RACP Foundation Research Awards

YEAR 2 PROGRESS REPORT

<table>
<thead>
<tr>
<th>Project / Program Title</th>
<th>Ventricular Tachycardia: From Mechanisms to Therapies</th>
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<tbody>
<tr>
<td>Name</td>
<td>Dr Robert Anderson</td>
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<tr>
<td>Award Received</td>
<td>2018 RACP NHMRC Woolcock Scholarship</td>
</tr>
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<td>Report Date</td>
<td>16 February 2020</td>
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<tr>
<td>Chief Investigator / Supervisor</td>
<td>Supervisor: Dr Geoffrey Lee; Co-supervisors: Professor Jonathan Kalman, A/Prof Saurabh Kumar</td>
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<td>Administering Institution</td>
<td>The Royal Melbourne Hospital</td>
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<td>Funding Period</td>
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<td>Start Date</td>
<td>1 January 2018</td>
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<td>Finish Date</td>
<td>31 December 2020</td>
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PROJECT SUMMARY

Ventricular tachycardia (VT) is a complex and serious rhythm disorder of the heart. This project will explore the mechanisms and treatments of VT: studies will review and summarise the different types and provide insight into the epidemiology in the treatments for this condition. Our research will also perform basic science studies aiming to improve how we diagnose VT and contribute to our understanding of the mechanisms responsible for the high incidence in recurrence following conventional treatments.

PROJECT AIMS / OBJECTIVES

1. Provide an overview of the common types of VT and treatment techniques and strategies
2. Understand temporal trends in the use of catheter ablation in Australia
3. Improvements in the diagnosis of idiopathic VT originating from the outflow tracts
4. Understand the mechanisms of scar-related VT using a new novel mapping technique
5. Explore the co-existence of focal and re-entrant VTs in patients with myocardial scar and structural heart disease

SIGNIFICANCE AND OUTCOMES

This thesis will explore multiple areas of interest in the field of VT. It is anticipated that studies from this thesis will improve our understanding of VT mechanisms, evaluation and diagnosis of specific VT sub-types leading to better long-term outcomes for patients undergoing treatment with ablation for this condition.
## PUBLICATIONS / PRESENTATIONS

### Publications


### Abstracts (posters/oral presentations)


ACKNOWLEDGEMENTS


