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- The influence of intra-abdominal pressure on intraesohpageal pressure
- The diaphragmatic postural and sphincter function are interrelated.
- The amount of LESP and UESP increase during postural activation depends on resting LESP and UESP.

Bitnar P, Stovicek J, Andel R, Arlt J, Arltova M, Smejkal M, Kolar P, Kobesova A, Leg raise increases pressure inlower and upper esophageal sphincter among patients with gastroesophageal reflux disease. Journal of Bod ywork and Movement Therapies. 2015





























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3rd Level: Matures after one year of age <u>Cortical level</u> of sensory-motor control MOTOR LEARNING & TRAINING Individual qualities, motor patterns' characteristics











AESTHESIS: Ability to perceive and experience sensation, somatognosis = BODY AWARENESS MOTOR FUNCTION: Executive, expressive function isolated precise movement, relaxation IDEOMOTOR: Constructive, planning

INDIVIDUAL QUALITY OF MOTOR PATTERNS

FRACAU SCHOOL

DISTURBED IDEOMOTOR FUNCTION

(Developmental Coordination Disorder/Developmental Dyspraxia)

- Caused by:
 - Lack of motor imaginative ability
 - Lack of motor planning ability
- •Therefore difficulty in learning new movement stereotype

REGALL SCHOOL

Disturbed central - cortical, motor regulation

- Repetitive injuries
- Degenerative disorders
- Tendinitis
- Orthopaedic problems resulting from chronic overload, repetitive stress injury
- Unsuccessful motor re- education after injuries, recurrent painful syndromes
- Psychosocial consequences

REHABILITATION PRACATE SCHOOL

Postural – Locomotion function (PLF)

- Compromised PLF= one of the most frequent cause of orthopaedic disturbances (chronic overload!)
- PLF cannot be improved by **manual/chiropractic techniques** only: weak muscle strengthening, short muscle stretching, mobilization, TrPs treatment etc.
- Educational therapeutic system respecting CNS processes is necessary!
- PLF always reacts to all orthopaedic, internal, central and others disorders – by a reflex mechanism













REHABILITION PRACEIT SCHOOL

Kobesova A, Dzvonik J, Kolar P, Sardina A, Andel R. Effects of shoulder girdle dynamic **stabilization exercise** on hand **muscle strength.** *Isokinetics and exercise Science*. 2015;23:21-32.







