"Communication
Vulnerability in the Hospital
and the New Joint
Commission Standards:
The SLP and Need for
Professional
Preparedness"
Childrenshospital.org/acp



Based in part on:
Costello J., Patak L., Pritchard J., (in press)
Communication vulnerable patients in the pediatric ICU: Enhancing care through augmentative and alternative communication.
Journal of Pediatric Rehabilitation Medicine: An Interdisciplinary Approach (in press)

* AAC-RERC sponsored issue

Agenda

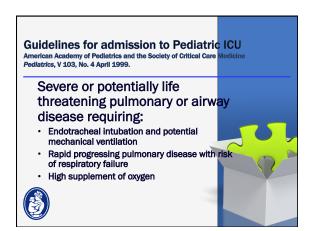
- Communication vulnerability and risk to care
- 2011 The Joint Commission (TJC) Standards
- Illness and the child's perspective
- Three profile of patient needs
- Review domains of assessment for ICU/ acute care

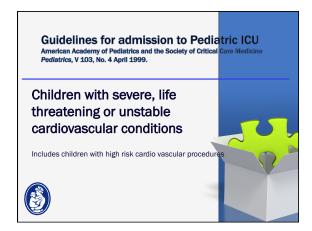


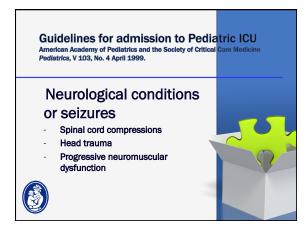


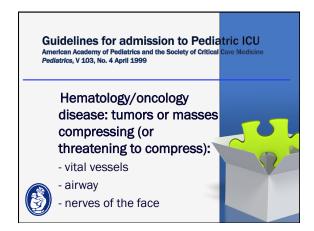
What is communication vulnerability? *Vision so poor that the patient is unable to read/see, even with corrective lenses* *Inability to understand loud speech, even with hearing aids* *Inability to produce speech that is intelligible to the team* *Altered mental status* *Inability to speak or understand the language of the medical team/environment *Serious communication disabilities in hospitalized patients. Ebert, D. N Engl J Med. 1998

Patients with communication vulnerability Congenital conditions Acquired conditions Degenerative conditions Condition related to medical intervention (surgery) Condition related to medical treatment Related to cultural diversity/mismatch with the hospital culture.

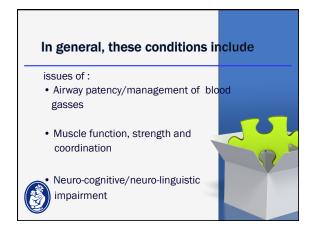








Guidelines for admission to Pediatric ICU American Academy of Pediatrics and the Society of Critical Pediatrics, V 103, No. 4 April 1999 Endocrine/metabolic disease -inborn error of metabolism and acute deterioration requiring respiratory support -acute dialysis management of intercranial hypertension





Why is this topic timely?

- In US, announced changes to hospital standards for accreditation that address "communication vulnerability" in 2011.
- Increased focus nationally and internationally on the impact of communication vulnerability on patient care.
- Increased focus on International Joint Commission Standards





Roadmap 'Guide' to help facilities implement standards p. 18 Monitor changes in the patient's communication status ..."Determine if the patient has developed new or more severe communication impairments during the course of care and contact the Speech Language Pathology Department, if available. Provide AAC resources, as needed, to help during treatment." p. 59 New Standard PC.02.01.21 The hospital effectively communicates with patients when providing care, treatment, and services: ..." Patients may have hearing or visual needs... or be unable to speak due to their medical condition or treatment. Additionally, some communication needs may change during the course of care. Once the patient's communication needs are identified, the hospital can determine the best way to promote two-way communication between the patient and his or her providers in a manner that meets the patient's needs" New Standard PC.02.01.21 (cont'd) "Examples of communication_ needs include the need for personal devices such as hearing aids or glasses, language interpreters,

communication boards and

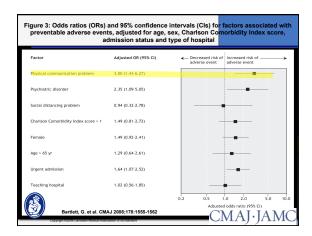
devices..."

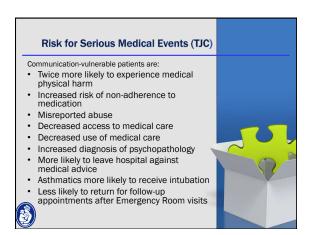


Professional Preparedness We (ASHA) MUST be prepared and MUST prepare future SLPs to meet the needs of patients who are communication vulnerable OR institutions will look elsewhere.

Poor Communication Impacts Patient Safety Communication vulnerable patients are at increased risk for: Serious medical events (Cohen et al., 2005) Sentinel events (The Joint Commission, 2007) Poor medication compliance/adherence (Andrulis et al., 2002; Flores et al., 2003) Shannon's story

Bartlett, G. et al. CMAJ 2008;178:1555-1562 "The presence of physical communication problems was significantly associated with an increased risk of experiencing a preventable adverse event" "We found that patients with communication problems were three times more likely to experience preventable adverse events than patients without such problems"





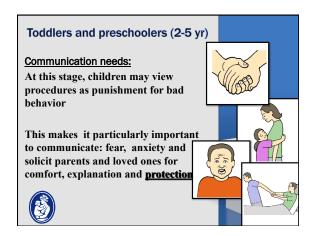
Risk for Serious Medical Events (TJC) - Communication-vulnerable patients are: - Higher rates of hospitalization - Higher rates of drug complications - Highest use of resources to provide care - Lowest levels of satisfaction with care - Increased risk of delayed care - Increased failure to treat and prevent - devastating disease states and death - Increased risk of malpractice - Increased length of hospital stay

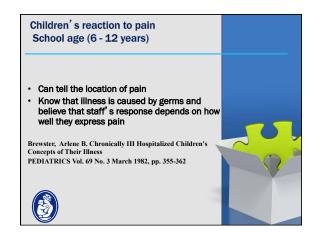
Health Care Systems Working Against Effective Communication • No standardized system in place to identify communication needs • Lack of supporting resources, training, and time needed effectively communicate • Limited evidence and awareness of best practice



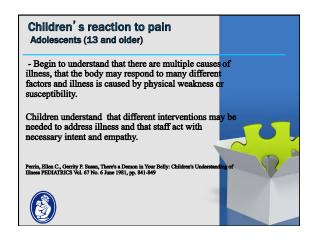


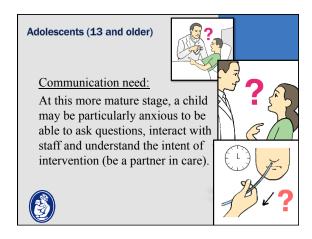


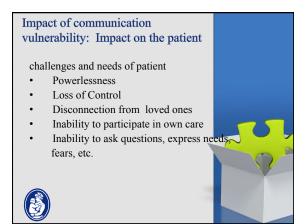














Family/Primary Care Providers Parents have expressed fear of their child's inability to communicate basic needs Fear that child may feel abandon and not be able to call for parents Parents feel helpless to assist child who is going through distress

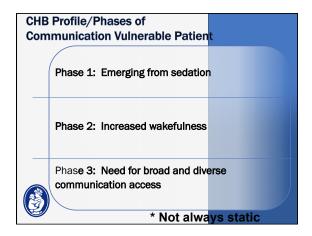
Communication vulnerability: Impact on Family Stress for parents (Costello, 2000), fear child will feel abandoned as can not solicit loved one and has not way of advocating for self (Hurtzig and Dowden 09) "parents, although completely exhausted, refuse to leave or sleep due to their concern that their child will require assistance and no one will be there to interpret the child's efforts to get help"

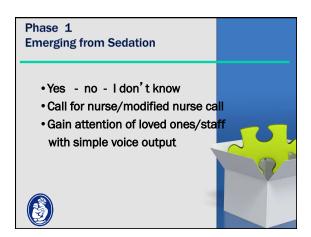
Medical Staff The need to identify appropriate means to communicate with intubated/vent dependent patients identified as a high research priority Because of duties, medical staff must limit the time available to interpret Nurses have reported patients being angry and then abandoning attempt because of nurse inability to interpret

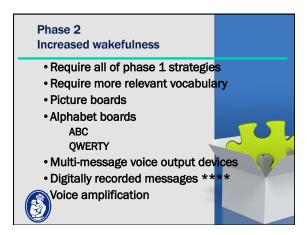
•Saves the frustration of both the nurse and the patient and instead of the patient getting madder and madder... • Patient gets what they want when they need it, instead of the nurse having figure it out.

What strategies (if any)are used when a patient can not speak? ✓ Nurses rely on lip reading ✓ Have a familiar family member interpret ✓ Gestures ✓ Pen and paper ✓ Alphabet board ✓ Hand drawn pictures ✓ Medical staff ask yes/no questions*









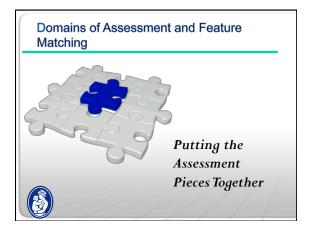
Phase 3 Broad and Diverse Communication Access • All options from phase 1 and 2 • Generative communication with and sophisticated page sets • Word and grammar prediction • Encoding strategies • Music and video files • Internet access • Telephone

Patients taught to use communication tools such as picture boards, word boards or simple communication devices, reported improved satisfaction and comfort when compared to care without communication support (Patak et.al 2007, Costello 2000, Stovsky, Rudy & Dragonete, 1988)

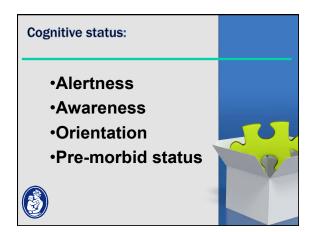
Referral source • Craniofacial team • Plastic surgery • Tracheostomy team • Organ transplant team • Physicians • Nurses • Respiratory therapy • Radiology • Social work • Child Life • Psychiatry • Pastoral care • Pre-op clinic nurses ***

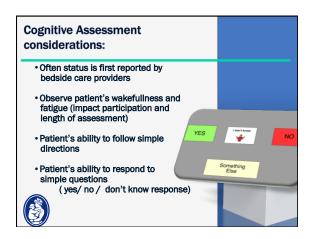












Potential presence of delirium Impact of medications (example Versed) Quality and quantity of sleep Potential presence of dementi

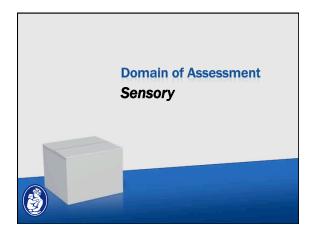
Will determine if assessment happens over time, postponed or continued.

 May need to re-assess often and adjust recommendations frequently

 May require range of supports to be used at different times of day

 Will impact complexity of instructional language and strategies introduced

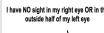
May suggest selection of memory book or rientation strategies through visuals, visual schedule



Sensory domain: Vision Hearing Comparison to pre-morbid status?

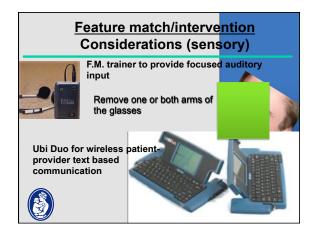
Sensory Assessment considerations

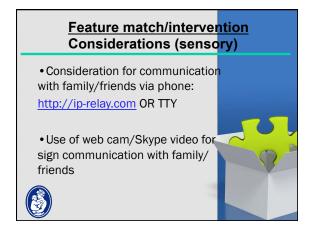
- Does s/he where glasses? If yes, are they here?
- Does s/he have hearing aids? If yes, are they here?
- If physical status will not support glasses or hearing aids (swelling, incision site, etc.), what accommodations can be made
- Have C.I.? Available?



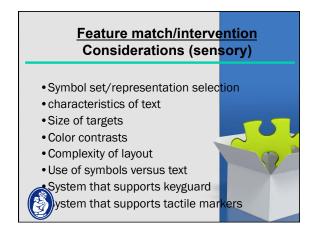


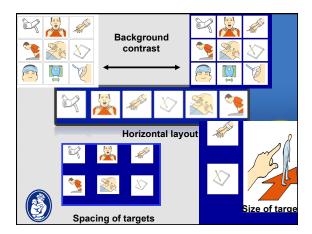
Sensory Assessment consideration	ons
If using ventilation mask, what type of mask (impact on vision/binocularity and positioning of materials)	





Feature match/intervention Considerations (sensory) • Use of voice output technology if minimal/no hearing • Feedback loop of speech generating device • Use of auditory scan component • Use of tactile markers and keyguards*



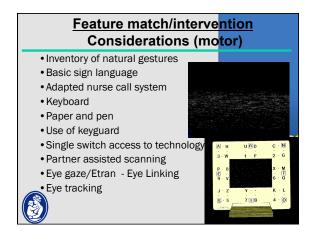


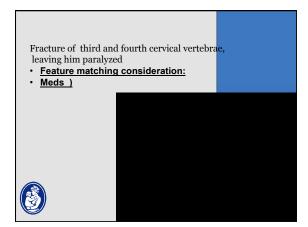




Motor Domain	
 Use of gestures/pantomime Control/access Physical positioning Direct selection (hand, eyes, other?) Ability to write/draw 	

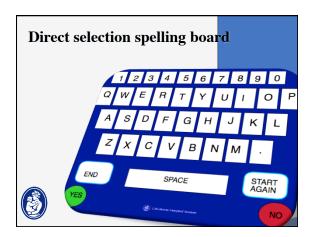
Assessment considerations • Ability to point with hand • Ability to point with eyes • Ability to point with head light • Use of splints to support pointing • Indirect access through scanning • Indirect access through partner assist • Access changed by positioning?









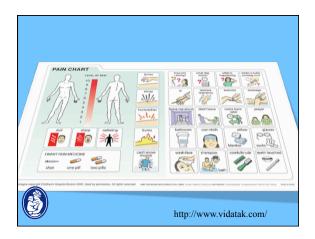


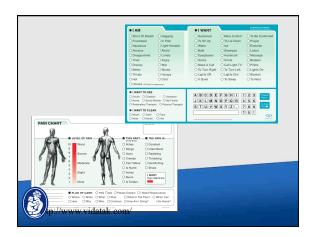


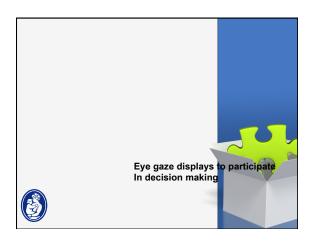




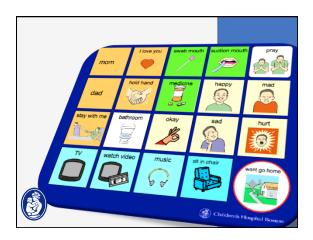


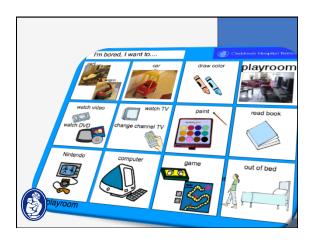


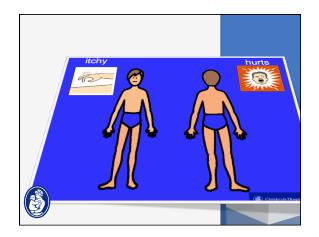


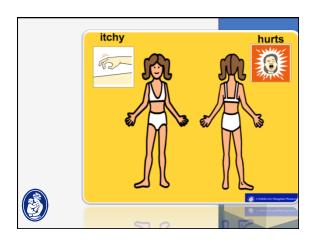


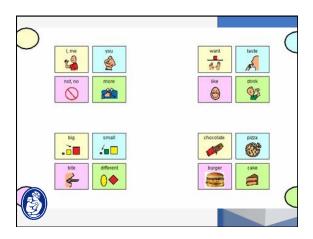


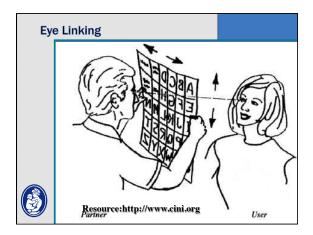














Positioning

- Cuff inflation may vary by positioning and impact need for AAC vs. ability to use speech.
- Access skill may change with physical positioning (in bed/in chair) and require different strategies or mounts
- Medical procedure may impact positioning which will impact feature match
- spinal fusion/rod insertion
- reconstruction surgery with tissue grafting





Language Comprehension Domain Native language? Comprehension Ability to follow directions Able to answer yes/no questions Health literacy

Feature match/intervention Considerations (language)

Post how patient indicates yes/no in obvious space in room

- > Examples: thumbs up/down
- > Squeeze eyes or blink eyes
- > Squeeze hand once or twice



<u>Feature match/intervention</u> Considerations (language)

- Use of visuals (symbols, photos, text)
- Intervention may focus on simple single message output devices
- May focus on strategies to support control and impact on environment

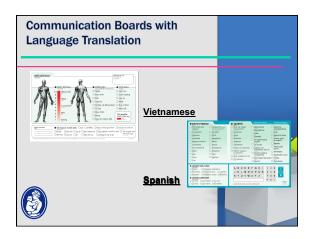


Feature match/intervention Considerations (language)

- ALWAYS use QUALIFIED MEDICAL INTERPRETER services when patient does not speak English/uses ASL
- Use of digitally recorded communication aids for communication in native language and English (approved by qualified medical interpreter)



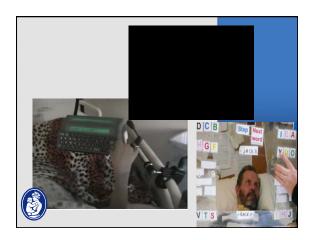
iPad (or itouch) and iASL

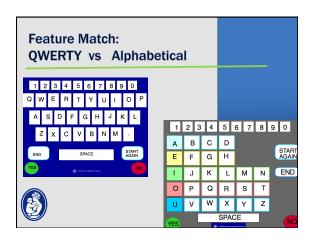


Feature match/intervention Considerations (language) • Selection of tools/strategies with transparent organization versus requiring meta understanding of navigation/organization * • may change rapidly with medical status change • Selection of sophisticated tools and integrated features for environmental control, web access, etc.

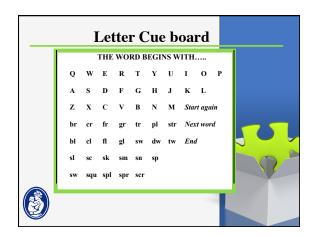
Literacy Domain Feature Match considerations Use of written words Use of alphabet for generative communication Encoding strategies Use of keyboard based systems Keep pen and paper at bedside along with easily accessible strategy to request (simple voice output tool)

Literacy Domain Feature Match considerations Use of cell phone/text messaging for communication Use of letter cues/topic cues ***Note: good decoding skills and reading comprehension does not mean patient has good encoding skills May be able to use canned text but not generate novel text.

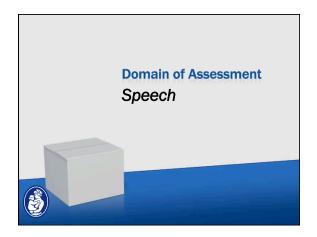


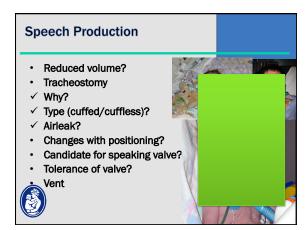


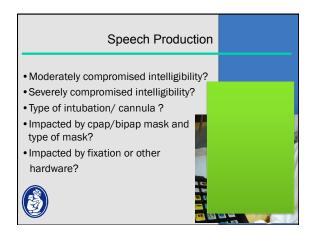




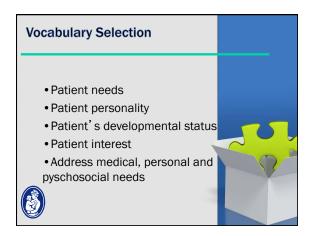
Topic Cue board			
People	Food	Emotions	
Places	Colors	Questions	
Animals	Entertainment	nt Body	
School	Home	Community	

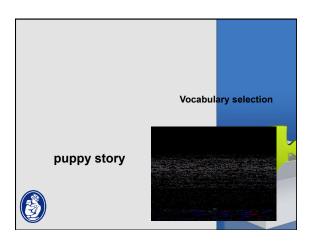














Domain of Assessment: Environmental Lighting Noise (including noise from vent and other medical equipment) Available real estate/furniture for mounting/access Nurse route of access maintained

Current evidence based data demonstrates Electromagnetic Interference (EMI) affects medical devices. Currently, types of wireless devices include but are not limited to: all cell phones hand held messaging devices (Blackberry itouch, ipad, etc..) multi-communication devices that combine the use of Wi-Fi, Blue tooth and cellular-capable computers (Kindle, blue tooth ear pieces. Etc..).

Electromagnetic Interference (EMI)

The Emergency Care Research Institute (ECRI) addresses the issue of whether the use of cell phones should be restricted in health care facilities because of problems concerning EMI with medical devices.

Recommended Practice:

When using a wireless device, a minimum distance of at least 1 meter, an "arm" s length" from medical devices is recommended.

cell phones should be prohibited in highly instrumented clinical areas and should be powered off by patients and visitors in these areas.

Electromagnetic Interference (EMI)





