

The success of Yoga does not lie in the ability to perform postures but in how it positively changes the way we live our life and our relationships.

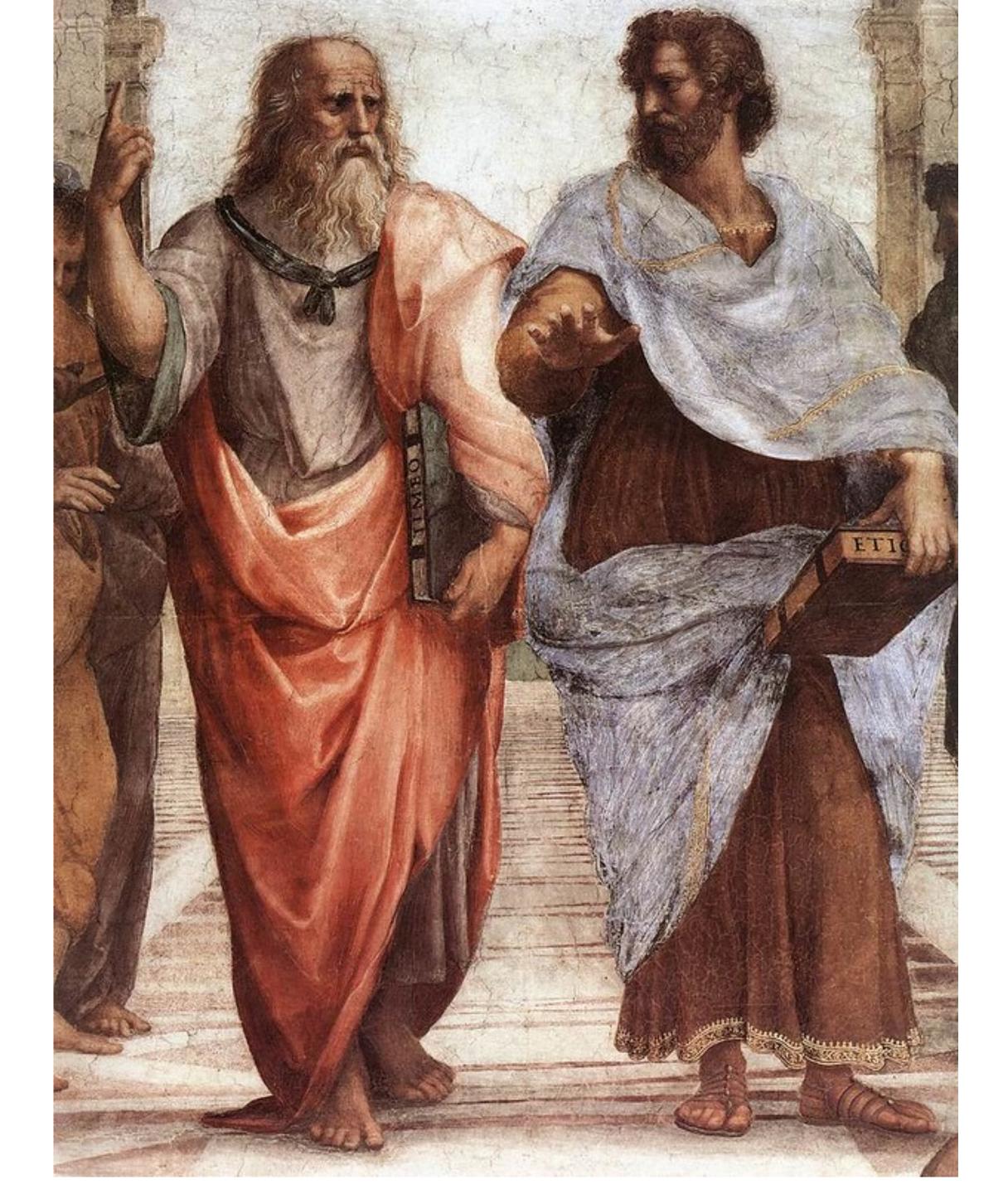
— T. K. V. Desikachar —



"The School of Athens" 1509–1511

fresco by Raphael

Vatican City, Rome



It is generally agreed that their gestures indicate central aspects of their philosophies: for Plato, his Theory of Forms, and for Aristotle, an emphasis on concrete particulars.

Many interpret the painting to show a divergence of the two philosophical schools.

Plato argues a sense of timelessness while Aristotle looks into the physicality of life and the visible world.

PRANA APANA NYASA

Om <u>na</u>mo <u>pra</u>nayá

<u>Pra</u>naya nama om

<u>Pra</u>naya swahä

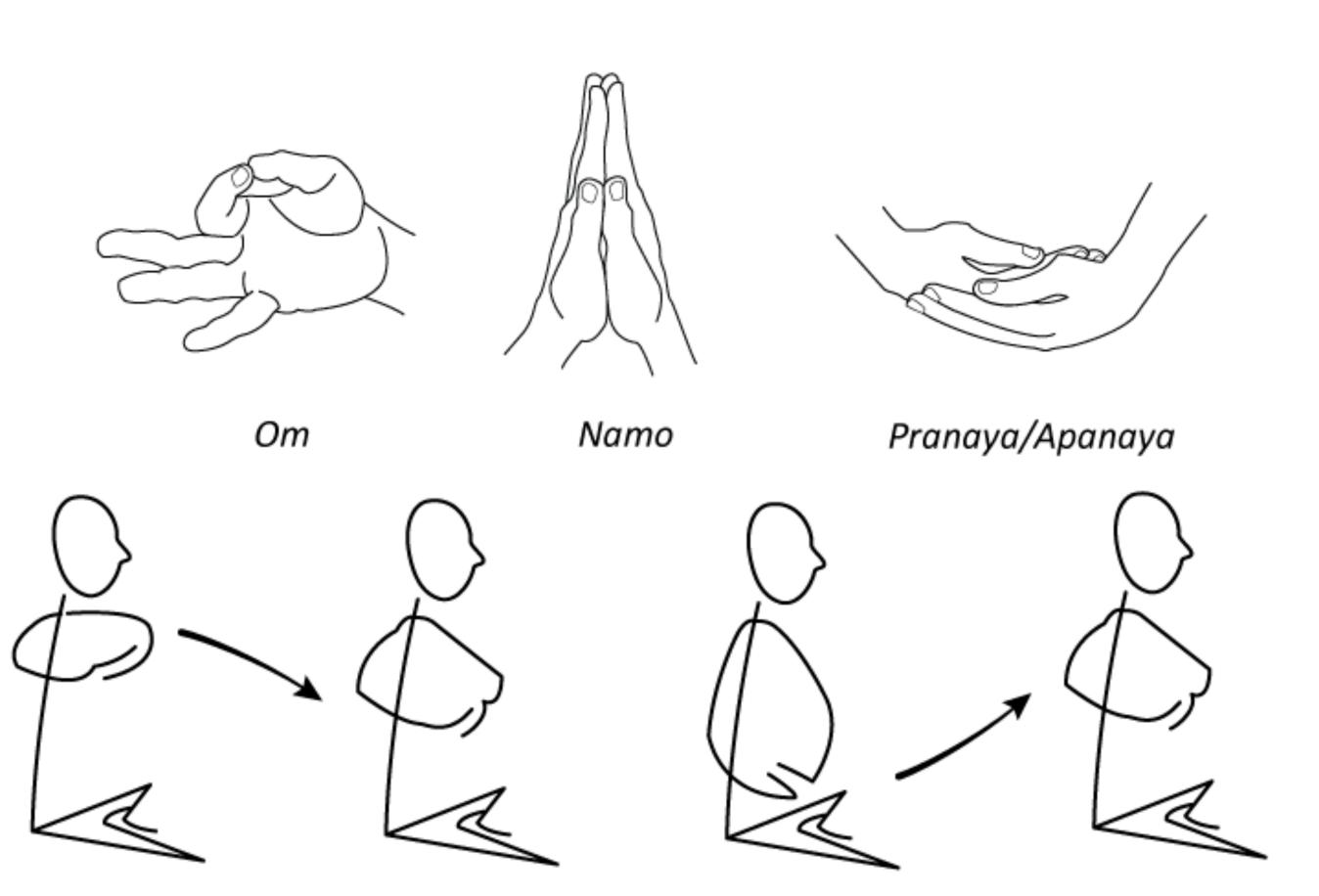
Om <u>na</u>mo <u>apa</u>nayá

<u>Apa</u>naya nama om

<u>Apa</u>naya swahä

Om swahä

Haríh om



Pranaya swaha

Apanaya swaha

Krishnamacharya in Mulabandhasana



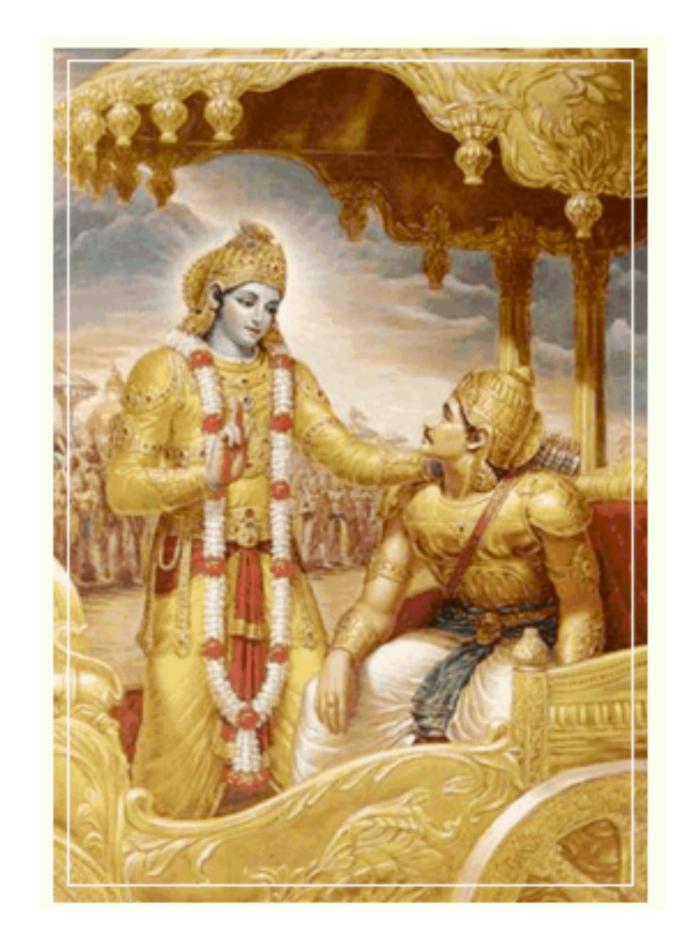
"Prana apana samayogah pranayamah iti iritah"

Pranayama is the balanced joining of the in-breath and the out-breath

Yoga Yajnavalkya 6:2



Prana logo by Leslie Kaminoff based on photo of T. Krishnamacharya from "The Heart of Yoga"

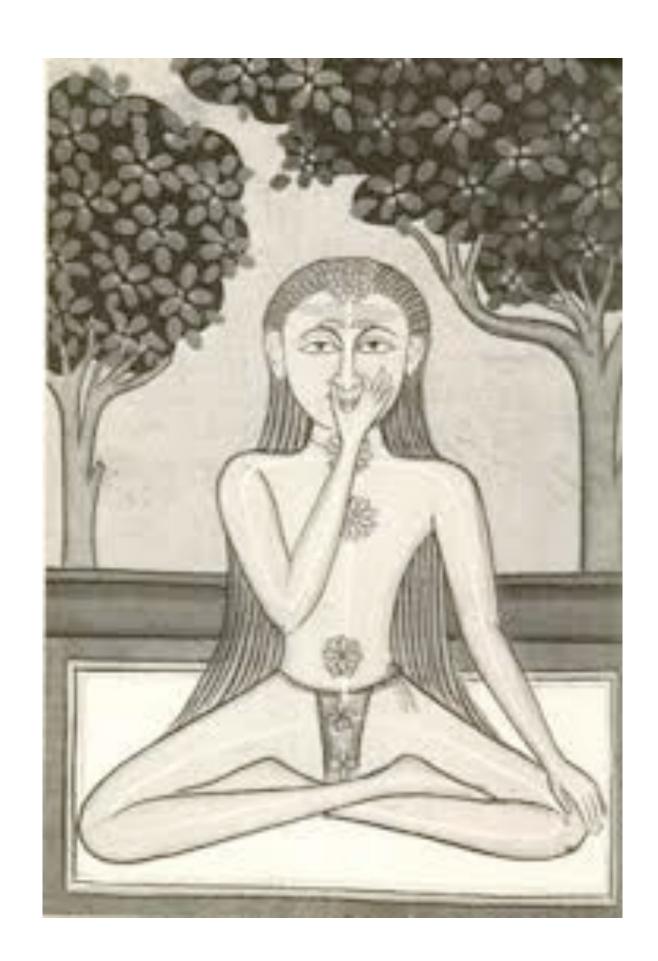


Bhagavad Gita 4:29

appox 500 - 200 BCE

apane juhvati pranam
prane 'panam tathapare
pranapana-gati ruddhva
pranayama-parayanah

...There are others who sacrifice the outgoing breath in the incoming, and the incoming in the outgoing, restraining the courses of the outgoing and the incoming breaths...

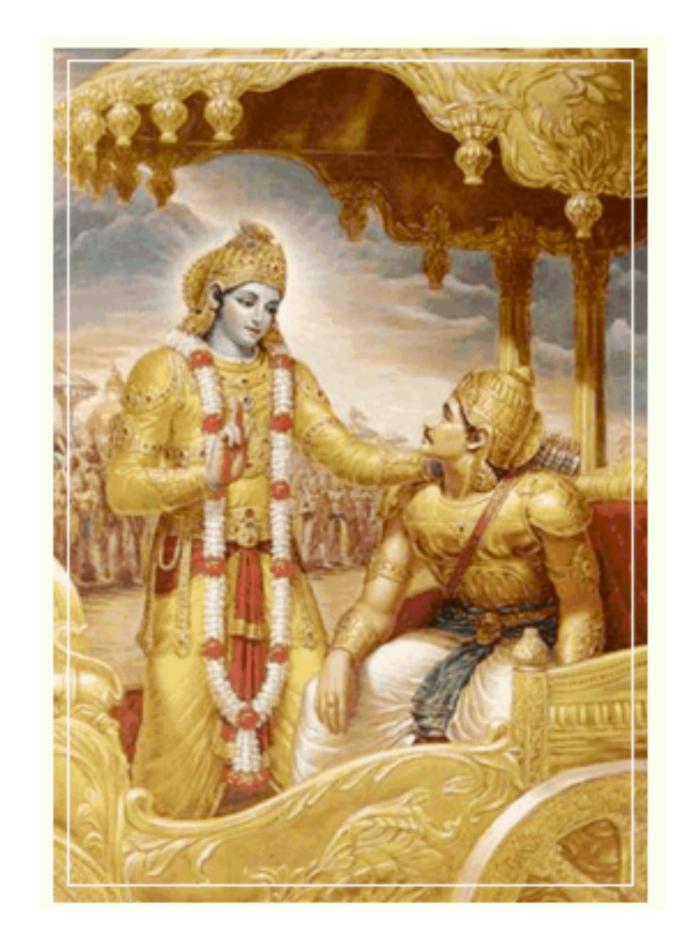


- apāne in the air which acts downward
- juhvati offer; prāṇam; sacrifice
- prāṇe in the air going outward
- apānam the air going downward
- tathā as also
- apare others
- prāṇa of the air going outward
- apāna and the air going downward
- gatī the movement
- ruddhvā checking
- prāṇa-āyāma trance induced by stopping all breathing
- parāyaṇāḥ so inclined

As the text indicates, the inhaled breath must be brought to meet with the exhaled breath. Krishnamacharya stipulates how to correctly use the thoracic, dorsal and diaphragm musculature in the work of inhalation in order to feel it as a movement descending towards the epigastric region. Likewise for exhalation, the Professor explains how to employ the abdominals with a view to instigating the sensation of an ascending movement towards the epigastric region.

Beginning from these principles, all the technology of pranayama is designed, ordered, justified, and acquires its coherence. In this perfect edifice, the bandhas naturally find their place in serving the union of the prana and apana vayus. The famous notion of kundali is similarly clarified. The coiled serpent sleeping at the entrance to the path of liberation (middle path or shushumna nadi) symbolizes the inertia of the mind troubled by ignorance (avidya).

excepted from "Teachings" by Claude Marechal

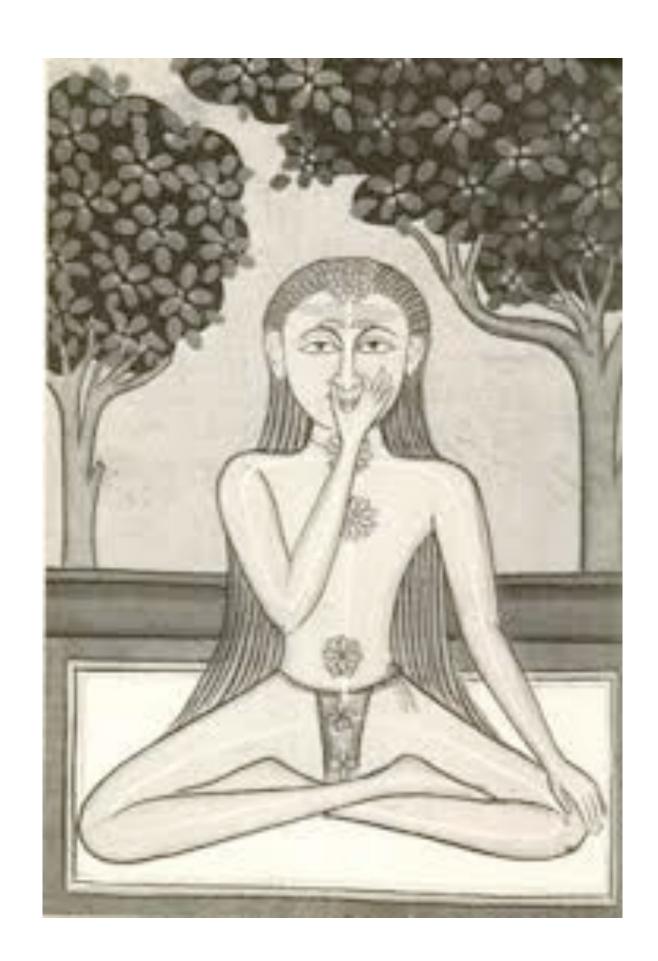


Bhagavad Gita 4:29

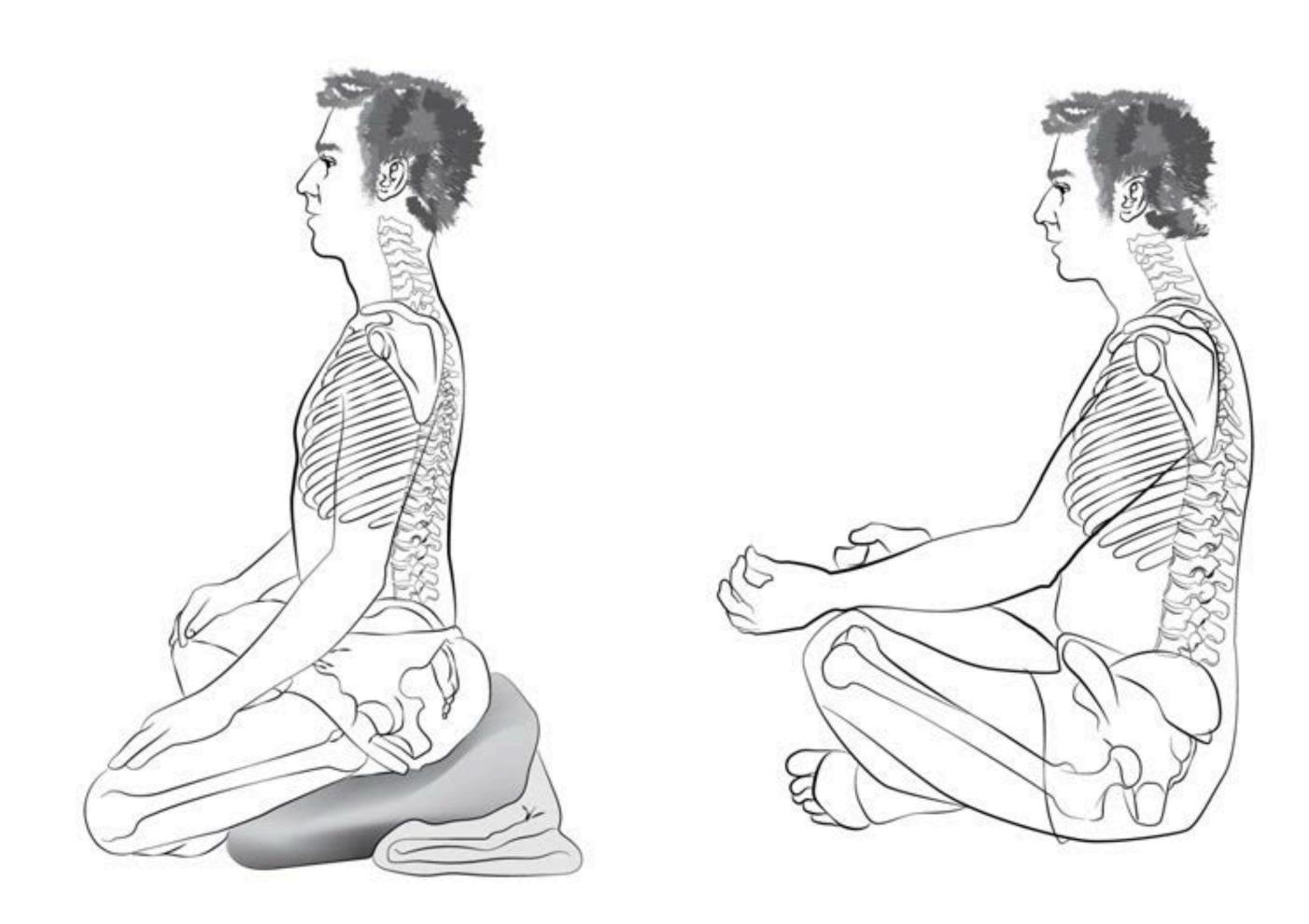
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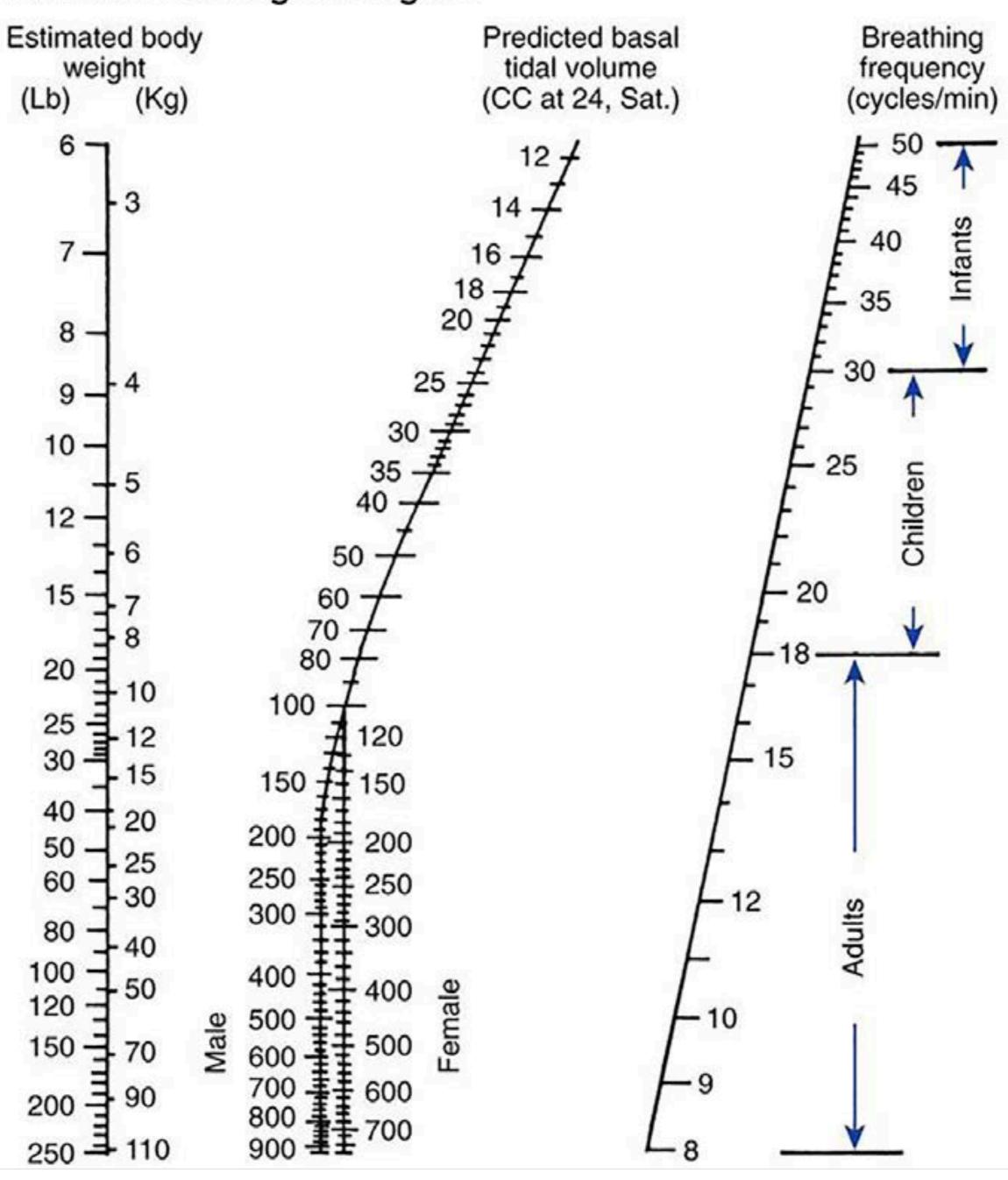
...There are others who sacrifice the outgoing breath in the incoming, and the incoming in the outgoing, restraining the courses of the outgoing and the incoming breaths...



COZ RECEPTORS IN BRAIN (medulla oblongata) and CAROTID, AORTIC BODIES AIR LEAVES V SIGNAL PHRENIC NERVE BODY V DIA PHRAGM THOPACIC P CONTRACTS V-THORACIC A THORACIC VOLUME YOLUME * K-TAORACIC | PRESSURE DIAPHRAGM RELAXES FORCED INTO BODY BY ATMOSPHERE SIMPLIFIED CHAIN OF BREATHING



Radford Breathing Nomogram

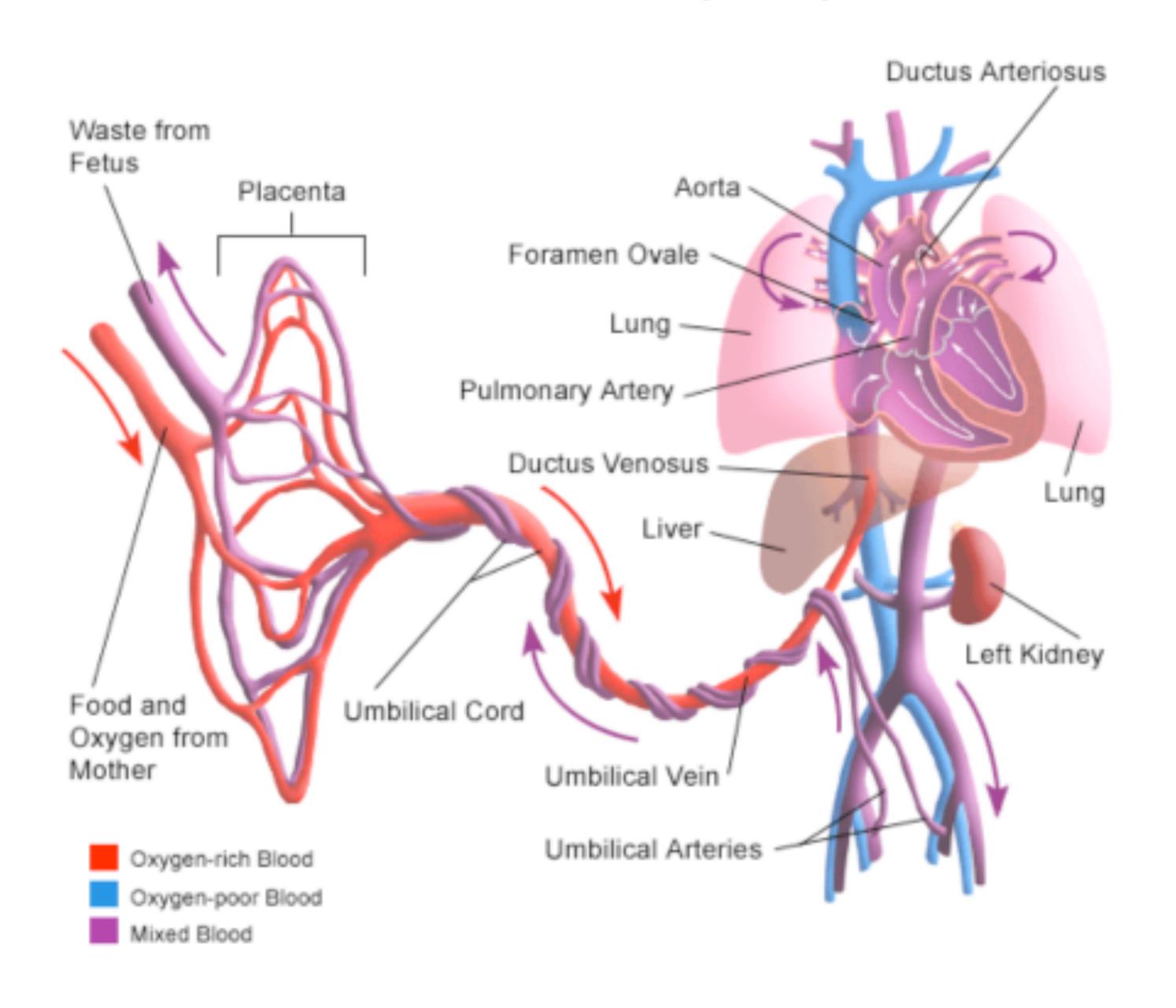


Why infants are bad breathing models

Cause	Physiological or anatomical basis
Metabolism ↑	O ₂ consumption ↑
Risk of apnoea ↑	Immaturity of control of breathing
Airway resistance ↑	
Upper airway resistance ↑	Nose breathing
	Large tongue
	Airway size ↓
	Collapsibility ↑
	Pharyngeal muscle tone ↓
	Compliance of upper airway structures ↑
Lower airway resistance ↑	Airway size ↓
	Collapsibility 1
	Airway wall compliance ↑
	Elastic recoil ↓
Lung volume ↓	Numbers of alveoli ↓
	Lack of collateral ventilation
Efficiency of respiratory muscles ↓	Efficiency of diaphragm ↓
	Rib cage compliance ↑
	Horizontal insertion at the rib cage
	Efficiency of intercostal muscles ↓
	Horizontal ribs
Endurance of respiratory muscles ↓	Respiratory rate ↑
	Fatigue-resistant type I muscle fibres ↓

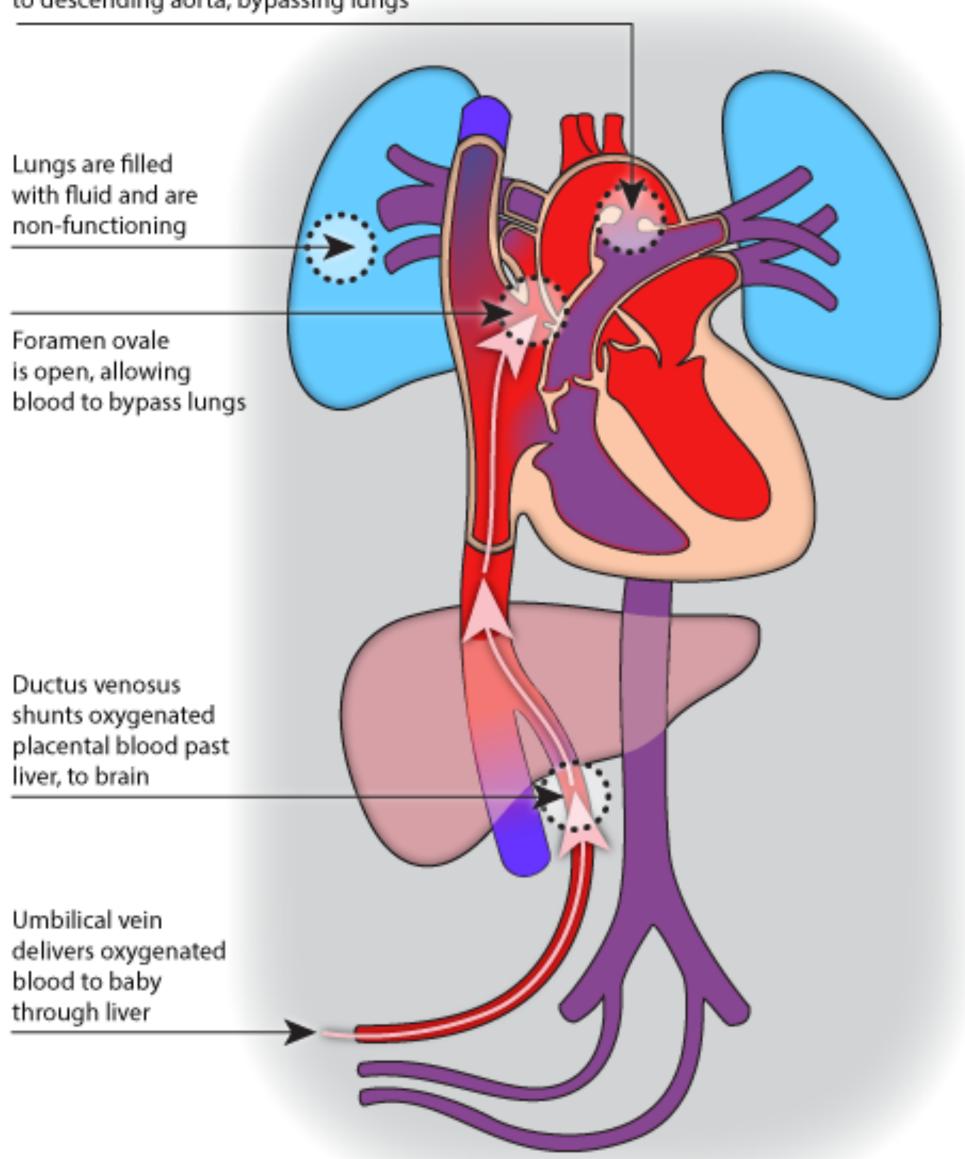
Physiological reasons for the increased susceptibility of infants for respiratory compromise in comparison to adults

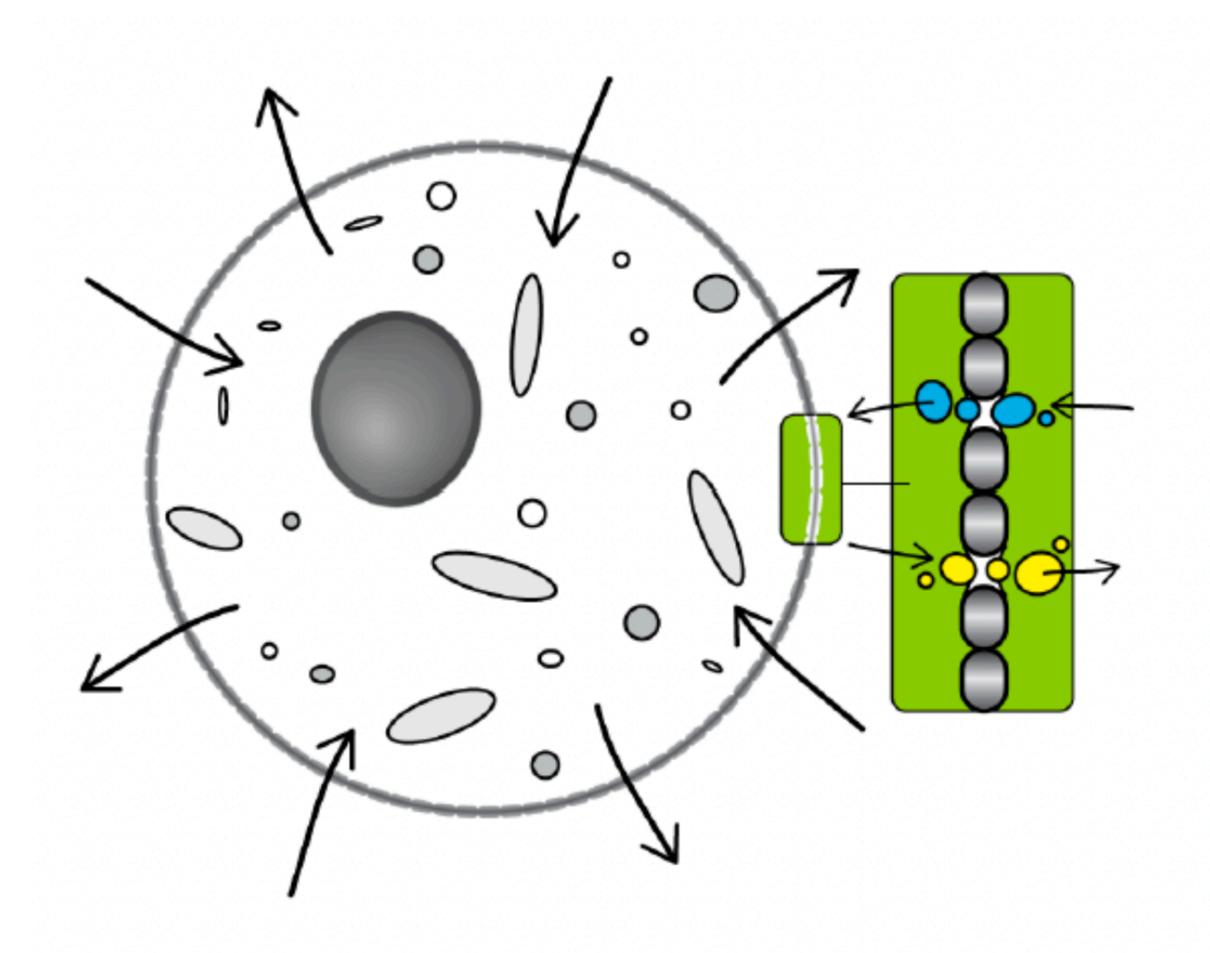
Fetal Circulation (detail)

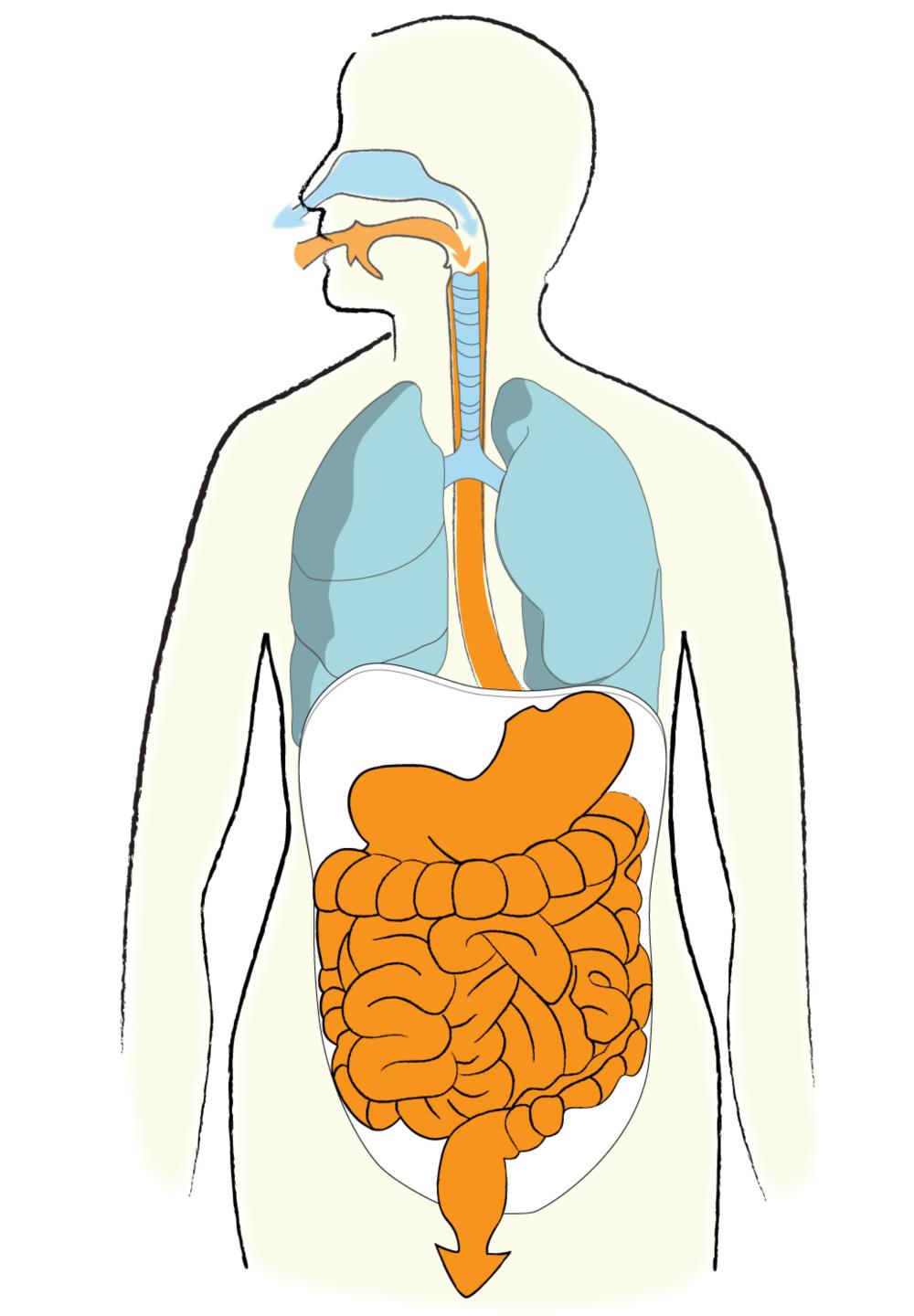


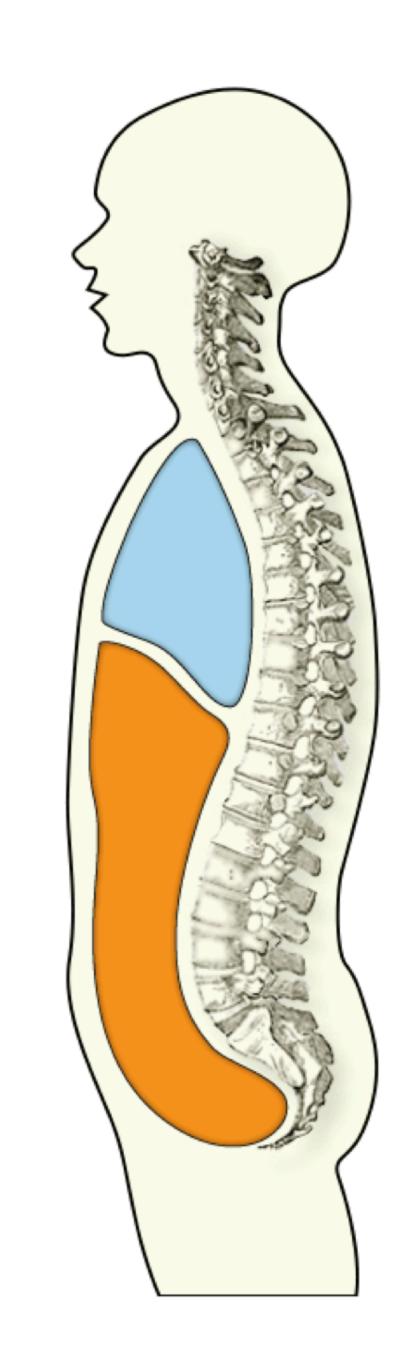
Fetal circulation

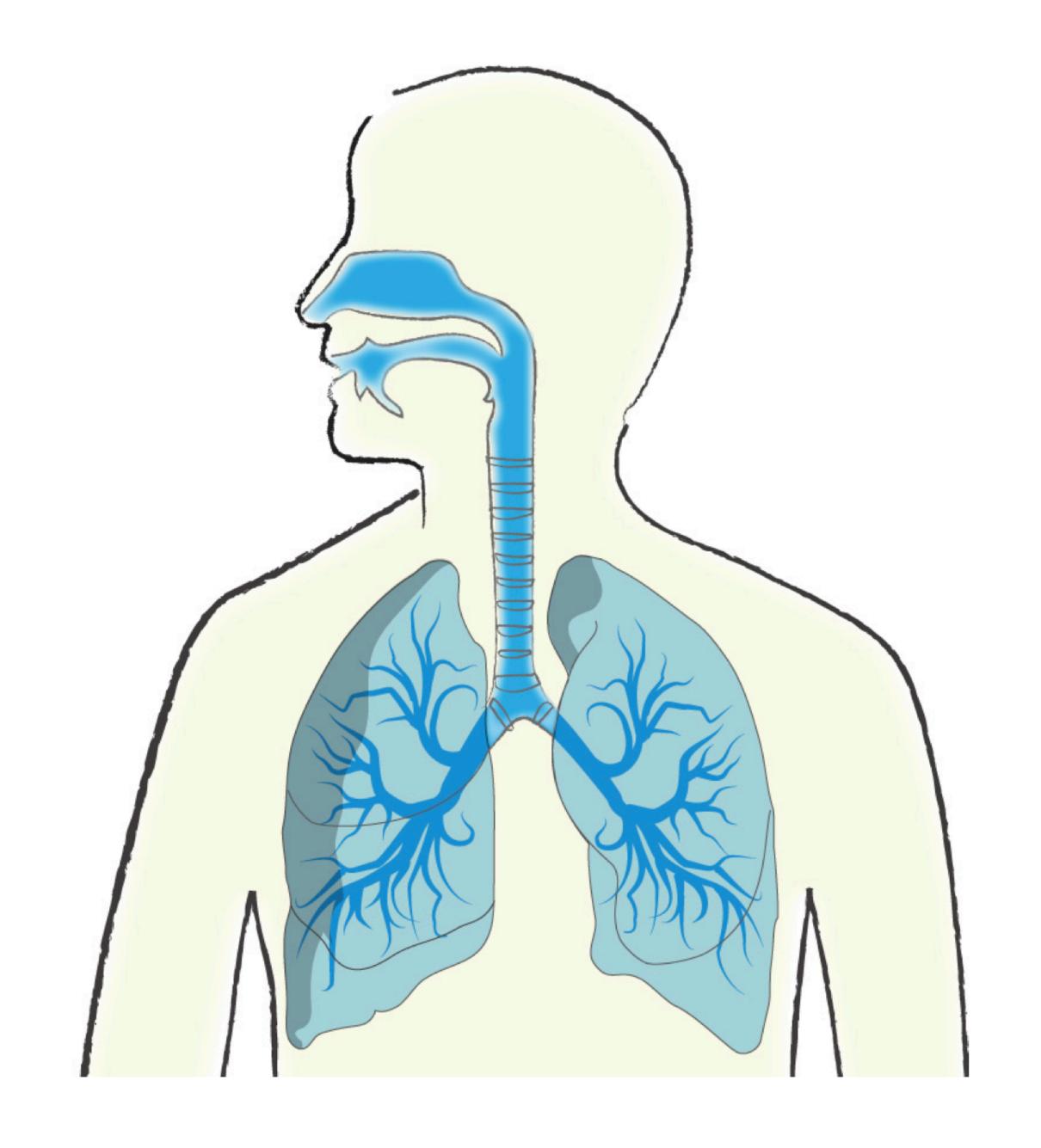
Ductus arteriosus connects pulmonary artery to descending aorta, bypassing lungs

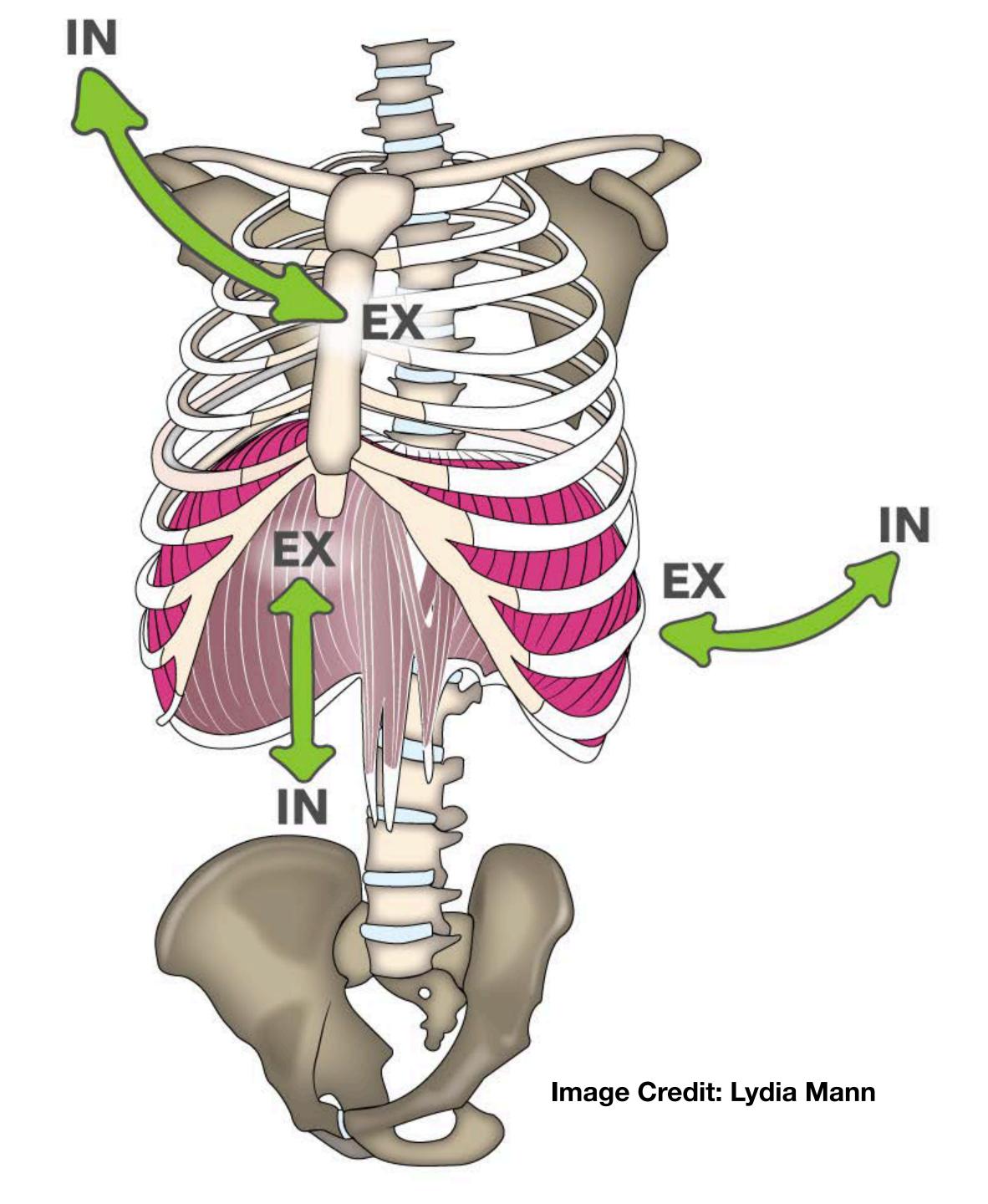


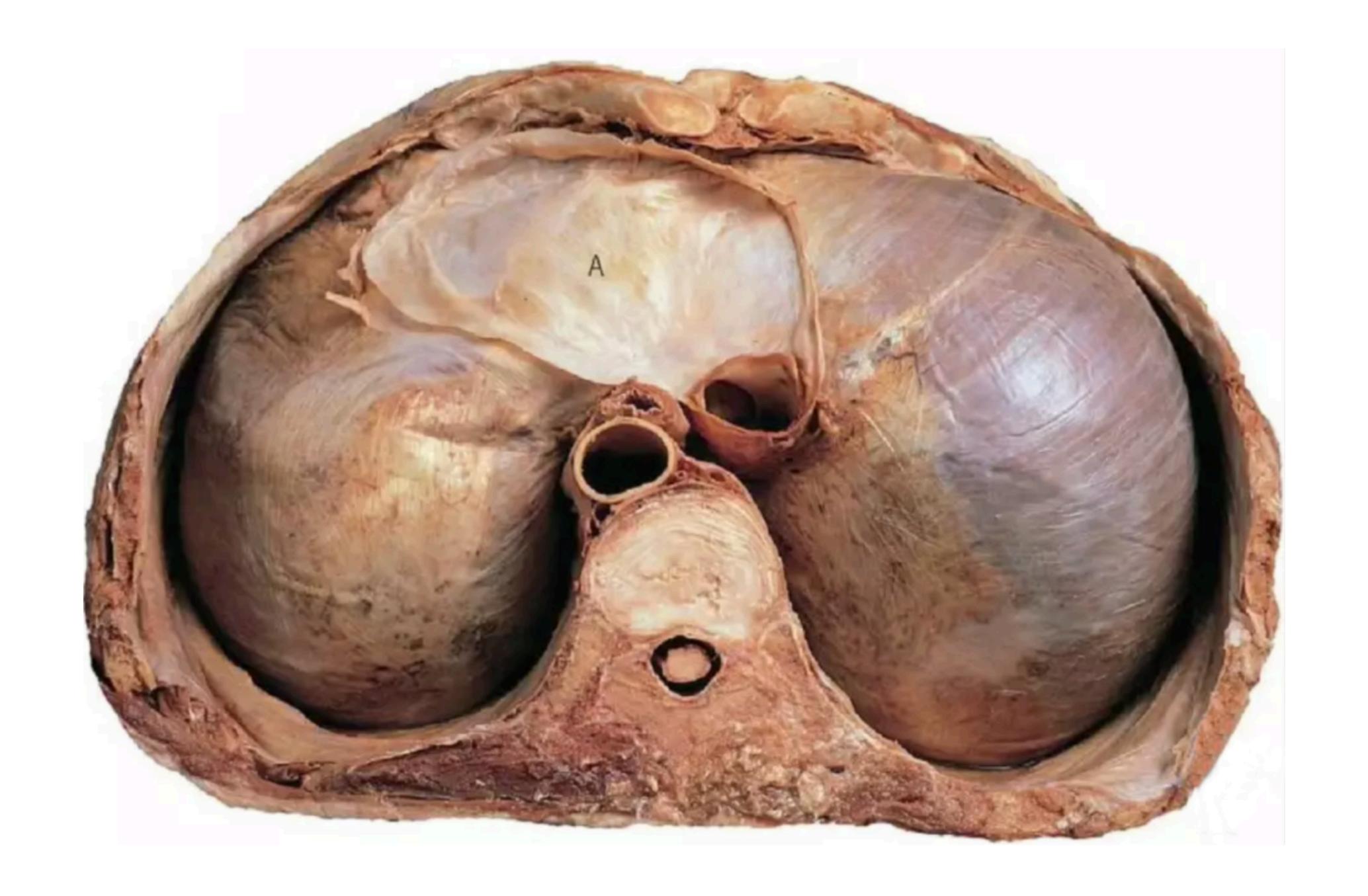


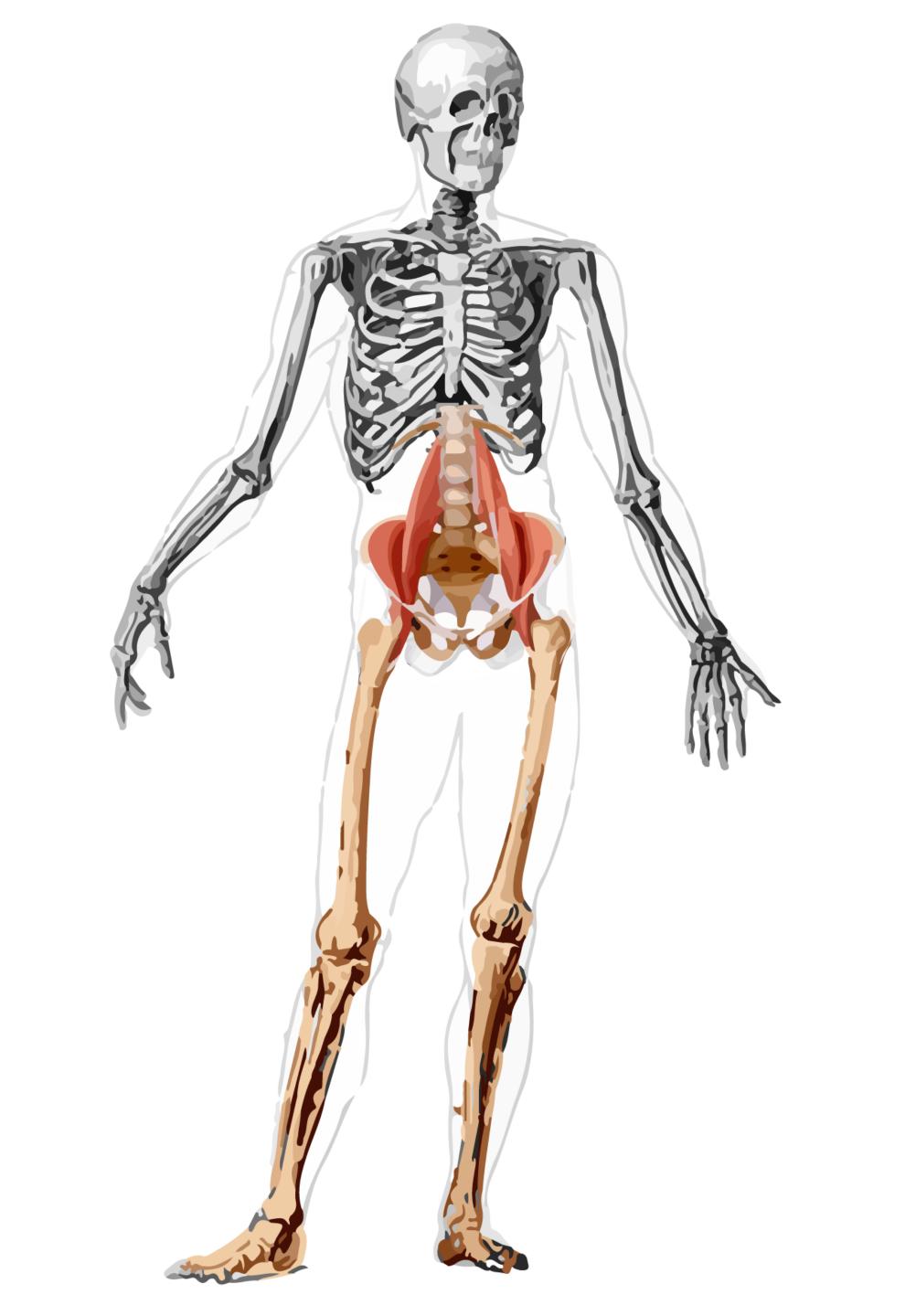


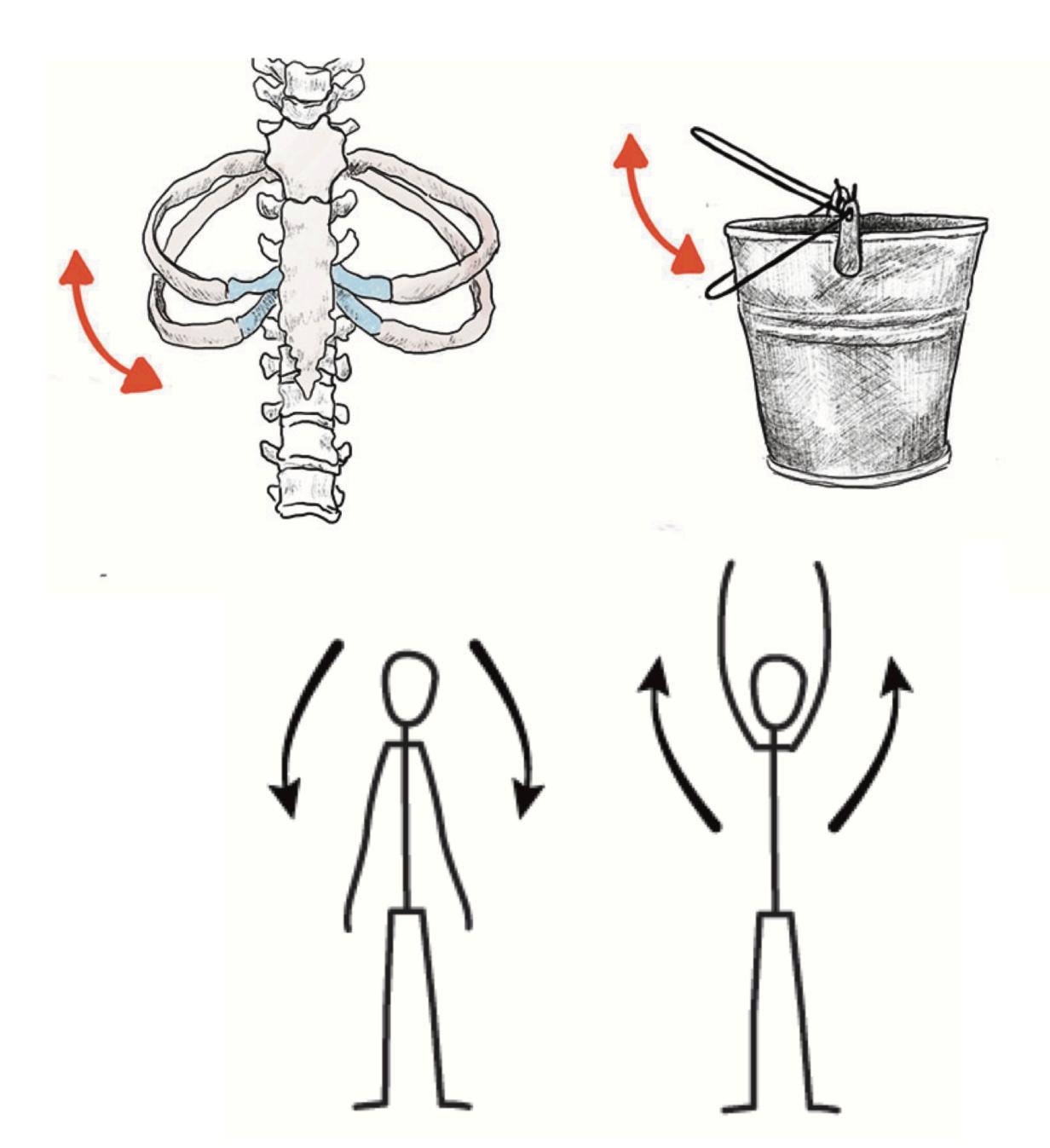


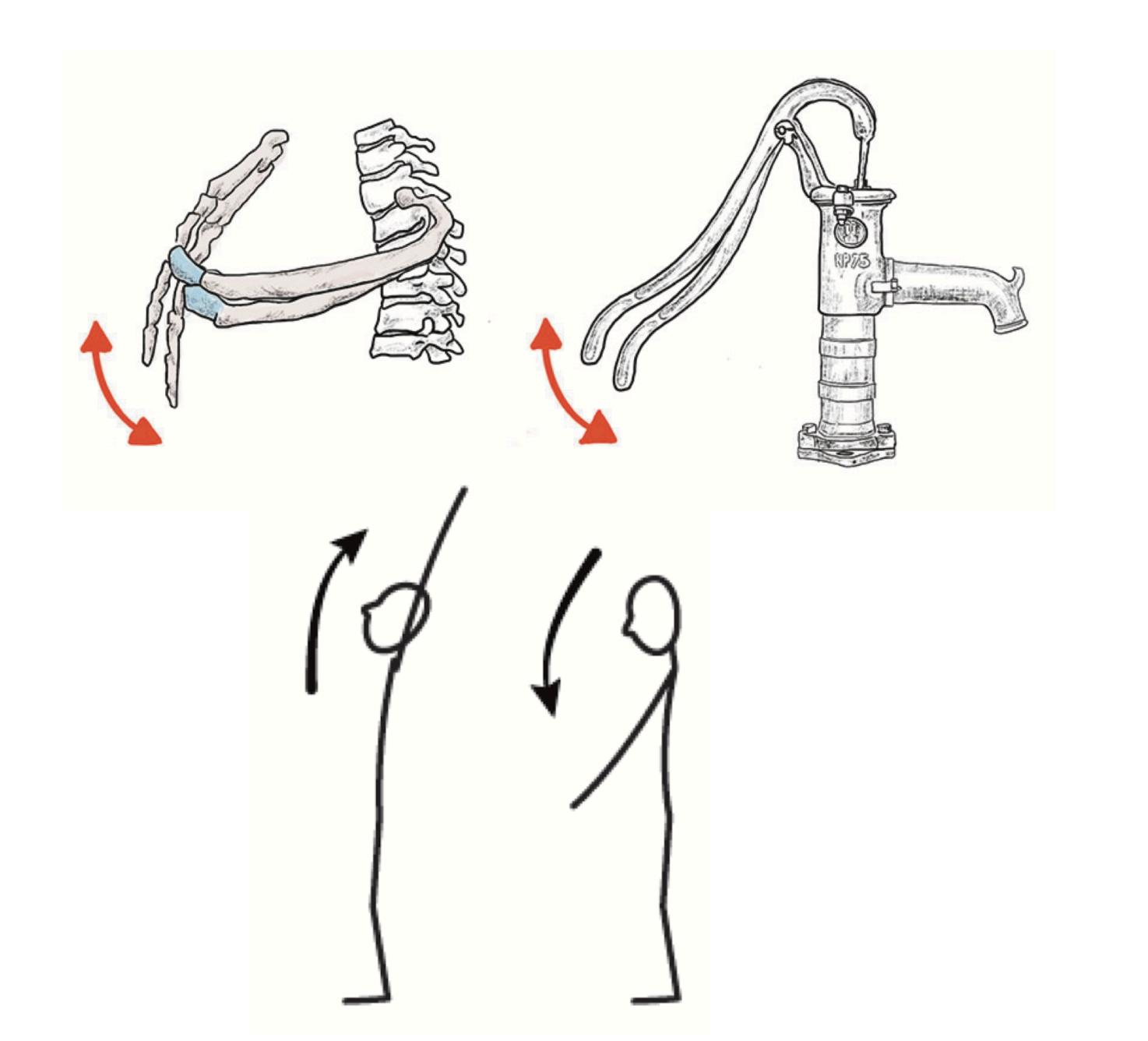


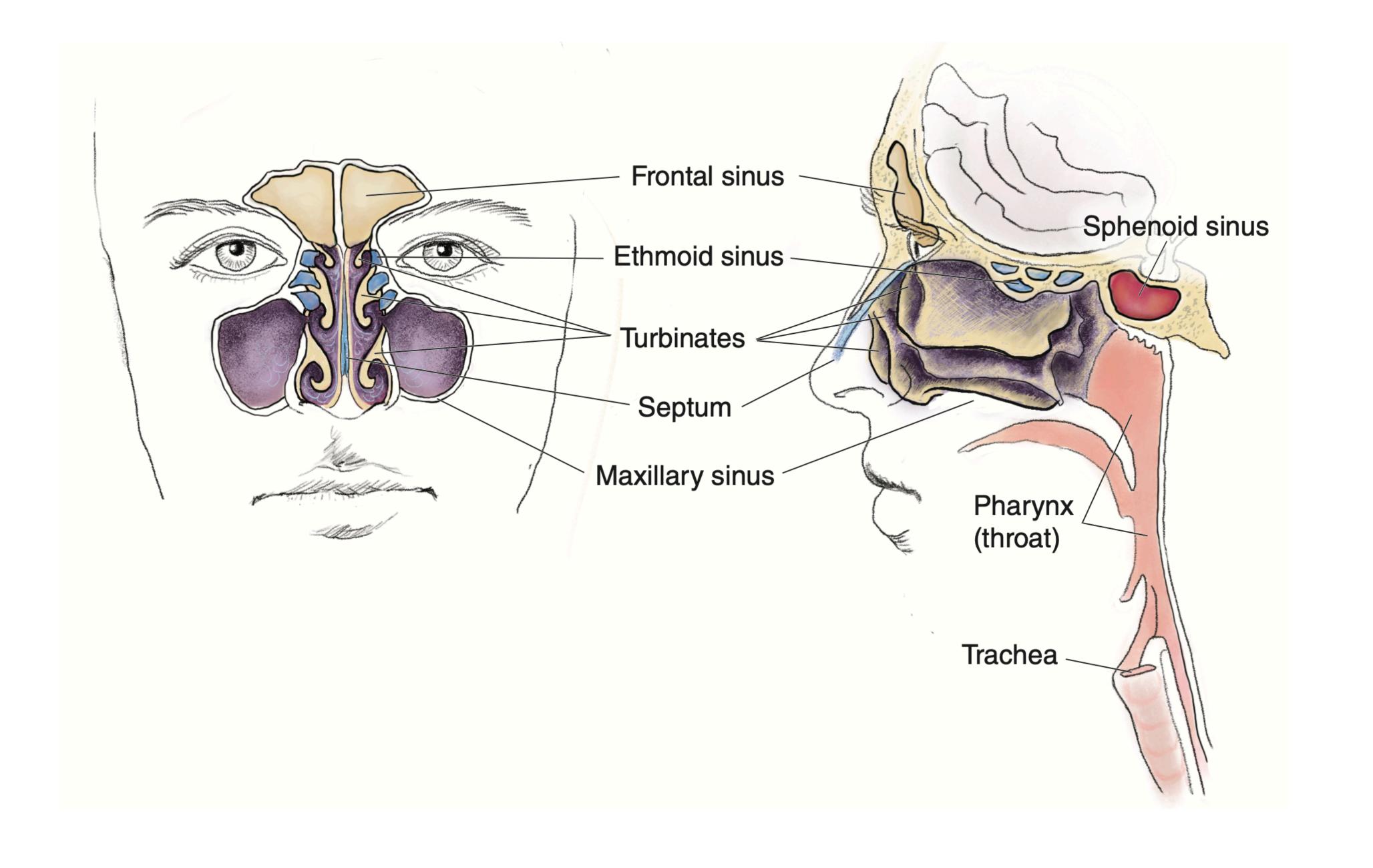


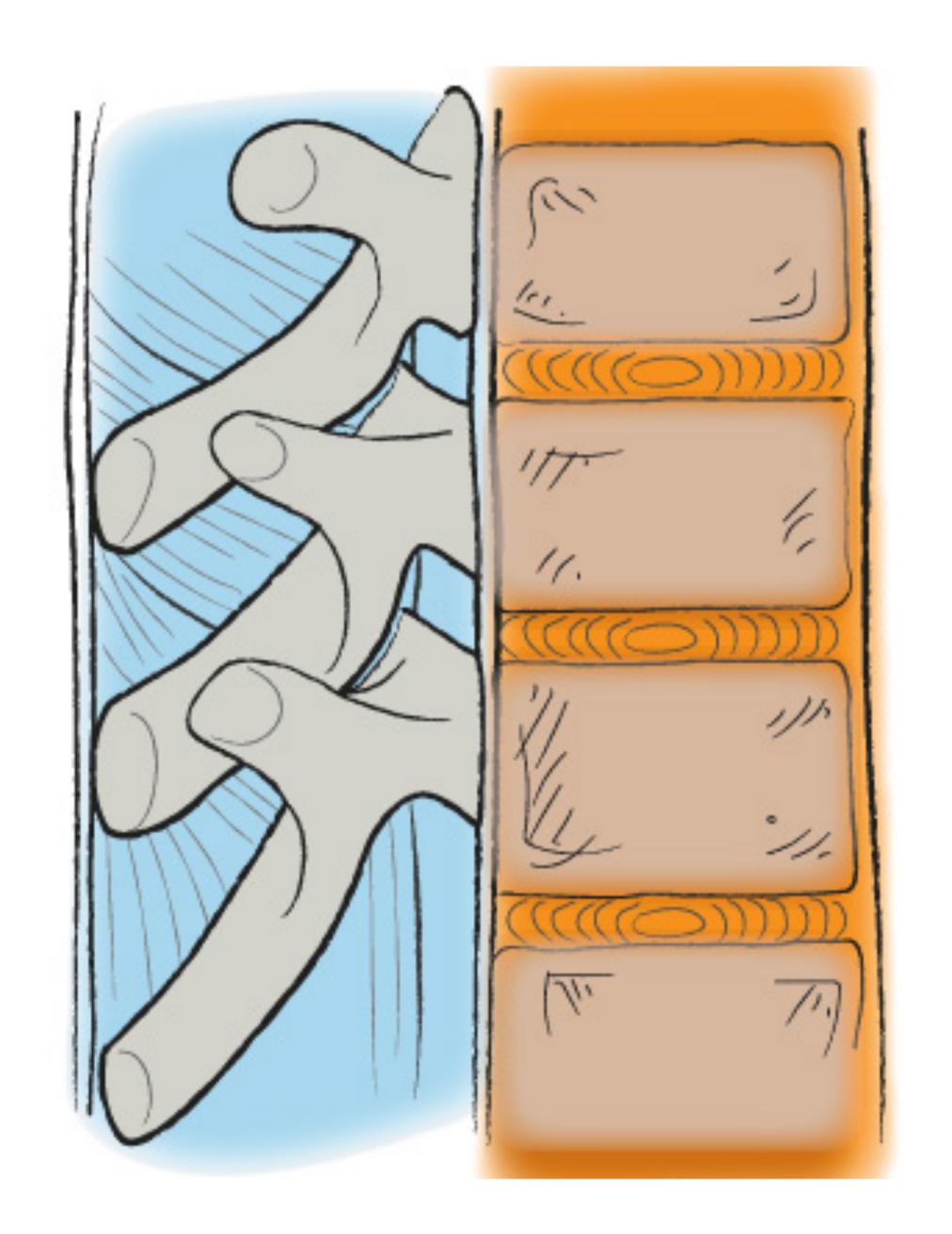












TECHNIQUE FOR BREATH RELEASE/BANDHAS (MOVEMENT BEFORE BREATH)

Dwipada Pitham exploration of all three bandhas. Breath sequence:

- Lift on exhale
- Stay lifted to inhale and feel sternum rise towards chin
- Exhale without letting sternum drop away from chin
- Roll down thru spine on external retention (bhaya kumbhaka)
- "Thermometer" breath on final inhale





