Time of Day and Hearing Aid Adoption¹

Even though hearing loss results in negative consequences in economic, physical, cognitive, psychosocial, emotional, and behavioral domains, less than 1/3 of individuals² who could potentially benefit currently use hearing aids.



Objective:

Determine whether there is an association between the time of day at which an audiology appointment is scheduled and hearing aid adoption.



Hypothesis: Lower hearing aid adoption will be observed at times of the day when meal consumption takes place (noon) or is about to take place (4 p.m.).

Data collection:

Review of records of 24,842 adult patients

First-time patients

Recommendation for at least one hearing aid



Question:



Time of day for the appointments: 9, 10, and 11 a.m., noon, 1, 2, 3, and 4 p.m.



Results:

A significant association was observed between hearing aid adoption and the time of the day:

tendency to not pursue hearing aids at noon and at 4 p.m.



Discussion:

Due to the non-experimental nature of the methodology, the reasons for the observations above cannot be established for certain. However, there are some possible reasons:



This study shows that patients are less likely to proceed with hearing aids if their initial evaluation is scheduled at mid-day or end of the day. Further research is needed to fully understand the reasons behind these findings. In the meantime, clinicians should consider time of day when scheduling appointments, in order to maximize the chance of healthy hearing outcomes for their clients.

¹Singh , G. & Launer, S. (2018). Time of day and hearing aid adoption. Trends in Hearing, 22, 1-14. ²Kochkin, S. (2007). MarkeTrak VII: Obstacles to adult non-user adoption of hearing aids. Hearing Journal, 60(4), 27-43. ³Danziger, S., Levav, J. & Avnaim-Pesso, L. (2011). Extraneous factors in judicial decisions. Proceedings of the National Academy of Sciences, 108, 6889–6892.

Micell, P. J., & Wolosin, R. J. (2004). You're "running late"—now what? Patient satisfaction, wait time and physician behavior. Orlando, FL: The World Organization of National Colleges, Academics, and Academic Associations of General Practitioners/Family Physicians.

⁴Kripke, D. F., Youngstedt, S. D., Elliott, J. A., Tuunainen, A., Rex, K. M., Hauger, R. L., & Marler, M. R. (2005). Circadian phase in adults of contrasting ages. Chronobiology International, 22, 695-709.

