

How Melanoma Develops: Causes and Pathology

Watch the video up to minute 5.34, and choose the correct answers:

https://www.youtube.com/watch?v=H_XafvR7D0

What is the focus of George's presentation?

- a. The causes and pathology of melanoma.
- b. Treatment options for advanced-stage skin cancer.

What does George highlight as the most important factor in decreasing melanoma mortality?

- a. Aggressive screening and novel therapies.
- b. The development of better surgical techniques.

What is the projected number of new melanoma cases in the U.S. for 2021?

- a. Around 106,000.
- b. Around 50,000.

What percentage of newly diagnosed cancers in the U.S. does melanoma account for?

- a. 6%.
- b. 12%.

Which type of UV radiation is most closely associated with causing burns that contribute to melanoma?

- a. UVB radiation.
- b. UVC radiation.

What is the pattern of sun exposure most commonly linked to melanoma?

- a. Intense, intermittent exposure and sunburns.
- b. Chronic, mild exposure over long periods.

What happens to melanocytes when exposed to UV radiation?

- a. They proliferate uncontrollably, leading to melanoma development.
- b. They die off like other skin cells when damaged by UV rays.

What factor contributes to the high mutational burden in melanoma tumors?

- a. UV radiation causing DNA mutations.
- b. Chronic infections in the skin tissue.

What type of DNA mutation is most common in melanoma due to UVB exposure?

- a. A switch from C to T in the DNA sequence.
- b. A switch from A to G in the DNA sequence.

Which factor is NOT listed as a significant cause of melanoma?

- a. UV radiation exposure.
- b. Pollution levels in urban environments.