

Mechanic

Postural Analyses of Coal Mining in Low Working Heights:  
Effect of Working Height and Job Type

- 1. Subject Code \_\_\_\_\_
- 2. Date \_\_\_\_\_
- 3. Time \_\_\_\_\_
- 4. Height (feet +inches) \_\_\_\_\_ (meters) \_\_\_\_\_
- 5. Weight (lbs) \_\_\_\_\_ (kilograms) \_\_\_\_\_  
Body Mass Index (kg/m<sup>2</sup>) \_\_\_\_\_
- 6. Age (years) \_\_\_\_\_
- 7. Time in job (years) \_\_\_\_\_
- 8. Time in low height mines (years) \_\_\_\_\_
- 9. Type of knee pad used \_\_\_\_\_
- 10. Side SCSR is worn on \_\_\_\_\_
- 11. Side cap lamp battery is worn on \_\_\_\_\_
- 12. How control is worn \_\_\_\_\_
- 13. Weight of mining belt (lbs) \_\_\_\_\_ (kilograms) \_\_\_\_\_

Items worn on mining belt: \_\_\_\_\_  
\_\_\_\_\_

Least physically demanding task that you perform on a daily basis: \_\_\_\_\_  
\_\_\_\_\_

Most physically demanding task that you perform on a daily basis: \_\_\_\_\_  
\_\_\_\_\_

Comments on knee pads used. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

How often do you clean your knee pads?  
\_\_\_\_\_

How do you clean them?  
\_\_\_\_\_

Public reporting burden of this collection of information is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintain the data needed, and completing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to CDC/ATSDR Information Collection Review Office, 1600 Clifton Road NE, MS D-74, Atlanta, Georgia 30333; ATTN: PRA (0920-XXXX).

Subjects will be asked the following questions by a NIOSH representative. This data will be used to determine whether or not an injury to the knee may have influenced the postures utilized by the subject.

**Check all that apply:**

\_\_\_ Diagnosed knee injury:\_\_\_\_\_

\_\_\_ Pain/Redness/Swelling in front of knee

\_\_\_ Infection/ Hardening at the front of knee

\_\_\_ Popping feeling in knee






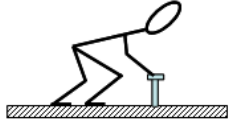
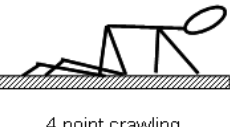





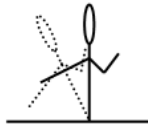
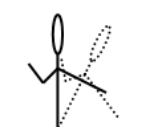


\_\_\_ Pain inside the knee

\_\_\_ Catching/Locking of knee

\_\_\_ Instability/Feeling like knee is going to give away

\_\_\_ Knee stiffness after waking up

\_\_\_ General knee weakness

<p><b>1</b></p>  <p>Kneeling near full flexion</p>	<p><b>2</b></p>  <p>Kneeling near 90° flexion</p>	<p><b>3</b></p>  <p>Kneeling on one knee</p>	<p><b>4</b></p>  <p>Squatting</p>
<p><b>5</b></p>  <p>2 point crawling</p>	<p><b>6</b></p>  <p>3 point walking – with object</p>	<p><b>7</b></p>  <p>4 point crawling</p>	<p><b>8</b></p>  <p>Duck Walking</p>
<p><b>9</b></p>  <p>Any above posture with <math>\geq 45^\circ</math> twisting at waist</p>	<p><b>10</b></p>  <p>Any above posture with forceful PUSH/PULL exertion of arm</p>	<p><b>11</b></p>  <p>Any above posture with forceful SWINGING exertion of arm</p>	<p><b>12</b></p>  <p>Any above posture with forceful exertion of leg</p>
<p><b>13</b></p>  <p>Any above posture with leaning to left</p>	<p><b>14</b></p>  <p>Any above posture with leaning to right</p>	<p><b>15</b></p>  <p>Any above posture with an object other than a control in either hand</p>	<p><b>16</b></p>  <p>Reaching</p>

Please check all tasks that you perform on a daily basis.

- Building stoppings
- Rock dusting
- Scooping/clean up
- Bolting where unfinished
- Advancing power load center
- Moving/advancing belt (where applicable)
- Changing miner bits
- Other (please explain) \_\_\_\_\_

**Task:** \_\_\_\_\_

How many hours do you spend performing this task on a daily basis? \_\_\_\_\_

Which two postures from the above chart (1-16) do you use most often?

a) \_\_\_\_\_ b) \_\_\_\_\_

What percentage of your time is spent in each posture (a, b)?

a) \_\_\_\_\_ % b) \_\_\_\_\_ %

Did the subject indicate that they used an obscure posture (posture not on list)?

If so, please describe. \_\_\_\_\_

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