



Motor Skill Learning and Interdisciplinary Working

[The body is] a marvelous machine...a chemical laboratory, a power-house. Every movement, voluntary or involuntary, full of secrets and marvels!

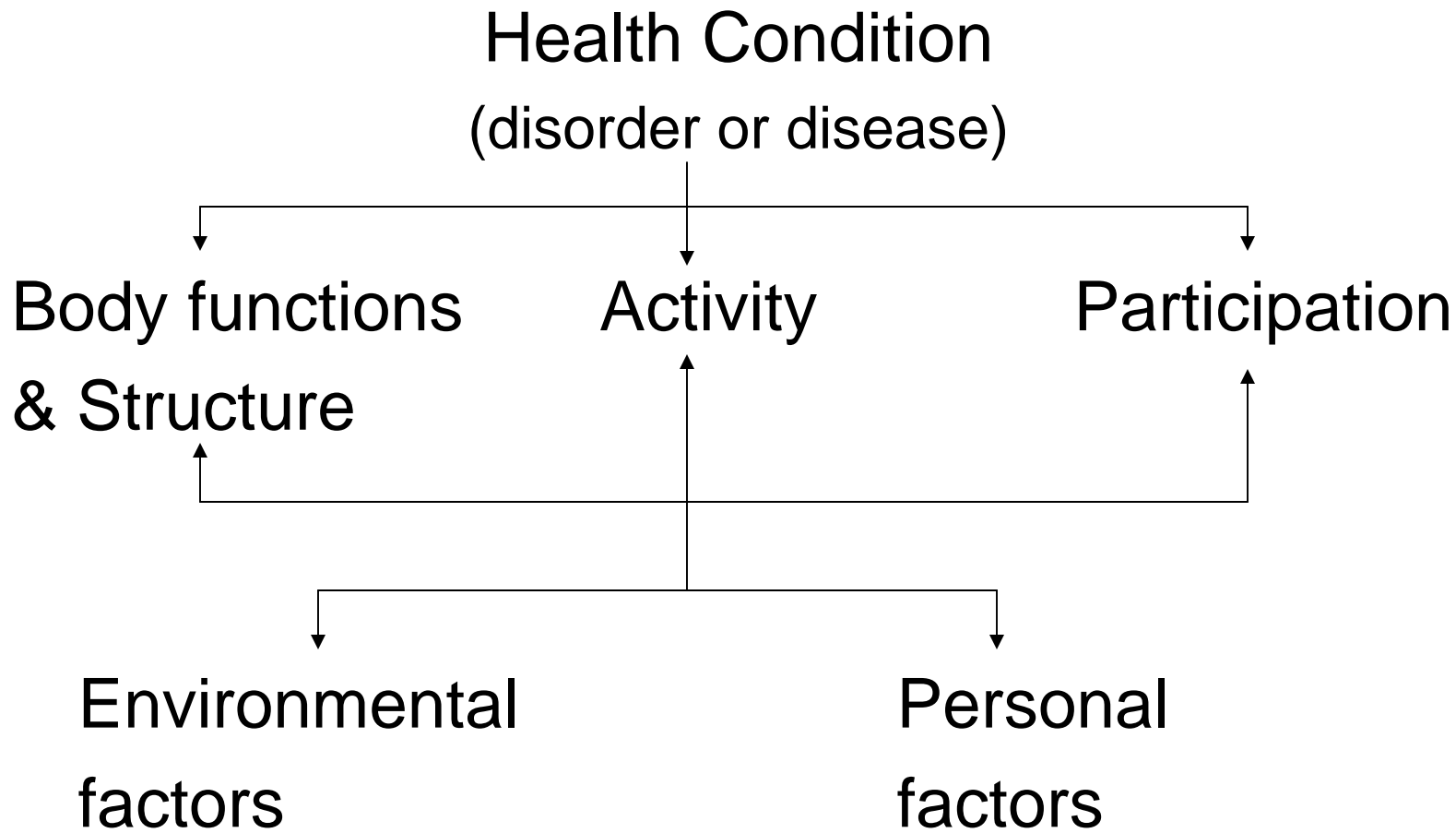
Theodor Herzl (1860 - 1904)

The task of the educator lies in seeing that the child does not confound good with immobility and evil with activity.

Maria Montessori (1870 - 1952)

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Ref.:(ICF model, WHO 2002)

Health professionals and the ICF

- Specialist knowledge in specific area
- Communication
- Prioritising
- Goal setting
- Goal attaining
- Reality

(Palisano 2006, Mu & Royeen 2004, Horn 1997, Law et al 2004, Sanger et al 2006)



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JIM BERGMAN "LIVING WITH LOSS - AN OJIBWE"



I'M A 9/11 BABY.
HERE'S WHAT I'VE
LEARNED.



FOR A LONG
TIME, ALL YOU
CAN DO IS
WATCH.



YOU THINK
YOU MAY NEVER
UNDERSTAND.



CRYING
HELPS.



ONE DAY
YOU FIND YOU
CAN SIT UP.



EACH NEW
THING IS
HARD.



SOMETIMES
YOU HAVE
TO HIDE.



IT ALL TAKES
LONGER THAN
YOU THINK IT WILL.



BUT EVENTUALLY
YOU DO
MOVE ON.



ONE STEP
AT A TIME.

For a long time all you can do is watch.....

- Fetal movement patterns
- Neonate and infant positioning
- Milestones and variability
- Qualitative aspects of movement

(Stanojevic et al 2004, Yigiter & Kavak 2006, Hutchinson et al 2006, Angulo-Knzler et al 2002)



You think you may never understand.....

- “Getting the idea” of a movement
 - Gentile (2000)
- Dynamical systems
or
- Motor programming?

Refs: Magill (text book)

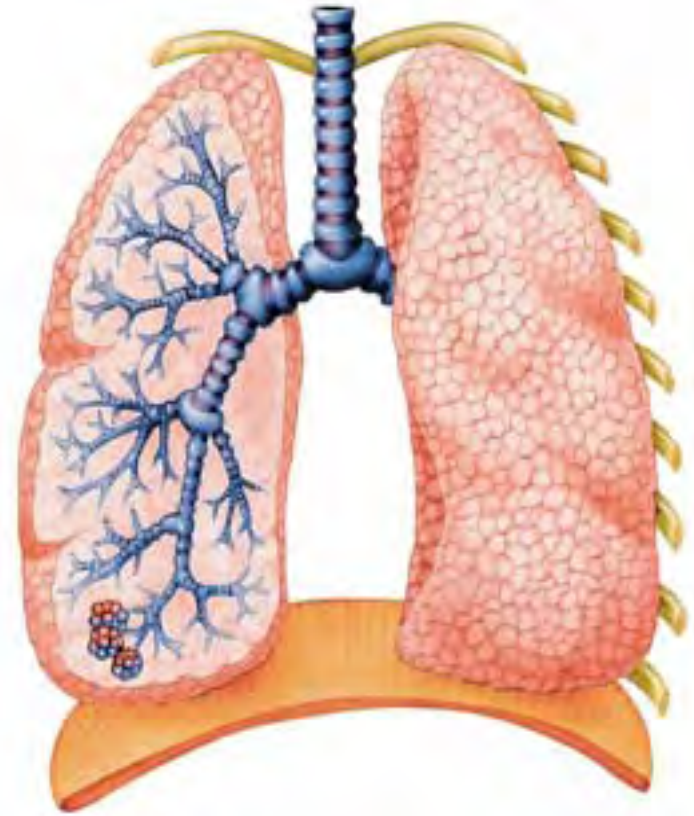
Thelen and collaborators



Crying helps.....

- Respiratory function
 - Muscles especially diaphragm
 - Lungs
- Breathing control / Voice
- Fitness / Aerobic capacity

Goldfield et al 1999



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One day you find you can sit up....

- Non-linear progression
- Co-ordination

*Hirshfeld 2007, Utley & Steenbergen
2006*



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Each new thing is hard....

- Task analysis
- Specificity
- Practice
- Adjuncts

Bryanton et al 2006, Morton et al 2005, Odman & Oberg 2005, Ricken et al 2007, van Dijk et al 2005, De Luca et al 2006

Savage Chickens

by Doug Savage

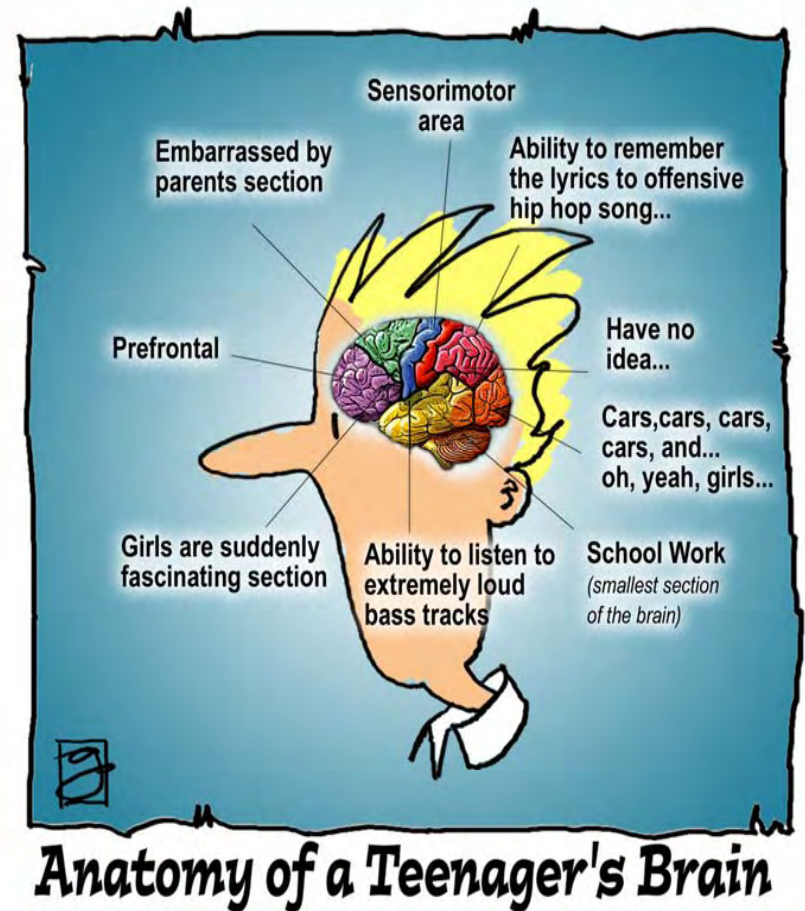


www.savagechickens.com

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Sometimes you have to hide....

- Lifespan development – ages and stages
- Rest



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It all takes longer than you think...

- Key milestones
- Complexity and interactions
- Predictors

Fily et al 2003, Bucher et al 2002,



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But eventually you do move on...

- Goal setting
- Evaluation / measurement
- Continuum

*Hammal et al 2004, Tieman et al 2004,
Morris et al 2005, Dunn et al 2007*

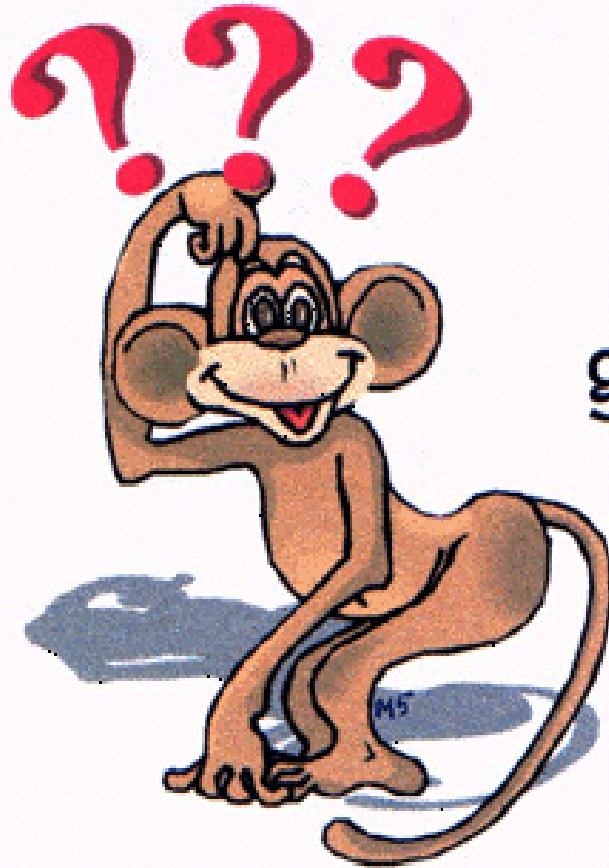


One step at a time....



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Thank you for your attention



Questions
are
guaranteed in
life;
Answers
aren't.