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BETTER OUTCOMES.

Voxello Training

Supporting Patient-Provider Communication Improves Patient Outcomes

Patients who face communication barriers are at increased risk of preventable adverse events, for example:

- Falls
- Pressure Ulcers
- Ventilator Associated Pneumonias
- Adverse Drug or Blood Product Reactions

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To make patients active participants in their care.

- Patients need to be able to summon their nurses
  - Access the nurse call system
- Patients need to be able to effectively communicate with their nurses
  - To communicate about symptoms
  - To participate in assessments
  - To indicate their preferences about cares
  - To ask questions about cares

Barriers to Patient-Provider Communication

- Inability to use conventional nurse call pendant
- Inability to use alternative nurse call system switches (e.g. soft touch)
- Inability to speak due to intubation or tracheostomy
- Inability to produce intelligible speech
- Inability to write due to weakness or paresis

Using Assistive Technology to Overcome Barriers.

- Take advantage of any intentional gesture a patient can make
- Enable patients to access the nurse call system with a small intentional gesture
- Enable patients to use intentional gestures to control a speech generating device

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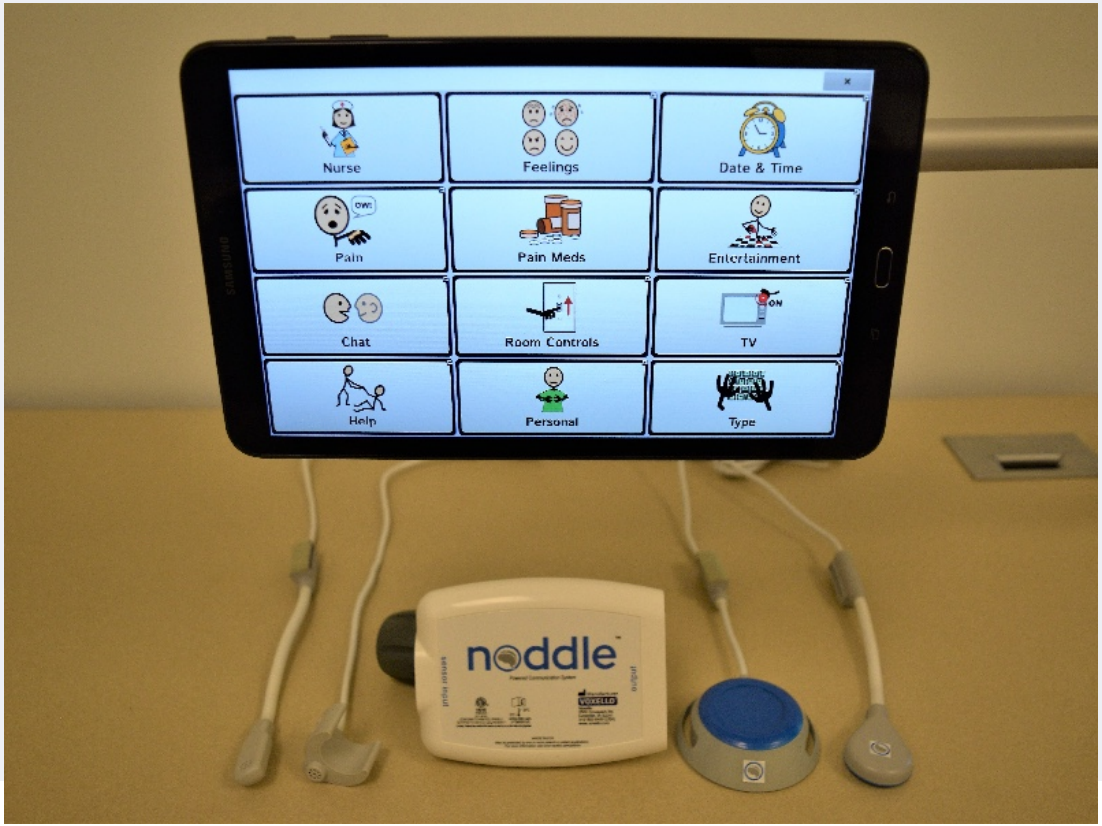
The Voxello System



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The First Part Of Patient-Provider Communication: Accessing The Nurse Call System

- All conscious patients should have access to the nurse call system.
  - Standard nurse call pendant
  - Standard alternative switches
    - Pressure plate
    - Pressure bulb
- Patients who lack the motor skills to use the call pendant (pillow speaker) or alternative switches need some form of assistive technology to access the call system.

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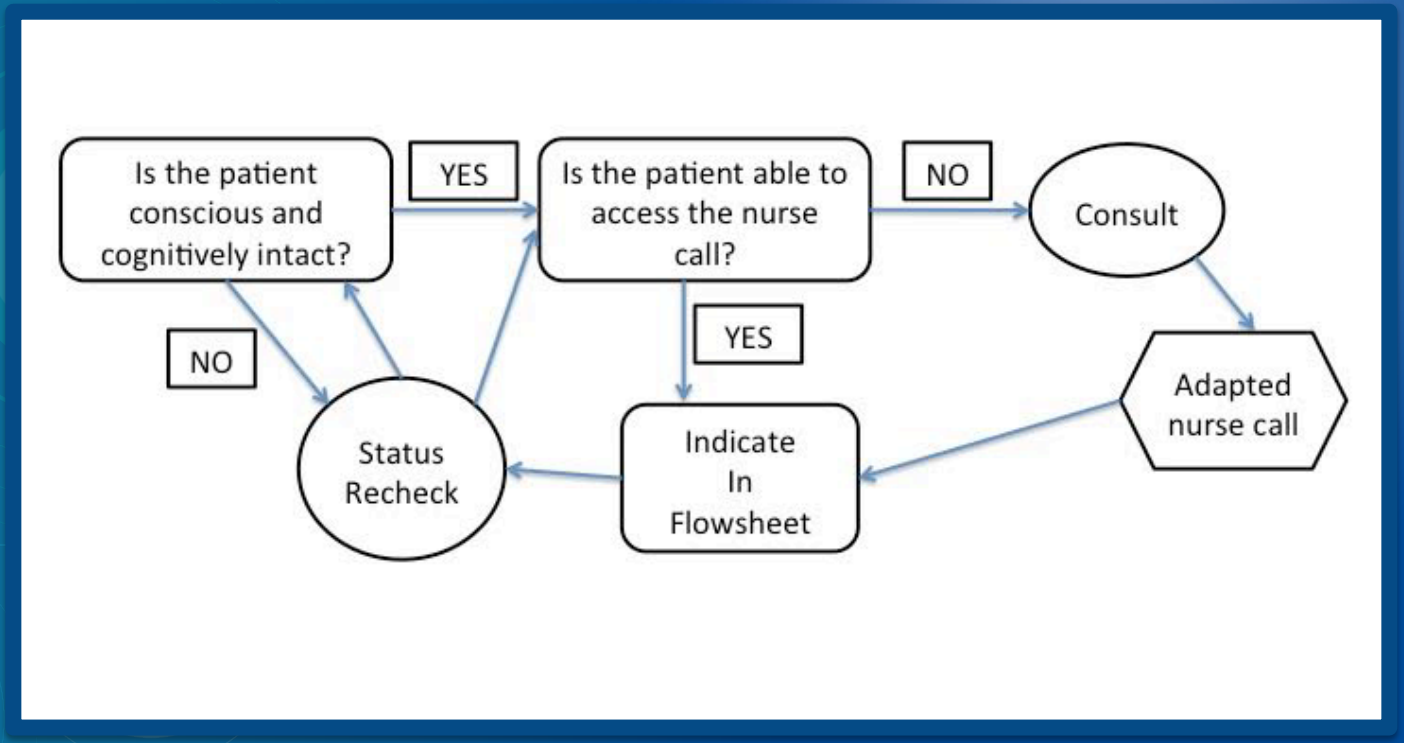
Nurse Call Decision Tree



- Identify the voluntary gesture that the patient can produce.
  - What is a gesture?
    - Any motor response a patient can make on command
    - Any motor response a patient can make repeatedly
  - Types of gestures
    - tongue click
    - pushing tongue into cheek
    - lip squeeze
    - wink or eye blink
    - Head, jaw, shoulder or limb movement

Selecting a transducer to detect the intentional gesture

- Gestures with an audible component
  - Microphone
- Gestures with a minimal movement and very limited force
  - Proximity sensor
- Gestures with minimal movement and force
  - Minmo (gyro/accelerometer) sensor or Pressure sensor
- Winking or blinking gestures
  - Infrared wink sensor

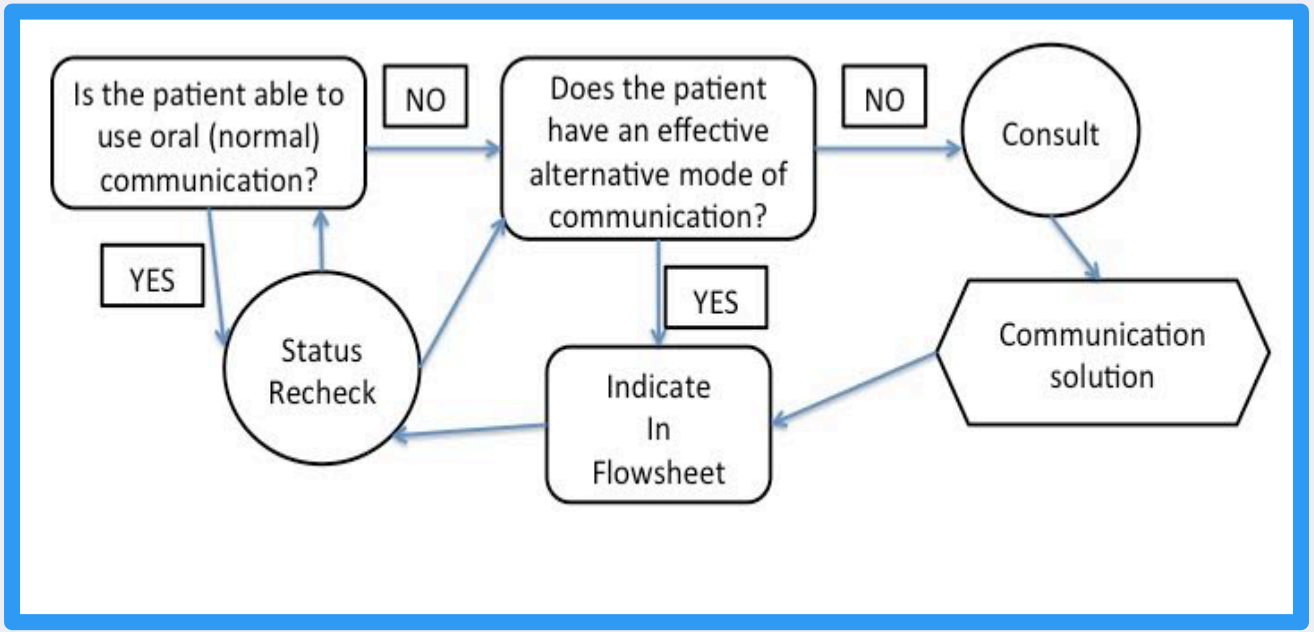
The Second Part Of Patient-Provider Communication: Accessing A Speech-Generating Device

- All conscious patients should have a way to communicate with their caregivers and participate in their care.
- Speech-generating devices (SGD) provide an option for patients who cannot use normal oral and written forms of communication.
  - Direct Selection using a touch screen for patients with use of their hands
  - Scan Selection using switches for patients with limited motor skills.

Communication Decision Tree

- Some patients, due to their medical status, may benefit from one sensor at one point in time and a different sensor at a later point in time.

- It is important to continually check on the patient to ensure a good fit between a patient's abilities and the selected sensor.



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Who can benefit from using Voxello's technology

- Patients above the age of 3
- Patients who are conscious and not continuously sedated
- Patients who can produce an intentional gesture
- Patients who can understand that producing an intentional gesture
  - can activate the nurse call system
  - control a speech generating device

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Noddle® Setup & Instructions

noddle Powered On

noddle Charging Port

noddle Input Indicating Sensor Not Plugged In

noddle Input Sensor Indicating Gesture Detected

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Using the noddle® to access the nurse call

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noddle Sensors & Mounting

- J Touch
- Bed Touch
- VL Mic
- J Mic
- *Minmo*
- *Wink*

J Mic Sensor & J Touch Sensor

- The J Mic Sensor & J Touch Sensor both have cervical collar and head strap mounting capabilities through a Velcro strap.

- When using the noddle-touch position the sensor near to the patient's cheek and ensure that it can be activated when the patient's tongue is pressed against his or her cheek.

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Bed Touch Sensor

- The noddle Bed Touch can be clipped to bedding with clips or mounted on a pillow using a band.

- In both cases, care must be taken to ensure that the patient is able to access the sensor.

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VL Mic Sensor

- The noddle VL Mic can only be attached to the vent line for patients who are endotracheally intubated.

- The VL mic should easily snap on the vent line. Ensure that the microphone is properly positioned so that the patient can easily activate the noddle with a tongue click.

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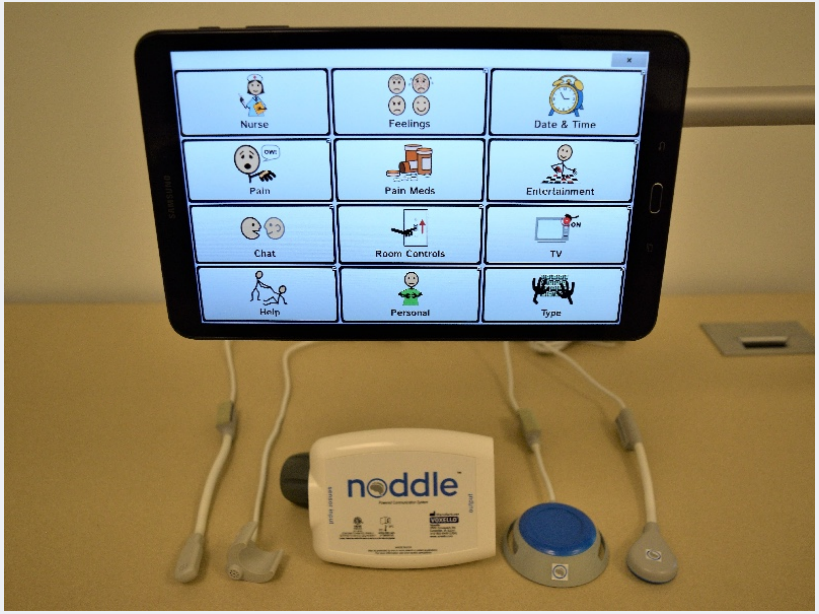
Using the noddle To Access The noddle-chat



- The noddle connected to noddle-chat via Bluetooth®.
  - → *tablet settings* → *Bluetooth* → *scan* → *paired devices* → *choose noddle*
- Use two-switch row-column scanning to navigate.
- Use gestures to scan menu
  - 1 to step though options
  - 2 to select to select an option

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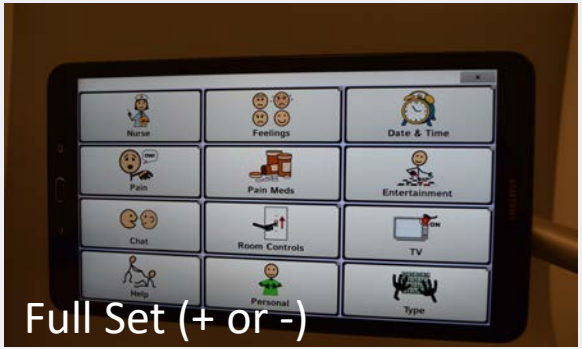
noddle-chat Setup

- New User: Select the appropriate user (child, teen, adult & gender) from the list when setting up a new user.

- Vocabulary Set Options: Vocabulary sets include Start, Basic, Full + and Full - .

Start Set

Basic Set



Full Set (+ or -)

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Kiosk Mode

‘Kiosk Mode’ locks the user in noddle-chat, so that the user can not navigate out of the program.

To set Kiosk mode:

Choose ‘Settings’
Choose ‘System’
Choose ‘Kiosk Mode’
Check ‘Kiosk Mode’

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Voxello Bedside Setup

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