

Asbestos: The 20th century gift that keeps on killing

James Stanley Dobbs Group

17th October 2025

The Big Question





The 20 most common cancers (2015)



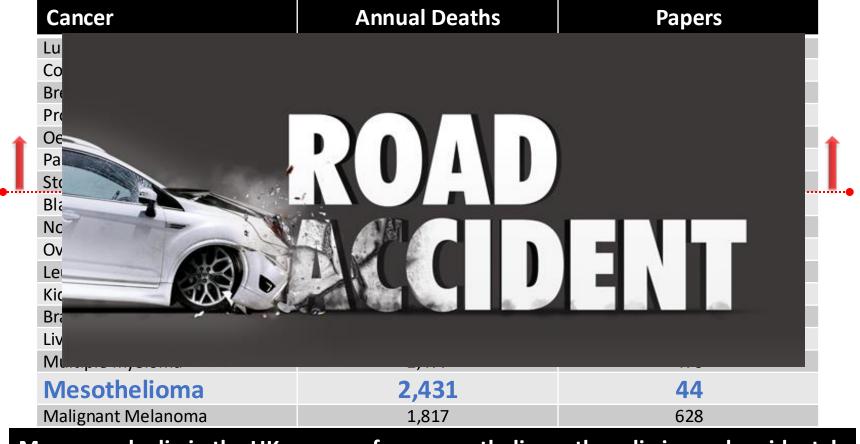
Cancer	Annual Deaths	Papers
Lung	33,465	2817
Colorectal	16,092	2772
Breast	12,509	4845
Prostate	10,000	1574
Oesophagus	7,419	3120
Pancreas	7,238	451
Stomach	5,672	1140
Bladder	4,734	758
Non-Hodgkin Lymphoma	4,451	1791
Ovary	4,447	1228
Leukaemia	4,317	2421
Kidney	3,580	855
Brain / central nervous system	3,425	824
Liver	2,844	1517
Multiple myeloma	2,477	470
Mesothelioma	2,431	44
Malignant Melanoma	1,817	628
Oral	1,722	2828
Uterus	1,637	1169
Cervix	1,061	916

The 20 most common cancers (2015)



	Cancer	Annual Deaths	Papers	
1	Lung	33,465	2817	
	Colorectal	16,092	2772	
	Breast	12,509	4845	
	Prostate	10,000	1574	
	Oesophagus	7,419	3120	•
	Pancreas	7,238	451	ш
	Stomach	5,672	1140	
	Bladder	4,734	758	
	Non-Hodgkin Lymphoma	4,451	1791	
	Ovary	4,447	1228	
	Leukaemia	4,317	2421	
	Kidney	3,580	855	
	Brain / central nervous system	3,425	824	
	Liver	2,844	1517	
	Multiple myeloma	2,477	470	
	Mesothelioma	2,431	44	
	Malignant Melanoma	1,817	628	
	Oral	1,722	2828	
	Uterus	1,637	1169	
	Cervix	1,061	916	





More people die in the UK per year from mesothelioma than die in road accidents!

And the rate is rising...





Home > Health A to Z > Conditions A to Z

Mesothelioma

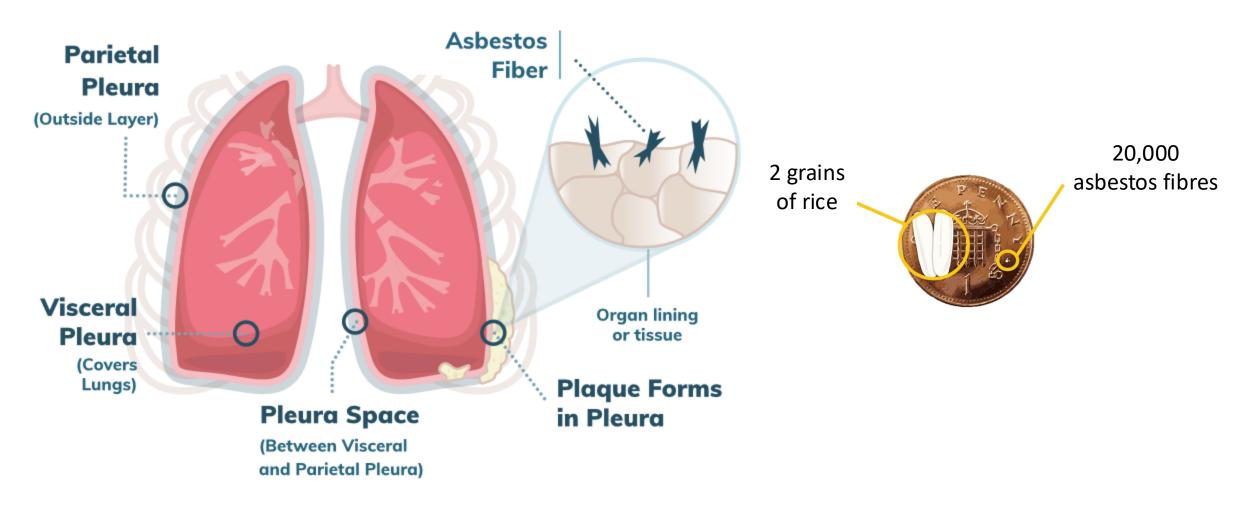
Mesothelioma is a type of cancer that develops in the lining that covers the outer surface of some of the body's organs. It's usually linked to asbestos exposure.

Mesothelioma mainly affects the lining of the lungs (pleural mesothelioma), although it can also affect the lining of the tummy (peritoneal mesothelioma), heart or testicles.

More than 2,700 people are diagnosed with mesothelioma each year in the UK. Most cases are diagnosed in people aged 75 and over, and men are affected more commonly than women.

Unfortunately, it's not possible to cure mesothelioma, although treatment can help control the symptoms.

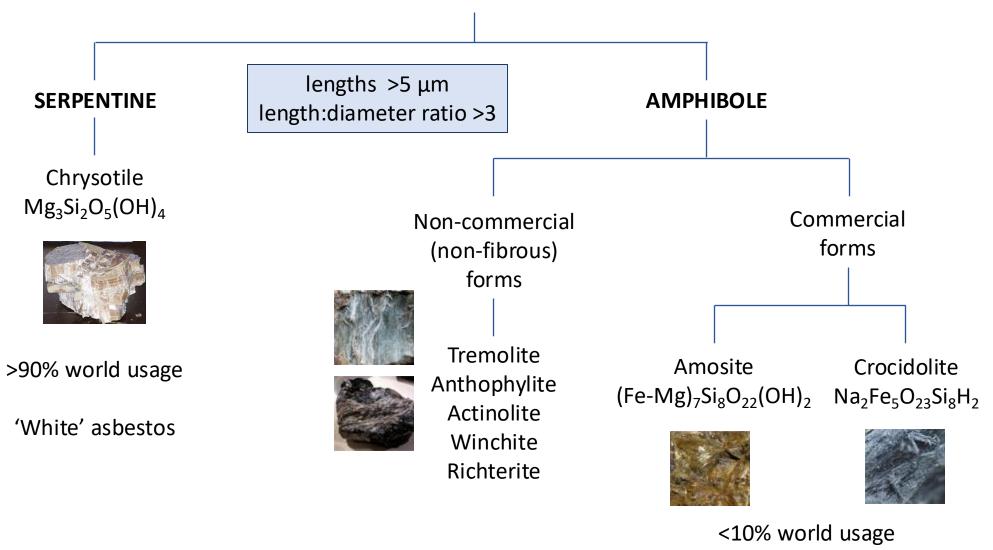




What are the Different Types of Asbestos?

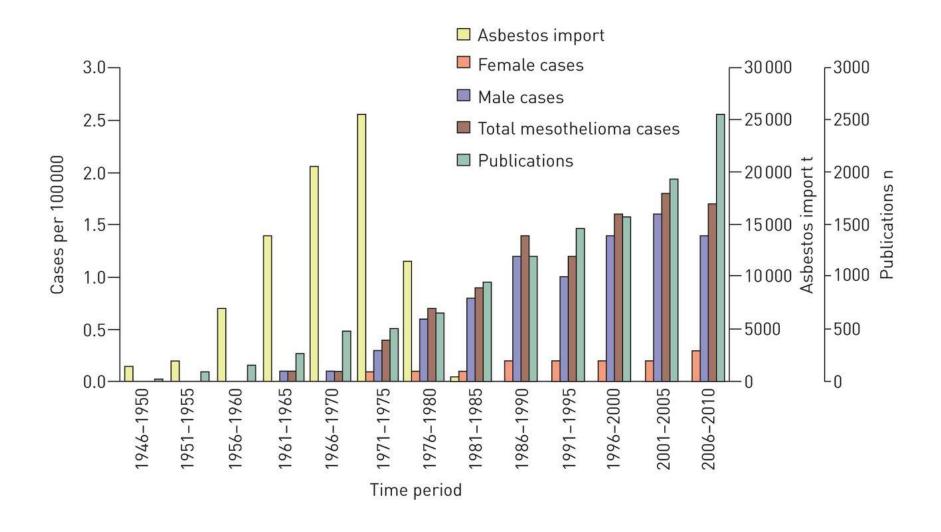






The Prevalence of Asbestos in Norway





Where is Asbestos Mined?





Jeffrey Mine, Canada









The Dangers of Asbestos - Wittenoon

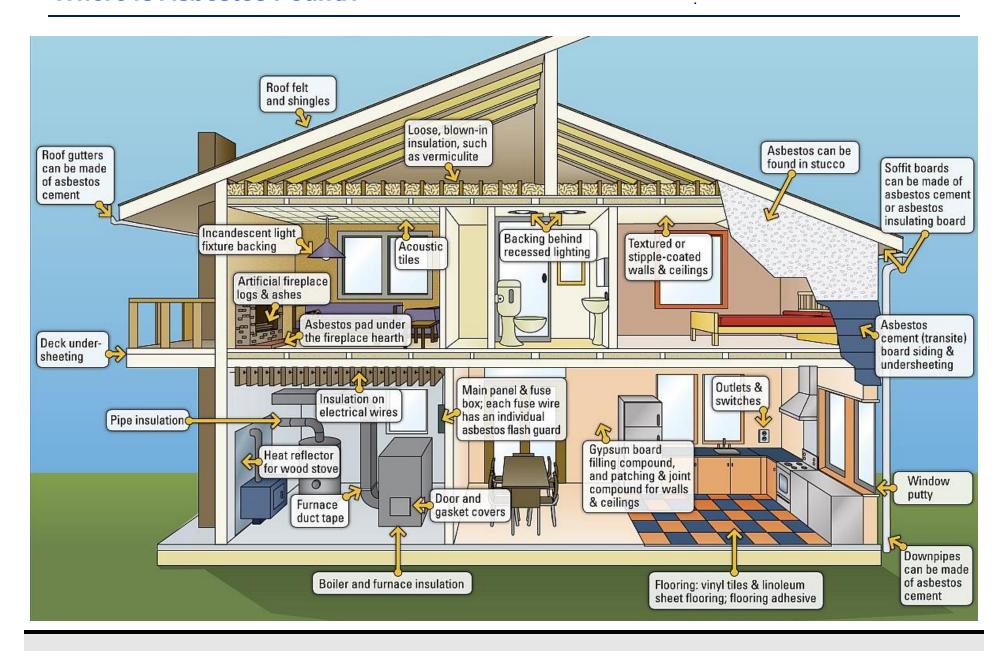


- Durning this time 20,000 people lived and worked in the town.
- 2000 or 10 % of the population has been diagnosed with mesothelioma.
- The average rate of occurrence in Western Australia is 3.4 per 100,000.
- The town was so toxic that the Australian government demolished it in 2023 and removed it from all maps in 2024.



Where is Asbestos Found?



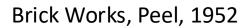


A Little Closer to Home





Internment Chalet, Douglas, 1916







Summer Land, Douglas, 2004



I remember as a joiner, as an apprentice, being sent up on sky hooks, up ridges on dormer bungalows, to have to nail ridge on. I can remember being complete what with asbestos dust, and being told, 'You are only a ponce, you don't want to worry about things like that. I've done it for 40 years' — and the **individual** was dead by 57!

Peter Karren, 2006 ¹

I remember as a young apprentice cutting up asbestos with a circular saw, and I could have auditioned as the snowman.

Peter Karren, 2001²





Still a Problem







Asbestos

On the 21 June 2022 the Control of Asbestos (Application) Order 2022 and the Health and Safety at Work (Managing and Working with Asbestos Code of Practice)(Application)Order 2022 were approved by Tynwald, these orders apply the Control of Asbestos Regulations 2012 an act of Parliament and its accompanying approved code of practice (ACOP) to the Isle of Man.

These regulations come into force on the 1 August 2022 and require duty holders to identify and manage asbestos in non-domestic premises and for the first time introduces a prohibition on the supply of asbestos and materials with asbestos added. They also introduce a requirement to obtain a licence from the Department of Environment, Food and Agriculture (DEFA) before working on licensable asbestos containing products.

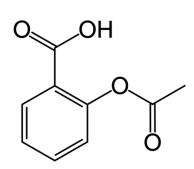
The Managing and Working with Asbestos Code of Practice provides a recommended method of meeting the requirements of the applied Regulations.

Year	Amount of asbestos disposed of into landfill (tons) $^{\mathrm{1}}$
2022	233
2023	318
2024	279

Medications Inspired by the Nauteral World









Penicillin

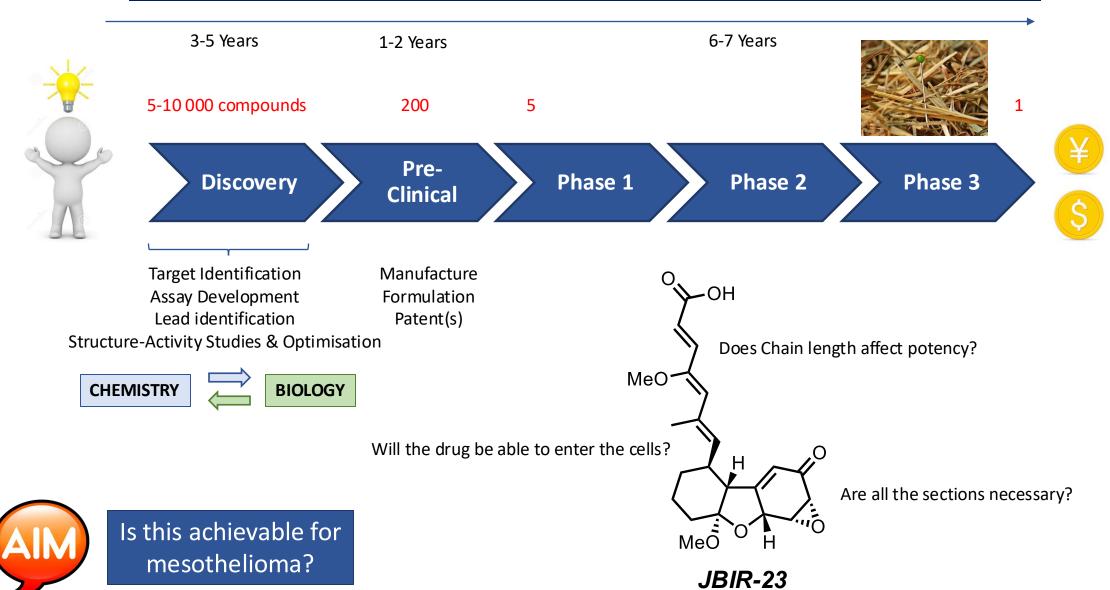


- The First compound to show biological activity against MPM (IC₅₀=8 μ M).
- First discovered by Shin-Ya in 2008 from Streptomyces sp
- Provides biological activity by inhibiting the break down of tubulin.



What Makes Drug Discovery Complicated?





What Makes Drug Development so Complicated?



What Makes Drug Development so Complicated?



How can you help?

3

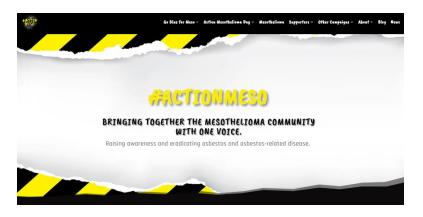
Mesothelioma UK:

www.mesothelioma.uk.com



Action Meso:

www.actionmeso.org



June Hancock Mesothelioma Research Fund www.junehancockfund.org



Regional Support Groups throughout UK www.hasag.co.uk

How can you contact me?





James Stanley

Contact: j.p.stanley@surrey.ac.uk

LinkedIn







THANK YOU FOR LISTENING ANY QUESTIONS?

Special Thanks to:

Prof Adrian Dobbs Ima

Imane Dalil

Dr Anas Alkayal

Michael Mattimore

James Scanlon

Alex Ludlow

