

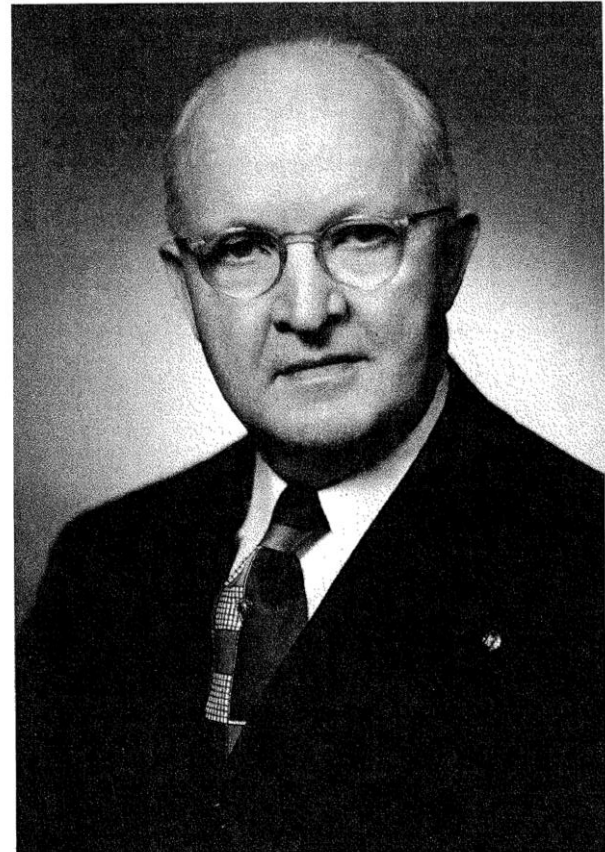
Thomas Northup Memorial Lecture 2017

“Advancing the Clinical Practice of
Osteopathic Medicine”

Kenneth Lossing DO

Thomas Northup

- One of the founders of what is now known as the AAO
- Promoted the “Practice” of OMM
- Promoted Literature about OMM



Thomas L. Northup, DO

Thomas L. Northup Lecture

- To be named a Thomas L. Northup Lecturer, an individual must reflect the stature of Dr. Northup in fields such as education, research, clinical practice, professional management or allied categories of activity.

YEAR RECIPIENT (*DENOTES DECEASED)

2016 Martin S. Levine, DO, MPH

2015 John M. Jones, DO

2014 Judith A. O'Connell, DO, MHA, FAAO (text)

2013 Hugh M. Ettlinger, DO, FAAO

2012 Jane E. Carreiro, DO

2011 Brian F. Degenhardt, DO (text)

2010 Kenneth E. Nelson, DO, FAAO, FACOFP (text)

2009 Kenneth H. Johnson, DO, FAAO (text)

2008 Karen M. Steele, DO, FAAO (text)

2007 Hollis H. King, DO, PhD, FAAO (text)

2006 Mark S. Cantieri, DO, FAAO (text)

2005 Dennis J. Dowling, DO, FAAO (text)

2004 John C. Glover, DO, FAAO (text)

2003 Boyd R. Buser, DO, FACOFP (text)

2002 Melicien A. Tettambel, DO, FAAO* (text)

2001 Ann L. Habenicht, DO, FAAO (text)

2000 Michael L. Kuchera, DO, FAAO

1999 James S. Jealous, DO

1998 Eileen L. DiGiovanna, DO, FAAO

1997 Edna M. Lay, DO, FAAO, FCA

1996 Edward G. Stiles, DO, FAAO

1995 Stephen D. Blood, DO, FAAODist, FCA

1994 Gary L. Ostrow, DO

1993 Raymond J. Hruby, DO, FAAODist

1992 William A. Kuchera, DO, FAAO

1991 Robert E. Kappler, DO, FAAODist, FCA

1990 J. Scott Heatherington, DO*

1989 Philip E. Greenman, DO, FAAODist*

1988 John H. Harakal, DO, FAAO*

1987 Robert C. Fulford, DO*

1986 Anthony G. Chila, DO, FAAODist, FCA

1985 Robert W. England, DO, FAAO*

1984 David Heilig, DO, FAAO*

1983 John P. Goodridge, DO, FAAO

1982 Alan R. Becker, DO, FAAO*

1981 David A. Patriquin, DO, FAAO

1980 Harold A. Blood, DO, FAAO*

1979 Harold I. Magoun, Jr., DO, FAAO*

1978 Russell M. Wright, DO*

1977 Viola M. Frymann, DO, FAAODist, FCA*

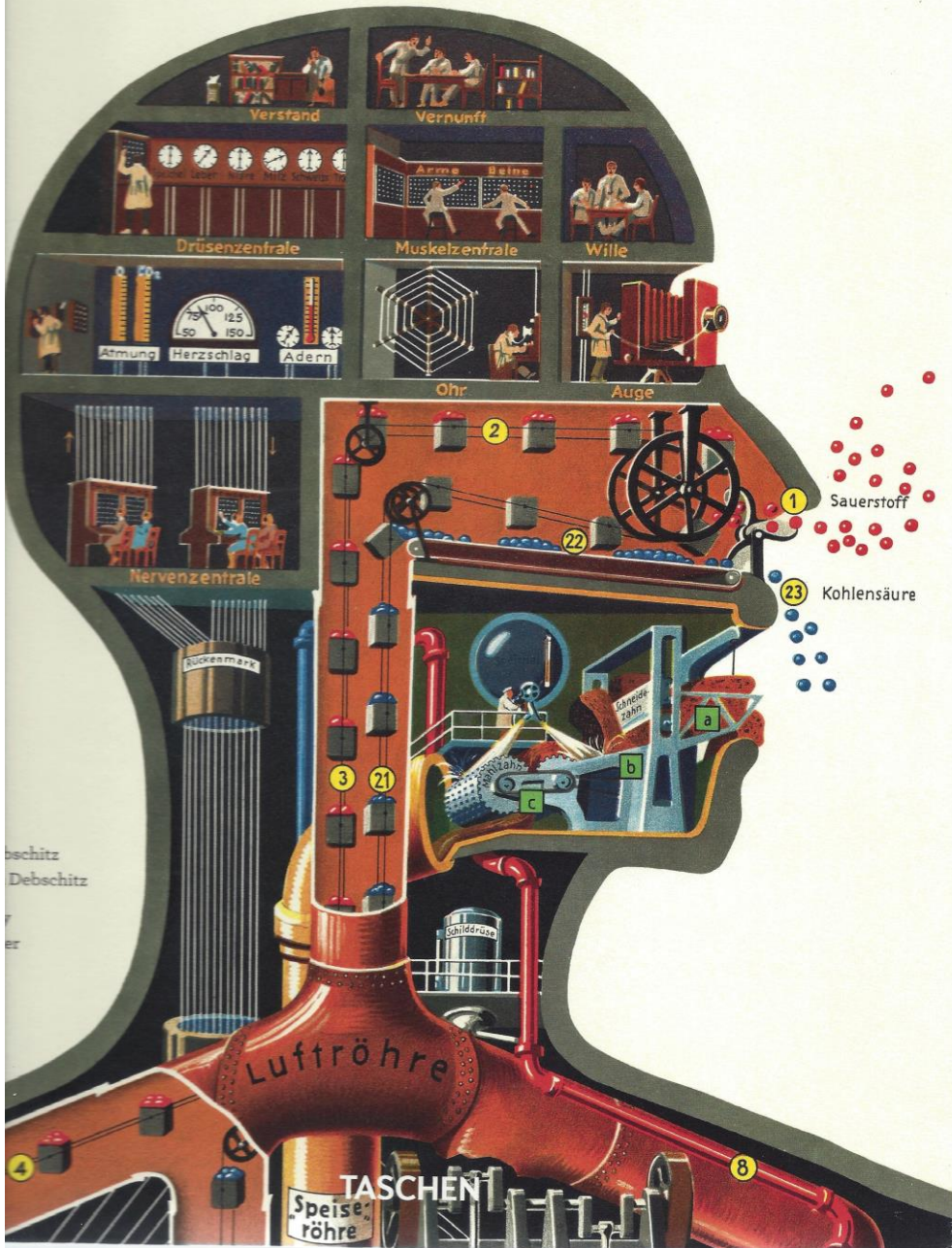
1976 J. Marshall Hoag, DO, FAAO*

1975 Catherine K. Carlton, DO, FAAO*

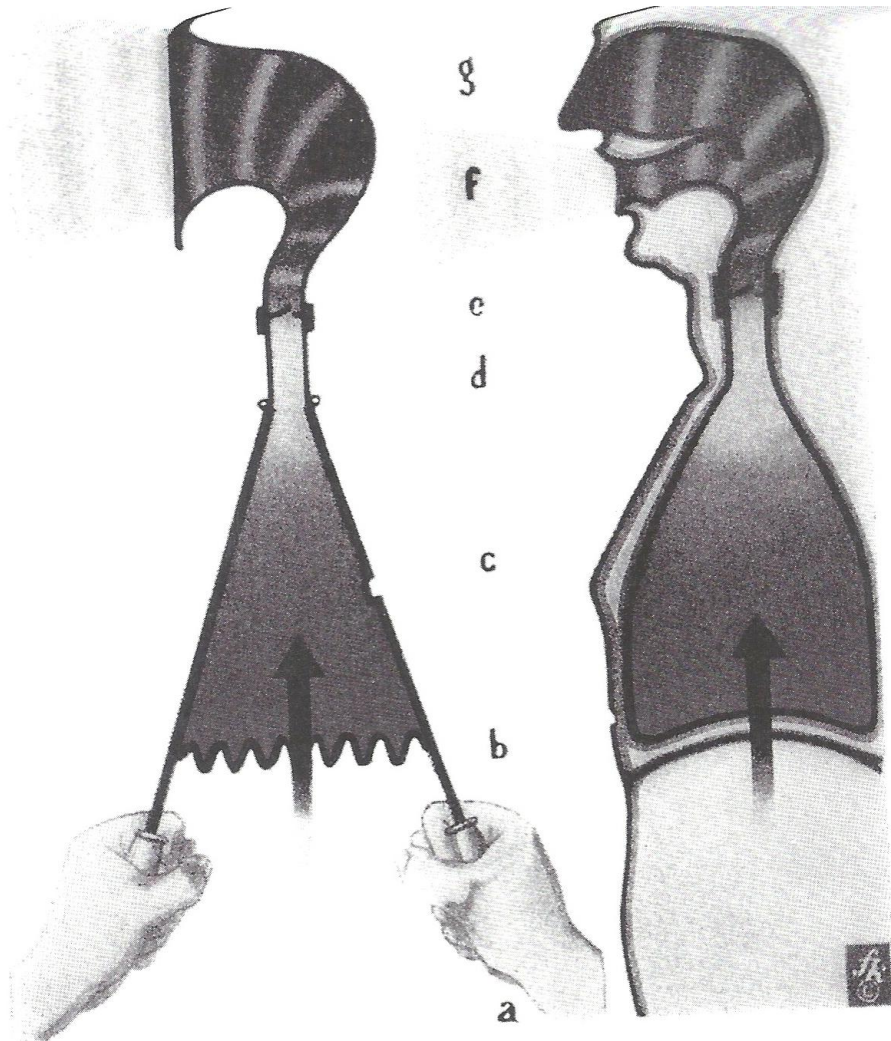
1974 R. McFarlene Tilley, DO*

Man as Machine

- If we look at man as a machine, with seeing, hearing, thinking, breathing, digestion, muscular movement, fluid circulation and fluctuation, neurological coordination, we begin to see the diversity of a human life.



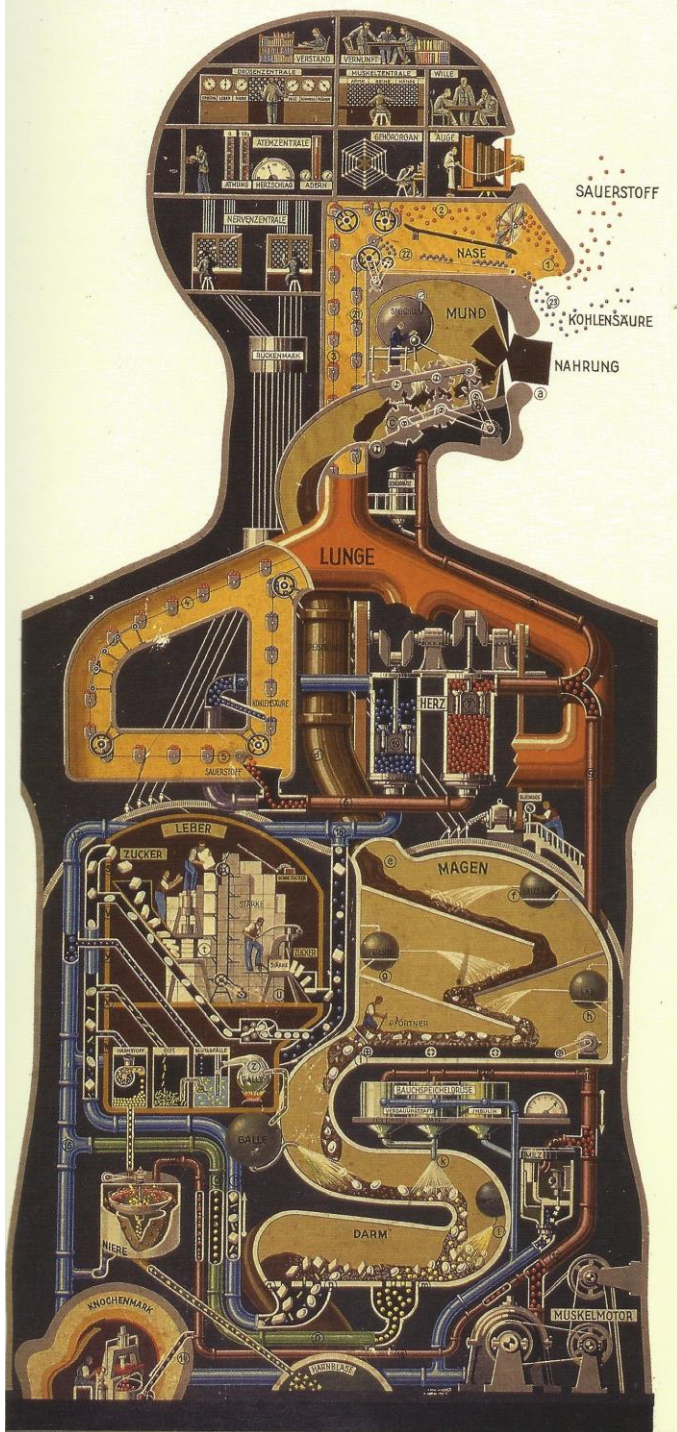
Breathing



Breathing , with motion of the chest wall, lungs, heart, abdominal organs and respiratory diaphragm, in some ways resembles a bellows. With a full breath, we should be able to open the bellows all the way. If not, the breath volume is not a full volume.

Oxygen and CO₂

- We breathe in fresh air with oxygen, the oxygen goes to our lungs, then to the blood. The left heart pumps the oxygenated blood. The blood circulates to all our cells, bringing the oxygen to combust, producing CO₂. After combustion the CO₂ is carried away by the venous blood, to the lungs, to be expelled. As you read this page, you breathe. Some of the inhaled air provides oxygen for your eyes to see and read, some for the brain to think.



Man in 1917



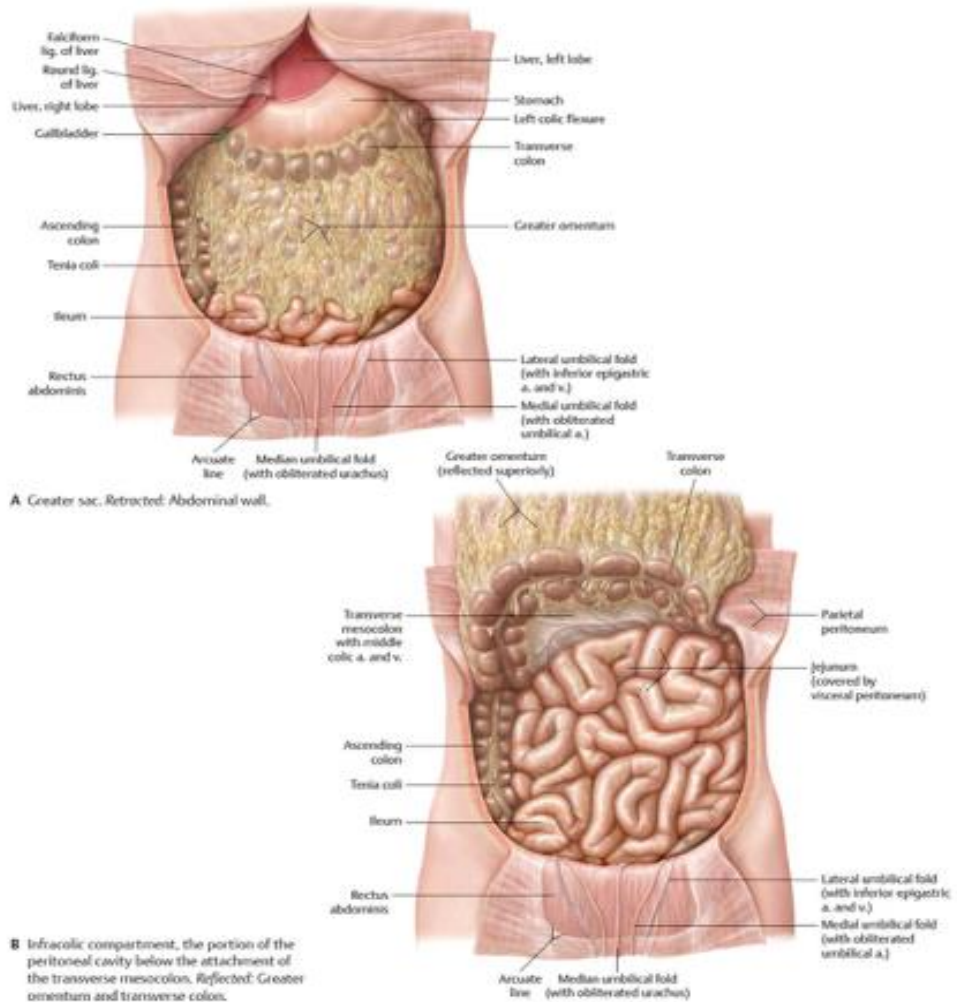
Man in 2017



Clinical changes/ new diagnosis

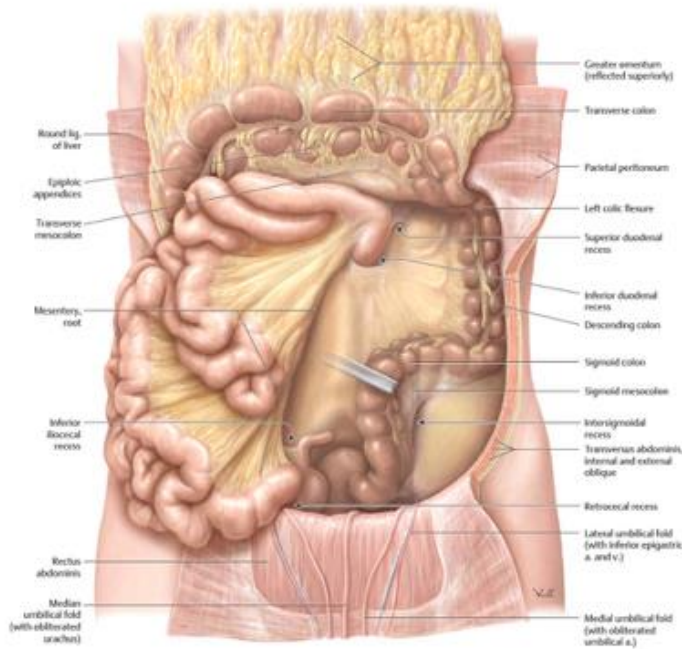
- HIV/AIDS
- Lyme's disease
- SIBO
- Zika virus
- Avian Influenza

Small Intestine Bacterial Overgrowth

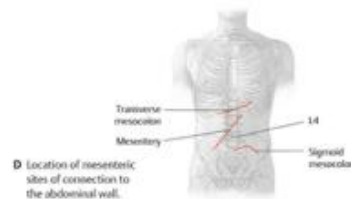


Root of the Mesentery

- IN SIBO, the root of the mesentery is very fixed inferiorly, often pulled toward the sacrum.

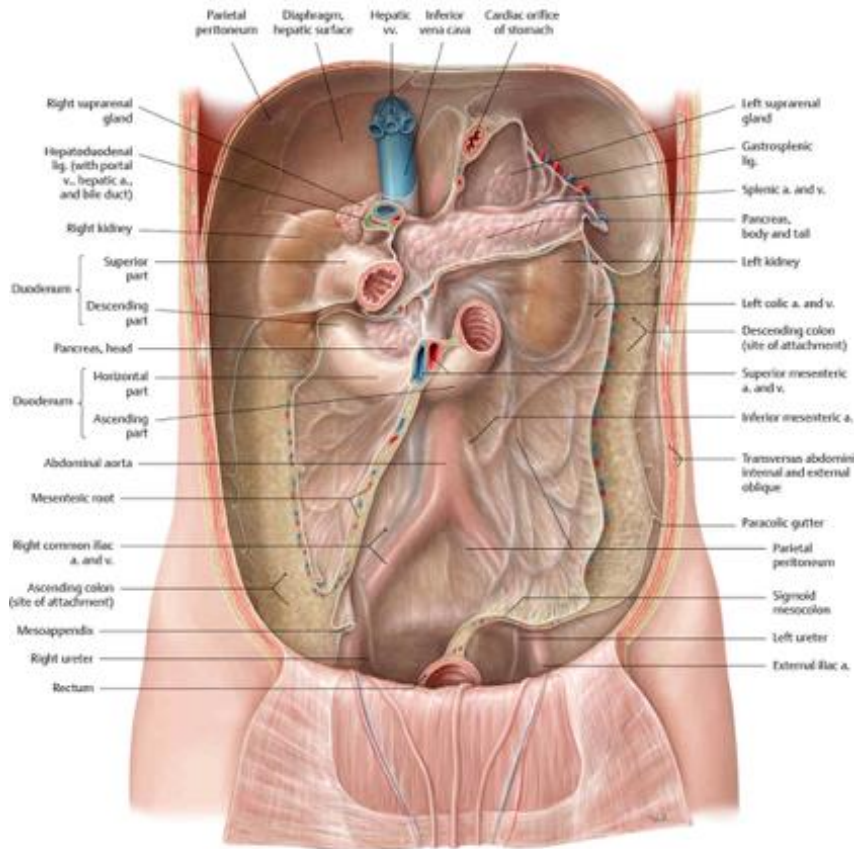


C Mesenteries and mesenteric recesses in the infracolic compartment. Reflected: Greater omentum, transverse colon, small intestines, and sigmoid colon.



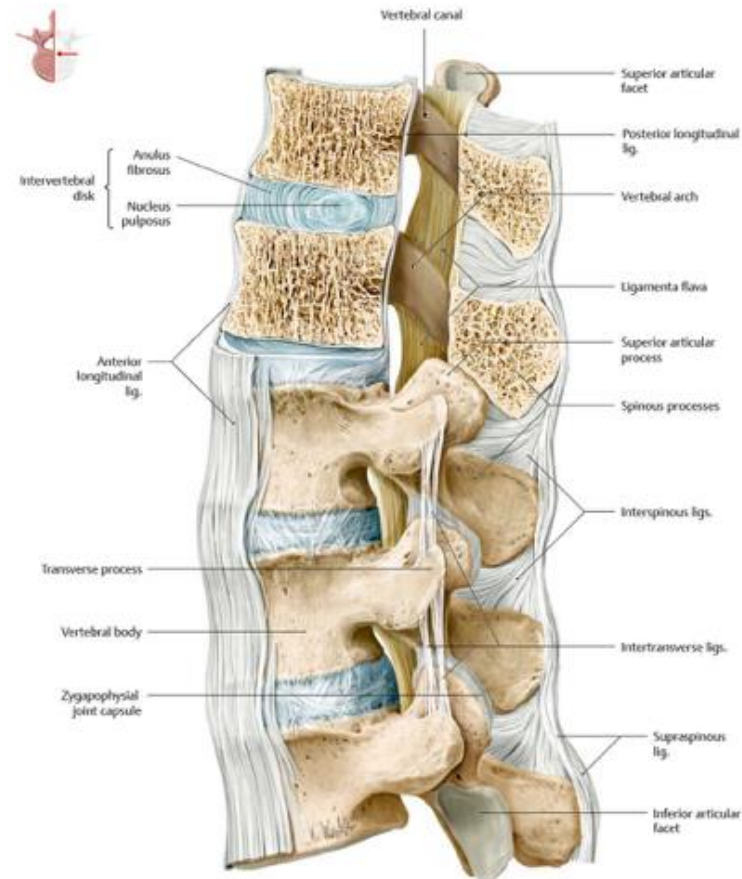
D Location of mesenteric sites of connection to the abdominal wall.

Superior Mesenteric Artery and Vein

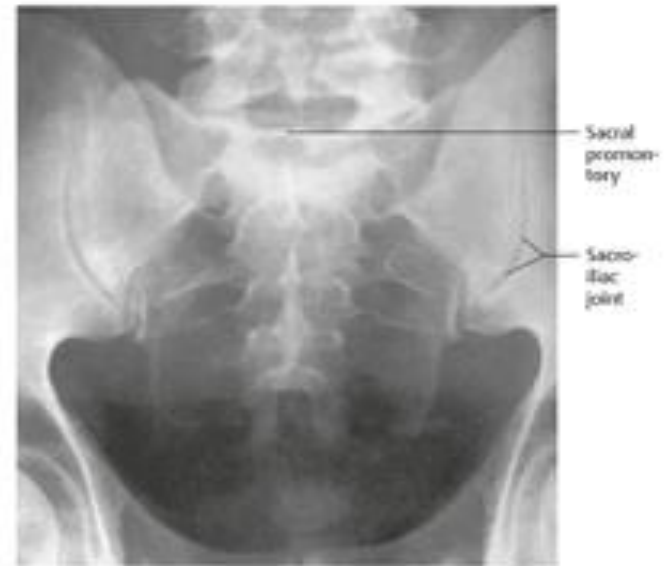
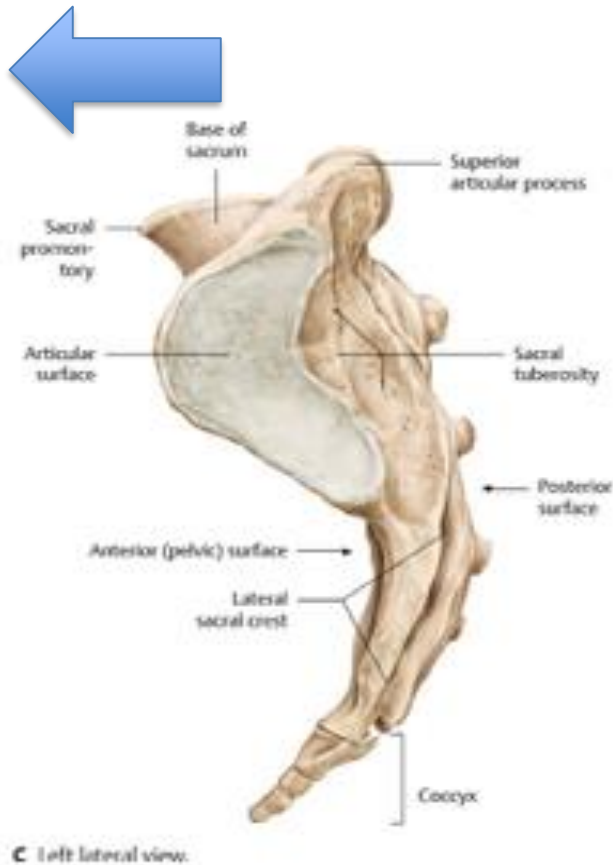


- The superior mesenteric artery, vein, lymphatics of the small intestine, and superior mesenteric nerves all go through this root.

Behind the Peritoneum/Anterior Longitudinal ligament



Sutherland's Sacral Sag/Anterior Sacral base

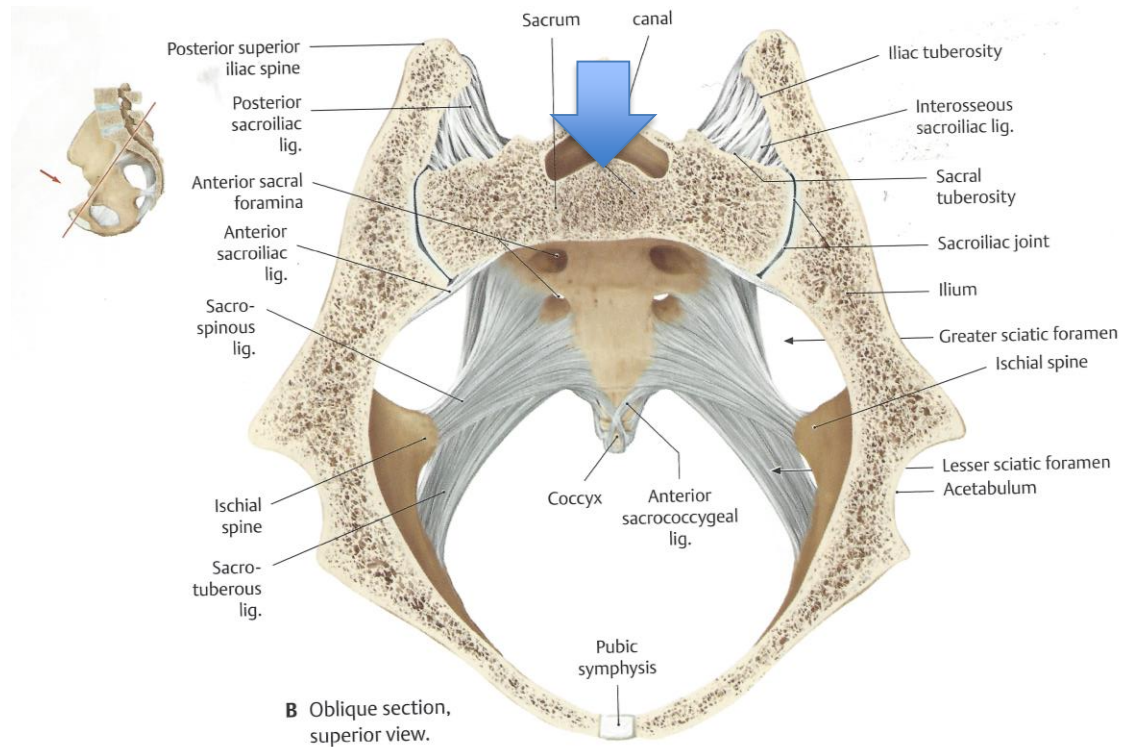


D Radiograph of sacrum, anteroposterior view.

Increased LumboSacral Angle

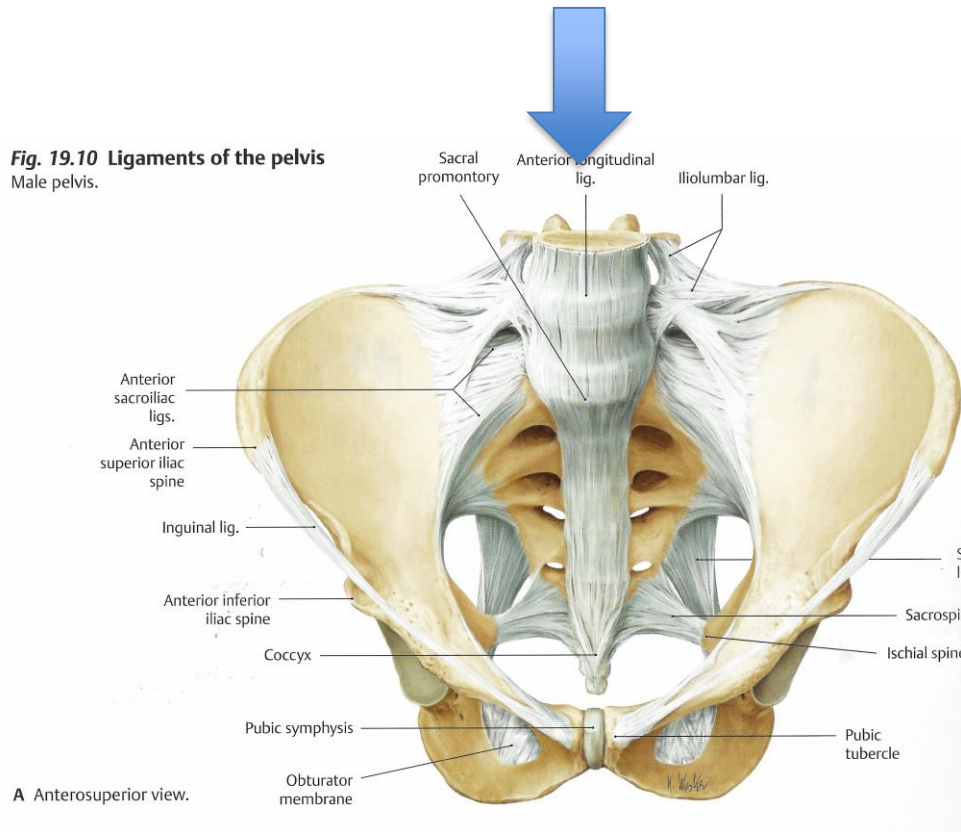
Called a flexion lesion of the sacrum in "An Analysis of the Osteopathic Lesion", McCole, 1936

Effect on Anterior and Posterior SI Ligaments

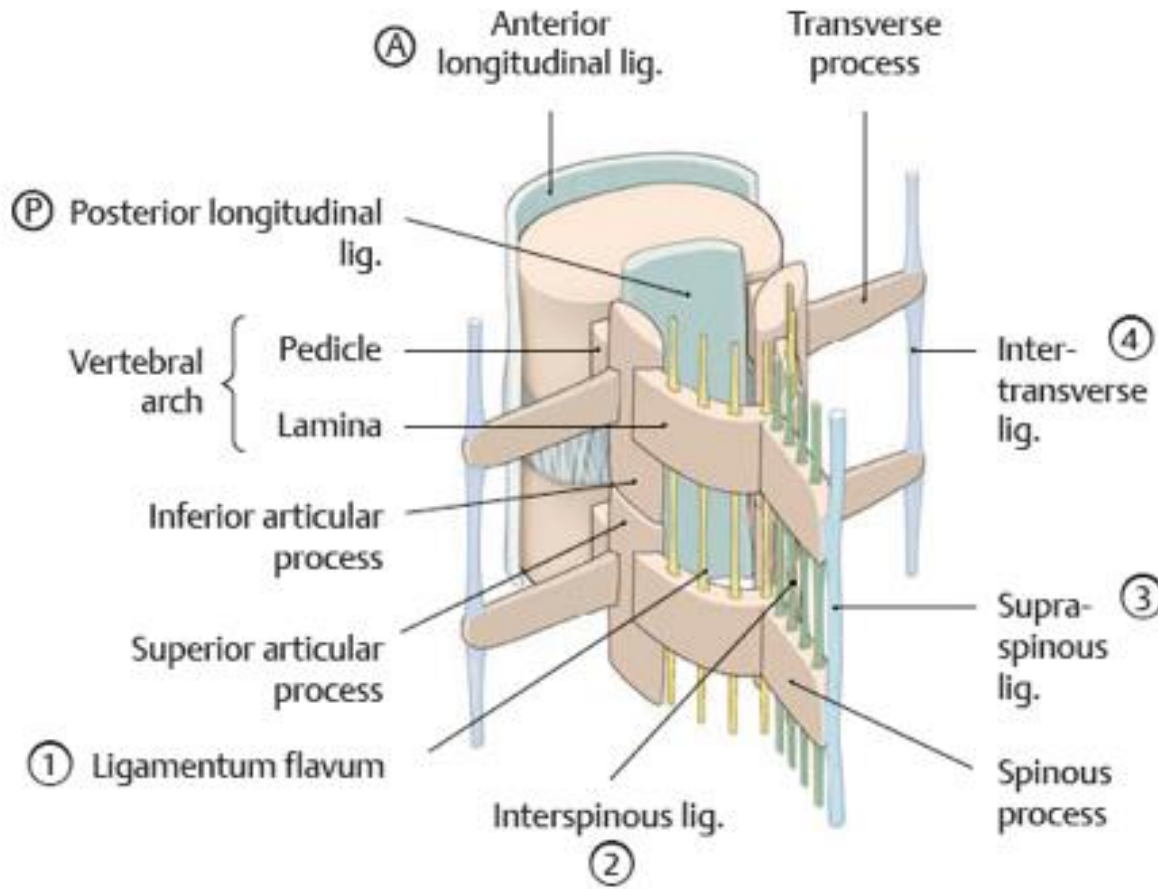


Effect on Anterior Longitudinal Ligament

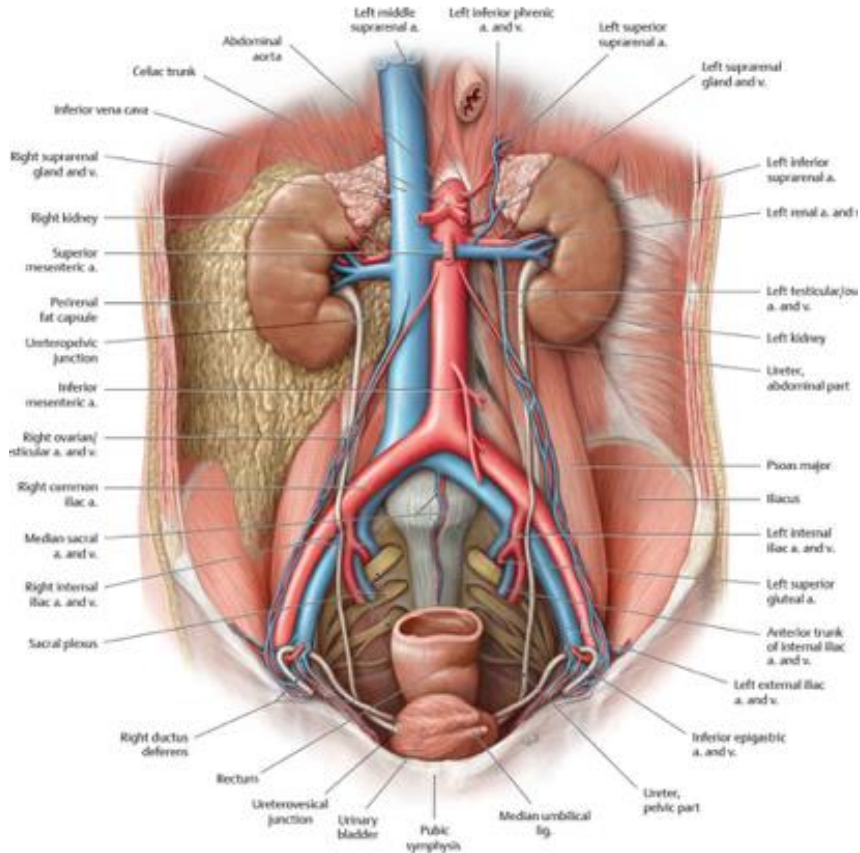
Fig. 19.10 Ligaments of the pelvis
Male pelvis.



Spinal Ligaments



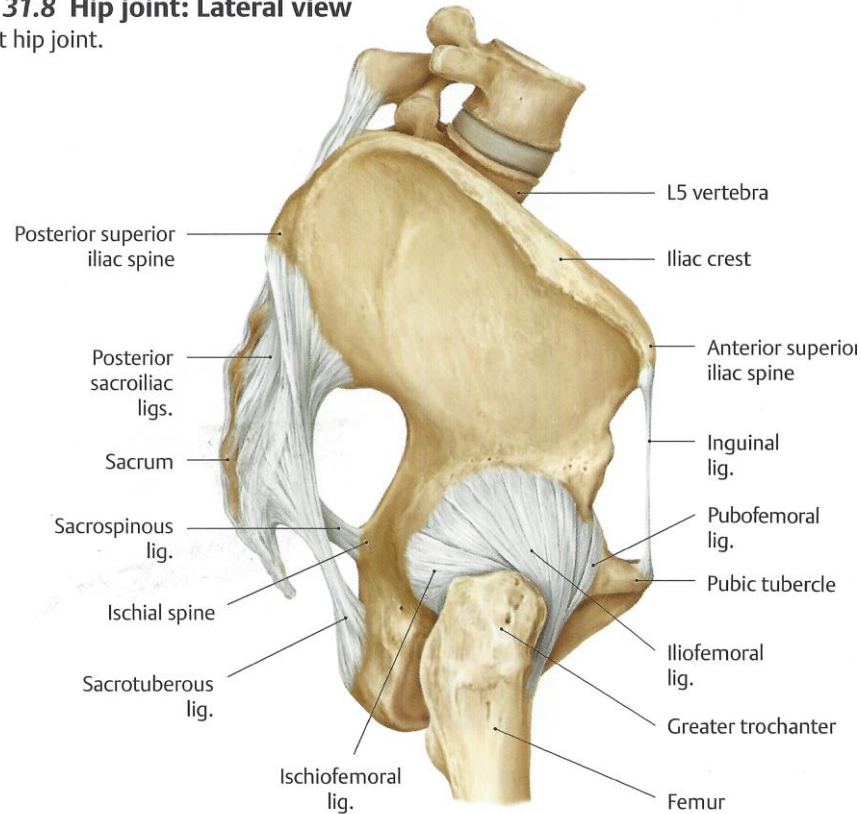
Visceral Ptosis



- Kidneys- pulls on renal artery and vein
- Tight Psoas and iliacus
- Bladder
- Prostate/cervix
- Rectum
- Clinical implications: UTI's, stress incontinence, pelvic pain, constipation, hip pain, low back pain, hip pain, SIBO

The Hip Capsule

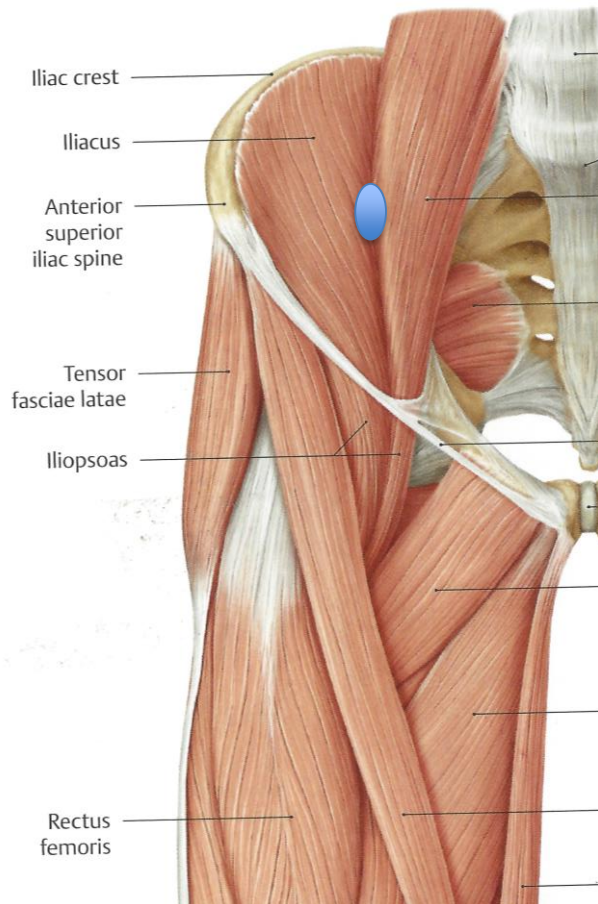
Fig. 31.8 Hip joint: Lateral view
Right hip joint.



A Ligaments of the hip joint.

Joint —
capsule

The Hip



- Medial to the femoral artery is the Psoas tendon, lateral to the artery is the iliacus tendon
- Location for palpating Anterior SI ligaments

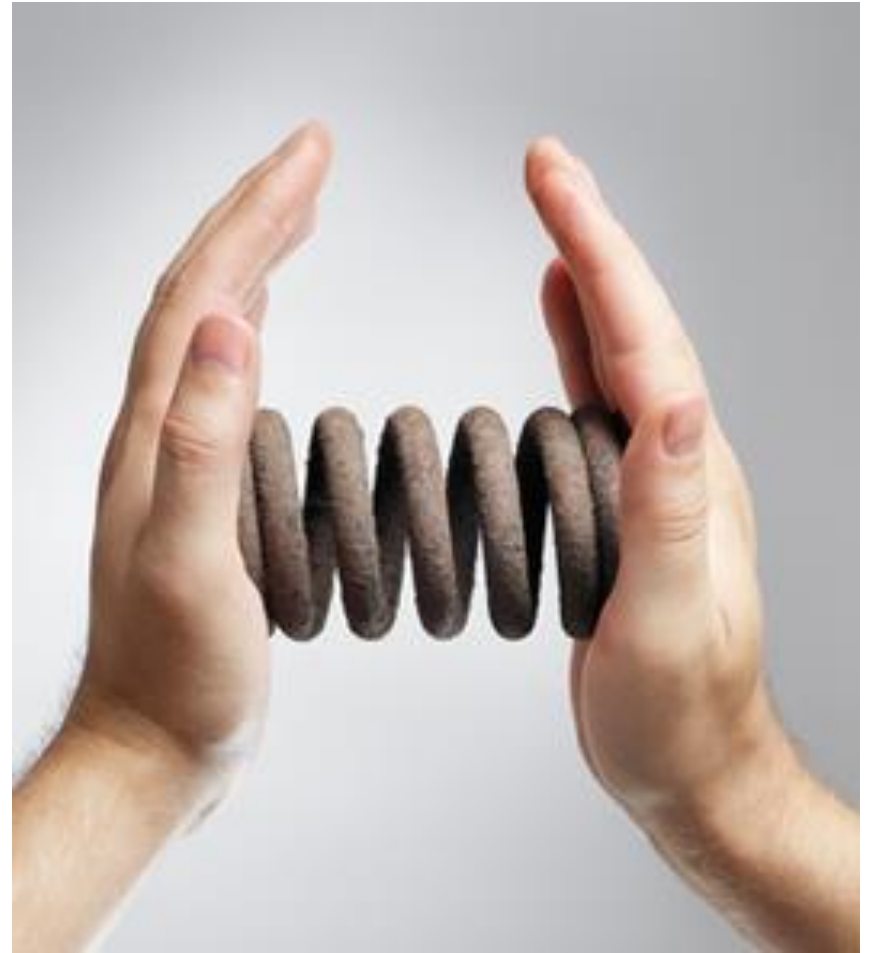
The Spine, According to the current Osteopathic books



- Somatic Dysfunction:
- Type 1
- Type 2
- Atypicals: C1,C2, sacrum

What about Forces?

- Compression



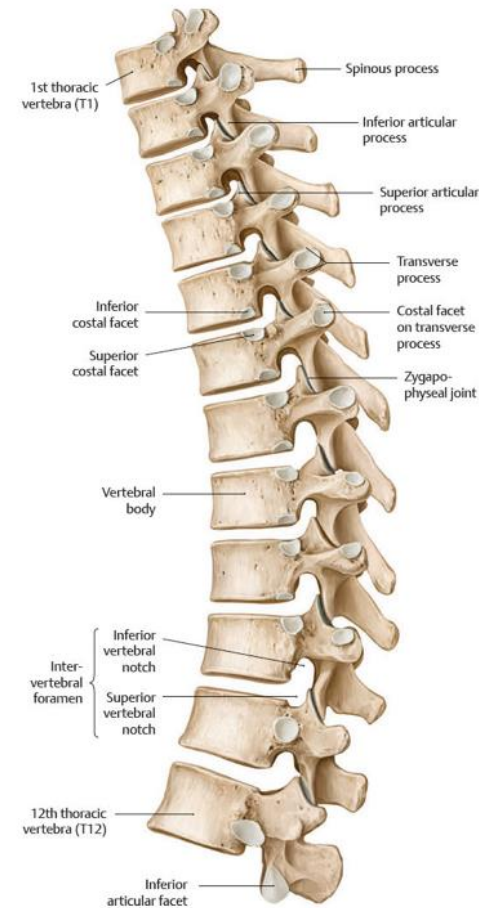
Forces

- Trauma

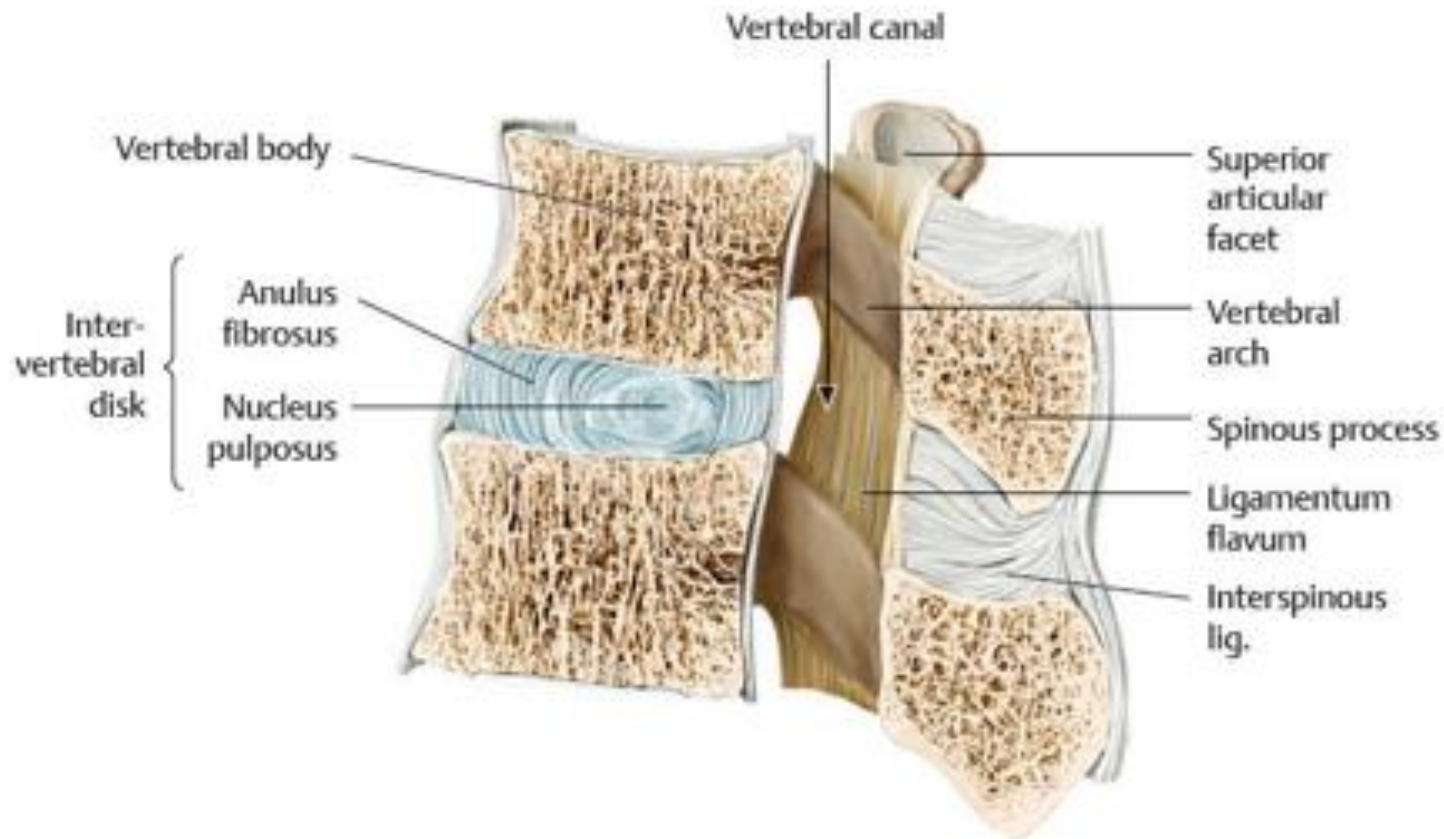


Other Spinal Somatic Dysfunctions

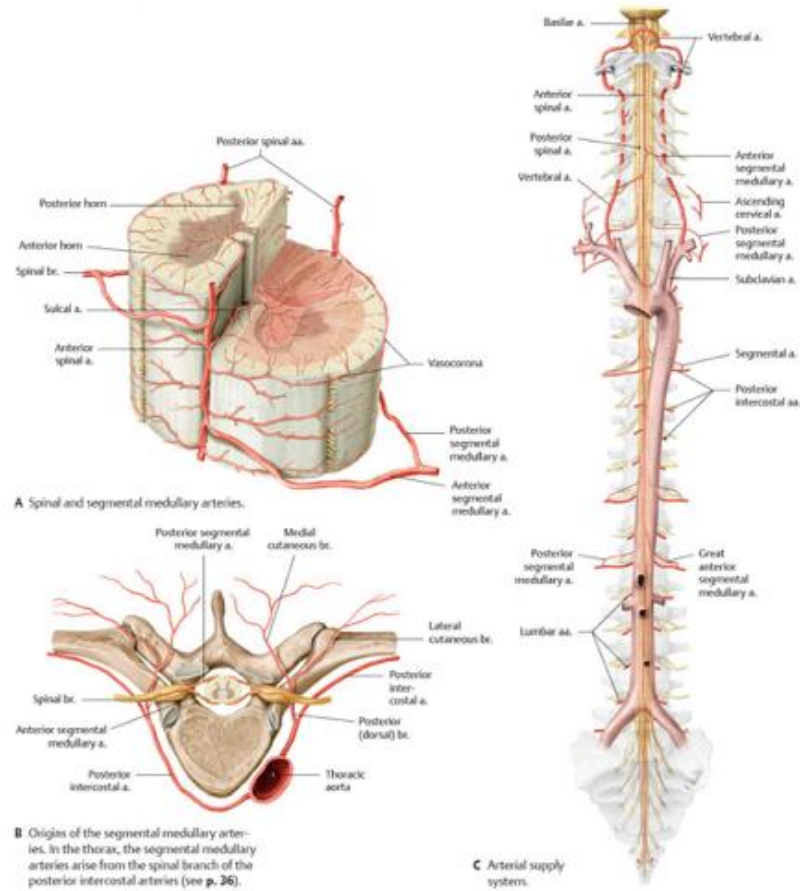
- Type 3
- Bilaterally flexed
- Bilaterally extended



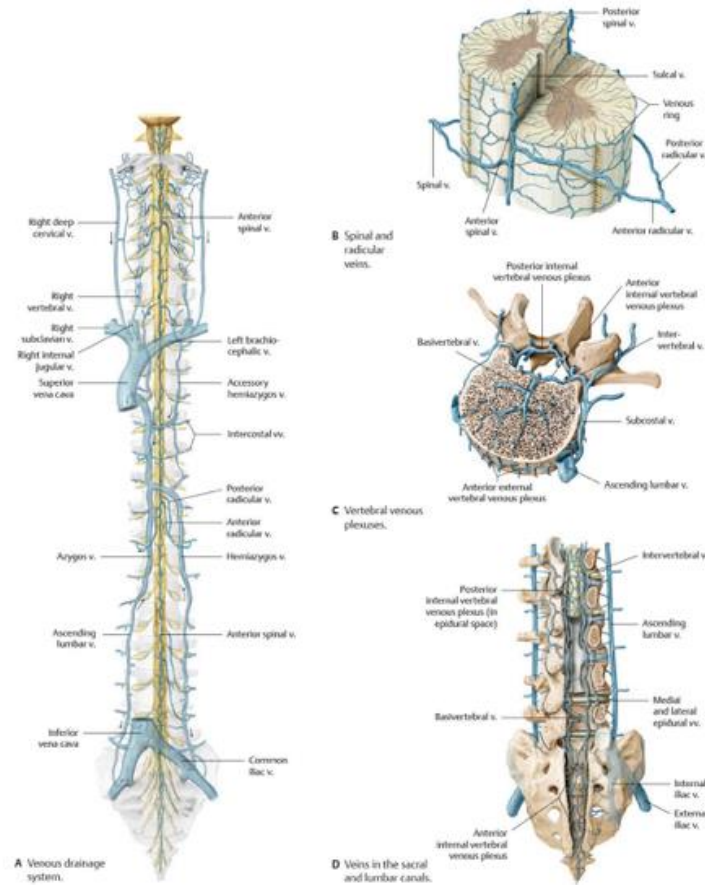
What about the Discs? Vertebral body?



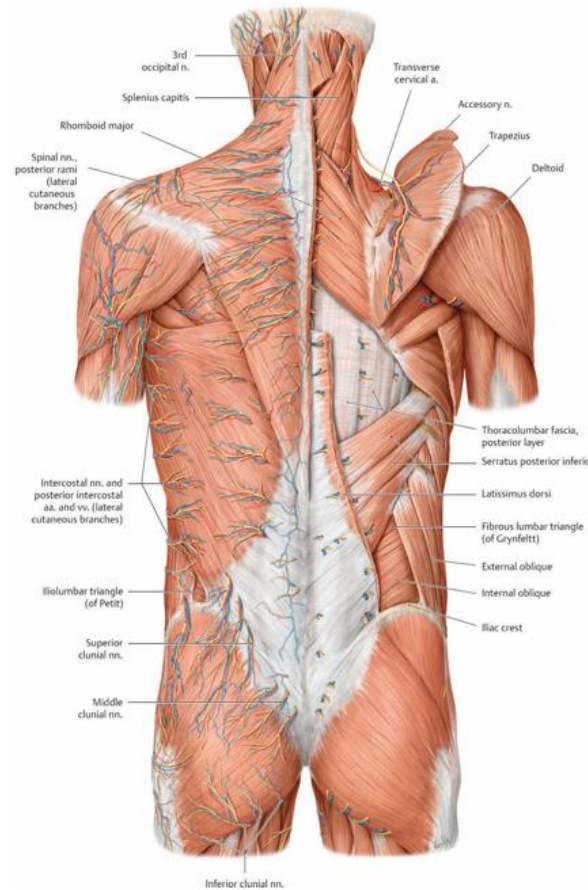
What about the Arteries?



What about the Veins?



What about the Cutaneous nerves?



Thank you!

- Kenneth Lossing
- lossingao@gmail.com