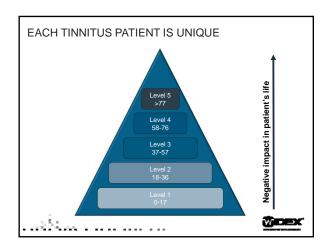
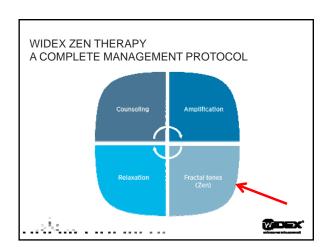


After this course learners will be able to explain how to program Widex Zen Therapy to recommended default settings in Zen+. After this course learners will be able to list 3 patient complaints that call for fine tuning of Zen. After this course learners will be able to list 3 patient complaints that call for fine tuning of Zen. After this course learners will be able to demonstrate how to modify program settings to change the relaxation level of Zen, create as sleep program and customize the frequency response of a noise stimulus.







EACH TINNITUS PATIENT IS UNIQUE • Widex offers five unique and infinitely flexible Zen Styles plus Zen noise • Aqua • Coral • Green • Lavender • Sand • Zen Noise • For the majority of patients, Aqua will be the best choice based on patient ratings for: • Relaxation • Effectiveness for reducing the annoyance from tinnitus • Aqua is the default setting but some patients will benefit from changing styles or making other adjustments within the Zen programs • Combinations of Zen tones, Zen noise and Amplification are simple to program

ZEN TONES, KEY POINTS

- Fractal tones follow the principles of music that are associated with relaxation, but unlike actual music, the patterns never repeat.
- Presentation levels
 - Based on patient's Sensogram
 - 10% of dynamic range SL presentation
 Adaptive (treated as a soft input)

 - Most noticeable in quiet environments
 Less noticeable in moderate to high level environments
- Promotes relaxation
- Promotes habituation through passive listening
- InterEar (or stereo) Zen is Standard in all Dream 440, 330, 220 products.
- Dream 110 comes standard with a non-InterEar (mono) version of Zen.



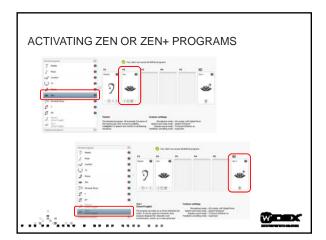


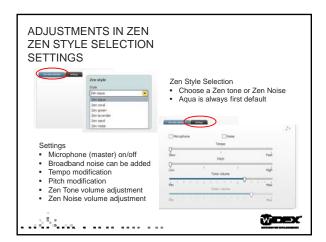
ZEN NOISE, KEY POINTS

- Zen noise: White noise modified by Sensogram and ear canal acoustics
 - Can be presented in any combination
 - With or without Zen Tones
 - •With or without amplification (master program)
 - ■Zen noise & Zen tones & amplification
- Zen noise shaped
 - Frequency response from 90 10,000Hz is controlled by HHP
 - High pass, low pass or narrow notch filter responses
 - Automatic loudness equalization when frequency bandwidth is changed

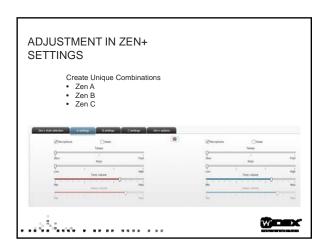


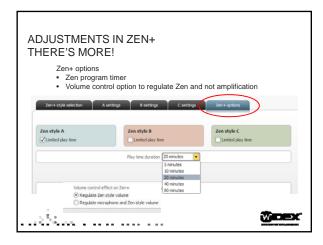


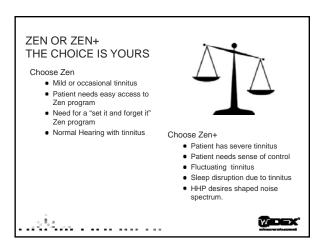


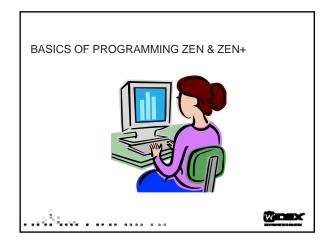


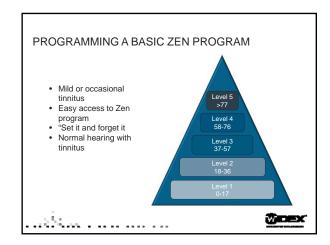


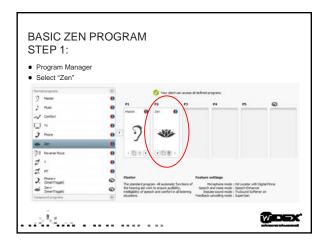


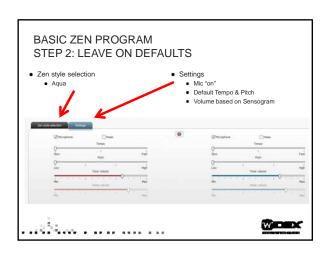


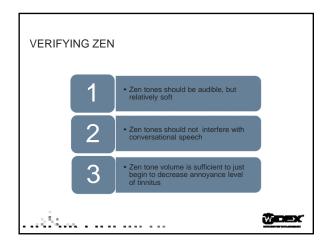












ZEN INSTRUCTIONS TO PATIENT



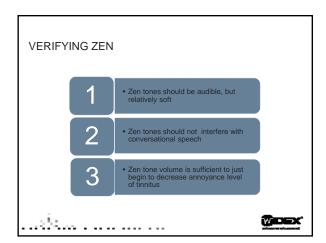
- Switch to Zen program as needed to enhance relaxation and help decrease the negative impact of tinnitus
- Okay to be in Zen program fulltime as long as it doesn't interfere with hearing speech or other important inputs.
- Objective is passive, rather than active listening

....<u>....</u>....



PROGRAMMING ZEN+ • Severe tinnitus • Patient needs sense of control • Fluctuating tinnitus • Sleep disruption due to tinnitus • HHP desires shaped noise stimuli. Level 2 18-36 Level 1 0-17

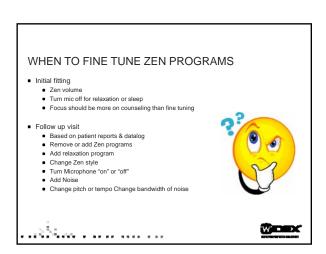
RECOMMENDED ZEN+ PROGRAMMING • Zen A: Aqua & Microphone • Zen B: Aqua & Microphone & Noise • Zen C: Microphone & Noise

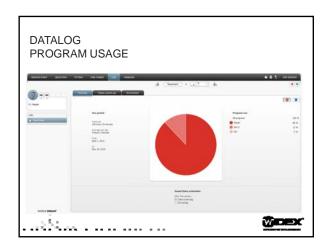


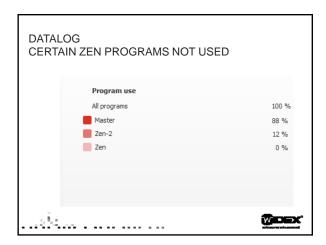
Two second push will activate Zen+. A one second push will then rotate between Zen A, Zen B, Zen C and then back to Zen A. Another two second push will return to Master Program Objectives: Passive listening, not masking Zen A: Eventual goal is to be in this setting most of the time Zen B: Useful early in treatment when additional relief needed Zen C: Option for occasions when tinnitus is more severe

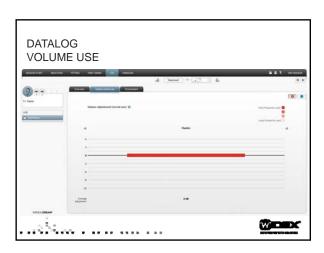
NORMAL HEARING ZEN OR ZEN+ Binaural Zen recommended Set Sensogram to a flat 15 or 20dB response, regardless of thresholds Uncheck "microphone" in all Zen Settings



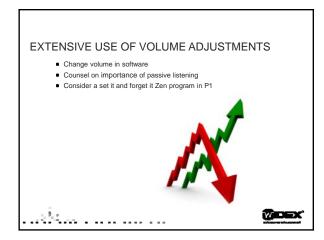


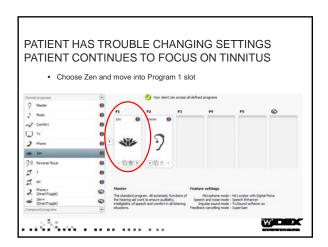










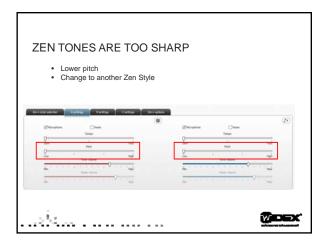


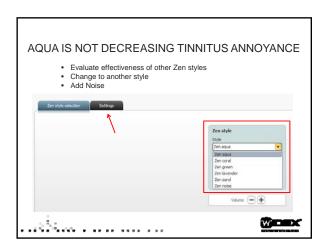
SLEEP ISSUES DUE TO TINNITUS - Uncheck microphone - Add Sleep timer (Zen+ Settings)

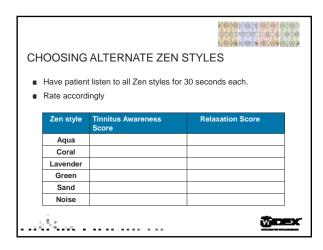
ZEN TONES ARE NOT PROVIDING ENOUGH RELIEF • Consider change of Zen style • Add Zen Noise • Counsel on realistic expectations and timelines

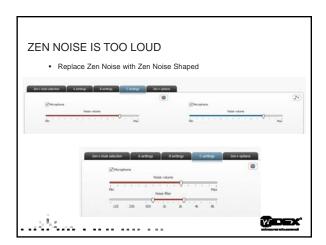


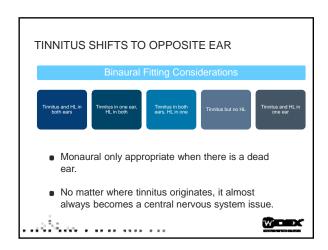
HIGH STRESS OR TOO RELAXED (FALLING ASLEEP) • Increase tempo to enhance alertness • Decrease tempo to enhance relaxation





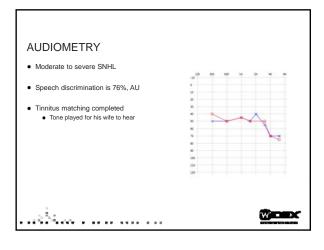


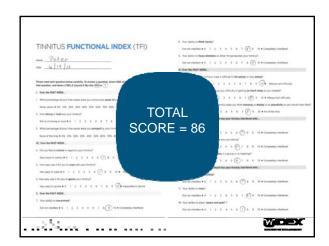


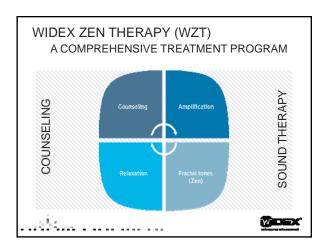


CASE STUDY	6 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
		Videx

PETER • 70 year old retired bus driver with HL and bilateral tinnitus • Recently very depressed • Notices tinnitus all day • Trouble sleeping • Fears he has a serious illness • Loss of interest in hobbies and grandchildren • Peter and his wife are fighting a lot because she is unsympathetic about tinnitus • Medical clearance and referral to audiologist









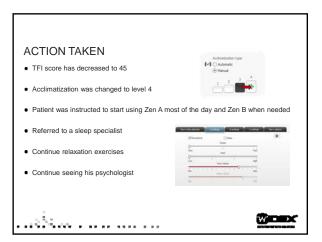
FIRST FOLLOW-UP Peter reports he is wearing the hearing aids all day, although wife disagrees Sound Diary reveals minimal use of hearing aids He is afraid they will make the tinnitus worse Peter still feels desperate for help but isn't sure this is the solution

ACTION TAKEN HEARING AID ADJUSTMENTS Peter is asked to rate to all Zen tones plus noise. Best results with Zen Lavender + noise Noise was increased in both B and C to a point that he just heard the tinnitus Instructed to increase usage 2 hours every day until he is wearing them full time. Instructed to use C during intense periods of tinnitus

1 MONTH FOLLOW-UP Hearing aid usage now 5 hours a day. Using all Zen programs Reports that he is experiencing some relief from his tinnitus Less stressed and fatigued Working with his psychiatrist on cognitive behavioral intervention Doing the breathing exercises to combat stress Still experiencing some trouble falling asleep at night

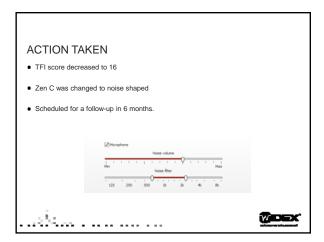
ACTION TAKEN	N	
The Audiologist instru Use the VC if he no	-	n C less and Zen B more often
Acclimatization increases	ased to level 3	⊕ Manul
 Given a Zen program night 	n on timer and with the mic	rophones off to help him sleep at
	Slow Ploth	Fast
	Low Tone volume	нућ
	Min Noise volume	Max
	No.	

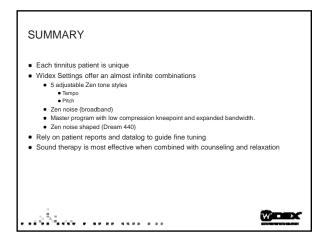
2 MONTH FOLLOW-UP Full time hearing aid use. Reports they are helping him hear his family Feels that he has control over his tinnitus for the first time since it started Sleeping much better but still has trouble staying asleep Wearing Zen primarily in the B program



Peter reports that he is doing much better Data logging reveals Master 65% of the time Zen A 25% Zen B 5% Zen C 5% Does not care for Zen C anymore, he feels it is "too much" His relationship with his family has gotten significantly better and he and his wife have planned a vacation together to celebrate His Psychologist has discharged him

ODEX





TAKE HOME POINTS		
	Counseling or Widex amplification alone may be sufficient for many tinnitus patients. Minimize fine tuning of Zen at initial fit Use Datalog as a guide for fine tuning Widex Zen Therapy protocol includes many counseling & stress management tools	
	WX	