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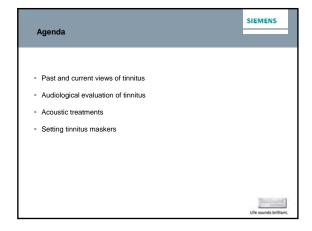
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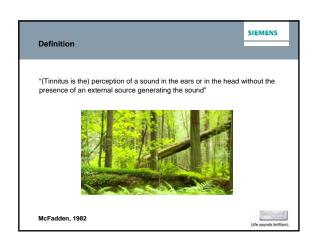
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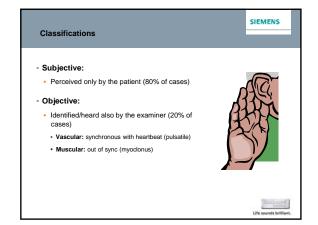
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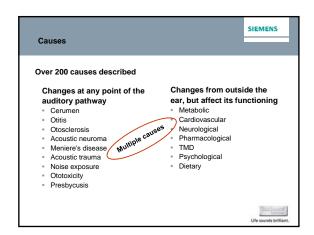
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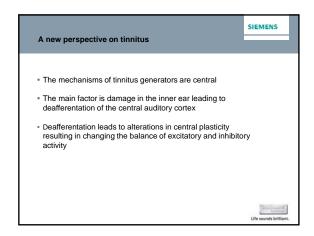
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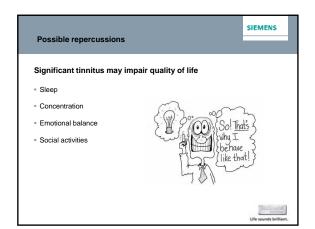


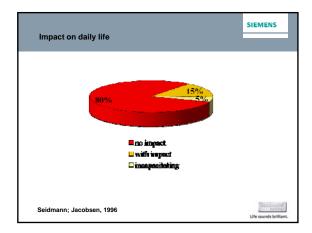


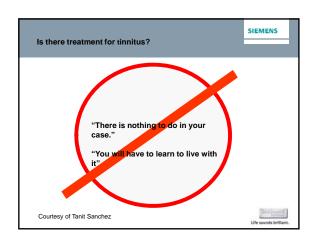


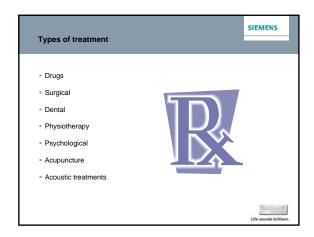






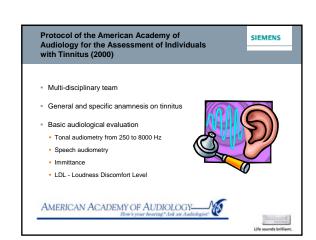


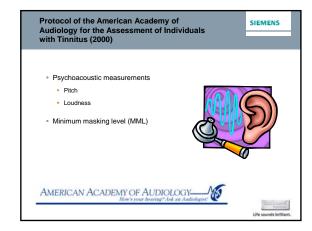


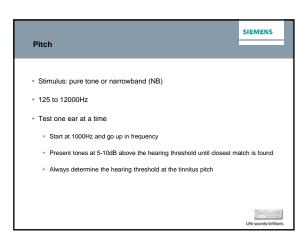


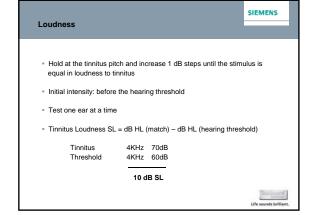




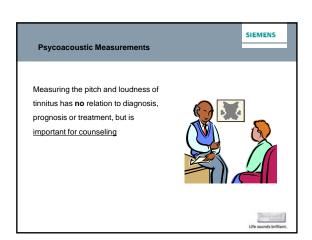






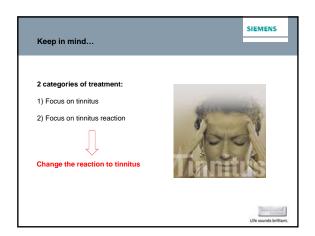


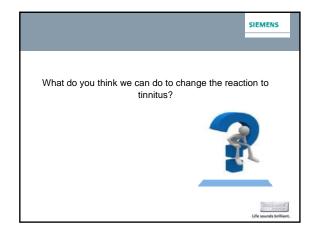
Instruct the patient that the purpose of this test is to see if we can cover or mask his / her tinnitus with another sound Find the hearing threshold for white noise in each ear Use whitenoise (WN) and start below hearing threshold increase in 5dB steps Record the lowest level that covers tinnitus The difference between this level and the hearing threshold for WN is MML Stop if the patient reports discomfort, even if the tinnitus is still audible.









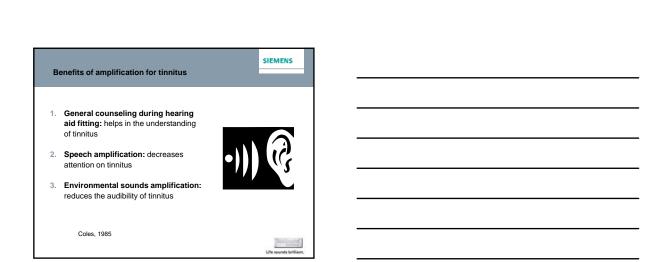


Essential components of treatment Counseling • The patient must understand what tinnitus is to overcome the negative associations • There is an association between auditory system and limbic system! • To avoid cortical tonotopic reorganization SIEMENS Siemens Acoustic treatments

Amplification alone

· General sound therapy

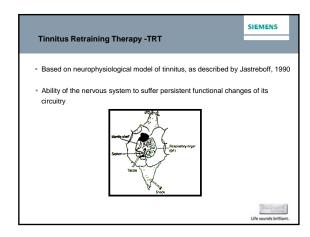
Tinnitus Retraining Therapy – TRT
 Tinnitus Activities Treatment - TAT

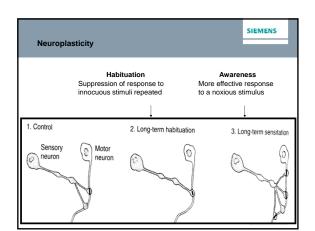


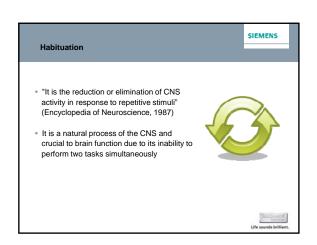
Benefits of amplification for tinnitus "The sounds amplified by the hearing aids produce neural activity by the auditory system, which interferes with the representation of tinnitus in the central auditory system" The most effective hearing aid settings for communication are not necessarily the best for reducing tinnitus audibility Anderson, 2002; Searchfield, 2006

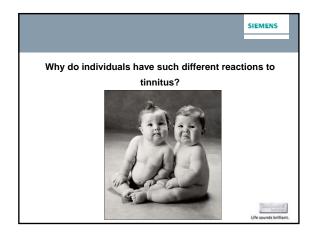
Patients with hearing loss and tinnitus, regardless of the nature and/or extent of the loss It is estimated that 90% of patients may benefit from traditional amplification Johnson, 1998; Henry et al., 2002

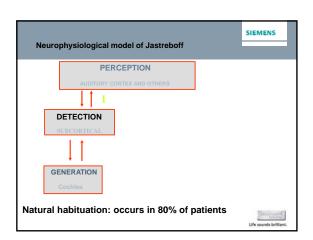






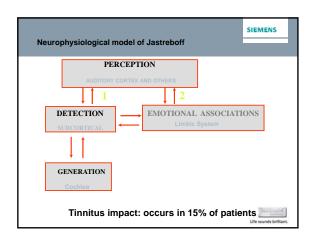


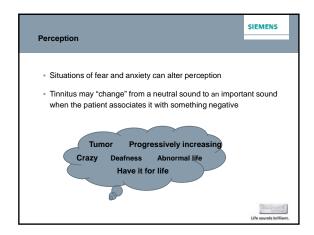


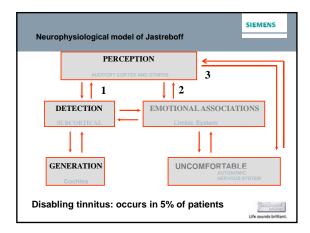


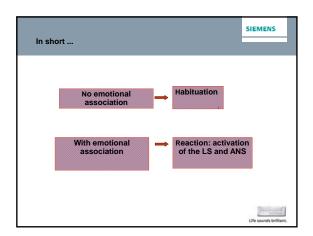
Criteria for selection of sounds A new sound (first time) attracts attention and provokes a reaction, stored in memory Sounds (not new) are compared to memories and ranked in perceived priority In situations of concentration, the brain ignores signals that could be perceived In situations of relaxation, the brain perceived signs that could be ignored in a state of concentration A signal contrasting with the other tends to be highlighted

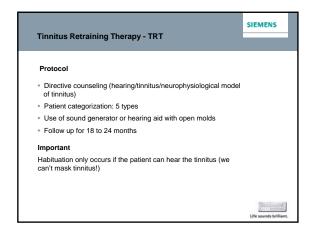


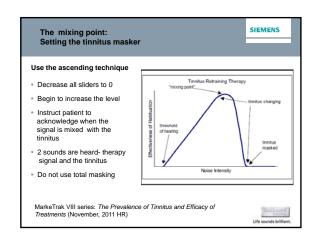




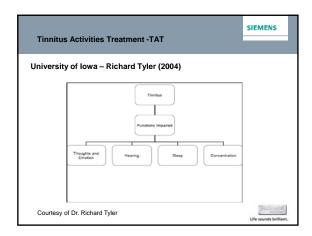


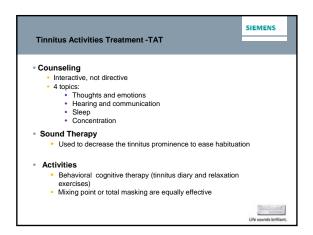


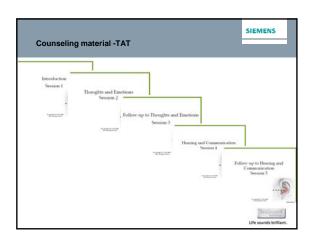


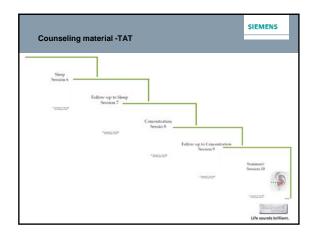












SIEMENS Use the ascending technique: decrease all sliders to 0 start to increase the noise level Stop when the patient reports the sound is audible and comfortable Try different signal types Choose what gives more relief and at the lower level Not using total masking or a mixing point Total masking is optional if the patient prefers sound of masking signal

