體外震波治療儀對軟骨組織增生之探討

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摘 要

本研究之目的為藉由水電式體外震波治療儀(Extracorporeal Shock Waves Therapy，ESWT)，觀察在施打震波後，對受損軟骨組織的修復能力。研究中將16隻紐西蘭白兔分成A、B兩組，在每隻白兔後腿膝蓋軟骨進行軟骨下硬骨鑽洞術。在手術兩週後以秀傳醫院的體外震波治療儀OssaTronR OSA 140進行震波治療，以施打震波的右膝蓋軟骨為實驗組，不施打震波的左膝蓋軟骨為對照組，A、B兩組白兔分別在施打震波後4週後與8週後，取出膝蓋軟骨組織進行H&E細胞染色分析，以評估震波治療對受損軟骨的修復能力。研究結果顯示，震波治療對缺損關節軟骨增生有正面效益，且B組的復原狀況也較A組明顯。 藉由此研究，可使國人對體外震波治療骨關節疾患有更深入的了解，進而在臨床推廣應用。相信隨著對這治療方法的逐漸瞭解，體外震波治療法也一定會受到重視。並期望在未來實驗中為加入細胞培養鋪路。

關鍵詞 : 震波治療儀 ; 軟骨組織 ; H& ; E細胞染色

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