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**University of Washington**  
**Former Hanford Worker Medical Monitoring Program**

Summary of  
Screening Exam Results

(thru 9/30/2006)

Phase II Year 8

Quarter 3, 2006

Find UW Hanford Activities at: <http://depts.washington.edu/fmrwrkr>

University of Washington Occupational and Environmental Medicine Program

# Worker's Demographics

N=2,492 workers with exam(s)

Male 2,008 (80.6%)

Female 484 (19.4%)

Race	Number Tested	Percent
Missing	214	8.6%
White	2120	85.1%
Black	52	2.1%
Asian	19	0.8%
Hispanic	42	1.7%
American Indian/ Alaska Native	26	1.0%
Other	19	0.8%

# Medical Exam Results

N=2,492 workers with exam(s)

<b>Test</b>	<b>Workers Tested</b>	<b>Number Abnormal*</b>	<b>Percent Abnormal</b>
Physical Exam(s)	2492	1420	57.0%
FVC or FEV1 less than 80% of predicted	2369	951	40.1%
Chest X-ray	2382	1089	45.7%
Positive Beryllium	2148	75	3.5%
Significant Hearing Loss	1828	1377	75.3%
Total Requiring Follow-up	2492	2173	87.2%

\*Includes number of workers with an abnormal finding at one or more exam visits

# Exam Results: Spirometry

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Spirometry results available for 2,369 workers

Number of Workers Below 80% at one or more exam visits:

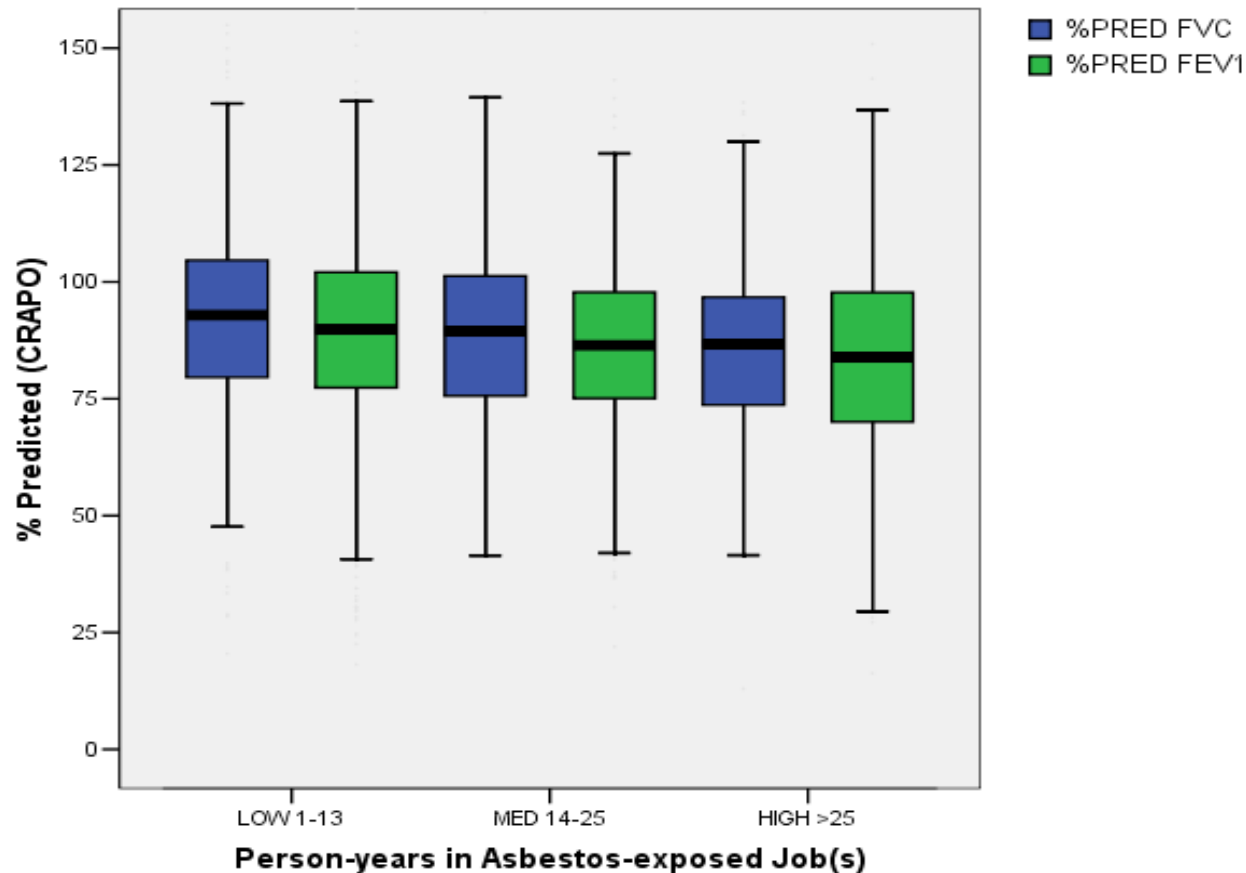
FEV1	877 (37.0%)
FVC	740 (31.2%)

Respiratory Dysfunction by Category

	Number of Workers*
Obstructive	409 (17.3%)
Restrictive	376 (15.9%)
Mixed	201 (8.5%)

\*Includes number of workers with said Respiratory Dysfunction at one or more exam visits

# Exam Results: Spirometry for Workers with Asbestos Exposure



N = 781 for low category, 326 for medium category, and 307 for high category

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# Exam Results: Audiometry

N=1,828 workers with audiogram

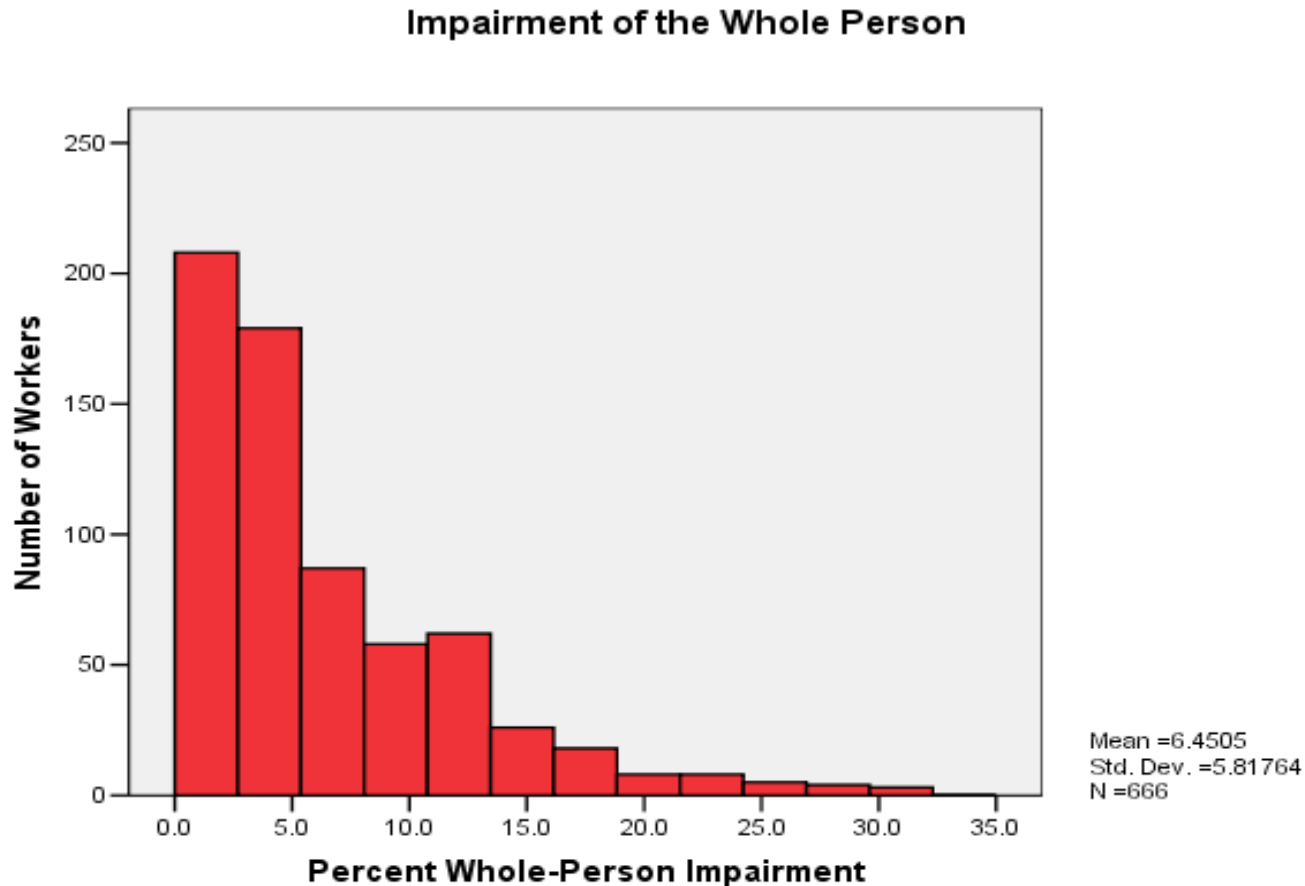
- Hearing Exams 1,377 of 1,828 (75.3%)  
have hearing loss which warrants follow-up

Mean dB Threshold by Frequency

<u>Hz.</u>	<u>Mean Threshold</u>
500	17.79
1000	18.66
2000	25.57
3000	37.30
4000	46.68
6000	54.17

# Exam Results: Audiometry

## AMA Guides to the Evaluation of Permanent Impairment



# Exam Results: Chest Radiographs

N=2,382 workers with CXR

ILO Perfusion Score	Number of workers** with CXR scored by category*	% with score
0/0	2226	93.5%
0/1	38	1.6%
1/0	53	2.2%
1/1	44	1.8%
1/2	14	0.6%
2/1 or higher	7	0.3%
Total	2382	
Workers $\geq$ 1/0	118	5.0%

\*0/0 includes those scored as “No parenchymal abnormalities consistent with pneumoconiosis”

\*\*Workers with more than one CXR were assigned the ILO score of their “worst case” CXR

# Exam Results: Chest Radiographs

N=2,382 workers with CXR

Pleural Thickening	Unilateral Count* (%)	Bilateral Count* (%)
Diaphragm	103 (4.3%)	56 (2.4%)
Costophrenic Angle	52 (2.2%)	9 (0.4%)
Circumscribed	130 (5.5%)	309 (13.0%)
Difuse	37 (1.6%)	16 (0.7%)
Calcification	92 (3.9%)	96 (4.0%)

Evidence of Pleural Plaques in 434 (18.2%) workers

\*Includes number of workers with said finding at one or more exam visits

# L&I Claims Recommended

N=2,492 workers with exam(s)

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- ☒ Workers with Claims Recommended:
  - ☒ 561 Asbestos Claims
  - ☒ 90 Beryllium Claims
  - ☒ 874 Hearing Claims

\*Includes number of workers with claim recommended at one or more exam visits

# Smoking History

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N=2,270 Workers with both exam and smoking history available

Ever Smoke	1,376 (60.6%)
Smoke now	233 (10.3%)

## Packyears of Smoking,

Average number of packs per day \* Years of smoking

Mean	25.70 Packyears
Standard Deviation	22.60
Range	1-183

# Beryllium Positive\*

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Of 75 workers with at least one positive LPT

1 ILO Perfusion Score 1/0 or greater

Respiratory Dysfunction Category:

9	Obstructive
15	Restrictive
2	Mixed

\*Includes number of workers with said positive LPT and/or Respiratory Dysfunction at one or more exam visits

# Age of Workers at Exam

N=2,492 workers with exam(s)

