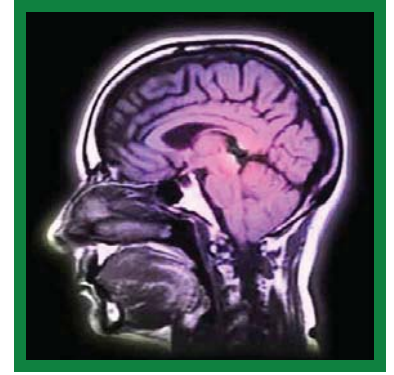


X-Ray Lab



# Patient 1



The bones of the spine are identified by number. This x-ray shows the vertebrae of the lumbar spine (lower back). Notice how they are labeled L1 to L5.

1. What does 'L' stand for?
2. Which vertebra is closest to the sacrum? (give the letter and number)
3. Which vertebra seems to be out of alignment from the others?
4. What is the name of the bone labeled "A"?
5. What is the name of the bone labeled "C"?
6. What **type of joint** is labeled "B"?
7. Look at the area where the arrow (D) is pointing. Is this a **fracture** (broken bone) or is it **normal**?

CONSULT YOUR MEDICAL REFERENCE GUIDE

**PATIENT**  
**1**

**L1**  
**L2**  
**L3**  
**L4**  
**L5**

EX

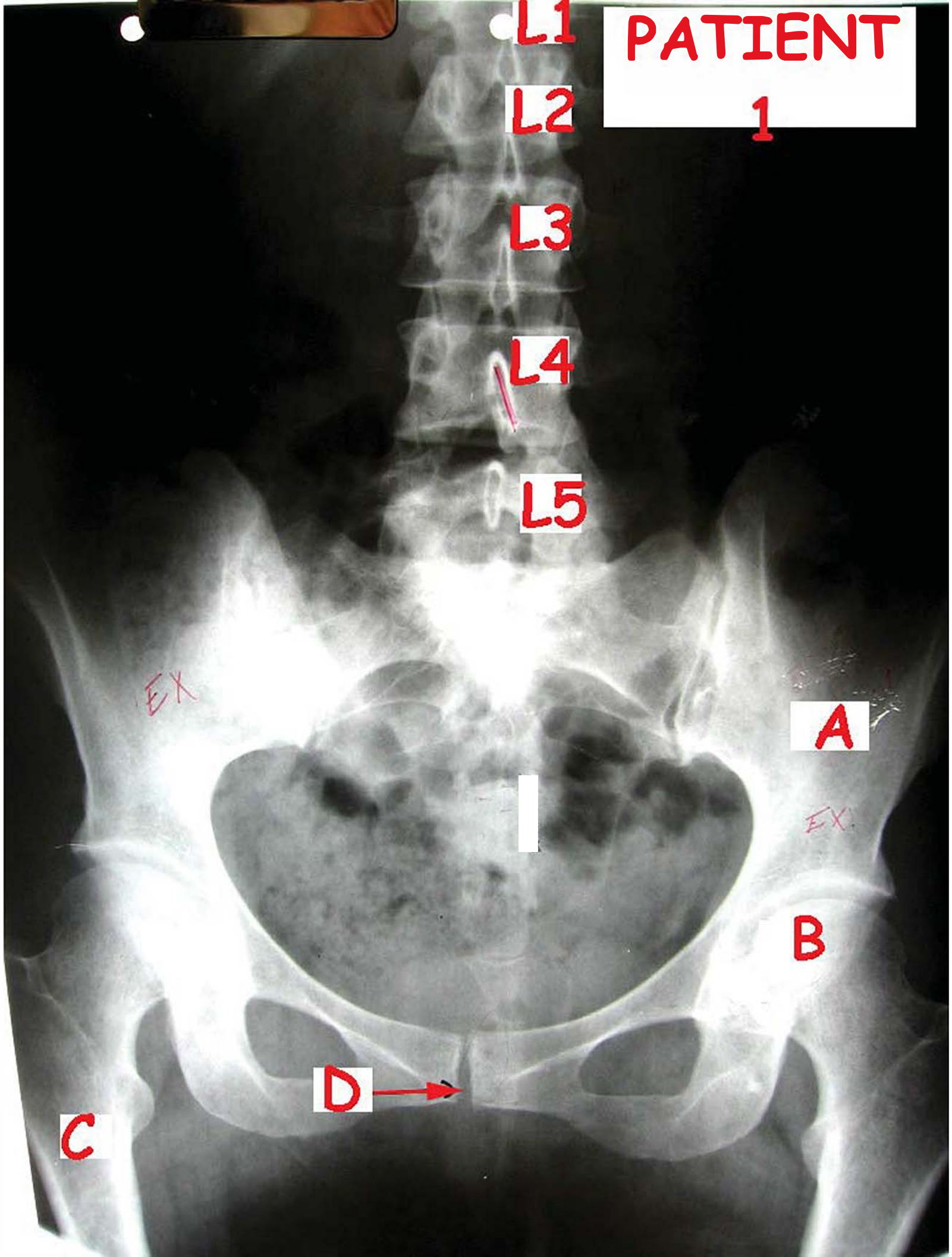
**A**

EX

**B**

**C**

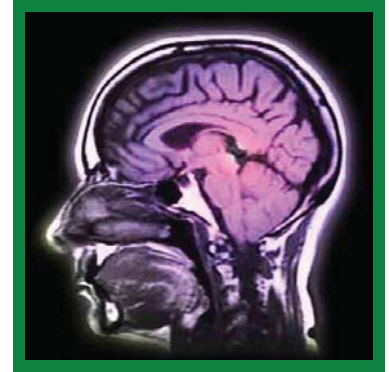
**D** →



X-Ray Lab



# Patient 2



Your patient has been complaining of headaches and a stiff neck. After examining this x-ray you are confident you have discovered the problem.

7. The line drawn on the x-ray indicates the spine is not properly lined up. The patient is suffering from a \_\_\_\_\_ (choose one)

- simple fracture
- hairline fracture
- subluxation
- dislocation

(HINT: consult your Medical Reference guide)

8. At which two vertebrae does the twist (misalignment) occur? (choose one)

- C7 and T1
- T1 and T2
- T2 and T3
- T4 and T5

9. What is the name of the bone marked "A"?

10. What is the name of the bone marked "B"?

11. What treatment would you recommend for this patient?

- adjust the spine
- surgery
- amputation (remember, this is a neck problem)

CONSULT YOUR MEDICAL REFERENCE GUIDE

PATIENT

2

A A A A

C6

C7

T1

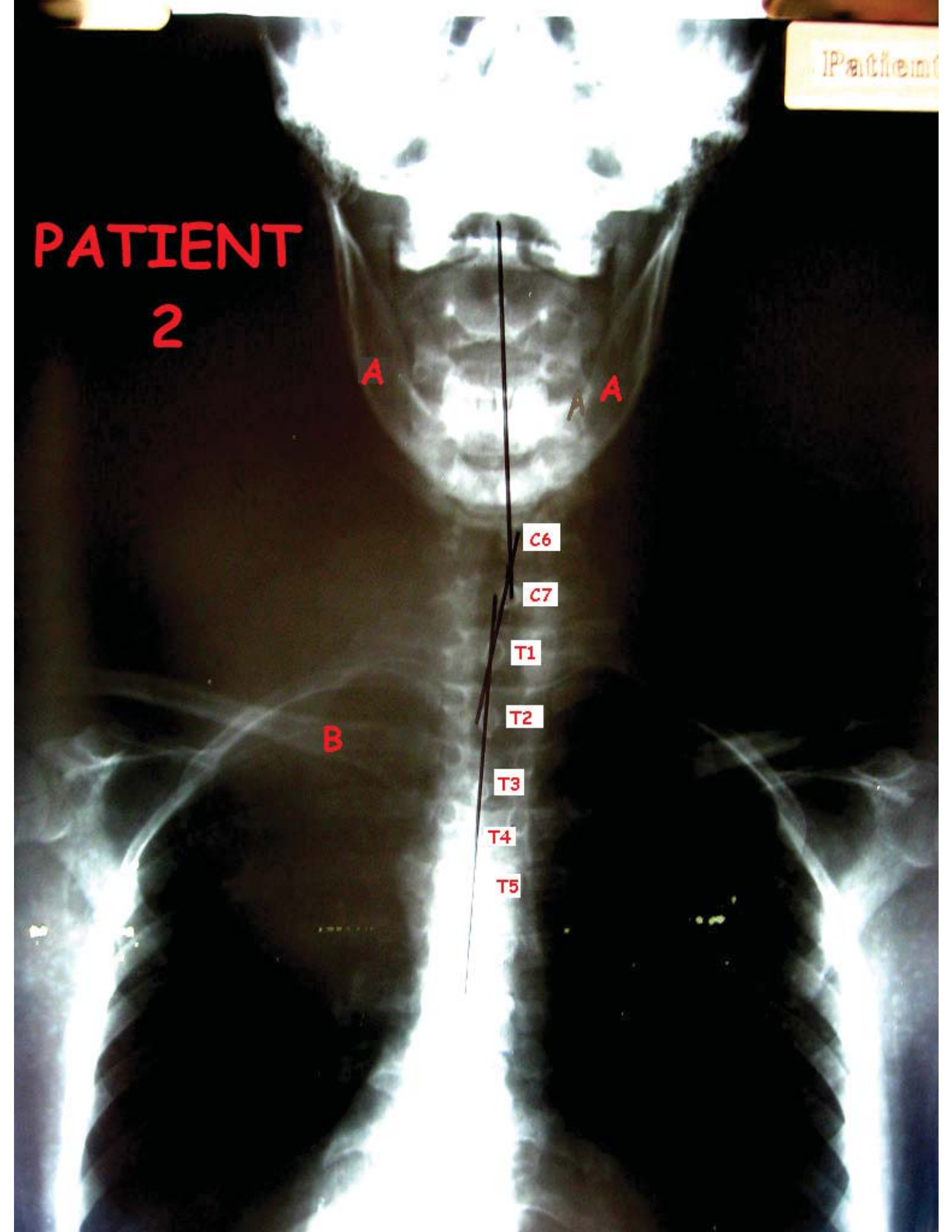
T2

T3

T4

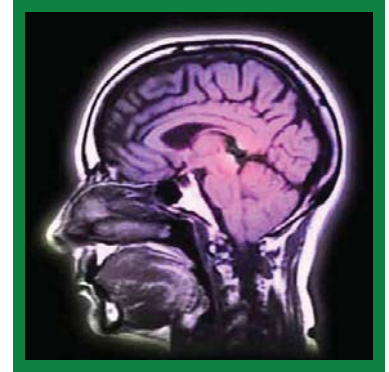
T5

B





# Patient 8



OH! My aching back!!

This is an example of x-ray fluoroscopy using a 'dye' and is called a **Myelogram** (mile-O-gram). It shows the condition of the spinal cord. The spinal cord appears white due to an injection of dye. This patient has a ruptured disk which is applying pressure to the spinal cord.

36. Between which two vertebrae is the bulging disk located?

37. What does 'T' stand for?

38. This patient is suffering pain in the \_\_\_\_\_ (pick one)

- upper back
- lower back
- neck
- foot

39. What **type of joint** is found in the spine?

T11

PATIENT

8

T12

L1

L2

L3

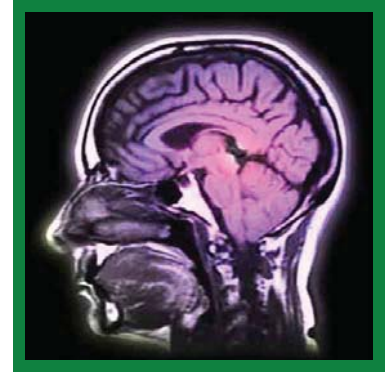
L4

L5



15000 HI  
KODAK FLEX BIODURA

# Patient 9



**Yolanda Flugelhoffer**, premier elephant trainer for the Barnum and Bailey Circus, suffered this injury when her newest elephant mistook the command "Go Forward" for "Sit Down". The flight for life helicopter removed the elephant and Yolanda was taken to the nearest hospital by ambulance.

39. What is the name of the bone that has been broken?
40. What **type of fracture** do you think this is?
41. What **type of joint** is at letter "A"?
42. What type of treatment do you think will be required to fix Ms. Flugelhoffer? (pick one)
  - a simple plaster cast
  - simple surgery to set the bone
  - major surgery to fasten the bone together with some type of hardware (pins, plates, screws, etc)
  - a new job training toy poodles

PATIENT

9

A

