

CHI Learning & Development System (CHILD)

Project Title

Driving Change Through Data - Patient Education Brochures 2.0

Project Lead and Members

- Sharlyn Bay
- Margaret Ellen Perry
- Janet Lau

Organisation(s) Involved

National Neuroscience Institute

Healthcare Family Group Involved in this Project

Healthcare Administration

Specialty or Discipline (if applicable)

Corporate Communications

Aims

To help our patients and caregivers understand and retain information post consultation, we reviewed patient education materials to:

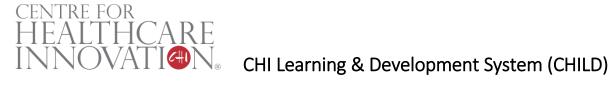
- 1. Create brochure aids that are up to date and easier for patients to understand
- 2. Achieve resource efficiency and cost savings for the organisation via an evidence based approach

Background

See poster appended / below

Methods

See poster appended / below



Results

See poster appended / below

Conclusion

See poster appended / below

Additional Information

Singapore Healthcare Management (SHM) Conference 2021 – Shortlisted Project (Communications Category)

Project Category

Care & Process Redesign, Quality Improvement, Value Based Care, Productivity, Cost Saving, Operational Management, Inventory Management

Keywords

Patient Education Brochures, Readability, Flesch Kincaid Grade Level 5, Resource Efficiency

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Driving Change Through Data: Patient Education Brochures 2.0

Background & Objectives

Based on NNI patient feedback surveys, 4 out of 10 patients do not fully understand their condition¹. To help our patients and caregivers understand and retain information post-consultation, we reviewed patient education materials to:

- Create brochure aids that are up-to-date and easier for patients to understand
- Achieve resource efficiency and cost-savings for the organisation via an evidence-based approach

Methodology

Step 1: Research

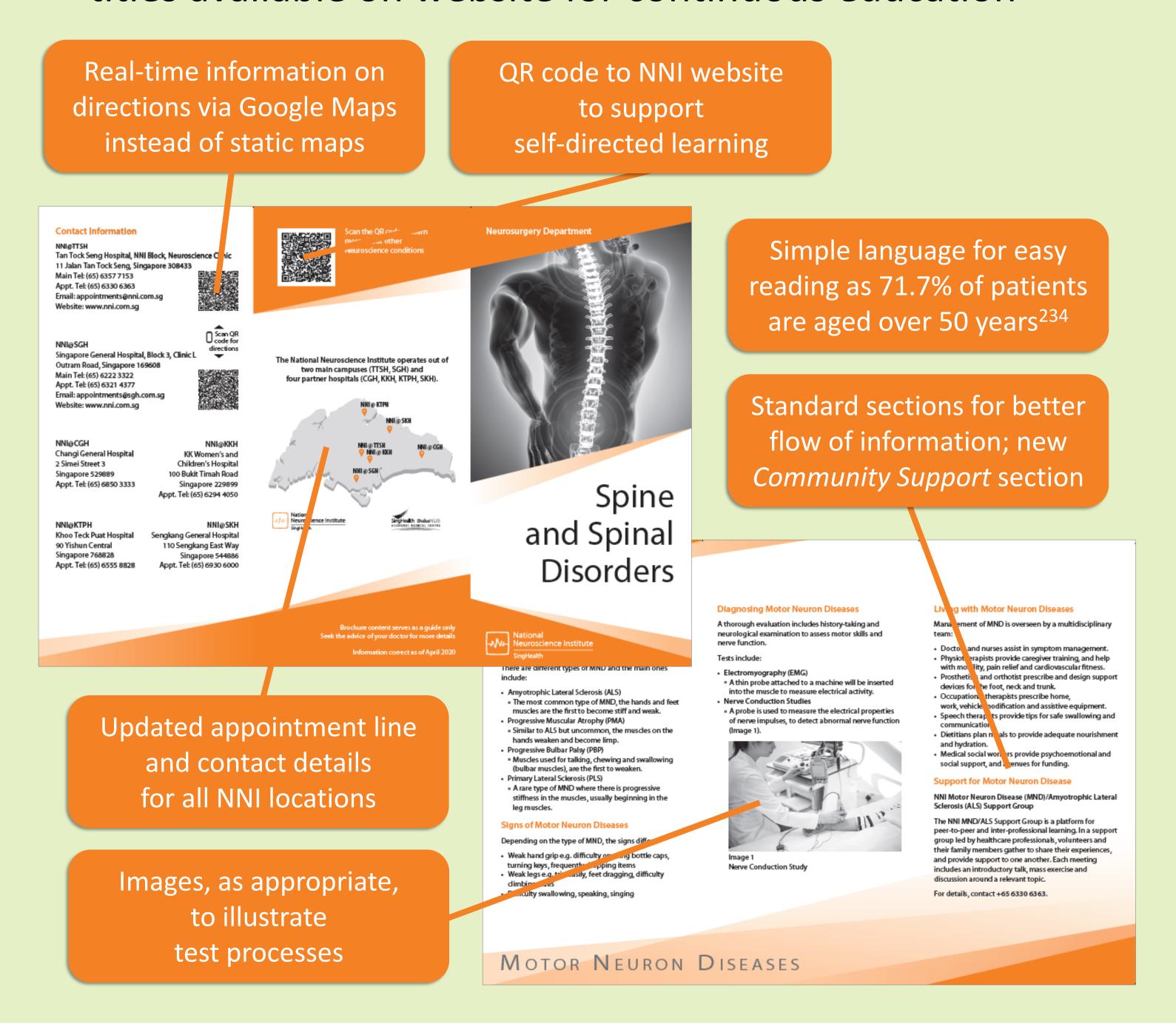
- Drew learning points and best practices from SingHealth, NHG, NUHS patient education materials
- Studied data on (a) patient load and (b) usage rate

Step 2: Review

 Worked with clinicians, nurses and AHPs to review relevance of brochures e.g. frequency of use, clinical updates required, if service is still provided

Step 3: Redesign

 Trimmed hardcopy brochures (58 to 28); unprinted titles available on website for continuous education



Conclusion & Results

- Patients & Caregivers: Updated and easy-to-read brochures increased likelihood of patients reading and understanding, bridging knowledge gaps
 - Improved readability with Flesch-Kincaid Grade Level⁵ for sampled brochures dropping from average **8.78** to **5.88**
- NNI: Achieved cost and resource efficiencies
 - Estimated savings of \$12,000/year after reducing hardcopy titles from 58 to 28
 - Estimated **44,000** less brochures to manage/year, resulting in efficient inventory management

What's Next: Brochures 3.0

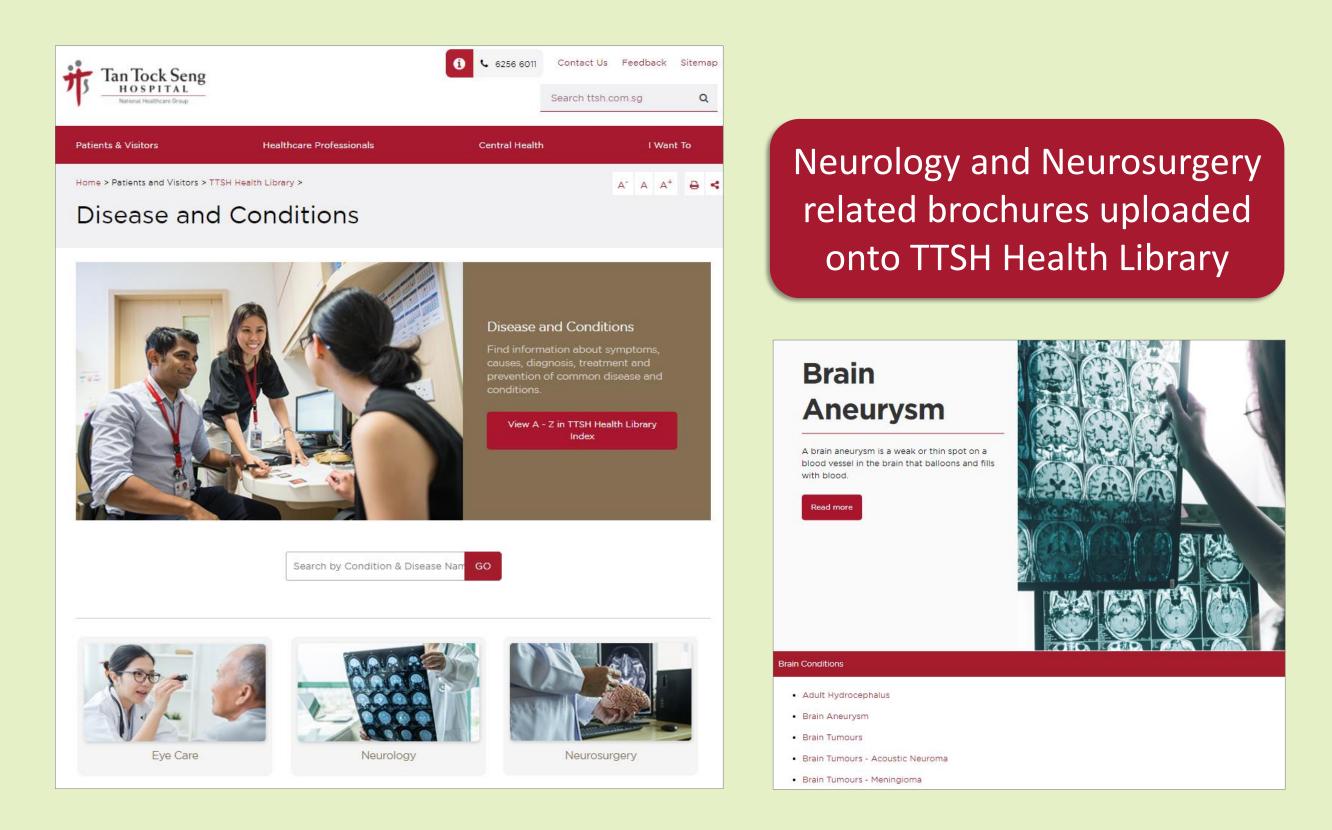
- As partners-in-care, involve patients in the review, redesign and testing of brochures
- Distribute digital brochures (on-campus and through partners), reducing usage of hardcopies further

Step 4: Check

Checked on brochure accuracy with medical teams

Step 5: Distribute

- Reduced wastage and saved on storage by basing print volume on (a) patient load and (b) usage rate
- Expanded distribution of print brochures to four other hospitals with NNI services
- Uploaded brochures onto NNI and partner websites (TTSH), for access by patients any time, any where



Footnotes:

- 1. NNI Outpatient Services Feedback Survey, FY18: 43.45% of patients surveyed did not answer 'Yes, definitely': Did you understand the symptoms and health problems to look out for after your visit?
- NNI Patient Demographics, 2020: 71.7% of unique patients seen at NNI@TTSH Campus were aged 50 years and above
- 3. Organisation for Economic Co-operation and Development, 'Survey of Adult Skills', 2015: Older Singaporeans, particularly 55 65 year olds have low scores in literacy with 1 in 2 scoring 1 or below out of 5 (Highest Level)
- Lepartment of Statistics Singapore, Census of Population, 2020: Almost half (49.7%) of Singapore residents aged 55 and older left school without secondary school qualifications
- 5. American Medical Association and the National Institutes of Health: Patient materials should not exceed 6 on the Flesch-Kincaid Grade Level test which measures how easy it is to read a material