

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/m²) _____
- 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. 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? _____

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






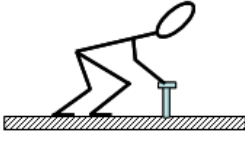
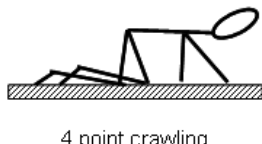

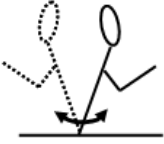


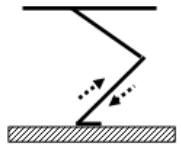
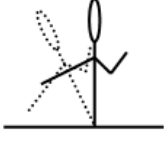
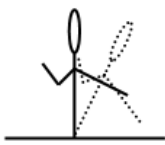
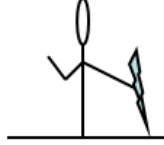
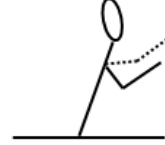
___ Pain inside the knee

___ Catching/Locking of knee

___ Instability/Feeling like knee is going to give away

___ Knee stiffness after waking up

___ General knee weakness

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

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

- Moving about mine
- Running continuous miner
- Loading and unloading supplies
- Rock dusting
- Building stoppings
- Advancing power load center
- Hanging cable
- Hanging curtain
- Extending tubing
- 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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