

11
11
11

()

.....

*

()

()

()

Relative Risk

Chi-square

Pure Tone Audiometry

$\pm /$	$/ \pm /$	\cdot	\cdot	\cdot	\cdot
RR	$(P < /) \%$	\cdot	\cdot	\cdot	\cdot
$/$	RR	$(P < /) \%$	$\%$	$\%$	\cdot

Archive of SID

()

()

()

()

Historical Cohort Study

()

()

()

(Sound Level Meter)

() (

)

(

)

()

()

()

(())

)

()

/

%

(Drop out) (Pure Tone Audiometry) PTA

(t = / df = P< /)

(P< /)

(%)

t-test

Chi Square
(Relative Risk)

(P< /)

(CI)

%

() (Pilot)

%

%

P2 P1

Chi Square

%

(% %)

(P< /)

%

(P< /) %

(Relative Risk)

(Relative Risk)

/

(% CI = / /)

. (% CI = / /)

%

()	()	()	()
± SD	± SD	± SD	± SD
/ ± /	/ ± /	/ ± /	± /
/ ± /	/ ± /	/ ± /	/ ± /
P< /	P< /	P< /	P< /

()	()	*()
± SD	± SD	± SD
/ ± /	/ ± /	/ ± /
/ ± /	/ ± /	/ ± /

.(t=2.1, df=118, p<0.05) *

()

()	()	()	()
()	()	()	()
()	()	()	()

()

)

(

Lusk

()

()

()

/

.()

() Santana

.()

Archive of SID

Palmer

()

()

/

.()

%

()

()

REFERENCES —————

1. Clark W. Hearing: the effect of noise. *Otolaryngol Head Neck Surg* 1992; 106(6); 669-76.
2. Landen D, Wilkins S, Stephenson M, McWilliams L. Noise exposure and hearing loss among sand and gravel miners. *Occup Environ Hyg* 2004; 1(8): 532-41.
3. Osguthorpe JD, Klein AJ. Occupational hearing conservation. *Otolaryngol Clin North Am*. 1991; 24(2): 403-14.

-
5. Guidotti TL, Novak RE. Hearing conservation and occupational exposure to noise. *Am Fam Physician* 1983; 28(4): 181-6.
 6. Baker DB, Landrigan PJ. Occupationally related disorders. *Med Clin North Am* 1990; 74(2): 441-60.
 7. Williams W, Purdy S, Murray N, LePage E, Challinor K. Hearing loss and perceptions of noise in the workplace among rural Australians. *Aust J Rural Health* 2004; 12(3):115-9.

 9. Lusk SL, Hagerty BM, Gillespie B, Caruso CC. Chronic effects of workplace noise on blood pressure and heart rate. *Arch Environ Health* 2002; 57(4): 273-81.
 10. Santana VS, Barberino JL. Occupational noise exposure and hypertension. *Rev Saude Publica*. 1995, 29(6): 478-87.
 11. Reilly MJ, Rosenman KD, Kalinowski DJ. Occupational noise-induced hearing loss surveillance in Michigan. *J Occup Environ Med* 1998; 40(8): 667-74.
 12. Palmer KT, Griffin MJ, Syddall HE, Davis A, Pannett B, Coggon D. Occupational exposure to noise and the attributable burden of hearing difficulties in Great Britain. *Occup Environ Med* 2002; 59: 634-9.
 13. Palmer KT, Griffin MJ, Syddall HE, Coggon D. Cigarette smoking, occupational exposure to noise, and self reported hearing difficulties. *Occup Environ Med* 2004; 61: 340-4.
 14. Irwin J. What are the causes, prevention and treatment of hearing loss in the ageing worker? *Occup Med* 2000; 50(7): 492-5.
 15. Cruickshanks KJ, Wiley TL, Tweed TS, Klein BE, Klein R, Mares-Perlman JA, et al. Prevalance of hearing loss in older adults in Beaver Dam, Wisconsin. The epidemiology of hearing loss study. *Am J Epidemiol* 1998; 148(9): 879-86.
 16. Uimonen S, Maki-Torkko E, Sorri M. Hearing and occupation. *Int J Circumpolar Health* 1998; 57(2-3): 156-61.
 17. Saiyed HN, Tiwari RR. Occupational health research in India. *Ind Health* 2004; 42(2): 141-8.