# Design & Usability of V — X C

Voxe is a pediatric electronic patient-reported outcome measure (ePROM) platform that is being used in clinical care.

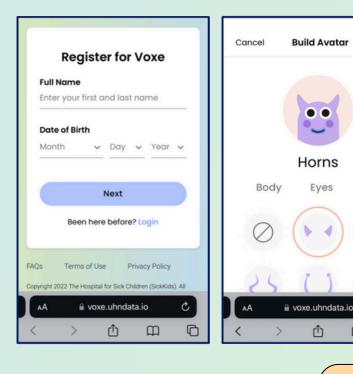
PROMs are questionnaires that patients complete to tell their healthcare providers about their symptoms, functioning & quality of life.

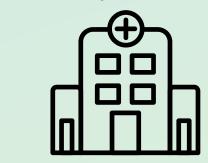
Participants were recruited across 2 sites:



### 49 Patient **Participants**

- 8-17 years of age
- 21 males & 28 females





Transplant & Regenerative **Medicine Centre** 



Hematology & **Oncology Program** 

A User-Centered Design helped to create an ePROM platform that is meaningful & easy to use.



## 38 Healthcare **Provider Participants**

• Patient's social workers, nurses, doctors, psychologists, etc.



"My favourite part was building the avatar... [it] makes doing something for the hospital actually fun." - Patient

#### **Voxe Patient Features**

- Account personalization
- Text & email reminder notifications
- Display of Voxe avatar GIFs following registration & ePROM completion

#### **Voxe Healthcare Provider Features**

- Integration of Voxe with the electronic medical record
- Electronic medical record notifications for PROM completion

**Healthcare Providers'** 

**Perspectives** 

• Presentation view in Voxe to visualize trends in PROM results over time

"I think it would really be very useful if you know that link could happen between Voxe [& the electronic medical record]...I think it has to be as seamless as possible.

- Healthcare Provider



#### "...I think it [GIFs] would make them [patients] feel better & happier."

"They [GIFs] help me feel like 'yay I did something good'."

- Patients

# **Patients' Perspectives**

Increased motivation through account personalization options



ePROM completion is facilitated through text & email notifications



Positive reinforcement is fostered through the **Voxe avatar GIFs** 





Electronic medical record notifications of Voxe completion are helpful

Integrating Voxe with

the electronic medical

record is important



Using the presentation view to see result trends over time is valuable



"...when I look at the graphs...it makes sense to me...how it could spark discussion like, this is where you were at last time. This is where you're at now."

- Healthcare Provider

Patients' & healthcare providers' positive feedback & evaluation of Voxe's user-friendliness & efficiency suggest Voxe is a valuable & promising tool to use patient-reported outcome data in clinical care.

It is **important to meaningfully engage users** from the start when developing an electronic health platform to ensure an efficient & effective design.

**Funded** By:







Voxe website:

https://voxe.kidshealthalliance.ca/

Research paper link: