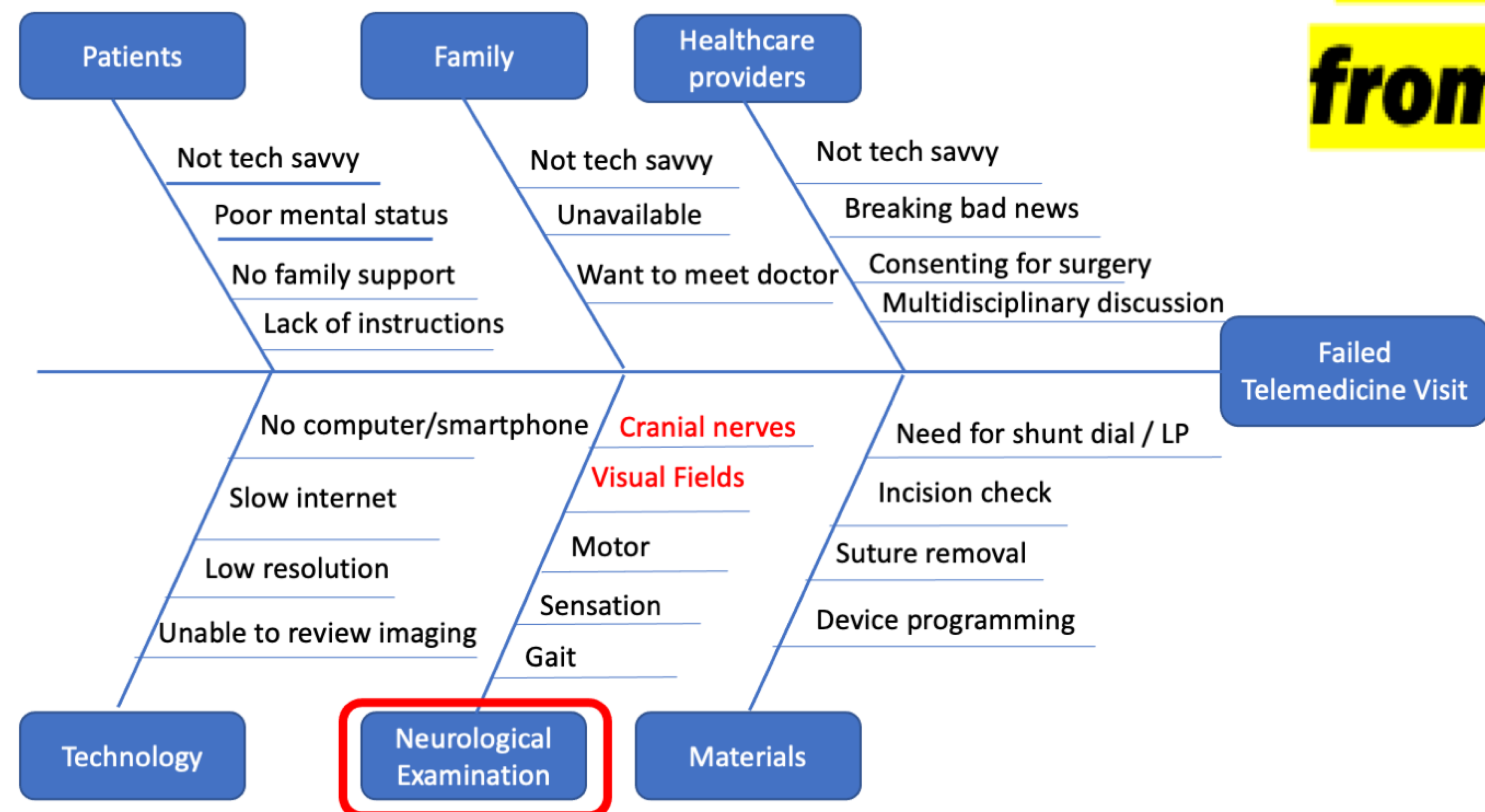


Problem

Inability to perform a cranial nerve exam is a major telemedicine limitation that leads to incomplete patient visits



Novel telemedicine software successfully automates cranial nerve assessment of patients from the comfort of their home



In-depth Abstract

Pre-Intervention Survey

In-person visits are challenging
Avg Transit Time to clinic: 62±40 mins
~80% of pts definitely prefer to use telemedicine



Patient Survey

Intervention

Perform cranial nerve exam on patients diagnosed with brain tumors using the Myelin Analytics software



Software

Post-Intervention Survey

- Q1. Telemed improves my access
- 40% strongly agree, 40% agree
- Q2. It was easy to use:
- 20% strongly agree, 40% agree
- Q3. Telemed is an acceptable way to receive care:
- 20% strongly agree, 60% agree

Pilot Trial Results

Exam Component	Myelin Analytics (n=5)
Visual Acuity (CN2)	100% Consistent, 0% Inconsistent
Extraocular Movements (CN 3-6)	80% Consistent, 20% Inconsistent
Facial Sensitivity (CN5)	100% Consistent, 0% Inconsistent
Facial Palsy (CN7)	100% Consistent, 0% Inconsistent
Hearing (CN8)	100% Consistent, 0% Inconsistent
Uvula/Palatal Movement (CN10)	20% Consistent, 80% Inconsistent
Shoulder elevation/Head rotation (CN11)	100% Consistent, 0% Inconsistent
Tongue Deviation (CN12)	100% Consistent, 0% Inconsistent
Visual Fields	40% Superior, 60% Equivalent, 0% Inferior

Next Steps

- Larger patient sample size (goal n=100)
- Need external physicians to evaluate patient data
- Obtain post-intervention patient feedback