Ergonomics-Follow and Keep Well

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It is an old term. Everybody knows, follows less and suffers much. Here is to remind again.

Greek, “Ergon” means work, and “Nomos” means natural laws or systems. By definition, Ergonomics is the scientific discipline concerned with understanding of the interaction among humans and other elements of an organization or system, and the profession that applies application, theory, data and methods to design in order to optimize human well-being and overall system performance.1

It deals with adjusting the work environment, tools, task, and equipment to fit with the employees' physical capability and limitations. That is “fitting the task to the worker”.2

Ergonomics was studied and practiced way back when humans started designing and making things for their use, for example, the chair. The term ergonomics officially proposed at a meeting of the British Admiralty on July 12, 1949 by Prof. Hugh Murrell and accepted in 1950.3

There is lack of awareness, knowledge & practice of ergonomics has been reflected in different studies worldwide. As a result, Globally, the number of people suffering from musculoskeletal conditions has increased and contributing in the global disease as well as cost burden.2,4-7

Certain physical arrangements increase work-related musculoskeletal disorders (WMSDs). That is injuries or disorders of the muscles, nerves, tendons, joints, cartilage, and spinal discs associated with exposure to ergonomic risk factors in the workplace.8-9

Physicians are no different from the general population. Privilege of their medical training does not provide immunity from illness. Among the physicians, musculoskeletal complaints seemed high. The frequently reported prevalence for hand and wrist pain was 8-33%, 0-17% for shoulder pain, and 9-28% for neck pain, low back pain was between 33 and 68% and forearm pain to be 25%.10,11

Ergonomics intervention program is very much effective in preventing and managing the WMSD. It is successful in reducing the number of WMSDs by over 50%. Moreover, Ergonomics establishes a safe, healthy and comfortable working environment, thereby preventing health problems and improving work efficiency.12-15

So, there is need of awareness, knowledge and practice of appropriate ergonomics and postural health.

Healthcare system in Bangladesh has been investing a considerable sum of money for the development of hospital facilities, medical education, computerization of healthcare delivery system, but corresponding resources are not allocated to ensure ergonomic workstations in hospitals, educating and building awareness about ergonomics.

Occupational health services should initiate ergonomic assessment of workstations and implement measures to promote health in Bangladesh. Instructions and guidelines must be a part of public health education programs.

References


