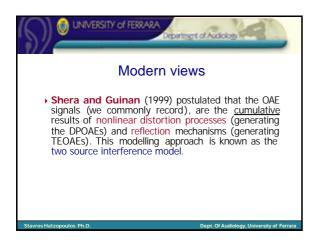
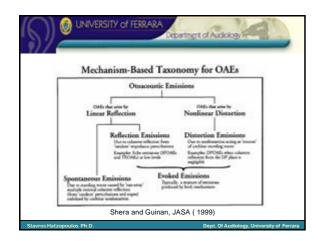


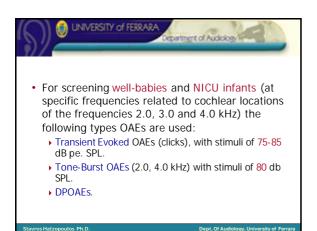
· Non-Evoked or Spontaneous OAEs.

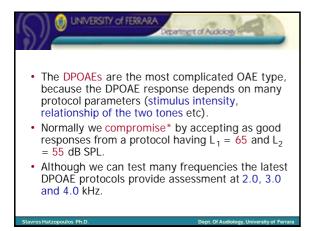
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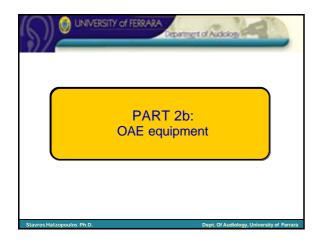














- From the fourth generation of devices (after 2000), the OAE equipment were designed to be (i) handheld; (2) equipped with simple patient / tests databases and (iii) with OAE and ABR recording facilities.
 - > Audioscreener , from GSI / Viasys
 - Scout Sport, from Biologic (as an option to an EP system)
 - AccuScreen (GN-Otometrics, Fischer -Zoth)
 - Eclipse-II (LABAT, Italy)

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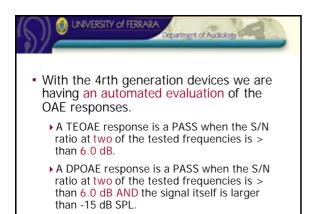


 OAEs are fast responses (good for hearing screening) but they provide only an assessment of the peripheral auditory function (NOT hearing). Also they are middle-ear dependent.

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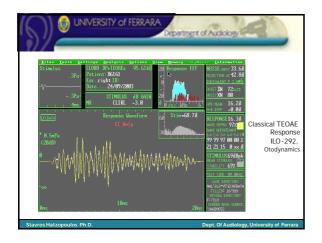
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• The OAEs have good overall sensitivity (identification of HL subjects) = 85% and specificity (identification of normal hearing subjects) = 92%

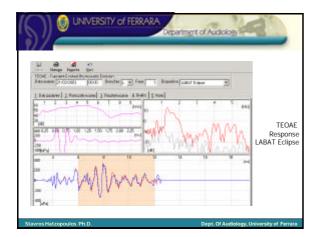


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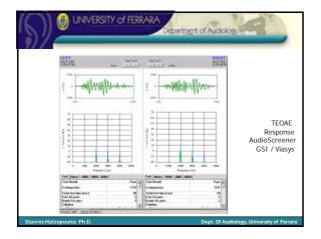




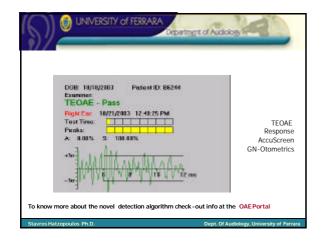




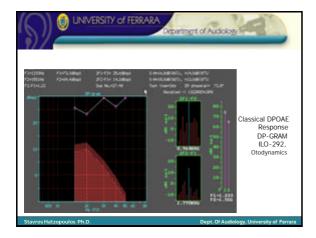




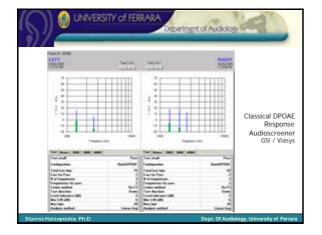




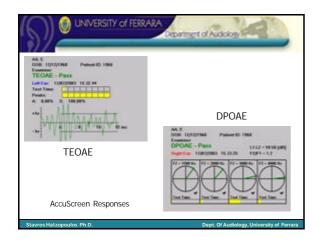


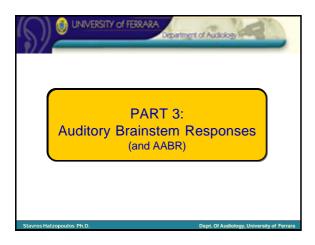


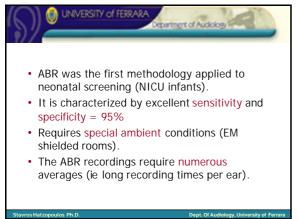










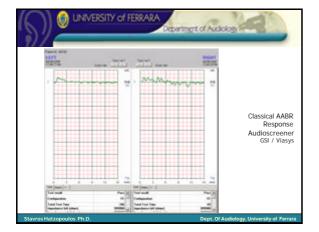


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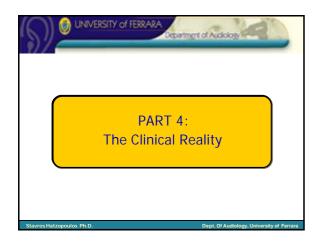


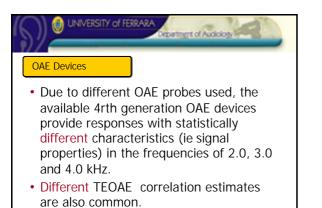
- The Automated ABR (AABR) uses specialized algorithms and signal templates to <u>detect the location</u> of Wave I-V in an latency interval.
- An AABR recording is PASS when a statistical measurement of the AABR algorithm is satisfied (probability of detection 98%)



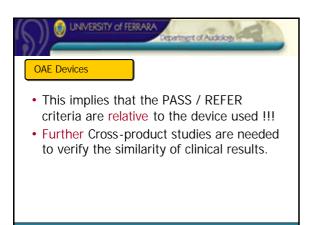


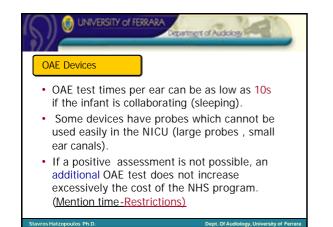


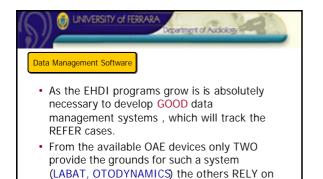




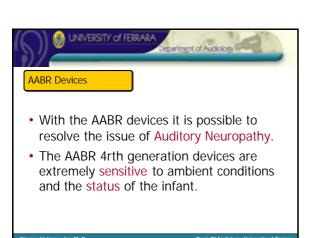
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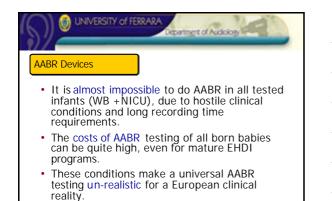




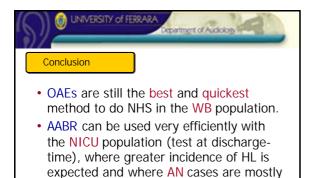


expensive third-party software.





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reported (OAE+AABR).

