

Hearing Health Hour Webinar Bibliography Hyperacusis | Monday, January 23, 5pm ET Richard Salvi, Ph.D.

## **Relevant Hyperacusis Literature**

- Auerbach, B.D., Rodrigues, P.V., Salvi, R.J. 2014. Central gain control in tinnitus and hyperacusis. Front Neurol 5, 206. Auerbach, B.D., Manohar, S., Radziwon, K., Salvi, R. 2021. Auditory hypersensitivity and processing deficits in a rat model of fragile X syndrome. Neurobiol Dis 161, 105541.
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- Hebert, S., Lupien, S.J. 2007. The sound of stress: blunted cortisol reactivity to psychosocial stress in tinnitus sufferers. Neurosci Lett 411, 138-42.Manohar, S., Spoth, J., Radziwon, K., Auerbach, B.D., Salvi, R. 2017. Noise-induced hearing loss induces loudness intolerance in a rat Active Sound Avoidance Paradigm (ASAP). Hear Res 353, 197-203.
- Henkin, R.I., Daly, R.L. 1968. Auditory detection and perception in normal man and in patients with adrenal cortical insufficiency: effect of adrenal cortical steroids. J Clin Invest 47, 1269-80.
- Levitin, D.J., Cole, K., Lincoln, A., Bellugi, U. 2005. Aversion, awareness, and attraction: investigating claims of hyperacusis in the Williams syndrome phenotype. J. Child Psychol. Psychiatry 46, 514-23.
- Pienkowski, M., Tyler, R.S., Roncancio, E.R., Jun, H.J., Brozoski, T., Dauman, N., Coelho, C.B., Andersson, G., Keiner, A.J., Cacace, A.T., Martin, N., Moore, B.C. 2014. A review of hyperacusis and future directions: part II. Measurement, mechanisms, and treatment. Am J Audiol 23, 420-36.
- Radziwon, K., Holfoth, D., Lindner, J., Kaier-Green, Z., Bowler, R., Urban, M., Salvi, R. 2017. Salicylate-induced hyperacusis in rats: Dose- and frequency-dependent effects. Hear Res 350, 133-138.
- Radziwon, K., Auerbach, B.D., Ding, D., Liu, X., Chen, G.D., Salvi, R. 2019. Noise-Induced loudness recruitment and hyperacusis: Insufficient central gain in auditory cortex and amygdala. Neuroscience 422, 212-227.Radziwon, K., Salvi, R. 2020. Using auditory reaction time to measure loudness growth in rats. Hear Res 395, 108026.
- Salvi, R., Chen, G.D., Manohar, S. 2022. Hyperacusis: Loudness intolerance, fear, annoyance and pain. Hear Res 426, 108648.
- Samson, J., Sheeladevi, R., Ravindran, R., Senthilvelan, M. 2007. Stress response in rat brain after different durations of noise exposure. Neurosci Res 57, 143-7.Tyler, R.S., Pienkowski, M., Roncancio, E.R., Jun, H.J., Brozoski, T., Dauman, N., Dauman, N., Andersson, G., Keiner, A.J., Cacace, A.T., Martin, N., Moore, B.C. 2014. A review of hyperacusis and future directions: part I. Definitions and manifestations. Am J Audiol 23, 402-19.
- Westcott, M., Sanchez, T.G., Diges, I., Saba, C., Dineen, R., McNeill, C., Chiam, A., O'Keefe, M., Sharples, T. 2013. Tonic tensor tympani syndrome in tinnitus and hyperacusis patients: a multiclinic prevalence study. Noise Health 15, 117-28.

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## **Tinnitus/Hyperacusis Management Program**

## In Person and Telehealth Appointments

Tinnitus is the perception of a sound in the ears or head that is unrelated to any actual physical sound. Hyperacusis is an abnormal sensitivity to the loudness of sound. Although there is no cure for either of these conditions, there are effective treatments to help lessen and manage the effects. The audiologists at our clinic have been specializing in the management of tinnitus and hyperacusis for 20 years. Our hearing research center has been conducting research in these disorders for even longer. We have found that a combination of sound therapy and counseling is very effective in helping the majority of patients. Sound therapy means using other sound to make the tinnitus less perceptible and to desensitize the auditory system. Our counseling programs include educational/informational counseling, cognitive restructuring, attention control/imagery training, mindfulness and relaxation training. With each patient, we listen carefully to understand how the problem is affecting you, perform a thorough evaluation, explain our findings and offer management options that are customized to your particular situation. We continue to explore new possible treatments for these conditions and can sometimes offer participation in a clinical trial.