

APPROPRIATE AND VALUE-BASED CARE CONFERENCE 2025

Maximising Value for All

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Appropriate and Value-Based Care

Introduction of Neuro Technologists' Preliminary Reporting

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Introduction

Reporting of Nerve Conduction Studies (NCS) was traditionally performed solely by accredited Neurologists. With increasing demand for NCS, Neurologists are expected to spend more time on reporting, resulting in longer turnaround time and less clinical hours. The date of release of the report will affect the patient's subsequent visits to review results and decide on management. Introducing preliminary reporting for NCS by Neuro Technologists aims to reduce report turnaround time and patient's wait time for their next appointment. In addition, we aim to reduce time taken for Neurologists spent on reporting and increase Neurologists' and Technologists' work satisfaction.

Methods

Pre-implementation: Neuro Technologists underwent training for a month with Neurologists to standardise reporting terminology and clarify any doubts. Teaching sessions were also organised for in-depth analysis of rare and interesting cases.

Before



Neurologist on duty prepares report amidst other clinical duties



Senior Neuro Technologist checks through final report and releases it into SCM

After



Neuro Technologist prepares preliminary report after performing Nerve Conduction Study



Neurologist on-duty vets through report and approves/amends, if necessary



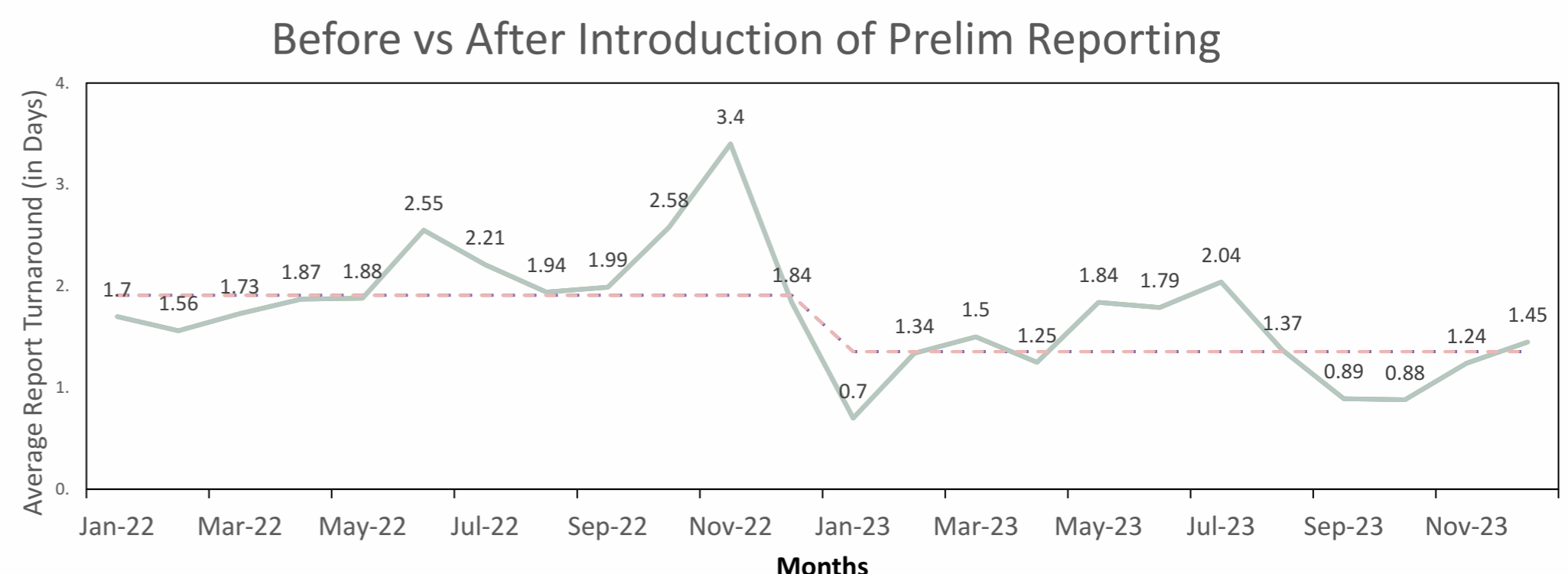
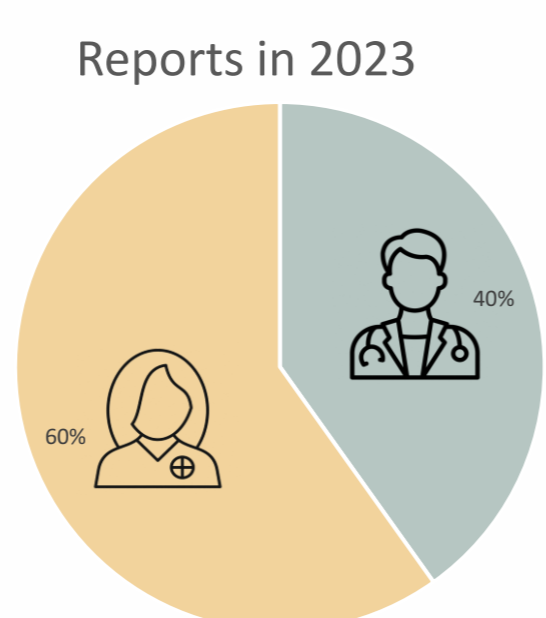
Senior Neuro Technologist releases report to SCM after checking for spelling errors

Workload for 2022 (without preliminary reporting) and 2023 (with preliminary reporting) were reviewed and analysed. Feedback from the Neuro Technologists and Neurologists were tabulated and analysed via a short 5 question survey given 1 year post implementation. Post implementation review: Neuro Technologists received positive feedback from the Neurologists and implemented preliminary reporting for Neurology Technologists permanently from January 2024.

Results

Savings:

- >161.33hrs of Neurologists' time!
- >35.3% increase in time savings
- >\$26,579 in manpower savings!



After implementing preliminary reporting done by the Neuro Technologists, they have reported an approximate 60% of the total neurophysiological tests done in 2023. With each report taking approximately 10 minutes to generate, a total of 161.33 hours of the Neurologists' time was saved for other clinical duties. The average maximum report turnaround time also reduced by at least 2 days.

Technologists	Neurologists
<ul style="list-style-type: none"> Neuro Technologists are now able to better interpret the raw data obtained from the NCS and correlate them with the patient's condition Preliminary reporting provided valuable learning opportunities for the Neuro Technologists to learn from the Neurologists, which in turn leads to additional educational benefits All Neuro Technologists feel a stronger sense of achievement and satisfaction when their reports are in concordance with the Neurologists 	<ul style="list-style-type: none"> Initiative was well-received by Neurologists Neurologists found prelim reporting timely Neurologists spend less time to vet reports as compared to preparing the full report conclusion 75% of the Neurologists also agree that there are lesser amendments to be made for the reports with the Technologists' preliminary reporting Satisfied with the amount of time saved on reporting as this allows them to spend more time on their clinical duties Allows for stronger collaboration between Neuro Technologists and Neurologists

Conclusion

This initiative has brought time savings to the Neurologists and provided our Neuro Technologists with the opportunity to practise at the top of their license. With a faster report turnover time, the primary team is now able to deliver more timely care for our patients.