

ABSTRACT SUBMISSION FORM

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CHR D 2020: Abstract Submission Form

Submitter Name

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Title

The Development of a Provincial Epilepsy Program and Analysis of Early Outcomes

Background

In Canada, epilepsy is diagnosed in approximately 15 500 people per year; up to 85% of people are diagnosed before the age of 18. Although access to epilepsy surgery has improved across Canada in the last decade, the province of Manitoba, with a population of approximately 1.37 million, has - until recently - lacked the local infrastructure to deliver surgical epilepsy care.

Objective

The aims of this study are to describe the implementation of a comprehensive Pediatric Epilepsy Program, provide an early analysis of local outcomes, and present a framework for program development.

Methods

Epilepsy-trained physicians and support staff were hired, multidisciplinary Epilepsy Rounds were developed, and a dedicated pediatric Epilepsy Monitoring Unit was established. An online database was created to capture demographic information, seizure outcomes, patient and caregiver quality of life, and parent satisfaction. Descriptive statistics were used to describe these outcomes.

Results

14 patients were included with follow-up of 3-12 months. The average age at surgery was 11 years. Surgeries performed included 12 resective procedures and 3 vagal nerve stimulator (VNS) insertions. 11 patients (78.6%) were seizure-free at follow-up, 2 patients (14.3%) had at least a 50% reduction in seizures, and 1 patient (7.1%) had no worthwhile improvement following VNS placement.

The average composite QOLCE-55 score measuring patient quality of life was (59.7 +/- 23.2)/100, with higher scores in emotional and social functioning. The average composite CarerQol score measuring caregiver quality of life was (78.3 +/- 18.6)/100. Parent satisfaction was high with an average rating of (9.4

+/- 0.8)/10, with the highest subcategory score in staff attitudes.

Conclusion

Access to epilepsy surgery has improved for children in Manitoba with favorable multidimensional outcomes. Structural organization, funding, ancillary support, and multidisciplinary engagement are necessary for program sustainability. A longitudinal database is recommended for continuous quality assessment and improvement.

Theme:

Clinical

Do you have a table/figure to upload?

No

Are you willing to participate in Goodbear's Den?

Yes

Presenter Status:

Residents

What was your role in the project?

All of the above

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