Skulls & vertebrae + questions about you today!

BI 199 APWT Discussion 15

I. Announcements Poster presentation scoring. Q?

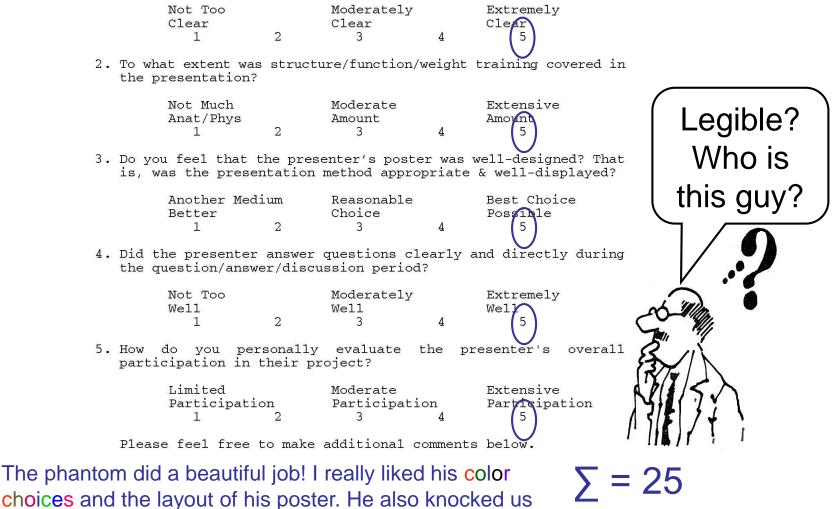
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- II. <u>American College of Sports Medicine (ACSM)</u> <u>American Heart Association (AHA), US</u> <u>Government/Centers for Disease Control (CDC)</u>
 - **Guidelines: How Much Exercise is Enough?**
 - A. Endurance training
 - **B. Strength training**

III. <u>Anatomy Lab Skulls & Vertebrae Group Work</u> IV. Questions about You!

PRESENTER #1 The Phantom Lifter!

1. Was the focus or topic of the presentation clear?



out in the Q & A session! Fabulous effort!!



EVALUATOR'S NAME

How much aerobic?

Continuous exercise ≥ 50% muscle mass Moderate? ≥ 30 min/d, ≥ 5 d/wk Vigorous? ≥ 20 min/d, ≥ 3 d/wk



of SPORTS MEDICINE



Do moderately intense aerobic exercise ≥ 30 min/d, 5 d/wk

OR

Do vigorously intense aerobic exercise ≥ 20 min/d, 3 d/wk

AND

Do 8-10 strength-training exercises 8-12 repetitions/each exercise, 2 d/wk

How much strength?

- 2-3 days/wk
- 8-10 exercises for major muscle groups
- ≥ 1 set/exercise
- 8-12 (most) or 10-15 (frail/> 50-60 yr) repetitions/set

http://www.acsm.org/access-public-information/position-stands

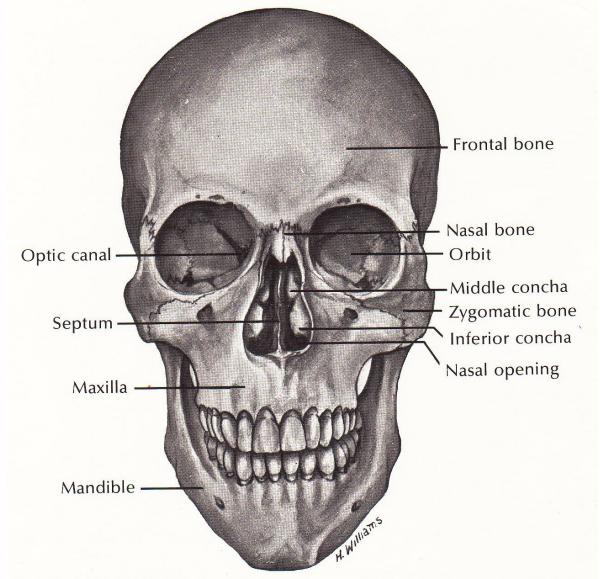
Federal exercise guidelines include strength training for all! <u>http://www.health.gov/paguidelines/guidelines/default.aspx</u> <u>http://www.healthfinder.gov/prevention/ViewTopic.aspx?topicID=22</u> <u>http://www.usatoday.com/news/health/weightloss/2008-10-07-physical-activity_N.htm</u>



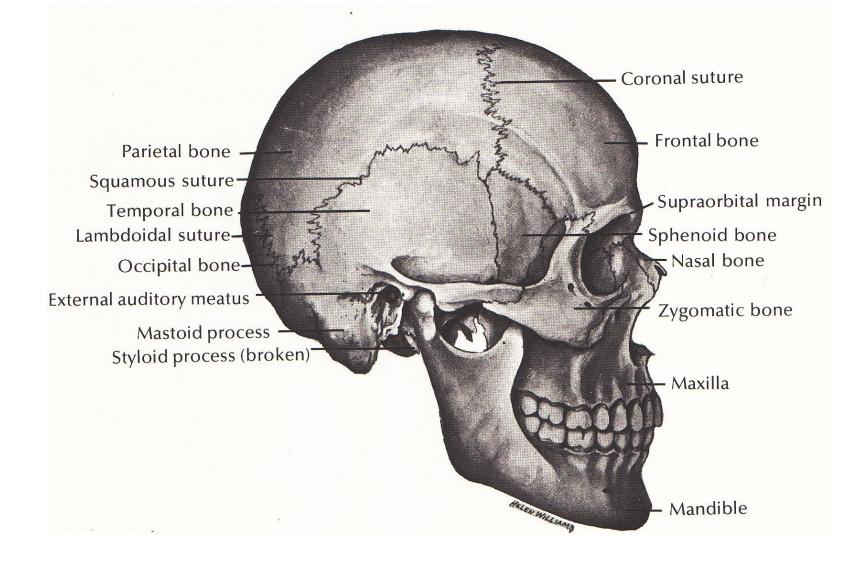
<u>Adults</u>: Moderate to Vigorous Exercise ≥ 30 min, 5 d/wk



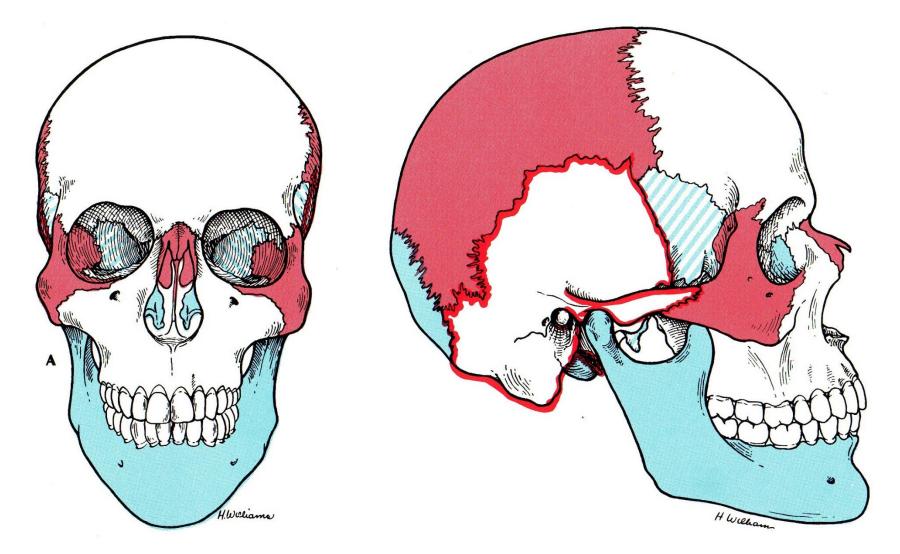
Skull – Anterior view, 25 yr old male



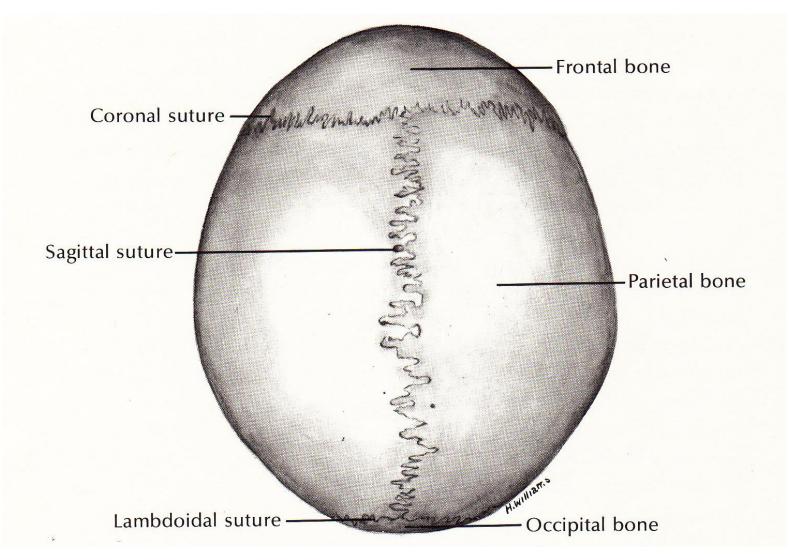
Skull – Lateral view, 25 yr old male



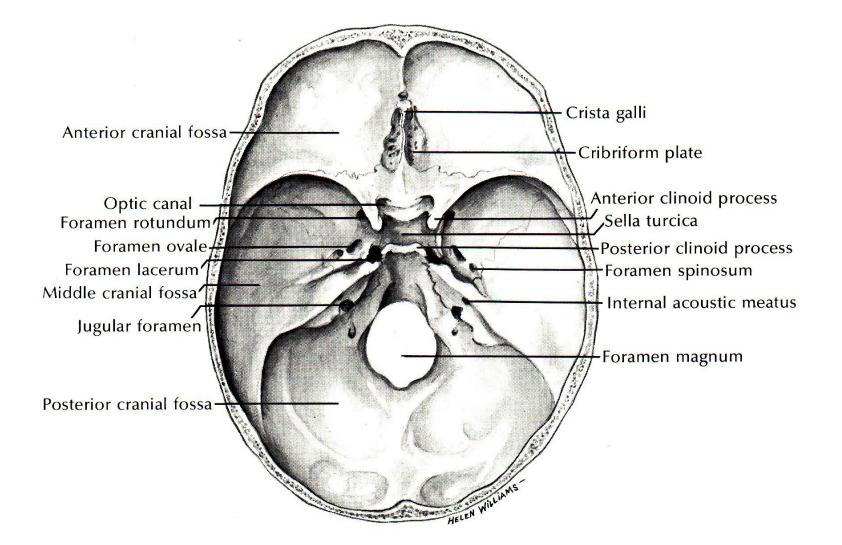
Name the **colored** bones!



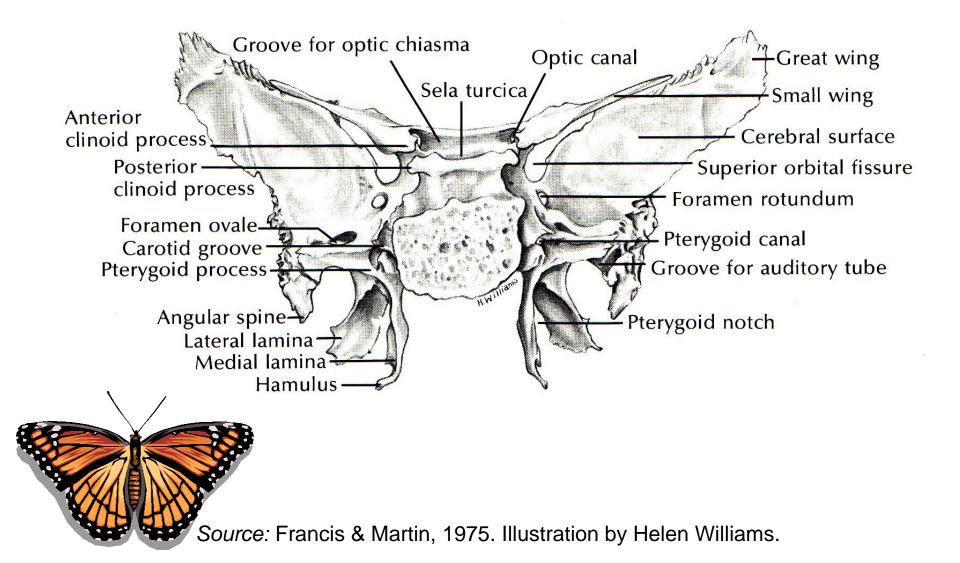
Identify these sutures! Why present?



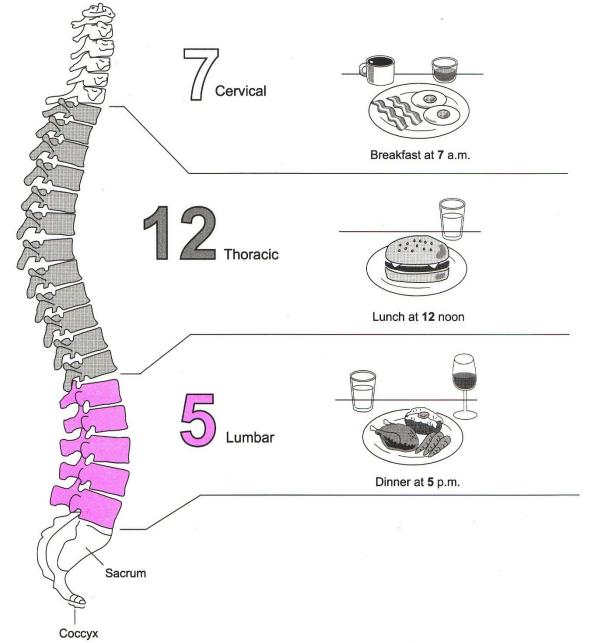
Cranial cavity floor, 25 yr old male



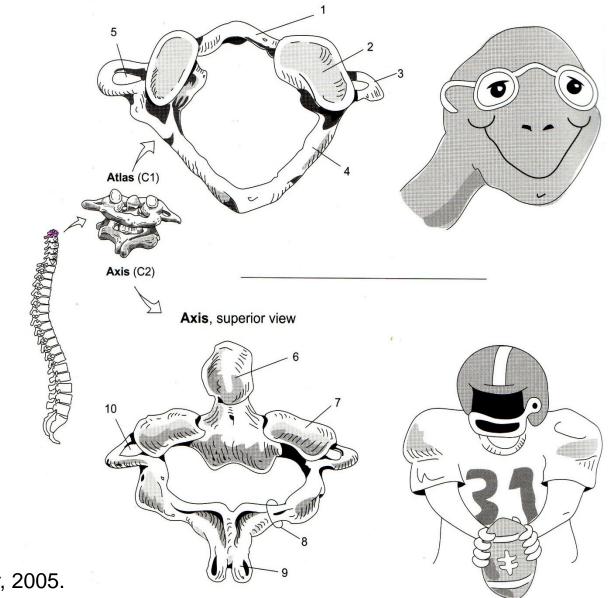
Spenoid – Butterfly! Pat's favorite!



Vertebral column numbers!

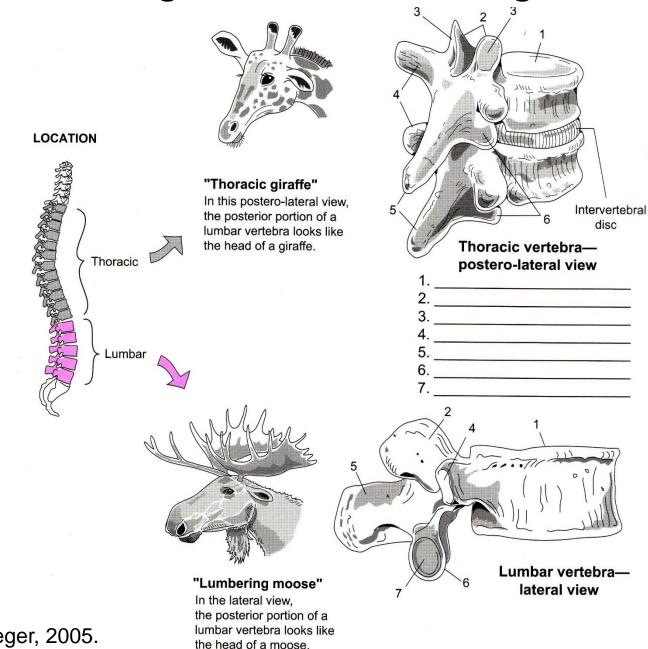


Atlas (C-1) & Axis (C-2) support & rotate the world!



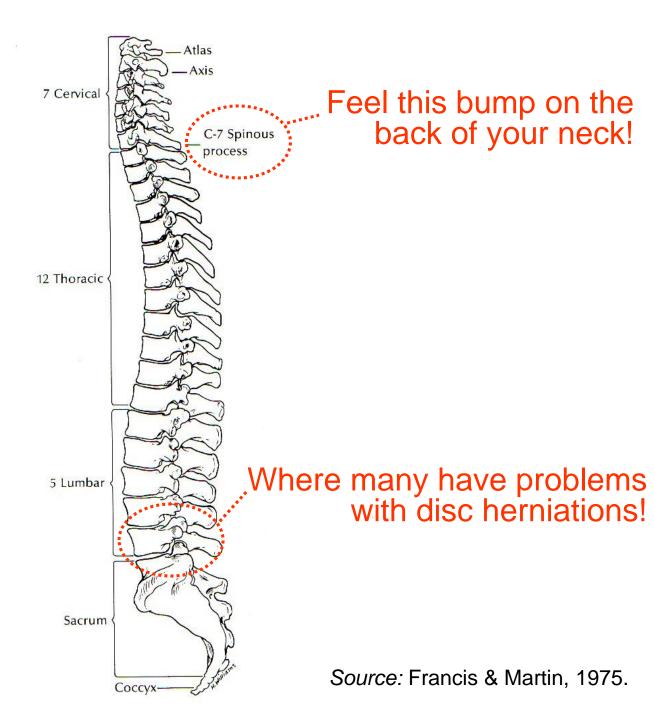
Source: Krieger, 2005.

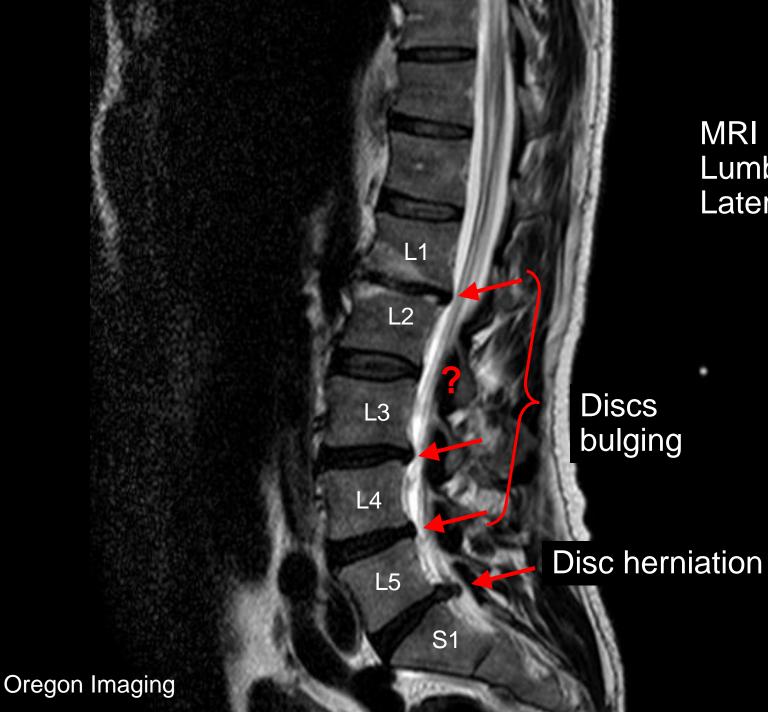
Thoracic giraffe & lumbering moose!



Source: Krieger, 2005.

Vertebral column – Lateral view





MRI 061307 Lumbar spine Lateral view

Problems with herniated disc!

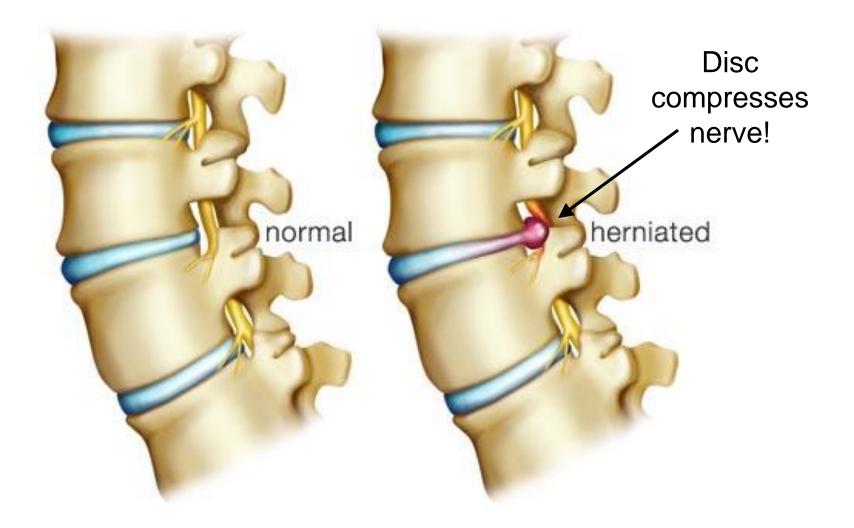
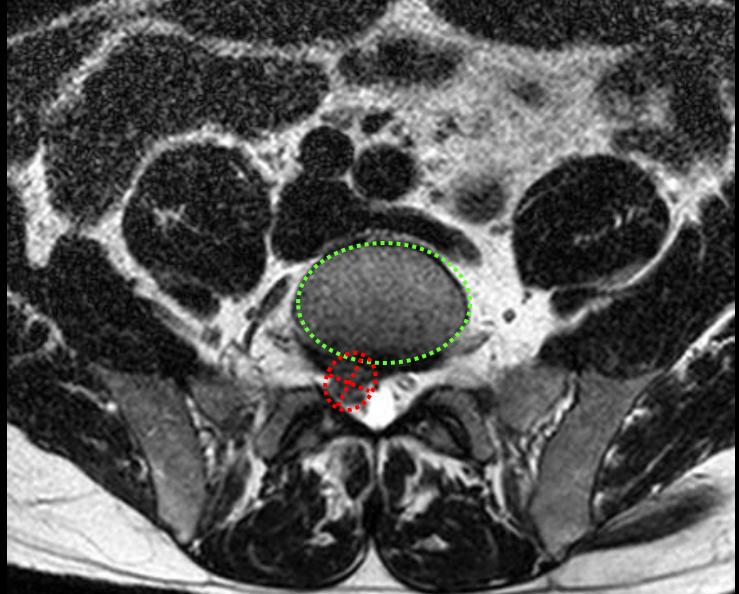


Illustration Source: <u>http://www.tumblerockranch.com/apps/blog/</u>

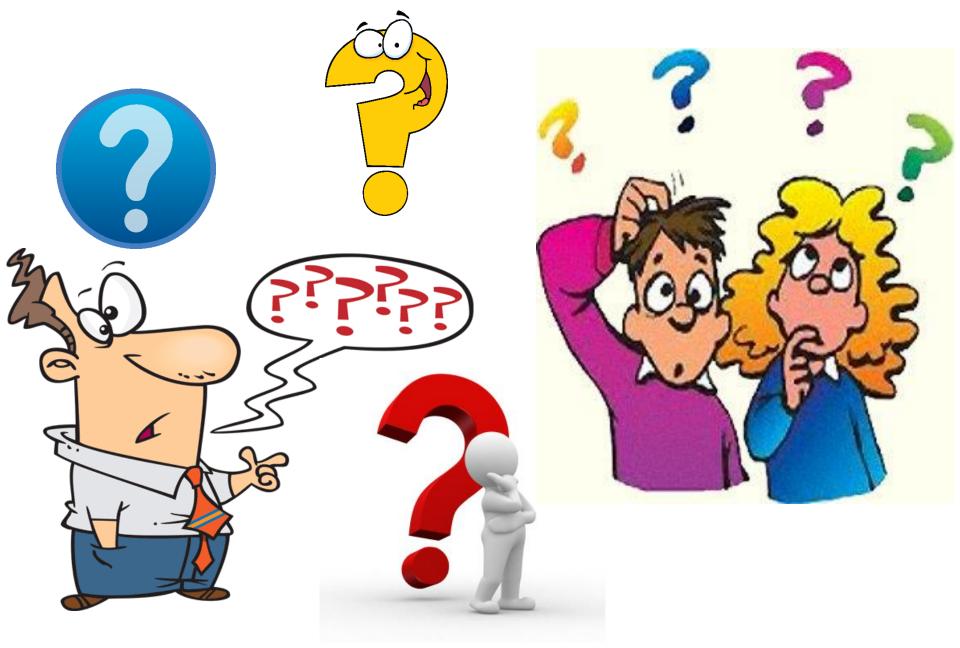


MRI 061307 Lumbar spine Axial view

Oregon Imaging

9.4 x 8.1 mm Protrusion

Comments + Questions about you!!





"I don't have any answers. I'm a non-prophet."