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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 condition<sup>1</sup>. To help our patients and caregivers understand and retain information postconsultation, we reviewed patient education materials to:

#### **Conclusion & Results**

- Patients & Caregivers: Updated and easy-to-read brochures increased likelihood of patients reading and understanding, bridging knowledge gaps
- **Create brochure aids that are up-to-date** and easier for patients to understand
- Achieve resource efficiency and cost-savings for the 2 organisation via an evidence-based approach

# Methodology

## **Step 1: Research**

- Drew learning points and best practices from  $\bullet$ 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  $\bullet$ relevance of brochures e.g. frequency of use, clinical

- Improved readability with Flesch-Kincaid Grade Level<sup>5</sup> 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

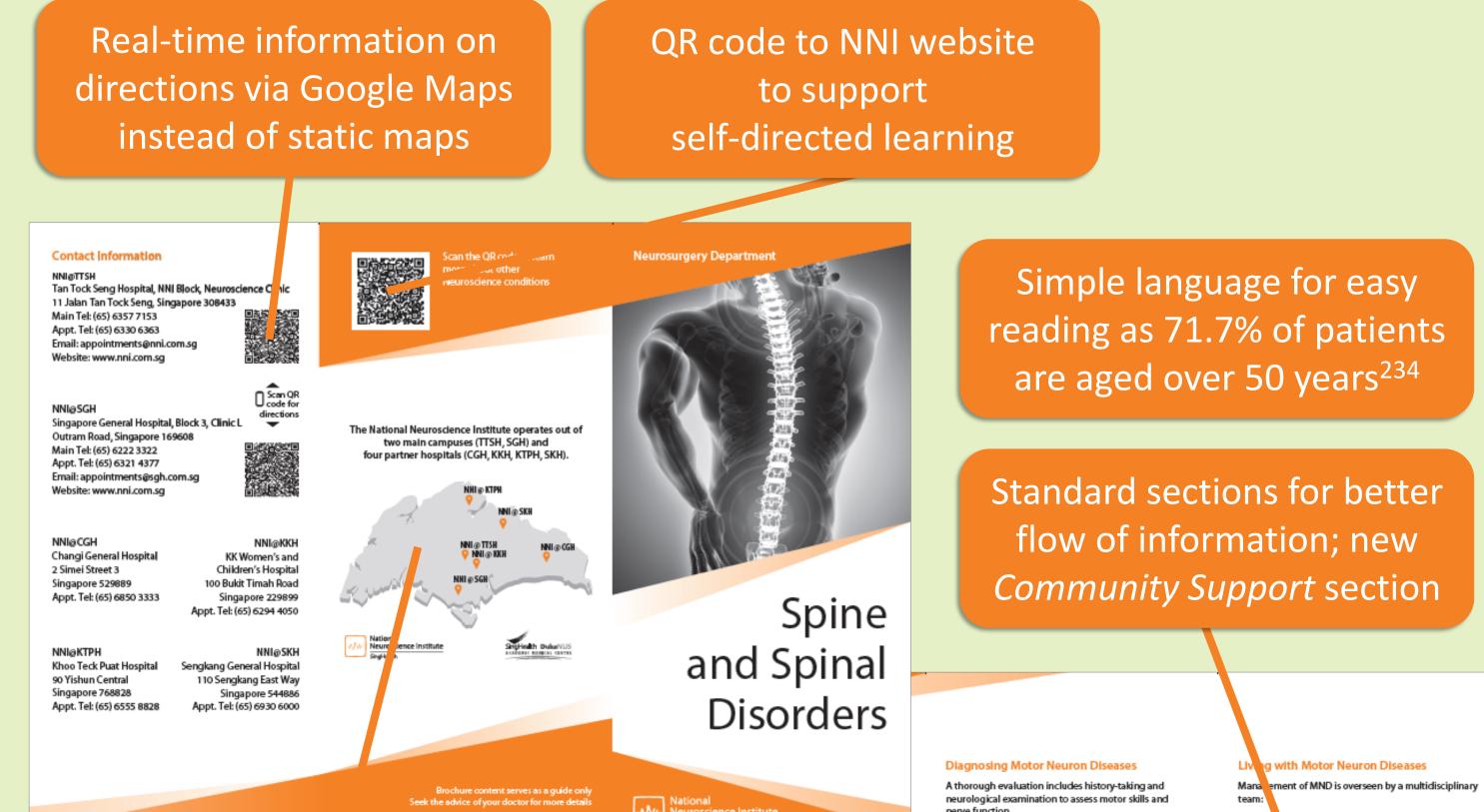
# What's Next: Brochures 3.0

- 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

updates required, if service is still provided

### **Step 3: Redesign**

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



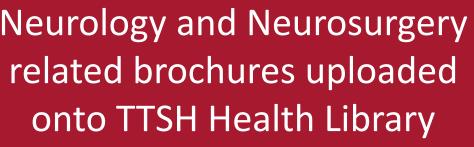
## **Step 4: Check**

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 2.
- 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 3. out of 5 (Highest Level)
- Department 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