Monitoring of regional circulatory systems

- Lungs
  - Pulmonary artery
  - Pulmonary vein
- Aorta
- Vena Cava
- Hepatic vein
  - Liver
  - Hepatic artery
  - Celiac artery
  - Digestive system
  - Stomach
  - Spleen
  - Mesenteric arteries
- Renal vein
  - Kidneys
  - Renal artery
- Lungs
- Pulmonary artery
- Pulmonary vein
- Aorta
- Vena Cava
- Hepatic vein
- Liver
- Hepatic artery
- Celiac artery
- Digestive system
- Stomach
- Spleen
- Mesenteric arteries
- Renal vein
- Kidneys
- Renal artery
- Legs
- Monitoring of regional circulatory systems
Monitoring of regional circulatory system - on a functional basis
O₂C (oxygen to see) in HBO Therapy

Normoxic Conditions:
- 98.5% of Oxygen transported by Erythrocytes
- 1.5% of oxygen transported physically solved

Normobar, FiO₂=1 Condition:
- 97% of Oxygen transported by Erythrocytes
- 3% of oxygen transported physically solved

Hyperbaric Conditions: (2 bar, FiO₂=1)
- 70% of Oxygen transported by Erythrocytes
- 30% of oxygen transported physically solved

Healthy tissue

- Arterial: Flow=100, SO₂=70%
- Venular: SO₂=70%

Hypoxic tissue

- Arterial: Flow=10, SO₂=10%
- Venular: SO₂=10%
Animal Experiments

Specially designed small probes for animals available (0.8 mm), eg.
• intestine
• isolated lymph note
• various organs

Monitoring of depth of anesthesia, by use of a micro-probe in the mouth under the tongue