

# HBO vs MVT

(Hyperbaric Oxygen vs MicroVascular Therapy)

## HYPERBARIC OXYGEN

Patient is placed in a compressed oxygen environment at 2.0 to 2.5 atmospheres absolute (ATA) with air breaks administered at 20 to 30 minute intervals to reduce risk of central nervous system oxygen toxicity.

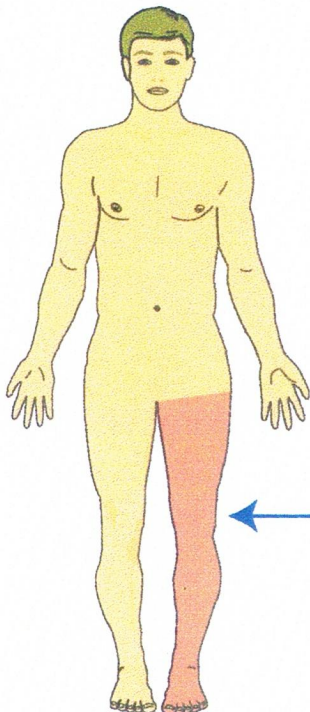
Patient is at rest. Circulation is not increased, At rest, the tissue can capture 25% to 30% of oxygen in the haemoglobin.

## MICROVASCULAR THERAPY

Patient receives electronic stimulation from emitter pads placed in series on entire limbs or body areas. The stimulation induces involuntary exercise which works on the skeletal muscle pump to upregulate venous return as well as on the microcirculation to increase the gradient across the capillary beds.

Involuntary exercise (increased muscle activity) causes increased metabolism, which brings about an increase in local vasodilating metabolites, which cause arteriolar dilation and capillary recruitment, resulting in vastly increased surface area for transcapillary exchange.

Under these conditions, the body is enabled to capture about 90% of the oxygen in the haemoglobin.



Patient can extract 25% to 30% of the available oxygen.

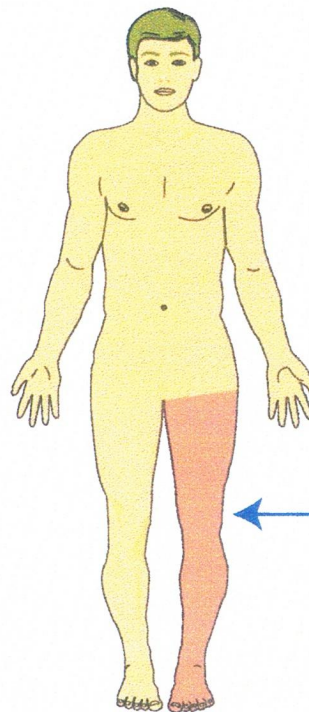
TREATMENT AREA

Equipment Cost: \$150,000-\$200,000

Requires floor space in facility

Treatment time: 1-1/2 hours

Skilled Personnel Required: Yes



Patient can extract about 90% of the available oxygen.

TREATMENT AREA

Equipment Cost: \$13,715

Small, portable, battery powered

Treatment time: 45 minutes

Skilled Personnel Required: No