

Audiogram Interpretation Interactive Exercises:

Basic Audiology Series

Audiogram Interpretation

- This activity will give you practice in interpreting basic audiograms
- Based on approach described in the Basic Audiogram Interpretation tutorial

Audiogram Interpretation
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Audiogram Interpretation Basics

- You will be asked to answer the following questions for each audiogram
 - **Is there a hearing loss?**
 - Yes if any thresholds > 25 dB HL (15 dB HL for children)
 - **How much hearing loss does the patient have?**
 - First described by calculating the pure tone average (average at 500, 1000, and 2000 Hz) and the high frequency pure tone average (average at 500, 1000, 2000, and 4000Hz)

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Audiogram Interpretation Basics

- You will be asked to answer the following questions for each audiogram
 - **What degree of hearing loss?**
 - Use both pure tone average and high frequency pure tone average to apply descriptive degree label from this table
 - Use worse degree indicator (if there is any difference) as the final degree of loss label

PTA (dB)	Descriptor
<= 15	No Loss
16 - 25	Slight
26 - 40	Mild
41 - 55	Moderate
56 - 70	Moderately-Severe
71 - 90	Severe
> 90	Profound

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Audiogram Interpretation Basics

- You will be asked to answer the following questions for each audiogram
 - **What type of hearing loss does the patient have?**
 - Conductive – evidenced by air/bone gaps with normal bone conduction thresholds
 - Sensorineural – evidenced by absence of air/bone gaps with both air and bone outside the normal range
 - Mixed loss – evidenced by air/bone gaps and bone conduction thresholds outside the normal range

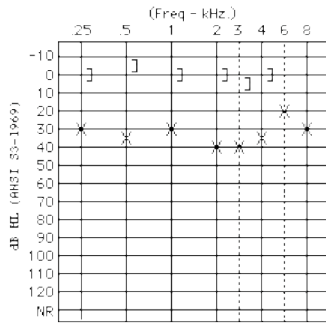
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Audiogram Interpretation Basics

- You will be presented with 5 audiograms to interpret
- In determining pure tone average and high frequency pure tone average report values in integers.
 - **If the average has a fractional part that is less than .5 round down; if the fractional part is .5 or greater round up**
 - 34.2 rounds to 34
 - 34.5 rounds to 35

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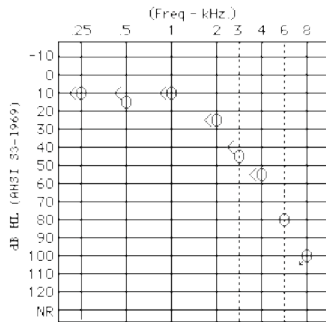
Audiogram 1



Does this person have a hearing loss? _____
PTA _____ dB
HFPTA _____ dB
Use ___ PTA ___ HFPTA
Degree of Loss? _____
Type of Loss? _____

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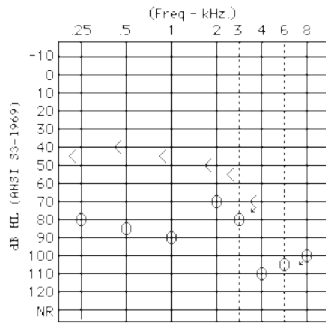
Audiogram 2



Does this person have a hearing loss? _____
PTA _____ dB
HFPTA _____ dB
Use ___ PTA ___ HFPTA
Degree of Loss? _____
Type of Loss? _____

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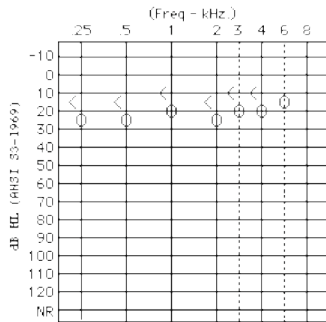
Audiogram 3



Does this person have a hearing loss? _____
PTA _____ dB
HFPTA _____ dB
Use ___ PTA ___ HFPTA
Degree of Loss? _____
Type of Loss? _____

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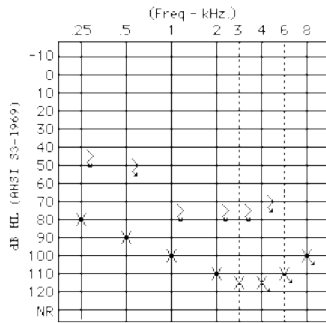
Audiogram 4



Does this person have a hearing loss? _____
PTA _____ dB
HFPTA _____ dB
Use ___ PTA ___ HFPTA
Degree of Loss? _____
Type of Loss? _____

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Audiogram 5



Does this person have a hearing loss? _____
PTA _____ dB
HFPTA _____ dB
Use ___ PTA ___ HFPTA
Degree of Loss? _____
Type of Loss? _____

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