For Toolbox, ‘somatosensation’ =
all touch and proprioception
awareness of body parts
direct interface with objects and the environment.

Issues in SOMATOSENSATION
MEASURES are clinical tools for populations who have disorders
measures were designed for adults; we need to make them child friendly
• Oversampling young (3-15 years)
• Oversample old [above 70 years]
• Find out what instructions/procedures are sensitive to age and background

Current list of Measures

• PAIN
  – PROMIS short: Visual Analog Scale for Pain
  – Body Part for Pain
• TEMPERATURE
  – Heat Perception
• TOUCH
  – Bottom of Foot touch
  – Two point discrimination
• TOUCH DISCRIMINATION
  – Texture Discrimination
  – Stereognosis
• PROPRIOCEPTION
  – Wrist Position Sense
  – Reaching Test

PROMIS Short Form for Pain
©2008 PROMIS Health Organization and PROMIS Cooperative Group

Please respond to each item by marking one box per row. In the past 7 days... [5 pt Likert scale]

• How much did pain interfere with your enjoyment of life?
• How much did pain interfere with your ability to concentrate?
• How much did pain interfere with your day to day activities?
• How much did pain interfere with your enjoyment of recreational activities?
• How much did pain interfere with doing your tasks away from home (e.g., getting groceries, running errands)?
• How often did pain keep you from socializing with others?
In the last week, have you had any pain?
no.....STOP
yes>>>Show me where on this picture.
Show me how much pain.

No pain--------------------------severe pain

Score sheet

Measuring pain with 3-5 year olds is...
...challenging!
Heat Perception Test

Comparison of Temperature ratings and time across ages

Bottom of Foot Test
Comparison of foot areas & filaments

Number of people

N=67

Two Point Discrimination

Evaluates the integrity and awareness of receptor fields

www.alimed.com/.../products/full/5031_d.jpg

Tactile Discrimination Test

www.alimed.com/.../products/full/5031_d.jpg
Stereognosis

Wrist Position Test

- 85% are correct
- People 50+ years old most likely to make errors
- Young children cannot perform

- 80% are correct
- People 50+ years old most likely to make errors
- Young children cannot perform

N=67
Wrist Position Sense Test

Carey et al., 1996.

Reaching

MISS

Partial HIT

HIT

VALIDATION

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