

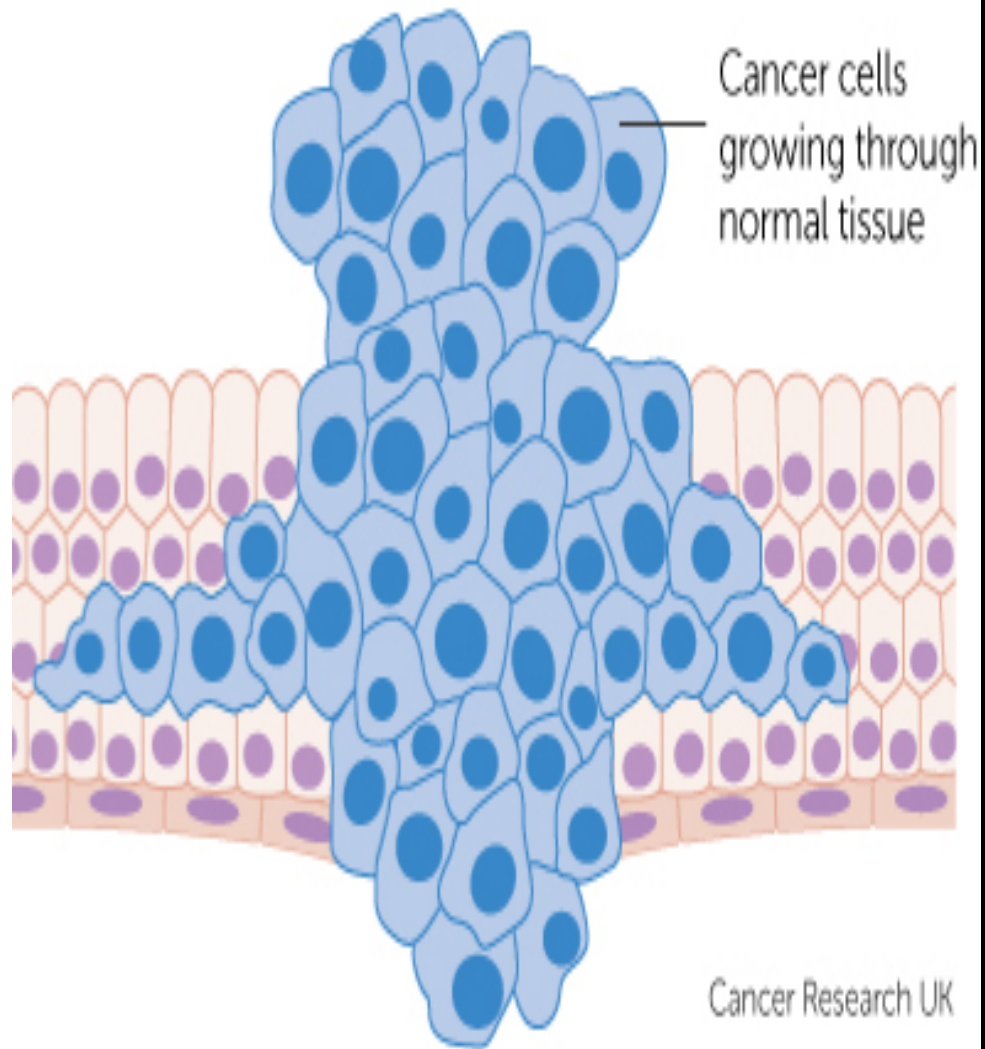
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# Cancer Prevention and treatment

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By Angel de la Puente, Adam Salanki, Cashenello  
Jaramilla and Theo Barton

What is cancer?



1. A mutation occurs in a cell during Mitosis. Which makes it keep dividing.
  2. The malignant mutated cell begins dividing to form more cancer cells.
  3. As time goes by the tumor enlarges.
  4. The tumor starts spreading onto the blood and lymph vessels.
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## Causes-2 types

### Environmental

- Sunburn
- Increased contact with UV
- Radiation
- Toxic chemicals
- X Ray and chemicals

### Genetic

- Damage to BRCA1 gene
- Strong history of cancer in family

# Dealing with Cancer

## Chemotherapy

Pros: Kills all tumor dividing cells and can be used more than once

Cons: It can also Kill normal dividing cells. Causing hair loss. Some tumor cells might evade the treatment

## Radiation & Laser

Pros: Targeted Killing of cells, without damage to nearby tissue and can be used multiple times

Cons: Radioactivity can cause other diseases and may leave some unkillable cells.

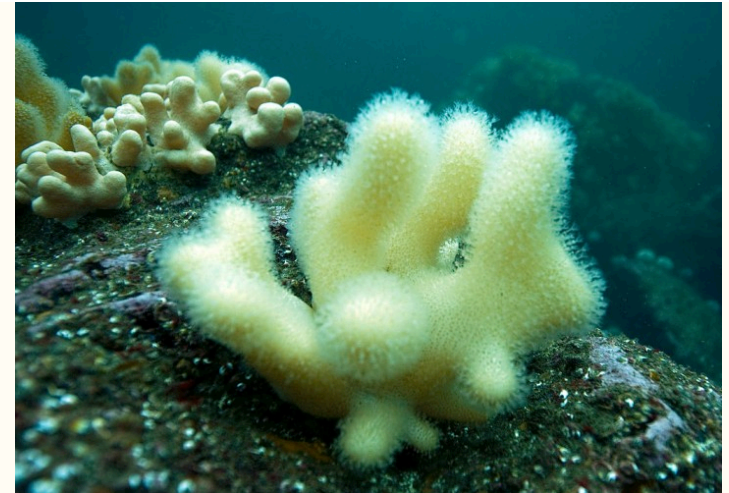
- Radiotherapy
- Internal radiotherapy (brachytherapy)
- Laser Treatment
- High Intensity Focused Ultrasound

# New Cures

UCL, Mark Emberton team finds new drug made bacteria found at the bottom of the sea. Which could help cure Prostate Cancer.

There have also been 2 new studies in the field of Immunotherapy which trains and makes the body react to attack cancer cells. One led by Prof Riddell on patients with very advanced Leukemia.

The last study is by James Gallagher the immune system attacking cancer.



# Finding Cancer



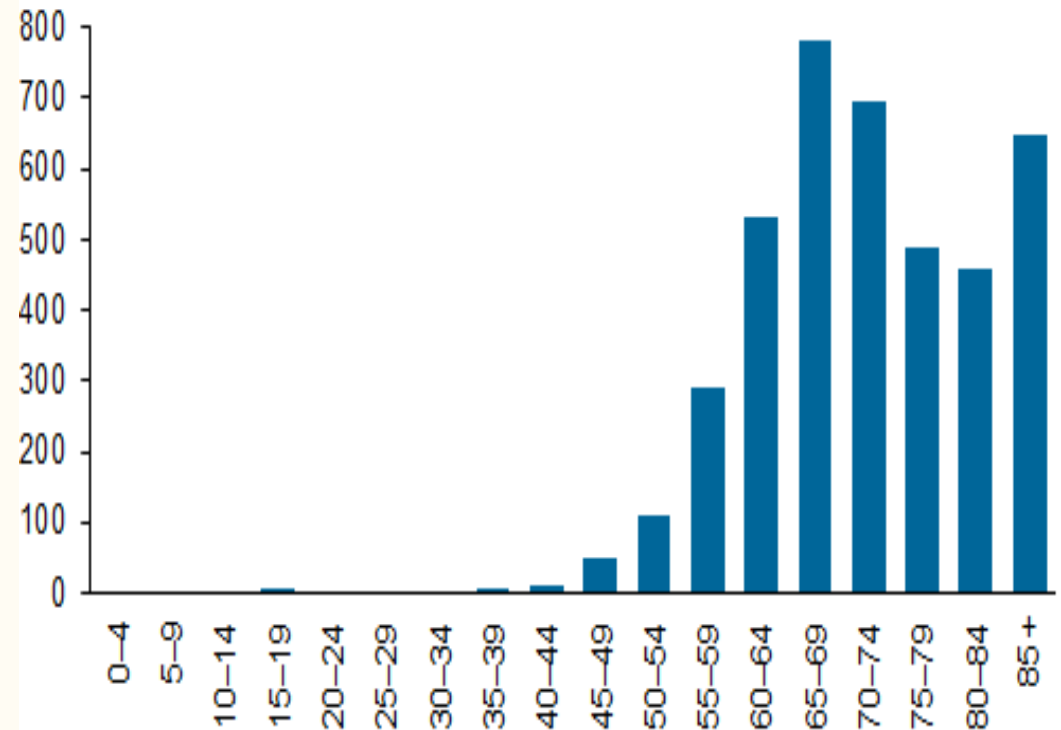
# Finding Cancer

Men over the age of 65 will be invited to have a DRE exam and prostate biopsy if necessary



Men over 75 can go in and ask to be checked every 4 years

Number of new cases per 100,000 males





Q & A

Thanks for Listening

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