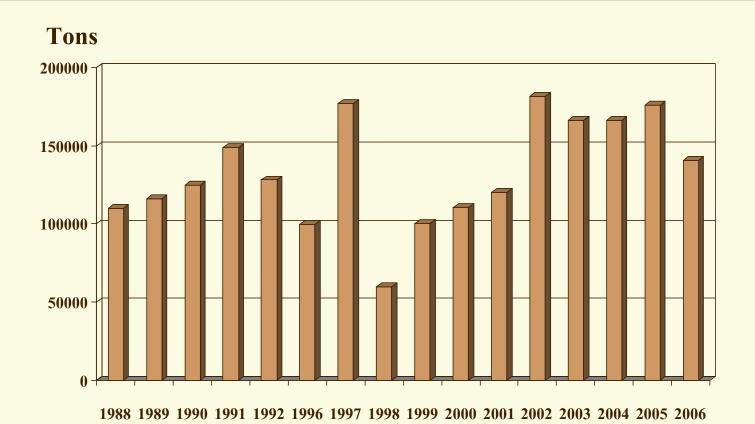


Mesothelioma in Khon Kaen University Hospital, Thailand

Kittisak Sawanyawisuth, MD, MAS, PhD, MHPE
Department of Medicine
Faculty of Medicine
Khon Kaen University, Khon Kaen
Thailand

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Amount of imported asbestos in Thailand (1988-2006)



Siriruttanapruk S, MOPH, Thailand. Current asbestos situation in Thailand www.envocc.org/.../Asbestos%20in%20Thailand%20Dr%20somkiat.ppt

Introduction

- 4th world largest consumer
- Thai Asbestos Occupational Exposure Limit (OEL) of 5 f/cc*
- Very few cases of asbestosis or asbestosrelated diseases

^{*}Takahashi K, Karjalainen A. Int J Occup Environ Health. 2003 Jul-Sep;9(3):244-8.

AAI-5, Busan, Korea

- Two cases of mesothelioma were presented
 - Road construction
 - Car wheel construction
- These two cases were published
 - Aim to increase physician awareness of asbestosis
- Cases of mesothelioma may be under reported

Methods

- Mesothelioma was searched in KKU hospital database
- ICD-10 code of C45
- 1993-2012
- Charts were reviewed
 - Clinical
 - Exposure to asbestos

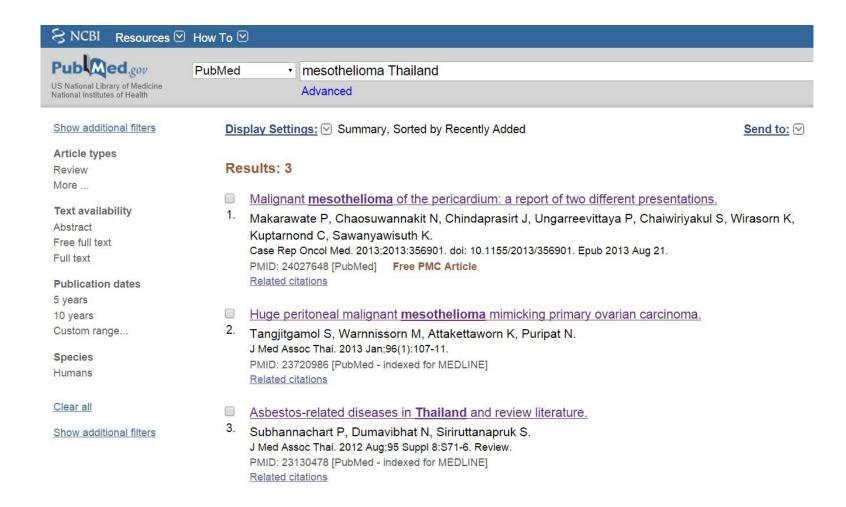
Results

- C45: 60 cases
- 12 cases of mesothelioma
- 1 excluded: British patient
- Total of 11 mesothelioma patients
- Only 2 patients: exposure history were recorded by physicians

Clinical features

- Median age of 48 years (range 24-71)
- 9 were male, 2 were female
- Median duration of symptom 2 months
- Sites of mesothelioma
 - Pleural 5
 - Lung and chest wall 2
 - Pericardial 2
 - Peritoneal 1
 - Pelvic 1

Discussion



Cases of asbestosis in Thailand

- May be under reported
- Medical record system is not quite valid despite using ICD
 - Chart review of each patient is needed (12/65)
- History of asbestos exposure is needed to emphasize in medical education system in Thailand
 - Only two patients were recorded possible hazard exposure history

Limitations

- Hospital based
- Not a location for asbestos-used factories
 - Nonthaburi (1), Bangkok (1), Khon Kaen (2)
 - Other sources of asbestos in environment
 - Building renovations
 - Migration of workers



Limitations

- Asbestos exposure is limited, except 2 reported cases
 - 80% of mesothelioma caused by asbestos
 - Massive exposure may cause early mesothelioma
 - Confirmation of pathological diagnosis may be needed

Conclusions

- Asbestosis and asbestos-related diseases in Thailand may be under reported
- Patient identification and report: national level
- Medical education on occupational health is needed to be emphasized
- Future trend of ARDs may be higher