Situation	Reason for concern	Intervention/Best Practice	Results (° per 200,000 hours worked)
Working at a Video display terminal (VTD) workstation	<ul> <li>Risk of MSDs (tendonitis, tenosynovitis, carpal tunnel syndrome and back pain)</li> </ul>	<ul> <li>Position VDT of workstation</li> <li>Monitor and Keyboard in front of user</li> <li>Monitor at least 18 inches from the eyes</li> <li>Thighs nearly parallel with the floor</li> <li>Top of the monitor is at or slightly below eye level</li> <li>Wrists are in a neutral posture (in-line with the forearm)</li> <li>Feet are flat on the floor or footrest (if necessary)</li> <li>Chairs with lumbar support, armrest, adjustable features, padding and easy to reach and operate controls</li> </ul>	None provided
Cradling the telephone handset between the neck and shoulder	Risk of neck pain	Telephone Headsets	<ul> <li>Reduced musculoskeletal disorders (MSDs)</li> <li>Incident rate° from 12.4 to 4.4</li> <li>Days lost from 45.6 days° to 8.1 days°</li> <li>Restricted 16.6 days° to 0</li> <li>Average risk factor score 26.3 to 13.8</li> </ul>
Lifting patients in health- care settings	<ul> <li>Very high stress on the spine</li> <li>High risk of back injuries</li> </ul>	<ul> <li>Powered patient-lifting devices</li> <li>Lift from laying to standing</li> <li>Lift from Seating to standing position</li> </ul>	<ul> <li>Reduced MSDs</li> <li>Incident rate° from 21.3 to 11.9</li> <li>Days lost from 127.2 days° to 79.0 days°</li> <li>Restricted 96.6 days° to 87.0 days°</li> <li>Turnover rate° 98.5 to 74.1</li> <li>Average risk factor score 70 to 30.5</li> </ul>

Adapted from the Ohio Bureau of Workers' Compensation <u>Ergonomics Best Practices for Public Employers</u>

Situation	Reason for concern	Intervention/Best Practice	Results (° per 200,000 hours worked)
Providing patient care when a patient sleeps in beds lower to the ground to minimize injury if they fall out of the bed	<ul> <li>Stress and repetitive motion in the hands, wrists, elbows and shoulders</li> <li>Risk of back injury</li> </ul>	<ul> <li>High-low beds</li> <li>electric motor to raise and lower bed</li> </ul>	<ul> <li>Reduced MSDs</li> <li>Incident rate° from 21.1 to 15.0</li> <li>Days lost from 72.7 days ° to 20.1 days°</li> <li>Restricted 53.1 days ° to 36.7 days°</li> <li>Turnover rate° 71.9 to 65.2</li> <li>Average risk factor score 31.6 to 21.4</li> </ul>
Pulling laundry from bins	<ul> <li>Extreme trunk flexion and heavy lifting</li> <li>Risk of back pain</li> </ul>	Spring-loaded bottoms Retrofit existing bins	<ul> <li>Reduced MSDs</li> <li>Average risk factor score 34.7 to 24</li> </ul>
Opening and closing school bus doors	<ul> <li>Risk of shoulder and back injuries</li> </ul>	Retrofit automated, pneumatic door openers	<ul> <li>Reduced MSDs</li> <li>Incident rate° from 2.8 to 0.9</li> <li>Days lost from 17.6 days° to 2.3 days°</li> <li>Restricted 17 days° to 2.8 days°</li> <li>Average risk factor score 38.5 to 25.5</li> </ul>
Raising and lowering basketball backboards (School staff)	<ul> <li>Awkward shoulder, wrist, elbow, and back postures</li> <li>Stress on the hand, wrist, elbow, shoulder and back</li> </ul>	Automated backboard winch	<ul> <li>Reduced MSDs</li> <li>Average risk factor score 23 to 11</li> </ul>
Moving gymnasium bleachers (School staff)	Risk of low back     pain	Automated bleachers	<ul> <li>Reduced MSDs</li> <li>Average risk factor score 31.5 to 2.0</li> </ul>

Situation	Reason for concern	Intervention/Best Practice	Results (° per 200,000 hours worked)
Moving school furniture	<ul> <li>Risk of injury from repetitive heavy lifting</li> </ul>	Dollies	<ul> <li>Reduced MSDs</li> <li>Days lost from 27.5 days° to 20.3 days°</li> <li>Restricted 23 days° to 12.7 days°</li> </ul>
Handling equipment and objects during maintenance	<ul> <li>High risk for back and shoulder injuries</li> </ul>	Hoist	<ul> <li>Reduced MSDs</li> <li>Incident rate° from 4 to 1.3</li> <li>Days lost from 13.5 days° to 5.3 days°</li> <li>Restricted 15.6 days° to 14 days°</li> <li>Average risk factor score 37.6 to 23.5</li> </ul>
		Lift gates	<ul> <li>Reduced MSDs</li> <li>Incident rate° from 20 to 0</li> <li>Days lost from 80.3 days° to 0</li> <li>Turnover rate° 622 to 73.4</li> <li>Average risk factor score 35 to 28</li> </ul>
Using a jackhammer	<ul> <li>Risk of MSDs in the hand, wrist, arm, shoulder and back</li> </ul>	<ul><li>Design features</li><li>Lighter in weight</li><li>Low-vibration</li></ul>	<ul><li>Reduced MSDs</li><li>Average risk factor score 67 to 35</li></ul>