

MNRI® and Reflex Neuromodulation for Neurodevelopment





Masgutova Method[®] of Neurosensorimotor Reflex Integration (MNRI[®])

REFLEX
INTEGRATION



The Masgutova Method[®] is a set of programs focused on the restoration and maturation of primary sensory-motor patterns, reflexes, and skills for optimal performance of developmental mechanisms and brain functioning.

• Holistic

• Interdisciplinary

• Non-invasive

• Non-verbal

• Friendly

• Researched



Masgutova Method® of Neurosensorimotor Reflex Integration (MNRI®)

REFLEX
INTEGRATION

Goals are to facilitate:

1. Neurodevelopment and immunity

2. Resilience to stress (HPA and SAM-stress-axis)

3. Neuroplasticity

The Mission of the MNRI® Program is to provide individuals reliable knowledge and safe tools for the use of natural, genetic sensory-motor resources to facilitate successful neurodevelopment, stress-management and successful learning.

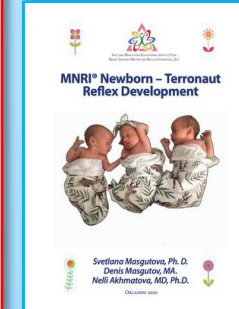
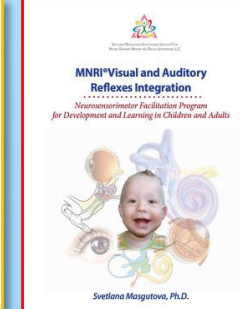
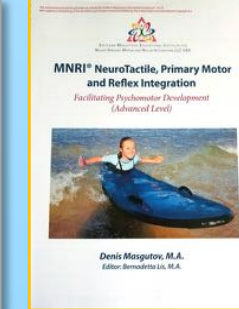
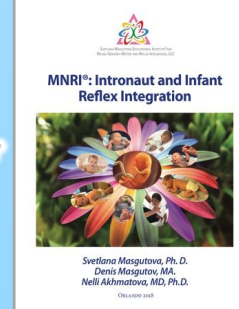
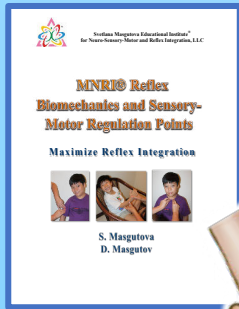
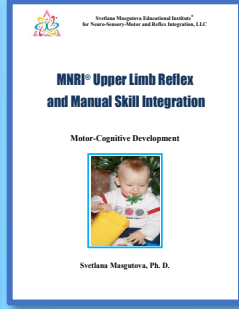
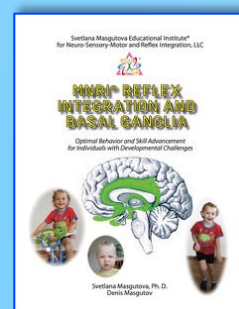
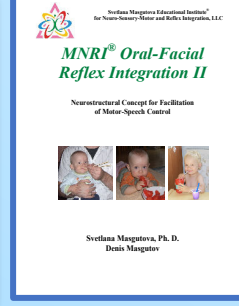
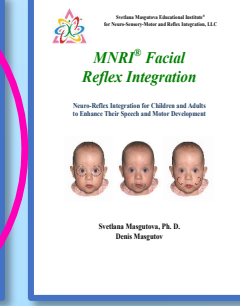
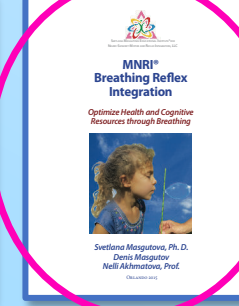
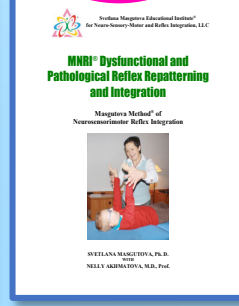
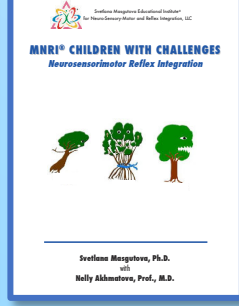
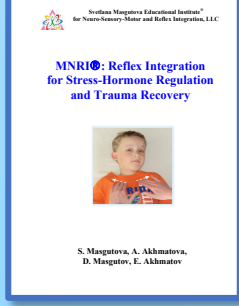
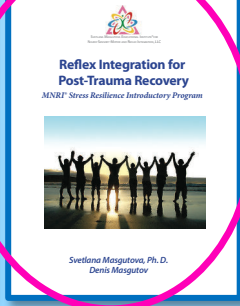
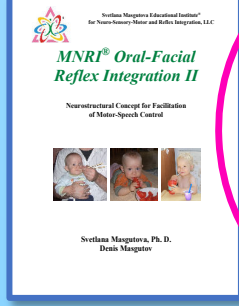
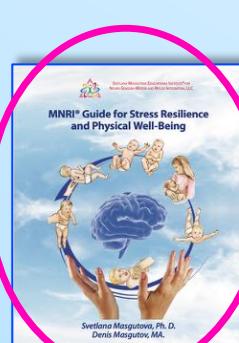
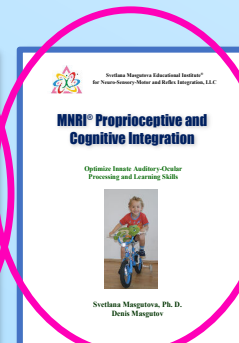
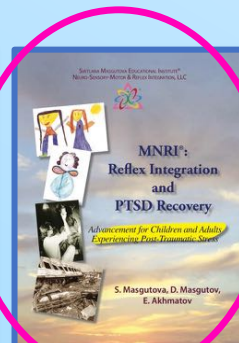
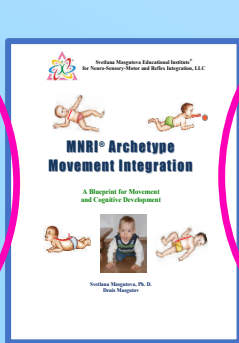
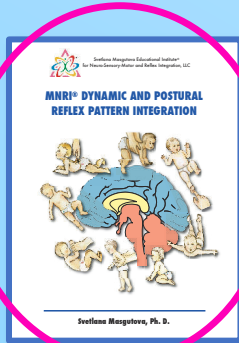
Therapy Modality object/subject:
*Neurosensorimotor reflex
integration*

MNRI® Program Approach:
*The Neurosensorimotor reflex is
the unit of:*

- ✓ The nerve system functioning (Sechenov, 1861/1960; Pavlov, 1925/1960; Sherrington, 1947; Luria, 1966),
- ✓ Resilience, survival,
- ✓ Sensory-motor integrity,
- ✓ Neurodevelopment.



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Our Experience of Work with the MNRI® program: Facts

- ✓ **The MNRI® Program** was utilized by Dr. S. Masgutova and MNRI leading clinics in the USA, Poland (and also the Netherlands, Australia, Indonesia, and Russia) in therapeutic work with over **300,000** children (0-19 y.o) and **80,000** adults with different diagnosis: **CP, TBI, & ABI, ASD and Asperger's, ADD & ADHD, Genetic disorders, PTSD** and **Post-Traumatic Stress, Birth Stress, HIE, NFD, Learning challenges (Dyslexia and Speech Delay)**, etc.
- ✓ Dr. Masgutova's personal work with the use of **the MNRI® Reflex Assessment** was conducted for 42,000 individuals.
- ✓ **Over 46,000 Children and Adults** (aged 2-21 y.o.) with **Post Trauma** and **PTSD** – in 27 countries (1986-2021) received the MNRI® services of our specialists.
- ✓ **938 individual with PTS/D** went through the research of **the MNRI® Effect on Post-Trauma**.
- ✓ The work on Reflex Integration Program is used by **trained Specialists** – PTs, OTs, SLPs, Psychologists, Medical professionals, Special Educators and from other supporting disciplines **in 40 countries**: the USA, Poland, the Netherlands, France, Belgium, Russia, Australia, Sweden, Slovenia, Indonesia, Canada, Croatia, Denmark, Africa, Egypt, Israel, and others.





MNRI® Clinics and Conferences are organized for children and adults with challenges:



Cerebral Palsy



Autism



Asperger syndrome



ADD



ADHD



Down syndrome

- Traumatic Stress, post-trauma and PTSD
- Autism, Asperger syndrome
- Cerebral Palsy
- Hyperactivity (ADHD, ADD)
- Traumatic brain injury
- Genetic disorders (Down, Prader-Willi and other)
- Epilepsy/seizure disorder (Rett Syndrome)
- Disorders and challenges in learning (dyslexia, dyscalculia, dysgraphia)
- Intellectual development challenges
- Emotional disorders (anxiety, obsessive compulsive disorder, depression)
- Tic disorder/Tourette's
- Dyspraxia and gross and fine motor delay

- Language disorder (expressive speech delay, apraxia, articulation disorder, dysarthria, stuttering, pervasive developmental disorder, eating/ feeding disorder)
- Visual processing disorder, vision impairment
- Attachment disorder (oppositional defiance disorder)
- Auditory processing disorder, hearing impairment
- FAS
- Post-Stroke
- Alzheimer's (Dementia)
- Parkinson's
- Post-birth Stress
- Other



Speech/Language disorders



Fear/Phobia



Aggression



Dyslexia Learning disorders



Seizure disorder



FAS



**Reflex
Integration
Research**

1. Objective brain methods EEG, EEGR, QEEG, Brain Mapping, Evoked Brain Potential, EMG(n=908)

2. PT, OT, SP, Psychology, Physicals
(Keiser Hospital, Neurology dep. 2011; NE IRB approved 2011-2012, 2013) (n=174)

3. Immunology
(n=769), among them:

- Bronchitis (n=579=196+383)
- Down Syndrome (n=144=54+49+42)
- Herpes (n=166=46+45)
- Autism (n=125)

4. MNRI® research for symptomatic groups

- Cerebral Palsy (598);
- Down Syndrome (n=246=38+54+49+48+57);
- Autism (n=1142=524+484+134)
- Trauma & PTSD (n=938)

5. Mathematical statistical research of the MNRI® Reflex Assessment Procedure (Medical University of Poland; n=3250)

6. Physicals
(NE IRB approved Study 2016-2017) (n=310)



7. Brain Mapping
(NE IRB approved Study 2016-2017) (n=230)

8. Neurotransmitters
(NE IRB approved Study 2016-2017) (n=131)

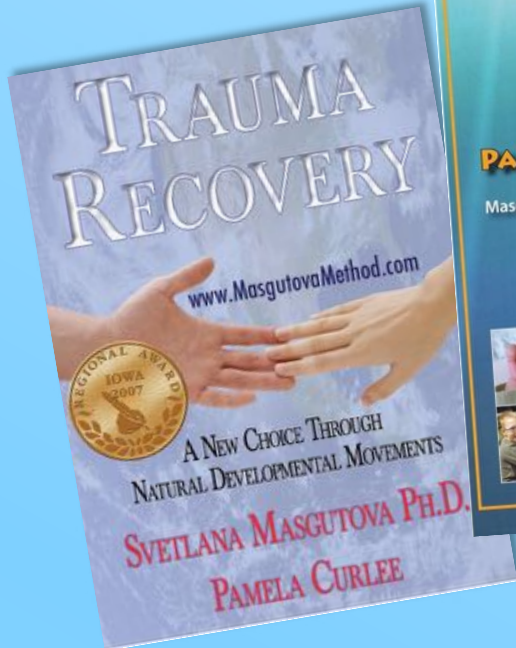




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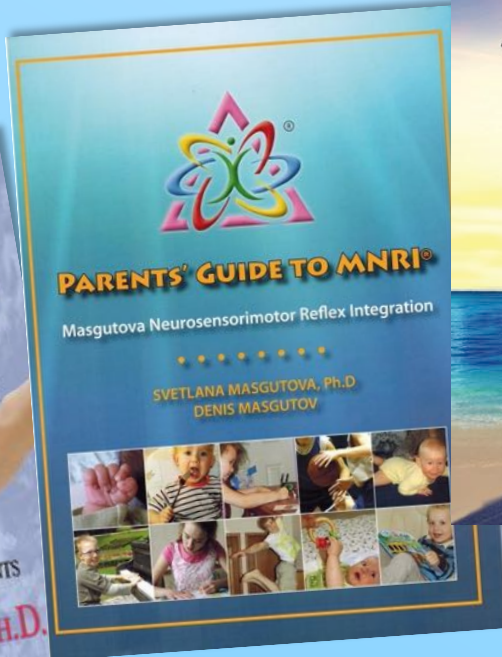


MNRI® Books

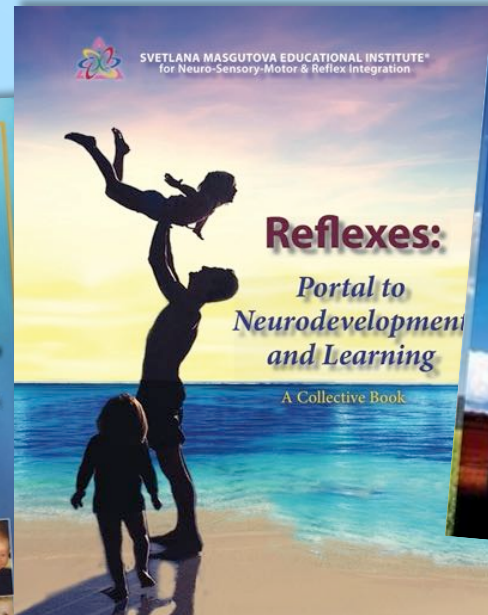


MNRI®: Definition of Protection and Survival Mechanism

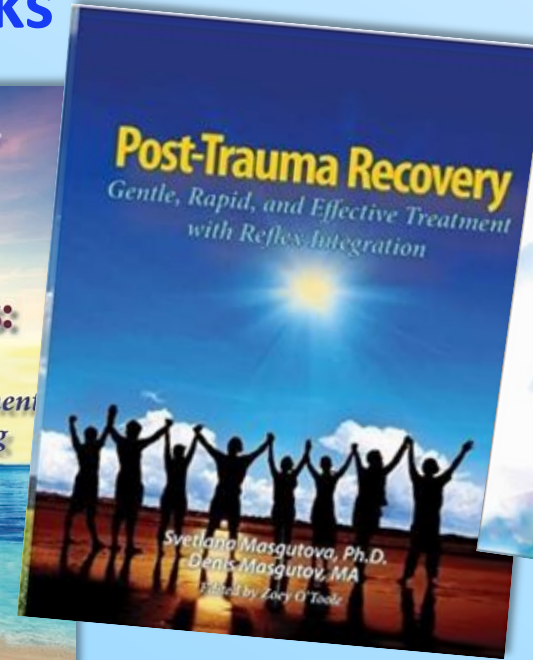
Copyrights: 2023, Copyrights: S. Masgutova, N. Akhmatova and MasgutovaIntel



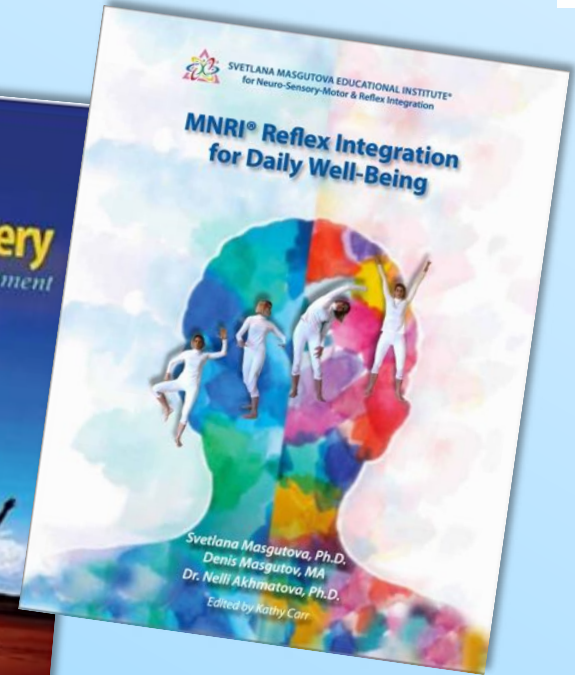
The MNRI® Exercises Guide



New book on MNRI® research, case studies and success stories is published in 2015-2016.



The MNRI® Exercises Guide for Stress and Trauma Recovery



The MNRI® Exercises Guide for Stress and Trauma Recovery



WHAT IS A REFLEX?



A REFLEX is a Unit of the Nervous System (I. Sechenov, 1863/1961; Pavlov, 1925/1960; Ch. Sherrington, 1947), **and Neurodevelopment, and Sensory-Motor Integration**

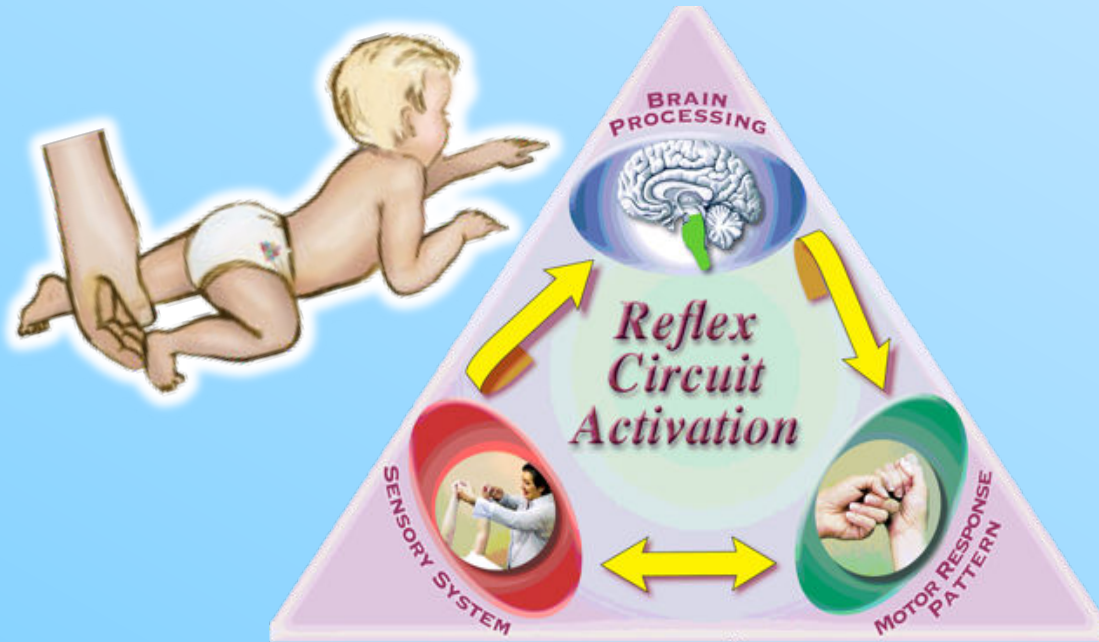
- ✓ It “trains” the encoded way of **the nerve tracts**, bringing a wide spectrum of stimuli via sensory axons, reaches processing on the level of the CNS and allows to move the output via motor neurons to working organs (I. Sechenov, 1863/1961; Pavlov, 1925/1960; Ch. Sherrington, 1947).
- ✓ A Reflex “trains” functions of **excitation and inhibition**.
- ✓ It serves as the basis for the development of the **extrapyramidal and pyramidal system** functions.
- ✓ It has its own developmental dynamic, which the basis for neurodevelopment of an infant and toddler.



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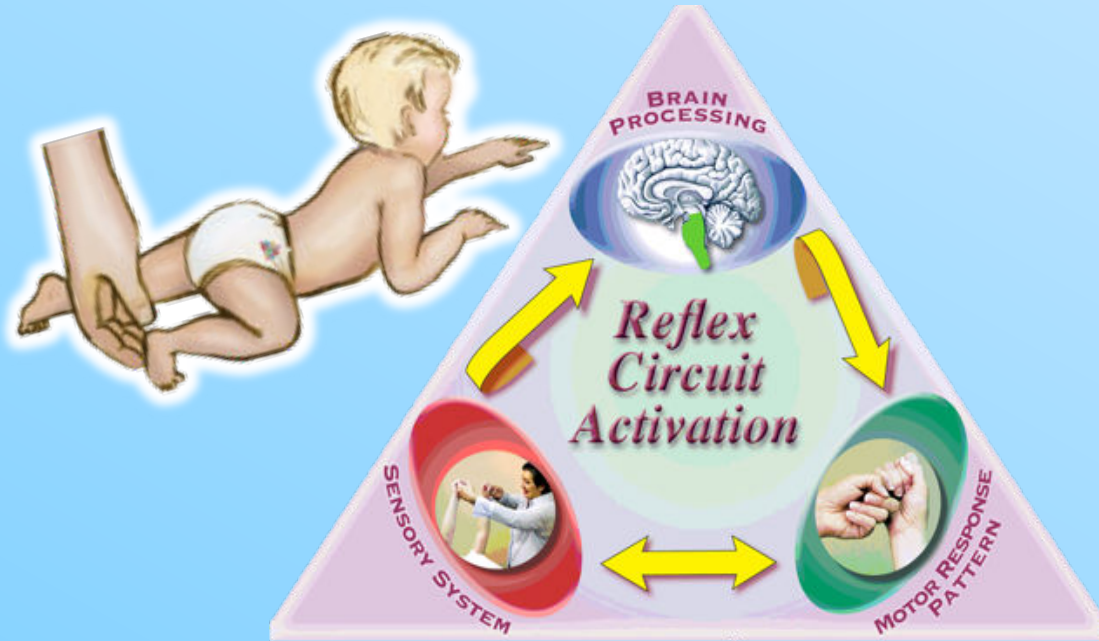
WHAT IS A REFLEX?





WHAT IS A REFLEX?

The genetic/epigenetic
inherent automatic response, unit
of the central nervous system for





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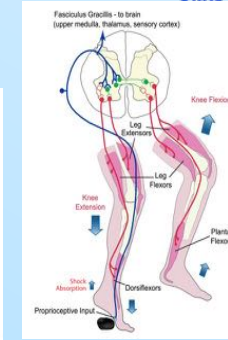
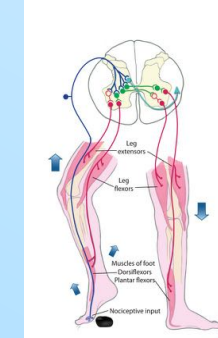
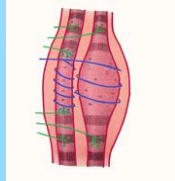


Adequate and specific **stimulus**
(tactile, visual, auditory, vestibular,
proprioceptive, or olfactory)



WHAT IS A REFLEX?

The genetic/epigenetic inherent automatic response, unit of the central nervous system for



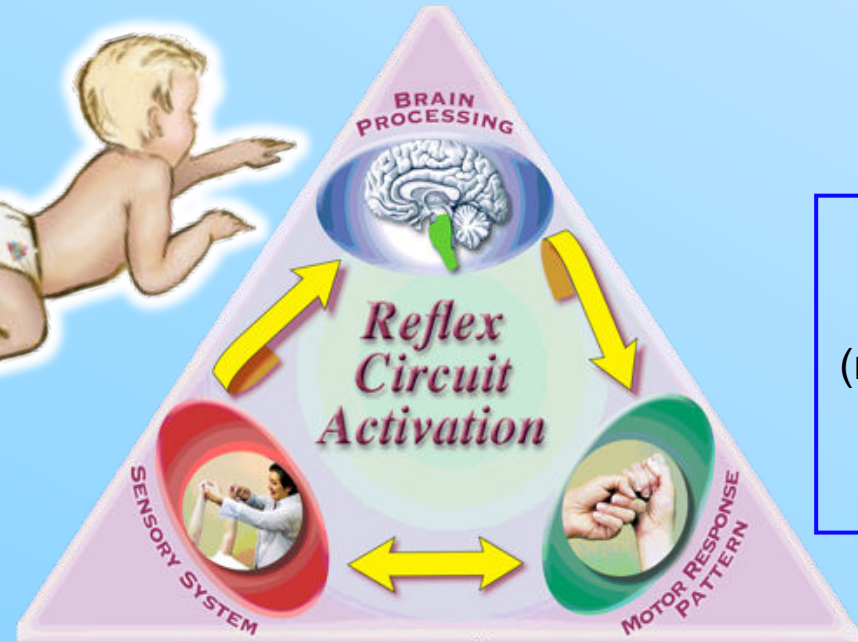
Proper - adequate and specific reaction (motor/postural/glandular/pupillary/ tympanic membrane)

Adequate and specific stimulus (tactile, visual, auditory, vestibular, proprioceptive, or olfactory)



WHAT IS A REFLEX?

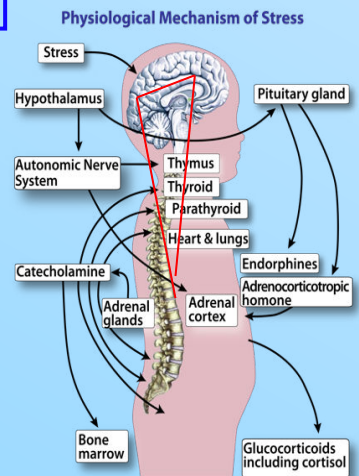
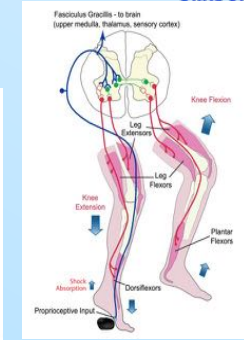
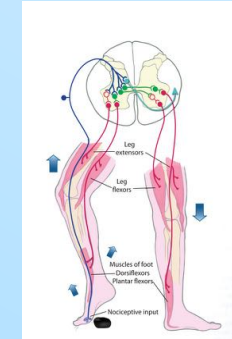
The genetic/epigenetic inherent automatic response, unit of the central nervous system for



Proper - adequate and specific reaction (motor/postural/glandular/pupillary/ tympanic membrane)

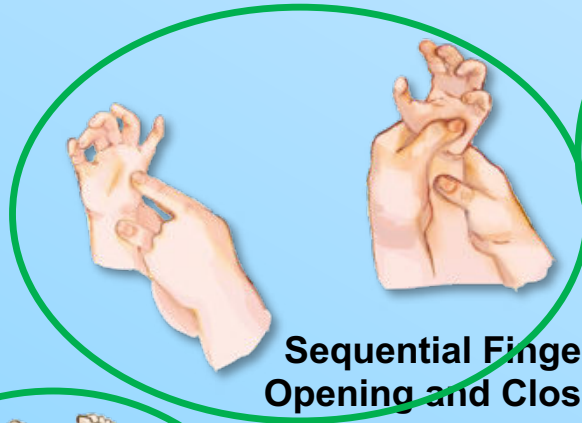
Adequate and specific stimulus (tactile, visual, auditory, vestibular, proprioceptive, or olfactory)

Activating the protection and survival strategy of the organism and thus, the SAM (sympathetic-adrenal-medullary), and HPA-stress axis (hypothalamus-pituitary gland-adrenals).

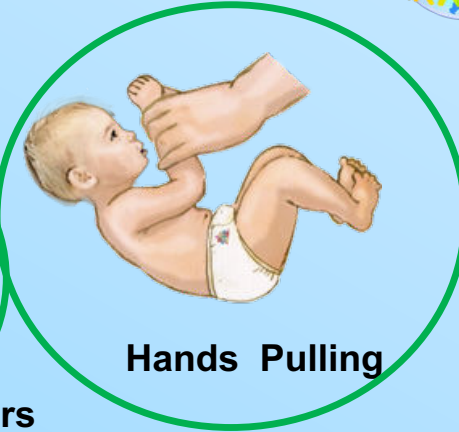




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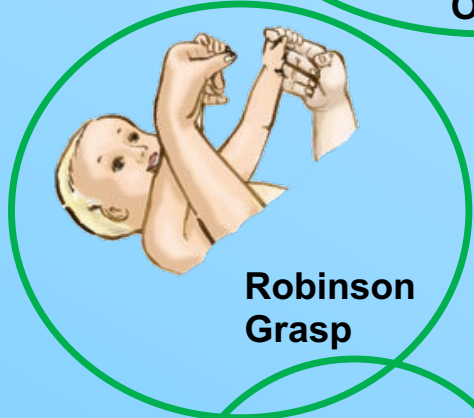
**Sequential Fingers
Opening and Closing**



Hands Pulling



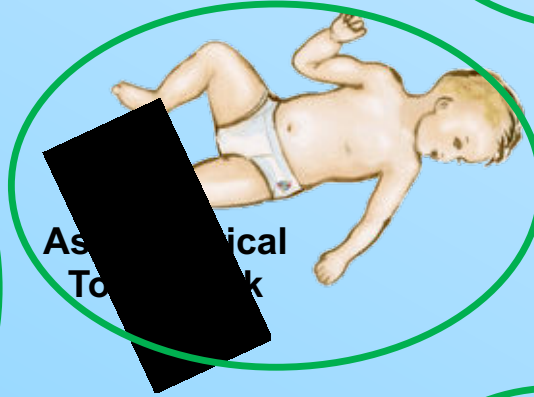
**Babkin
Palm-mental**



**Robinson
Grasp**



**Leg Cross
Flexion-
Extension**



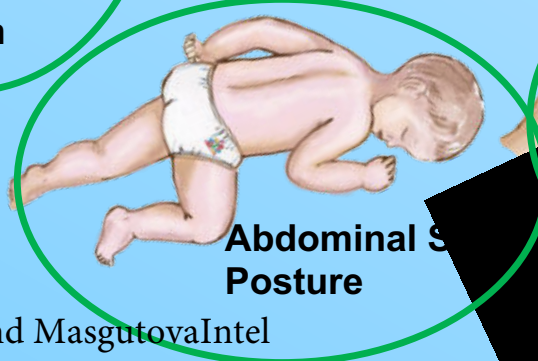
**Asymmetrical
Tonic Neck**



Bonding



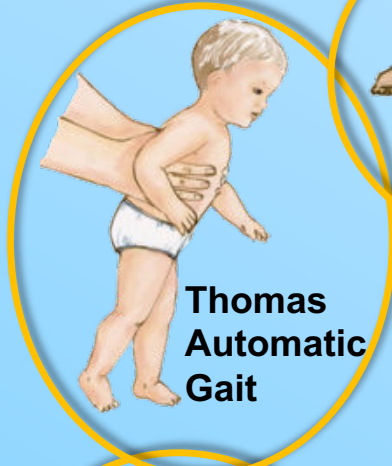
Babinsky



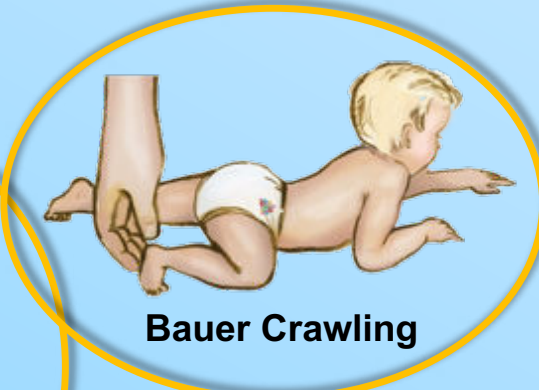
**Abdominal S
Posture**



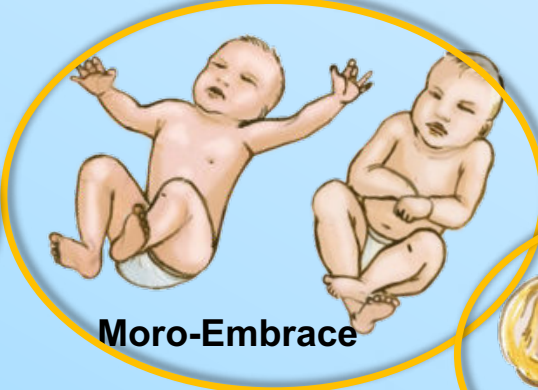
Foot Grasp



**Thomas
Automatic
Gait**



Bauer Crawling



Moro-Embrace



Fear Paralysis



**Hands
supporting**



**Pavlov Orientation
"What is this?"**



**Leg Cross
Flexion-
Extension**



Landau



**Foot Tendon
Guard**



**Flying
and
Landing**



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**Trunk
Extension**



**Symmetrical
Tonic Neck**



Spinal Perez



**Foot Tendon
Guard**



Spinal Galant



**Pavlov Orientation
What is this?**



**Tonic Labyrinthine in
Flexion and Extension**