

## Supplemental materials for

DeJonckheere M, McKee MM, Guetterman TC, et al. Implementation of a hearing loss screening intervention in primary care. *Ann Fam Med*. 2021;19(5):388-395.

### Supplemental Appendix. Methods used in the EAR-PC mixed methods study

Detailed description of the EAR-PC mixed methods intervention study, including quantitative outcomes, has been previously published and is summarized here for context.<sup>24</sup>

**Participants and Setting:** Ten family medicine clinics across two health systems in Southeast Michigan were enrolled in the study. Sites varied in size of the patient population, number of providers, location, and provider workflows.

**Intervention:** The intervention was an electronic clinical prompt that was developed by the research team using insight from cognitive interviews with family physicians.<sup>20,23</sup> The prompt was embedded in the electronic health record. The prompt appeared during any visit for all patients who were 55 years of age or older and did not have hearing loss documented in their chart. The prompt encouraged physicians to ask a single question screener for hearing loss: “Do you have difficulty with your hearing?” When the prompt appeared, physicians could respond by indicating: 1) patient had known and/or addressed HL; 2) patient had suspected HL and was referred for testing; 3) patient had suspected HL but declined referral; 4) patient did not have HL. Additionally, physicians could choose to dismiss the prompt. After a physician acted on the prompt, it would not appear again in the EHR for one year.

**Training:** Physicians participated in a one-time educational session at an all-team meeting several weeks prior to the intervention being implemented at their clinic. The program included a brief assessment of HL knowledge and an educational video on HL and the clinical prompt.