Dental Research Directory

Clinical studies on the use of hyperbaric oxygen in replantation of young permanent teeth

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OBJECTIVE:

To investigate the treatment effects of hyperbaric oxygen (HBO) in replantation of young permanent teeth.

METHODS:

A total of 138 luxation injuries to young permanent teeth undergoing treatment. The teeth were replanted and then divided into 2 groups. The HBO group was exposed to 0.25 MPa pure oxygen 40 x 2 minutes each day for 10 days continuously while the control group were compared.

RESULTS:

The total effective rates of the HBO group and the control group were 97.26% and 70.77% respectively, and showed significant difference (P < 0.05); respective frequencies of missing tooth after 1 year were 1.37% and 18.46%, and provided a statistical significance (P < 0.001).

CONCLUSION:

HBO used in replantation of luxated young permanent teeth could promote the recovery of periodontal membrane, pulp, and prevent resorption of root.

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