## AuSCR Research Task Group approved projects

Title	Validation of the accuracy of clinical diagnoses in the Stroke Registry and ICD-10-AM administrative data with imaging reports
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Co-investigators	Dr Lee Nedkoff, Associate Professor Seana Gall, Professor Valery Feigin, Associate
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Submission date	31 March 2023
AuSCR role	Data provision
Approved	9 June 2023
Status	In progress
Summary	This project will inform the reliability and validity of diagnostic imaging reports to increase the specificity of stroke clinical coding. Improving the accuracy of stroke data is significant for appropriate funding for stroke care and research purposes. This study may identify opportunities for education of clinicians and clinical coders to improve documentation and coding of stroke. Generating evidence to validate the use of imaging reports in stroke diagnosis may support the increased use of machine learning to automate coding of stroke from imaging reports. The methods used in this study could also be adapted to improve the quality of coded administrative data for other conditions.
	The primary aim of this project is to evaluate the level of agreement between (i) the clinical diagnoses and (ii) ICD-10-AM administrative data in the AuSCR, when compared to the diagnoses from imaging reports.
	Secondary objectives of this project include:  1. Determine factors which may affect accurate identification of type of stroke in clinical coding, including availability of imaging reports at the time of coding  2. Identify opportunities for educating clinicians and clinical coders to improve specificity of stroke ICD-10-AM coding  3. Evaluate the potential application of artificial intelligence to perform automated clinical coding of diagnostic imaging reports within the Australian setting