

OBJECTIVE: PURPOSEFUL

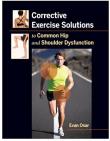


- DISCOVER
- √ Cause
- DEVELOP
- **✓**Corrective Exercise
- DESIGN
- ✓ Confidence

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PLEASE NOTE





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WORLD CONVENTION #ideaward

BREATH



- Most essential function of the nervous system
- 17,000 30,000 breaths per day
- 6,000,000 million



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WHY FEW DOCTORS ADDRESS BREATHING



- The symptoms of suboptimal breathing are not experienced for years.
- Subtle is not insignificant!



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THORACOPELVIC CYLINDER

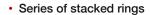


- · Functional cylinder
- Thorax
- · Lumbar spine
- Pelvis



THORACOPELVIC CYLINDER











 Lumbar myofascialosseous ring





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THREE-DIMENSIONAL BREATHING

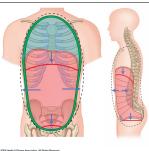


- Ability to use the entire thoracopelvic cylinder in the breathing process.
- All breathing is diaphragmatic breathing.
- Not all diaphragmatic breathing is optimal.
- · Breath (2022 Osar)



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INSPIRATION



- Purpose: increase dimensions of TPC
- Quiet respiration should be relatively effortless.
- Diaphragm lowers (concentric) / Pelvic floor lowers (eccentric)



Purpose: decrease dimensions of TPC During quiet respiration, it's mostly via a passive relaxation Diaphragm rises (eccentric) / Pelvic floor rises (concentric) Fideworld

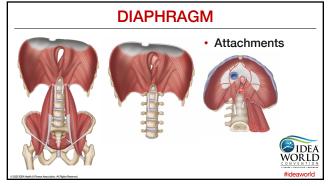
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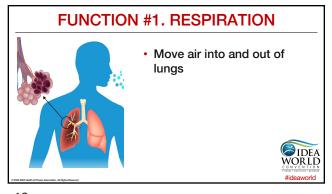
RESPIRATORY MUSCLES

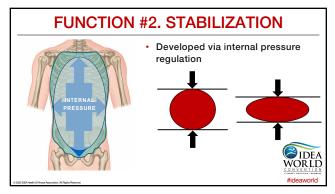
- Primary
- Accessory
- Diaphragm
- Neck
- •
- Thorax
- Thorax to abdomen

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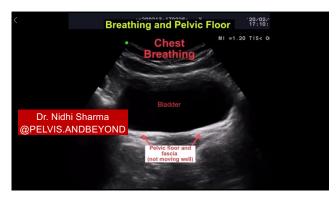
FUNCTION #3. MOBILITY

- Skeleton
- · Muscles & fascia
- Organs
- Video Credit: Stockbridge Osteopathic Practice via Facebook

IDEA WORLD

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POSTURE & BREATHING ARE LINKED



 What gets linked together gets synced togethers.



POSTURE & BREATHING ARE LINKED • Belly breathing is not optimal breathing!

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POSTURE & BREATHING ARE LINKED

Three-dimensional breathing is optimal.



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SARCOPENIA IS A MAJOR PROBLEM

- Ageing of the Diaphragm Muscle. Bordoni et. al. (2020)
- ✓ Diaphragm thins and atrophies
- ✓ Becomes flatter and less elastic
- √ Thinning of the vagus nerve



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THE PSOAS

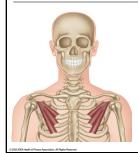


- Links the diaphragm with the pelvic floor
- Respiratory diaphragm (dome)
- Pelvic floor diaphragm (dome)



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PECTORALIS MINOR



- Why does it get so tight?
- · Primary role
- · Secondary role



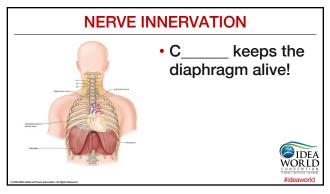
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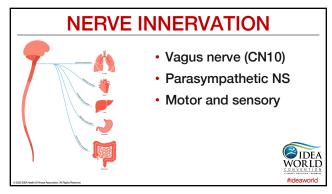
STERNOCLEIDOMASTOID

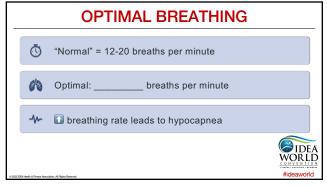


- · Why does it get so tight?
- · Primary role
- · Secondary role









HYPOCAPNEA



- Breathing out too much CO2
- Symptoms include:
- ✓Increased BP & HR
- ✓ Anxiety
- ✓ Light headedness



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CARBON DIOXIDE



- Functions:
- ✓ Respiratory drive / stimulates the vagus nerve
- ✓ Regulates pH
- ✓ Helps bind and release O2



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ROLE OF NASAL BREATHING





- WMF
- Slows BR
- NO



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ROLE OF NASAL BREATHING



- "...nasal breathing reduces pulmonary vascular resistance and improves arterial oxygenation compared with oral breathing in subjects without lung disease."
- · Source:
- Nasal nitric oxide in man (1995)



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SIGNS OF SUBOPTIMAL BREATHING



- ✓ Postural control issues
- ✓ Chronic tightness
- ✓ Chronic LBP
- ✓ Chronic painful neck, shoulders or hips
- ✓ GERD / Urinary Incontinence
- √ Hypertension / Anxiety
- √ Sleep apnea



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Mouth breathing

- •Imbalances of craniosacral bones and facial musculature
- •Lethargy and trouble concentrating
- Snoring and sleep apnea

Source

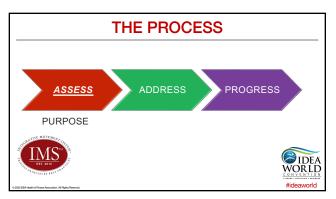
 Sleep Difficulties and Symptoms of Attention-deficit Hyperactivity Disorder in Children with Mouth Breathing (2021)

PROBLEMS WITH MOUTH BREATHING



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POSTURE AND BREATHING STARTS HERE



- Observe the alignment of the thoracopelvic cylinder
- Is it stacked?
- If no, what's not aligned?

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NOTICE THE ANGLE OF THE RIBS





- · Higher in the back
- Lower in the front
- · Intercostal spaces



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QUICK ASSESSMENT



- NOTE:
- ✓ RANGE OF MOTION
- ✓ EASE OF MOTION
- **✓ QUALITY OF MOTION**



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THE PROCESS





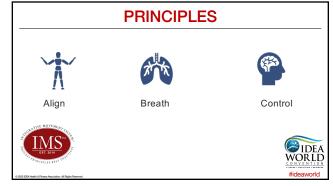
MOVEMENT Jp.



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CUES



- Send your breath:
- "into lower abdomen"
- "side to side into ribs"
- "across shoulder blades"





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ACTIVATE

- Purpose:
- Develop more optimal breathing strategy
- HAPPY BABY BREATHING
- · Lower abdominal (top)
- · Rib cage (middle)
- · Upper thorax (lower)



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ACTIVATE

- Purpose:
- For individuals with excessive thoracic extension
- · Develops spinal length
- Improves head and neck posture and scapular stability





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ACTIVATE



- QUADRUPED ISO HOLDS
- · Sync breath and core
- Develop spinal length
- Improve head and neck posture and scapular stability



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ASSESS ADDRESS PROGRESS PURPOSE PURPOSE

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PROGRESS Purpose Integrate more optimal breathing into the fundamental movement patterns Engrains more optimal habits into the nervous system!

HIGHER LEVEL INTEGRATION



- "Our results indicated that the 4-week IMT training (twice a day, 5 days a week) significantly improves participants' inspiratory muscle strength, 800-m running performance."
- Effects of 4-Week Inspiratory Muscle Training on Sport Performance in College 800-Meter Track Runners (2021)

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CONCLUSION



- **✓** PROBLEMS
- **✓**PROCESS
- **✓ PROGRESSIONS**

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CAN BREATHING CHANGE ONE'S LIFE?

 You're only 5 years of age. You can't have a headache.



