

MRGPRX2 in general anaesthetic reactions

ACTRN12618000815268

Status	RECRUITING
Sponsor	Melbourne Health
Enrollment	60 participants

Plain Language Summary

In rare cases, drugs used to relax muscles during surgery (called neuromuscular blocking agents, like rocuronium) can trigger a severe, life-threatening allergic-type reaction that can cause the blood pressure to collapse. This is similar to anaphylaxis — the severe allergic reaction some people have to bee stings or peanuts — but the immune mechanism behind it is not fully understood. Recently, scientists discovered that these drugs can directly activate a receptor protein (called MRGPRX2) on certain immune cells, causing them to release chemicals that produce the reaction.

This study at the Royal Melbourne Hospital is investigating why only some people are susceptible to this reaction. By comparing immune cells from patients who have experienced a general anaesthetic reaction with those from healthy controls, researchers hope to identify what makes certain individuals vulnerable and potentially develop a test to identify at-risk patients before they undergo surgery.

You may be eligible if you are 18 or older and have been referred for general anaesthetic allergy testing at the Royal Melbourne Hospital Department of Clinical Immunology and Allergy, or if you are a healthy volunteer without a personal or family history of anaesthetic allergy, planned for surgery at the Royal Melbourne Hospital. People with immune deficiencies or on immunosuppressive medications are not eligible as healthy controls.

Key Eligibility Criteria

Inclusion (1)

- Patients who have been referred and accepted for general anaesthetic allergy testing at the Royal Melbourne Hospital Department of Clinical Immunology and Allergy are eligible for the study. Patients recruited will be 18 years or older. There are no restrictions on gender in the patient group. The volunteer control group should be matched for age and sex. will be patients planned for surgery at the Royal Melbourne Hospital.

Exclusion (1)

- Biologically related family members of participants with possible general anaesthetic allergy will not be able to participate as healthy controls.

Locations (1 total)

Royal Melbourne Hospital - City campus - Parkville, VIC, Australia

<https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?ACTRN=ACTRN12618000815268>

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