



# Mesenchymal Stem Cells Therapy in Cisplatin-Induced Nephrotoxicity

By Yassa, Hanan Dawood / Gergis, Safwat Wadie

Book Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | A Histological, Ultra-structural and Biochemical Study in Adult Albino Rats | Stem cell therapy has the future to change the face of human diseases and alleviate suffering. Mesenchymal stem cells (MSCs) have generated a great deal of excitement and promise as a potential source for stem cellbased therapeutic strategies. These data provide the clue of using MSCs in the current work to modulate cisplatin-induced nephrotoxicity, the severest adverse effect of the well-known anticancer drug; cisplatin. Forty adult albino rats were used in this study; MSCs of bone marrow origin were injected into the rat tail vein one day after a single dose of intra-peritoneal injection of cisplatin. Four weeks later, the kidney was examined morphologically, histopathologically and ultra-structurally. Renal functions (urea, creatinine) as well as serum electrolytes levels (Na, K) were estimated. Cisplatin produced marked histopathological changes in rat kidney and impaired renal functions however; MSCs ameliorated cisplatin-induced nephrotoxicity both functionally and structurally to a great extent. MSCs have a potential therapeutic effect against cisplatin-induced nephrotoxicity. | Format: Paperback | Language/Sprache: english | 64 pp.



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