GIRLS IN PHYSICS

BREAKFAST

BENDIGO 2025

VicPhys

Using Radiotherapy to Treat Skin Cancer

Emma Dyce,
Radiation Oncology
Medical Physicist
Specialist, GenesisCare

Natalie Clements,
Senior Medical
Physicist
GenesisCare

Meet like-minded students and women who have a career in Physics and Engineering. Ask questions and explore different pathways that might work for you!

FOR STUDENTS IN YEARS 10,11 & 12 INTERESTED IN A CAREER IN STEM

Thursday March 20, 2025
Restaurant 18eightyseven,
23 Mundy Street, Bendigo TAFE

$15 per student
(Max. 12 Students per school)
Breakfast 8.30am to 11.00am

SCAN FOR MORE INFO

Speak to your science teacher about attending the breakfast

"I was talking to a guest at my table and her career sounded so amazing. Then I realised that in eight years that could be me. I got so excited!" - Year 10 Student

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Speaker Bio: Emma Dyce

Radiation Oncology Medical Physicist Specialist, GenesisCare

Emma is a Radiation Oncology Medical Physicist Specialist at GenesisCare in the regional area of Albury Wodonga. Emma has a special interest in skin radiotherapy due to the high patient case load of our regional population. Emma is also very involved with education and training, and has completed postgraduate studies in tertiary and workplace education.

Speaker Bio: Natalie Clements

Senior Medical Physicist, GenesisCare

Natalie Clements is a Medical Physicist at GenesisCare Victoria, where cancer patients get treated with radiation therapy. At the clinic in Frankston, Natalie does quality assurance testing of the radiotherapy machines to ensure they are performing correctly, and she consults on complex patient cases and radiation safety concerns. Natalie manages two other portfolios: Education, and Research. For Research, Natalie encourages physicists to develop novel ways of doing things and to present their research at conferences or in journals. Natalie's main passion, however, is Education, and she manages the training program for the Medical Physics Registrars as they go through their 3-year traineeship to become qualified.

Abstract:

Australia has one of the highest incidences of skin cancer in the world, forming about 80% of all newly diagnosed cancers in Australians and is a particularly big burden in regional areas. Radiotherapy (also known as radiation therapy) is used clinically to treat basal cell carcinomas (BCCs) and squamous cell carcinomas (SCCs), particularly for large cancers and patients unsuitable for surgery. Natalie and Emma will explain the physics behind the different radiotherapy techniques we use to treat cancers, the radiobiological principles of skin cancers and the role of the medical physicist in patient care.

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