

**Supplementary Table 1: Items included in the four knowledge subscales**

Knowledge Subscales	Items (three answer options: “yes”, “no” and “don’t know”)
Hearing Protection Use	You do not need to wear earplugs if you work around loud noise only for five minutes.
	There are only a few styles of hearing protectors available.
	Identification of noisy tasks around your farm should be done before you decide if you need to use hearing protection.
	How long the hearing protection needs to be used during a production activity depends on intensity of noise during that activity.
	Distance from the source of noise is an important factor that determines whether and for how long hearing protection needs to be used.
	Every earplug is very flexible and can fit into any ear.
Ways to Avoid Noise Exposure	A noise level meter can provide us enough information to make a decision whether hearing protection is needed.
	Keeping cab doors and windows closed is one way to minimize exposure to loud noise.
	The best way to avoid hearing loss is to reduce your exposure by using quieter equipment or staying away from noise.
	Well-lubricated equipment produces less noise.
Noise Intensity	A "decibel" is the unit used to measure the loudness of noise.
	If you are exposed to 85 dB for 8 hours it becomes dangerous to your ears.
	A grain dryer can generate noise over 100 dB.
	The noise intensity of a chain saw is not high enough to cause hearing loss in less than 4 minutes.
	Different farm operations produce different noise intensities.
	Squealing pigs produce much higher noise level than an open cab tractor.
General Hearing Health	Hearing aids correct hearing the same way glasses correct vision.
	Tinnitus (ringing in the ears) may show up before you even notice any hearing loss.
	Hearing loss cannot happen in younger farmers.
	Hearing loss caused by farm noise is preventable.

**Supplementary Table 2: Items included in the three attitude subscales**

Subscales	Items
Hearing Protection Use	If you are a farmer hearing protection is much more necessary compared to other people in your community who do not work on a farm.
	It is possible to protect my hearing even when I know the noise is too loud around me.
	It is not difficult to buy hearing protections because they are very inexpensive.
	Ear plugs and ear muffs are more effective than simple cotton to prevent hearing loss.
	We have hearing protection available at my worksite.
	We need to measure noise levels during farm operations to decide if the noise level is harmful enough for hearing protection.
	When to wear hearing protection is not an easy decision if I do not know the noise level of each task.
Self-Efficacy	I know why I should use hearing protection.
	I know when I should use hearing protection.
	I know how long I should wear hearing protection during each farm activity that produces noise.
	I know how to use hearing protection correctly.
Impact of Hearing Loss	Due to the noise produced during my farm activities I am more likely to lose my hearing in the future.
	If I have hearing loss it will interfere with my daily activities.
	If I have hearing problem it will affect my ability to work.



**Supplementary Figure 1. Recruitment of participants in three intervention groups and study design.**



