

Chapter

1. Asbestos Exposure Assessment, Risk Identification, and Substitutes

Section

C. Epidemiology of ARDs

No./Title

1. Towards elimination of asbestos-related diseases: a theoretical basis for international cooperation

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Introduction

Asian context

International collaboration in combination with a transfer of core preventive technologies available in developed countries is an effective strategy to eliminate and prepare for asbestos-related diseases in countries which lack the relevant technologies.

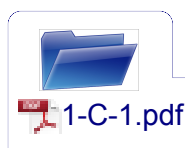
Critical appraisal

Unique keywords

Elimination, international cooperation

Abstract

We develop a theoretical framework for international cooperation that can be used for the elimination of asbestos-related diseases (ARDs). The framework is based on the similarities in the temporal patterns of asbestos use and occurrence of ARDs in diverse countries. The status of each nation can be characterized by observing asbestos use and ARD frequency therein using a time window. Countries that supply technology for prevention of ARDs can be classified as donors and countries that receive these technologies as recipients. We suggest identification of three levels of core preventative technologies. Development of a common platform to gather and manage core preventative technologies will combine the strengths of donor countries and the needs of recipient countries.



Annotation

Fact 1

- Classification of countries based on the state of asbestos use and prevalence of asbestos-related diseases (ARDs) is an important first step to identify roles in transferring technologies to eliminate ARDs.

Fact 2

- Technologies for primary prevention are air sampling and identification and counting asbestos fibers in the work environment.

Fact 3

- Technologies for secondary prevention include clinical diagnostic skills of ARDs (e.g., radiography and pathology) and follow-up schemes for individuals exposed to asbestos

Fact 4

- Technologies for tertiary prevention include effective treatment of ARDs, in particular, the development of new treatment modalities for mesothelioma, and the introduction of equitable compensation schemes.

Fact 5

- The most effective means to eliminate ARDs is to discontinue the use of asbestos, but national processes often require gradual transition.

References