



## RACP Foundation Research Awards

### FINAL REPORT

<b>Project / Program Title</b>	Serial polysomnography with electroencephalography in traumatic brain injury rehabilitation	
<b>Name</b>	Dr Pearl Chung	
<b>Award Received</b>	2017 RACP AFRM Research Establishment Award	
<b>Report Date</b>	13 February 2018	
<b>Chief Investigator / Supervisor</b>	Dr Clayton King	
<b>Administering Institution</b>	The University of Melbourne	
<b>Funding Period</b>	Start Date:	1 January 2017
	Finish Date:	30 June 2018

#### PROJECT SUMMARY

The purpose of this study is to investigate the brain signaling in sleep after traumatic brain injury (TBI) and to determine if sleep problems improve as time passes after the brain injury, and whether the recovery of sleep, sleep quality, and cognition are related. The study will also investigate sleep-related breathing disorders in severe TBI.

#### PROJECT AIMS / OBJECTIVES

The aim of the study is to examine the use of serial sleep studies in persons with TBI following blunt head trauma to identify changes on polysomnography and electroencephalography which are associated with functional changes.

#### SIGNIFICANCE AND OUTCOMES

Outcomes of the study are pending.

It is expected the further government funding will allow this project to continue beyond 2018. It is expected that this project will lead to further research in autonomic instability in brain injury and in sleep-related disordered breathing.

#### PUBLICATIONS / PRESENTATIONS

The project has resulted in invitations to lectures on traumatic brain injury and sleep disorders.  
The protocol for the project is expected to be published in the near future.