

Placental insufficiency

Rodrigue PIGNEL¹, Marco GELSOMINO¹², Claude LAE¹³, Michel PELLEGRINI¹,
Jean Yves BERNEY¹,

¹Geneva University Hospitals (Switzerland)

²Hyperbaric centre, Basel (Switzerland)

³Centre Hospitalier Alpes-Leman (France)

Background :

The placental insufficiency is manifested by a limited growth of the foetus and uterus. This is manifested from the 28th week.

Etiologies: indirect (genetic defect, congenital) or direct (arterial agenesis)

The treatment is based on the mother' rest associated with hormon therapy

Rationale for HBO use

Foetal vascular insufficiency generates a foetal distress by nutritional deficit and hypoxia. The passage of oxygen to the foetus occurs by diffusion: the dissolved oxygen in the placenta enriches the foetal blood. HBO takes its importance in increasing the dissolved O₂.

Evidence – Based review of HBO use

The only studies on the topic that have been published have been done prior 2001. We can't find any evidence based.

Patients selection for HBO and Current protocol

We can't proposed any protocol

References

The most recent reference and the most complete we can find is:

Traité de médecine hyperbare, *F.Wattel, D.Mathieu, edition ellipse 2002*

Conclusion :

There is a very low level of evidence (grade D)

Any new recommendation can't be done

There is not really literature found, so there is no easy recommendation possible.

Study (authors, year)	Type	Nb patients	Aim(s) / Evaluation criteria	Inclusion / Exclusion criteria	HBO protocol (pressure, time, nb of session)	Results	Conclusion / comment
None							