Dragon, Karen E. (CDC/NIOSH/EID)

From: Christina Weinberg [christina575@sbcglobal.net]
Sent: Friday, June 29, 2007 4:52 PM
To: NIOSH Docket Office (CDC)
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Subject: TIL NIOSH Docket 036 AIHCE

We reference presentation to AIHCE on 6/6/07 by the U/C Centre for Health Related Aerosol Studies of a TIL Portacount plus study :
PERFORMANCE EVALUATION OF A NOVEL STRAPLESS ADHESION FACE SEALED HALF MASK RESPIRATOR FOR REDUCING INHALATION EXPOSURE

Sergey A Grinshpun,Takeshi Hondo ,Robert Eninger,and Roy T. McKay

Study Conclusions:

The Viramask Adhesion N100 capable Respirator: (, H&V TSI 8130 testing) Penetration .008% at .3 microns/85lpm and Delta P of 10 mm H20 is currently capable of passing the more stringent TIL requirements .

1.....passed 25 of 25 LANL protocol with no exhalation valve and perfectly tracked facial and breathing exercises of the protocol in a one size fits all configuration .

2.....The same conditions only allowed banded conventional N100 certified 8233 to pass 9 out of 25 on the first try and 4 never passed at all no matter how much adjustment

3.....Coefficient of variability very uniform and half that of conventional banded mask so that study shows Viramask adhesion Faceseal technology consistently fits much more of the general population on the first try.

4.....TIL of viral sized particles including H5N1 Virus would be much lower than through conventional masks as faceseal is not stressed by higher filter efficiency and delta P materials. Measurements were done at 85lpm across the size spectrum from 20 to 500 nanometers by specialized state of the art instrumentation.

Stan Weinberg
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