

//
//

()

*

:

cross-sectional

:

()
()

()

patch test

%

(%)

:

()

%

patch test

:

patch test

:

"

"

natural rubber

latex

.()

.()

(:

(

B

(

.()

.()

patch test

% / % /

:

.()

patch test

.()

nursing home

Paratertiarybutyl phenol Formaldehyde Resin

(% /)

.()

N-Isopropyl-N-phenyl paraphenylenediamine

Natural rubber latex

cross-sectional

/
 % /
 % /
 / ± /
 % /
 % / (% /)
 % / (%)
 % /
 % / (% /)
 / ± /
 / ± /
 Patch test
 ± /
 / ± /
 (% /) Patch test ± /
 (% /) (% /) / ± /
 (% /) (%)

P value (Fisher's Test)	N=162	N=207	
/	(% /)	(% /)	
	(% /)	(% /)	
/	(% /)	(% /)	()
	(% /)	(% /)	
/	(% /)	(% /)	()
	(% /)	(% /)	
/	(% /)	(% /)	
	(% /)	(% /)	
/	(% /)	(% /)	
	(% /)	(% /)	

()
()

()

Smith

()

" "

()

% /

()

(% /) () (%) () (% /)
() (%) () (%) () (% /) ()

()

() (%)

() (%)

() (%)

()

() (%)

() (% /)

()

B

()

.()

%

Forrester

.()

)

(

(

)

Forrester

C B

()

%

B

REFERENCES

1. Jungbauer FH, Lensen GJ, Groothoff JW, Coenraads PJ. Exposure of the hands to wet work in nurses. *Contact Dermatitis* 2004; 50: 225-9.
2. Forrester BG, Roth VS. Hand dermatitis in intensive care units. *J Occup Environ Med* 1998; 40(10): 881-5.
3. Nettis E, Colanardi MC, Soccio AL, Ferrannini A, Tursi A. Occupational irritant and allergic contact dermatitis among healthcare workers. *Contact Dermatitis* 2002; 46: 101-7.
4. Jolanki R, Estlander T, Kanerva L. Occupational dermatoses among laboratory assistants. *Contact Dermatitis* 1999; 40: 166-8.
5. Smith DR, Choi JW, Yu DS, Ki M, Oh CH, Yamagata Z. Skin disease among staff in a large Korean nursing home. *Tohoku J Exp Med* 2002; 198: 178-80.

-
6. Smith DR, Kubo H, Tang S, Yamagata Z. Skin disease among staff in a Japanese nursing home. *J Occup Health* 2003; 45: 60-2.
 7. Alanko K, susitaival P, Jolank R, Kanerva L. Occupational skin disease among dental nurses. *Contact Dermatitis* 2004; 50: 77-82.
 8. Smith DR, Adachi Y, Mihashi M, Kawano S, Ishitake T. Hand dermatitis among clinical nurses in Japan. *Clin Nurs Res* 2006; 15(3): 197-208.