Former Worker Medical Screening Program (FWP)

Screening Results


Ames Laboratory: 2006 – March 31, 2012

Department of Occupational and Environmental Health

The University of Iowa College of Public Health
Total Former Workers Who Have Received Medical Screening

Screenings conducted through University of Iowa & National Supplemental Screening Program (NSSP)

Number of Former Workers

- Line 1
  - Initial Screening: 1,313
  - 3 year follow-up Screening: 696
  - 6 year follow-up Screening: 246
  - 9 year follow-up Screening: 19

- Ames Laboratory
  - Initial Screening: 1,630
  - 3 year follow-up Screening: 399
  - 6 year follow-up Screening: 2
  - 9 year follow-up Screening: 2

Site & Type of Screening
### Age of Former Workers Screened

<table>
<thead>
<tr>
<th>Line</th>
<th>Males: average age (age range)</th>
<th>Females: average age (age range)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Initial Screening</strong></td>
<td>73 (40 - 94)</td>
<td>74 (45 - 95)</td>
</tr>
<tr>
<td><strong>3 year follow-up Screening</strong></td>
<td>78 (53 - 94)</td>
<td>79 (49 - 91)</td>
</tr>
<tr>
<td><strong>6 year follow-up Screening</strong></td>
<td>75 (56 - 91)</td>
<td>74 (59 - 94)</td>
</tr>
<tr>
<td><strong>9 year follow-up Screening</strong></td>
<td>79 (60 - 92)</td>
<td>66 (62 - 69)</td>
</tr>
<tr>
<td><strong>Ames Laboratory</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Initial Screening</strong></td>
<td>63 (21 - 98)</td>
<td>56 (22 - 84)</td>
</tr>
<tr>
<td><strong>3 year follow-up Screening</strong></td>
<td>71 (38 - 91)</td>
<td>63 (40 - 85)</td>
</tr>
<tr>
<td><strong>6 year follow-up Screening</strong></td>
<td>66 (66 – 66)</td>
<td>70 (70 – 70)</td>
</tr>
</tbody>
</table>
Total Former Workers Who Have Received Chest X-ray

<table>
<thead>
<tr>
<th>Site &amp; Type of Screening</th>
<th>Number of Former Workers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line 1</td>
<td>1,179</td>
</tr>
<tr>
<td>3 year follow-up Screening</td>
<td>434</td>
</tr>
<tr>
<td>6 year follow-up Screening</td>
<td>224</td>
</tr>
<tr>
<td>9 year follow-up Screening</td>
<td>14</td>
</tr>
<tr>
<td>Ames Laboratory</td>
<td>1,561</td>
</tr>
<tr>
<td>Initial Screening</td>
<td>380</td>
</tr>
<tr>
<td>3 year follow-up Screening</td>
<td>2</td>
</tr>
<tr>
<td>6 year follow-up Screening</td>
<td>2</td>
</tr>
<tr>
<td>9 year follow-up Screening</td>
<td>2</td>
</tr>
</tbody>
</table>
Chest X-ray Results, Line 1

Number of Former Workers

Suspected Lung Disease

- Asbestos without pleural disease
- Asbestos with pleural disease
- Asbestos-related pleural disease
- Mixed Dust Pneumoconiosis
- Pneumoconiosis
- Lung Nodules, Nodes, Lesions

Initial Screening

3 year follow-up Screening

6 year follow-up Screening

9 year follow-up Screening

0 10 20 30 40 50 60 70 80

25 43 69 73

8 4 8 1 0 0 0 0 0

0 2 0 3 8 9 2 1 0

0 2 0
Chest X-ray Results, Ames Laboratory

Number of Former Workers

Suspected Lung Disease

- Asbestos without pleural disease
- Asbestos-related pleural disease
- Silicosis
- Mixed Dust Pneumoconiosis
- Pneumoconiosis
- Lung Nodules, Nodes, Lesions

Initial Screening

3 year follow-up Screening

6 year follow-up Screening

Graph showing the number of former workers with suspected lung diseases.
Total Former Workers Who Have Received Spirometry Test

Number of Former Workers

Site & Type of Screening

- Initial Screening
- 3 year follow-up Screening
- 6 year follow-up Screening
- 9 year follow-up Screening

<table>
<thead>
<tr>
<th>Site</th>
<th>Line 1</th>
<th>Ames Laboratory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Former Workers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Initial Screening</td>
<td>1,296</td>
<td>1,590</td>
</tr>
<tr>
<td>3 year follow-up Screening</td>
<td>353</td>
<td>384</td>
</tr>
<tr>
<td>6 year follow-up Screening</td>
<td>55</td>
<td>2</td>
</tr>
<tr>
<td>9 year follow-up Screening</td>
<td>13</td>
<td>2</td>
</tr>
</tbody>
</table>
Spirometry Results, Line 1

Number of Former Workers

Abnormal Results

Restrictive Pattern
Obstructive Pattern
Mixed Pattern (Obstructive/Restrictive)

Initial Screening
3 year follow-up Screening
6 year follow-up Screening
9 year follow-up Screening

0 50 100 150 200 250 300 350

- Initial Screening
- 3 year follow-up Screening
- 6 year follow-up Screening
- 9 year follow-up Screening

339
130
120
85
23
29
10
6
8
2
4
2
0

0
10
2
23
6
4
29
8
0

Spirometry Results, Ames Laboratory

Number of Former Workers

Restrictive Pattern
Obstructive Pattern
Mixed Pattern

Abnormal Results

Initial Screening
3 year follow-up Screening
6 year follow-up Screening
Total Former Workers Who Have Received Beryllium Sensitization Test

(Beryllium Lymphocyte Proliferation Test: BeLPT)

<table>
<thead>
<tr>
<th>Site &amp; Type of Screening</th>
<th>Number of Former Workers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line 1</td>
<td>1,272</td>
</tr>
<tr>
<td></td>
<td>1,586</td>
</tr>
<tr>
<td>Ames Laboratory</td>
<td>672</td>
</tr>
<tr>
<td></td>
<td>380</td>
</tr>
</tbody>
</table>

- **Initial Screening**
- **3 year follow-up Screening**
- **6 year follow-up Screening**
- **9 year follow-up Screening**
BeLPT Results, Line 1

Abnormal Results

Number of Former Workers

<table>
<thead>
<tr>
<th>Abnormal Results</th>
<th>Initial Screening</th>
<th>3 year follow-up Screening</th>
<th>6 year follow-up Screening</th>
<th>9 year follow-up Screening</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Abnormal BeLPT</td>
<td>6</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>2 Abnormal BeLPTs</td>
<td>11</td>
<td>2</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>1 Abnormal and 1+ Borderline BeLPTs</td>
<td>8</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
BeLPT Results, Ames Laboratory

- Initial Screening
- 3 year follow-up Screening
- 6 year follow-up Screening

Number of Former Workers

Abnormal Results:
- 1 Abnormal BeLPT
- 2 Abnormal BeLPTs
- 1 Abnormal and 1+ Borderline BeLPTs
# Medical Care Recommended After Screening

<table>
<thead>
<tr>
<th>Line 1</th>
<th>Occupational-related follow-up (such as occupational lung disease)</th>
<th>Non-occupational-related follow-up (such as chronic diseases)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial Screening</td>
<td>274</td>
<td>977</td>
<td>1,251</td>
</tr>
<tr>
<td>3 year follow-up Screening</td>
<td>30</td>
<td>388</td>
<td>418</td>
</tr>
<tr>
<td>6 year follow-up Screening</td>
<td>4</td>
<td>56</td>
<td>60</td>
</tr>
<tr>
<td>9 year follow-up Screening</td>
<td>3</td>
<td>12</td>
<td>15</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>311</strong></td>
<td><strong>1,433</strong></td>
<td><strong>1,744</strong></td>
</tr>
</tbody>
</table>

| Ames Laboratory                |                                                             |                                                             |       |
| Initial Screening              | 271                                                          | 1,139                                                       | 1,410 |
| 3 year follow-up Screening     | 43                                                           | 226                                                         | 269   |
| 6 year follow-up Screening     | 0                                                            | 2                                                           | 2     |
| **Total**                      | **314**                                                      | **1,367**                                                   | **1,681** |