

What Did You Say, Doc?: Problem Handouts



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What Did You Say, Doc?

Part 1

Symptoms:

John Angleman, a 41-year-old machinist, presents in June to the employee health doctor with complaints of difficulty hearing in the right ear. This began about three months ago, and he thinks it is getting worse. His wife noticed him turning his left ear towards her to hear her speak, and he has noticed that he has to use the phone on his left side. He has also been a bit unsteady, but attributes this to getting older. He states that he usually wears his protective ear plugs when working.

The physician examines him, and confirms that he cannot hear a high-pitched tuning fork as well with the right ear as he can with his left. He is referred to an audiologist.

The audiologist performs a formal assessment, and confirms severe loss of high- and medium-pitched tones and moderate loss of low-pitched tones.

No formal patient history is conducted.

Questions:

1. What might be the effect(s) of John's long-term employment as a machinist upon his hearing?
2. How would an audiologist differentiate between the various types of hearing impairment that John might be experiencing?

What Did You Say, Doc?

Part 2

John returns to his employee health doctor on 17 August of the same year. His hearing problems have progressed, and now he is also complaining of facial numbness and clumsiness of the right hand. He occasionally makes missteps with his right leg. The employee health doctor refers John to a neurologist.

Physical Exam:

A physical exam is conducted by the neurologist, and an examination of past medical records from the health doctor and audiologist confirms that John has seen a slight progression in his hearing loss since June. The physical exam yields the following results:

- Facial numbness on the right side of the face on examination with a pin and cold tuning fork when placed against the skin.
- Nystagmus was with beating to the right side primary gaze and worse when looking to the right.
- There is virtually no perception of the tuning fork on the right side.
- Clumsiness of the right hand with alternating movements and also when asked to do fast foot tapping on the right.
- An observation of gait also demonstrates missteps in John's gait.

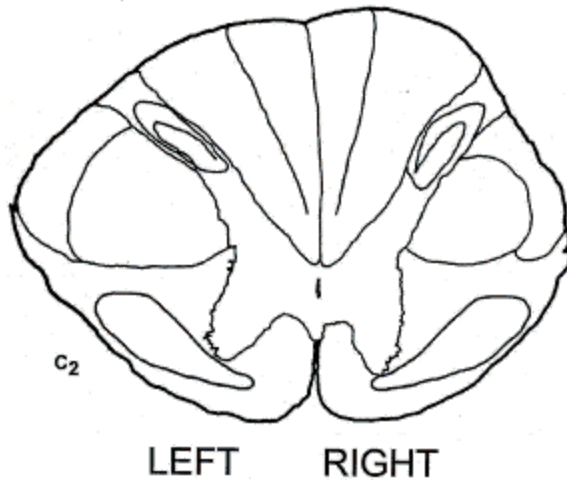
Based on the examination only what is/are the possible location(s) of Mr. Angelman's problem?

The neurologist orders a CT scan. The CT scan results are negative for lesions. However, because a CT scan does not visualize the posterior cranial fossa well, an MRI is ordered.

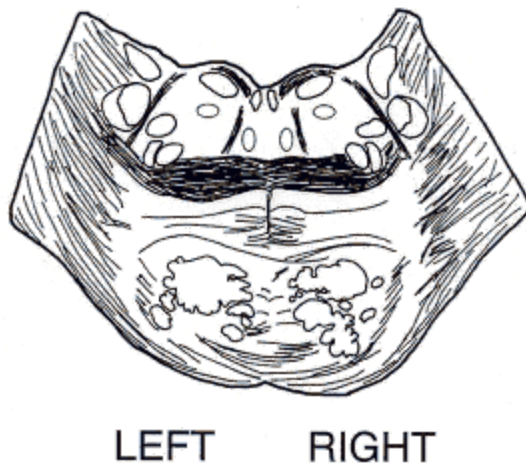
Utilizing *sound logic*, consider the following questions:

1. Why does a CT visualize the posterior cranial fossa poorly?
2. Based upon the symptoms presented, what should the MRI reveal?
3. What is your diagnosis of this patient?
4. On one of the accompanying diagrams, draw a continuous lesion that would best represent this patient's condition.

CNS Section: Option 1



CNS Section: Option 2

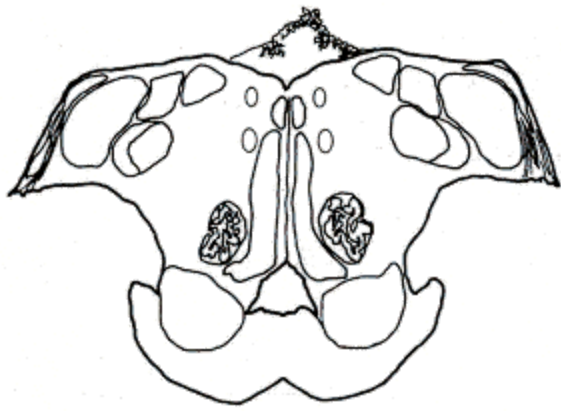


CNS Section: Option 3

(Note: Any lesion that would account for all symptoms would have to be found on multiple levels with the sections in this option)

<figure 1 missing!>

CNS Section: Option 4



LEFT RIGHT

What Did You Say, Doc?

Team and Self Assessment Form

Your name: _____

Please use the rating scale below to describe how you and your team members performed on each of the tasks listed associated with your PBL group's activities. The purpose of the grading is not to divide groups but to reward those making above average effort and to encourage those not giving their fair share to the group overall effort.

5 if Always 4 if Very Often 3 if Sometimes 2 if Rarely 1 if Never

PBL Group Number: _____

Please fill in PBL Group Members' *Last* Names (including your own)

Names _____ _____ _____ _____ _____

Completed assigned tasks _____ _____ _____ _____ _____

Contributed valuable
information to the group _____ _____ _____ _____

Attended group meetings _____ _____ _____ _____

Was honest in reporting
progress about his/her
assigned tasks _____ _____ _____ _____

Participated in writing
final report _____ _____ _____ _____



Now, ***please circle*** the rating below that you feel you would best describe your group's overall performance:

Very good

Good

Barely Acceptable

Poor

Very Poor



What Did You Say, Doc?

PBL Self Evaluation Form

This evaluation form will not be utilized in assigning any grades. However, it is beneficial to reflect on any progress that you might have made in various areas as a result of participating in a PBL course. Therefore, please evaluate yourself utilizing the following scale.

Scale:

- 5 = Strongly agree
- 4 = Agree
- 3 = Neutral
- 2 = Disagree
- 1 = Strongly disagree

Your name: _____

As a result of my participation in PBL in Human Anatomy I feel that I have improved in the areas of:

1. Effective group participation _____
2. Effective group communication _____
3. Evaluation of myself (self evaluation) _____
4. Evaluation of others (peer evaluation) _____
5. Acquiring information to solve complex problems _____
6. Evaluation of the quality of information needed
to solve complex problems _____
7. Working effectively with others _____



8. Higher-order, critical thinking skills _____

Overall improvement rating of yourself: _____

5 = excellent; 4 = good; 3 = average; 2 = needs work; 1 = poor

