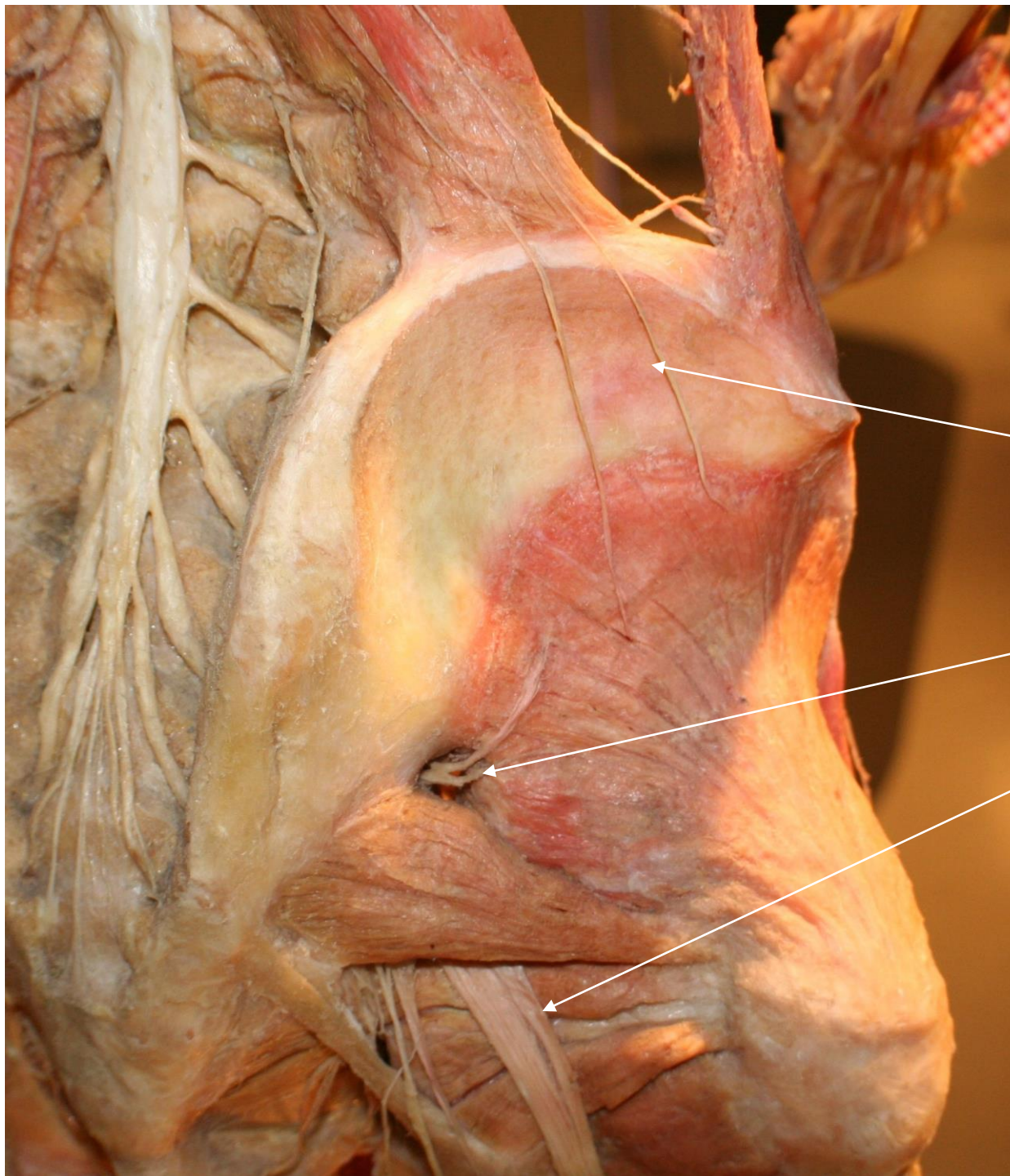
OEC



Superior Gluteal Nerve







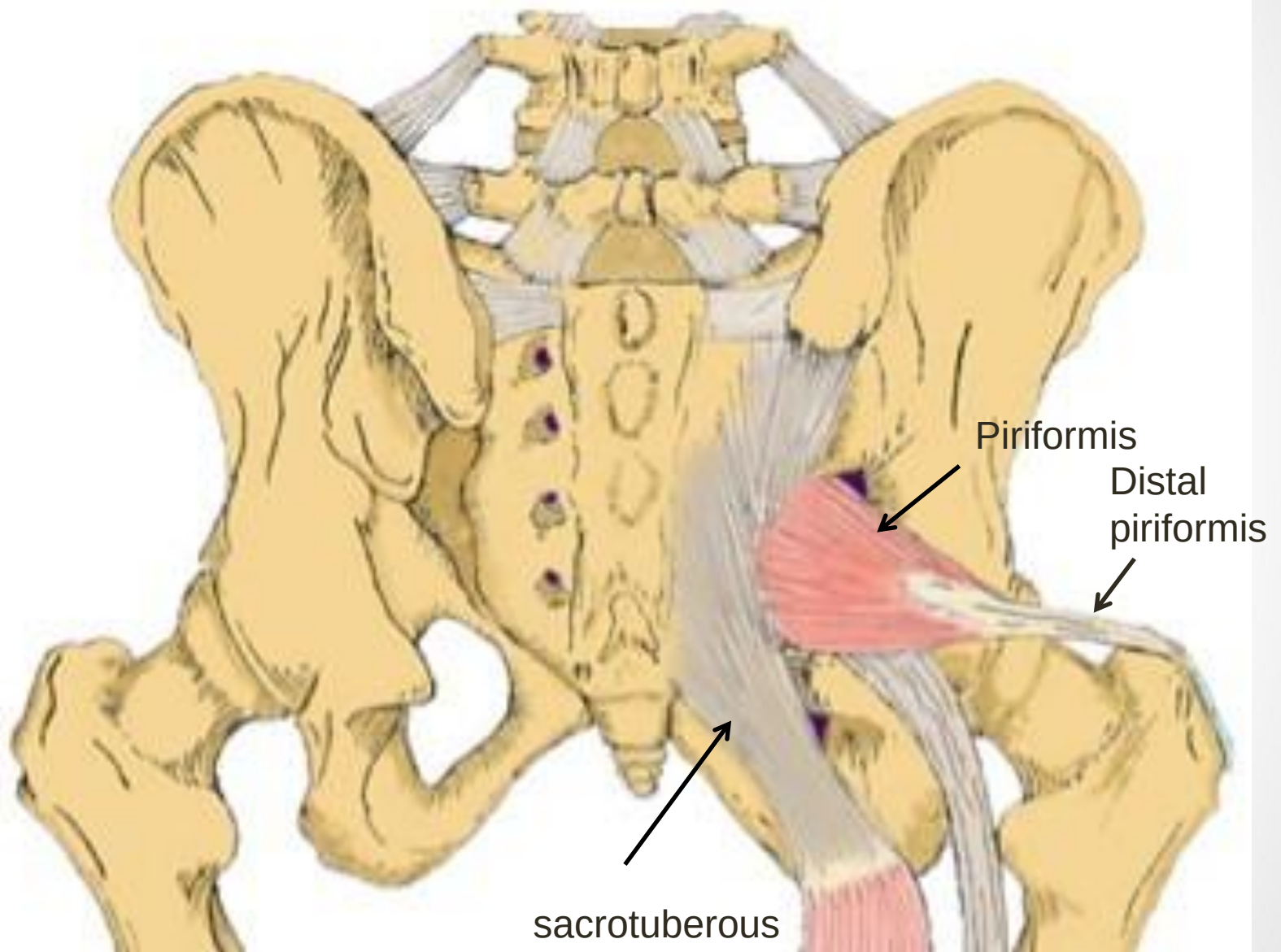
Superior
cluneal

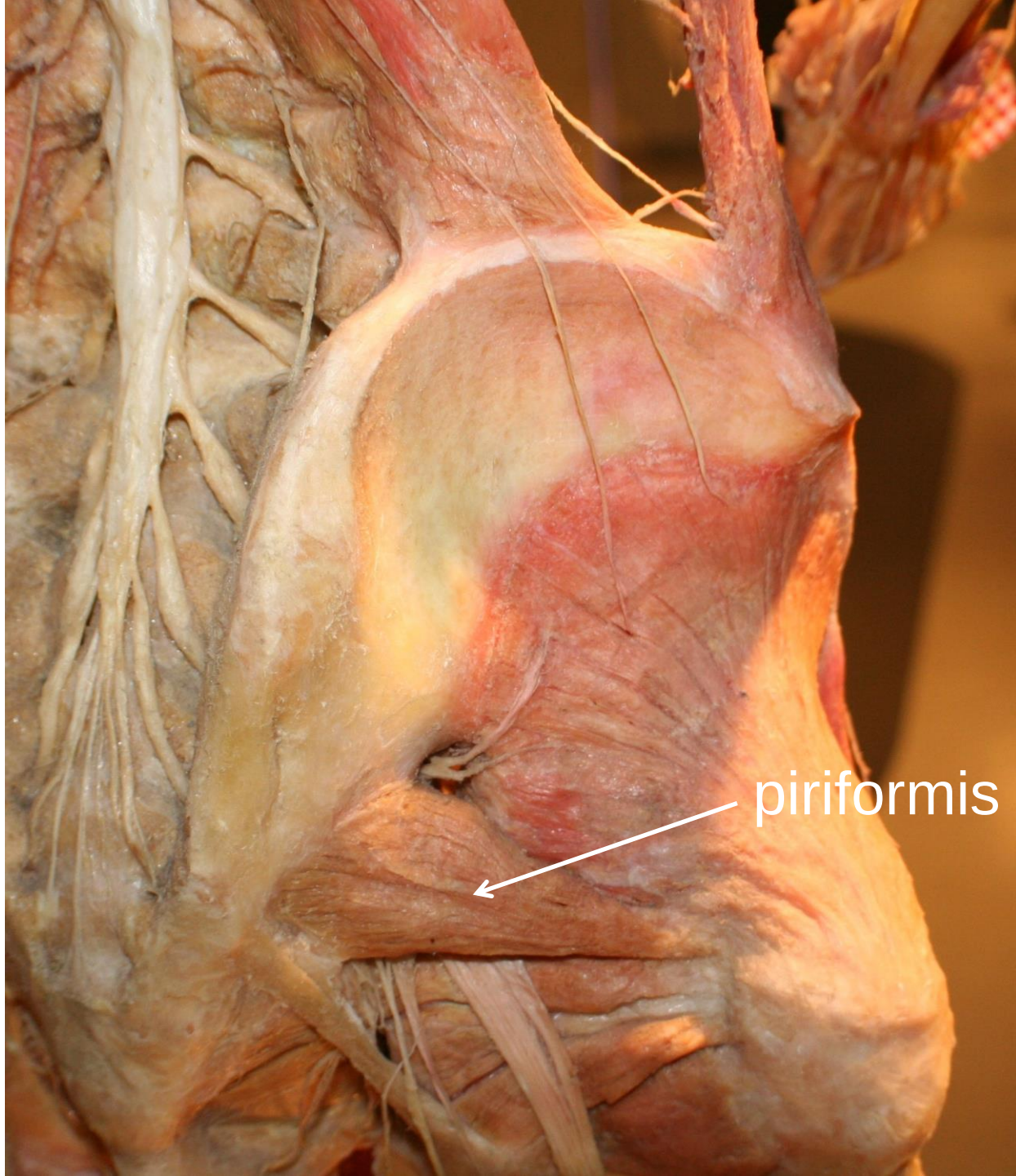
SGN

sciatic

Piriformis







piriformis

Sacrospinous Ligament





Sacrotuberous
ligament

sacrospinous

sacrospinatus

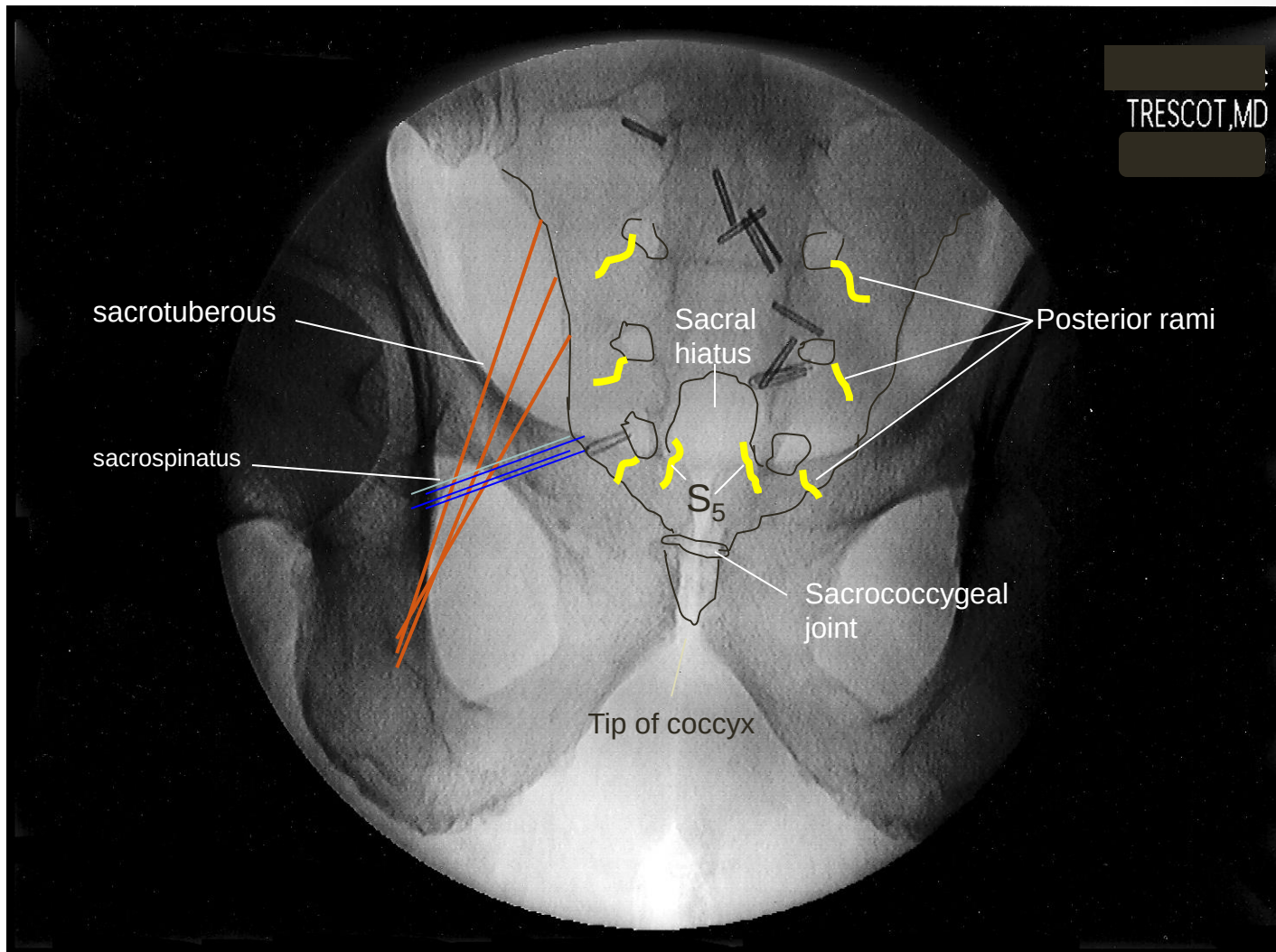
Sacral
hiatus

S₅

Sacrococcygeal
joint

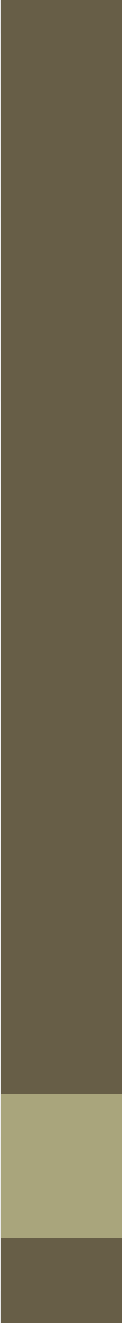
Tip of coccyx

Posterior rami



Diagnosis = Treatment

- Orthopedic surgeons can see broken bones
- Internists can measure blood pressure
- Neurologists can test nerves
- Interventional pain management doctors use their ears and their hands to direct their eyes and their needles



Patient Pattern



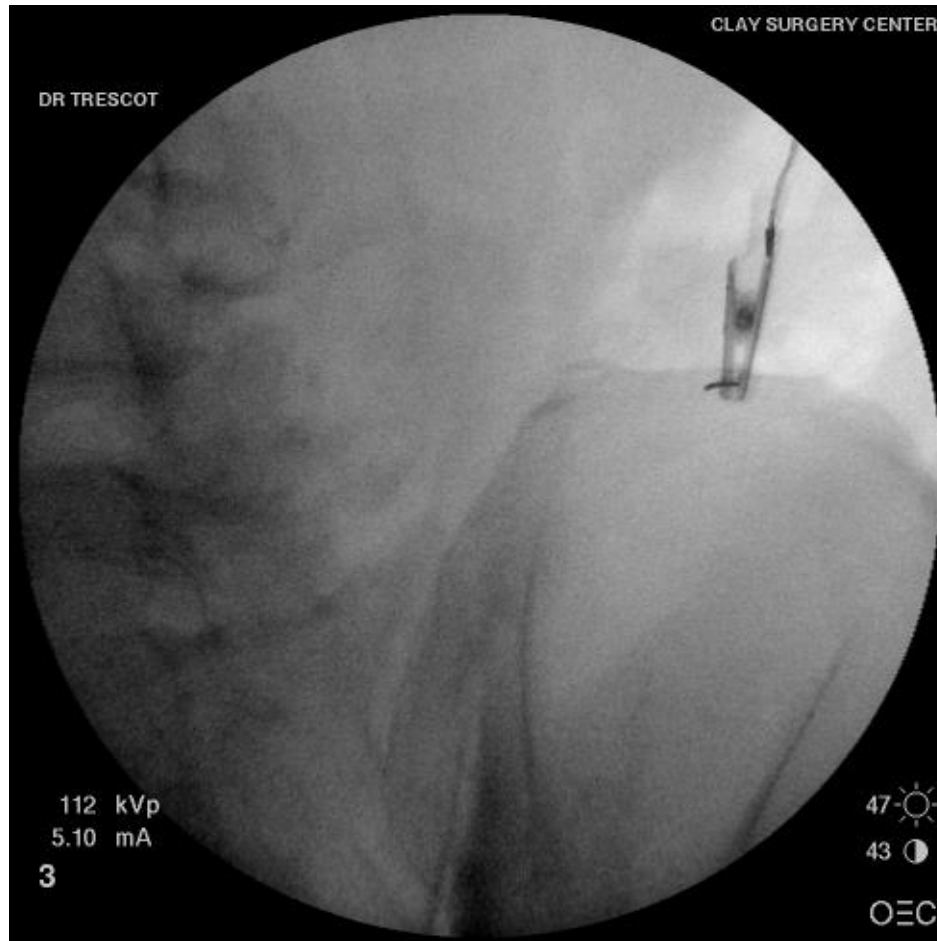
Physical Exam



Fluoroscopic Exam



Diagnostic Injection



Cryo Probe Placement



You can't treat what you cannot
diagnose

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