ICOH Statement: Global Asbestos Ban and the Elimination of Asbestos-Related Diseases

The International Commission on Occupational Health (ICOH) calls for a global ban on the mining, sale and use of all forms of asbestos and the elimination of asbestos-related diseases. To accomplish the elimination of asbestos-related diseases, we urge each and every individual country to implement a total ban on production and use of asbestos. We also urge complementary efforts aimed at primary, secondary and tertiary prevention of asbestos-related diseases through country-specific “National Programmes for Elimination of Asbestos-Related Diseases” in line with ILO and WHO guidelines.

Malignant asbestos-related diseases include lung cancer, mesothelioma and cancers of the ovary and larynx. There is sufficient evidence that amphibole asbestos (e.g., crocidolite) and serpentine asbestos (e.g., chrysotile) both cause malignancies of the lung, pleura and peritoneum. Non-malignant asbestos-related diseases include asbestosis and pleural abnormalities such as pleural thickening, pleural calcification and pleural effusion.

International consensus has recommended that a total ban on production and use of all forms of asbestos is the best way to eliminate the occurrence of asbestos-related diseases. In 2006 WHO stated that the most efficient way to eliminate asbestos-related diseases is to stop using all types of asbestos. The ILO Resolution on Asbestos, 2006, calls for eliminating the use of asbestos and identifying and properly managing asbestos currently in place as the most effective means to protect workers from asbestos and to prevent future asbestos-related diseases and deaths. By government decision, a number of countries have already adopted a universal ban on all types of asbestos based on recognition of the substantial human and economic burden of diseases caused by asbestos. Some other countries have banned the use of amphibole asbestos, predominantly crocidolite, but have not banned the use of chrysotile. As there is sufficient evidence by the International Agency on Research on Cancer (IARC 2012) that chrysotile causes malignancies of the lung, pleura and peritoneum, amphibole-only bans are inadequate; asbestos bans need to include chrysotile as well.

Some countries have banned the production and/or use of asbestos-containing industrial products, but have continued to mine, sell and export asbestos. This is an unacceptable policy and should be reconsidered by those countries. In order to be effective, a total ban on production, use and export of all forms of asbestos should be achieved in every country.

Even after a total ban on production and use of asbestos is achieved, occupational exposures to asbestos will persist due to the continued presence of asbestos from prior use in building materials and durable machinery/equipment. Workers who carry out maintenance, demolition and removal of asbestos-containing materials will thus continue to be at risk. Therefore a set of protective measures must be implemented to optimize effective prevention. The adoption of a total ban on all use of asbestos and products, equipment and materials containing asbestos implies a need to follow up the implementation of the ban with supplementary regulations and national programmes for ensuring the elimination of all use of asbestos and the required protection from exposure to asbestos. This includes, as appropriate, the review of legislation and regulatory systems regarding trade and the protection of consumers and external environment.

Primary prevention involves ensuring control of exposures to airborne asbestos fibres, monitoring concentrations according to established standards and reporting exposure levels to appropriate
authorities. There is no exposure level below which asbestos-related disease risk can be totally eliminated. To minimize asbestos exposure, reference exposure limits (i.e., threshold limit values or occupational exposure limits) should adhere to international norms. Complying with these limits will reduce, but not totally eliminate, the risk of asbestos-related diseases. Exposed workers should be informed about their working conditions and associated hazards, and provided with appropriate respirators. While respirators should not be relied upon as the sole means of routinely limiting exposure to asbestos fibres, workers provided with them should be trained for their proper use, and encouraged to wear them when warranted. Adequate fitting, changing of filters, sanitary storage and maintenance of respirators are also required for optimal protection. Licensing or authorization procedures need to be considered to ensure safe handling, repair, maintenance and demolishing operations. Ambient air levels at the boundary of demolition sites adjacent to residential areas should be strictly monitored and kept below exposure limits. Proper and safe handling of asbestos-contaminated waste is essential. Finally, in view of the synergistic effect of smoking and asbestos exposure on lung cancer risk, smoking cessation programmes are essential for all workers currently and previously exposed to asbestos.

Secondary prevention includes medical monitoring of exposed workers, early diagnosis and individual case management to prevent disease progression. Secondary prevention is not effective for mesothelioma and is not yet proven to be effective for lung cancer among asbestos exposed workers, but workers identified with early asbestosis can be transferred away from further exposure with the intent of slowing progression of their disease. Malignant and non-malignant asbestos-related diseases can be diagnosed according to established guidelines. Secondary prevention includes medical monitoring of exposed workers, early diagnosis and individual case management to prevent disease progression. Secondary prevention is not effective for mesothelioma and is not yet proven to be effective for lung cancer among asbestos exposed workers, but workers identified with early asbestosis can be transferred away from further exposure with the intent of slowing progression of their disease. Malignant and non-malignant asbestos-related diseases can be diagnosed according to established guidelines. Secondary prevention includes medical monitoring of exposed workers, early diagnosis and individual case management to prevent disease progression. Secondary prevention is not effective for mesothelioma and is not yet proven to be effective for lung cancer among asbestos exposed workers, but workers identified with early asbestosis can be transferred away from further exposure with the intent of slowing progression of their disease. Malignant and non-malignant asbestos-related diseases can be diagnosed according to established guidelines.

Tertiary prevention includes medical intervention and public health services to limit disease-related disability and help workers affected by asbestos-related diseases to cope with chronic effects of their disease. Appropriate medical care and rehabilitation for the diseases and their potential complications, including immunization against pulmonary infections, should be provided. After disability and impairment evaluation, just compensation and disability benefits should also be provided, as warranted.

Individuals with asbestos-related diseases should be reported to authorities and public health registries. Public health surveillance of asbestos-related diseases, in particular malignant mesothelioma, asbestosis and pleural abnormalities, can help track progress towards eliminating asbestos-related diseases and may identify where further primary prevention efforts are needed. Public health surveillance of reported exposure levels can also be used to target enhanced primary prevention.

Achieving a worldwide ban on the mining, sale and use of all forms of asbestos and the elimination of asbestos-related diseases will require that physicians and occupational health personnel responsibly and persistently express their concerns, raise awareness and take necessary action regarding the need to prevent asbestos-related diseases. Recognizing the urgent need for coordinated actions, ICOH will continue to foster global and national collaboration in this endeavour, promoting the engagement of ICOH members in training occupational medicine and health professionals in competencies needed to support comprehensive national efforts to eliminate asbestos-related diseases.

References


