

Hydro-pressure therapy in chronic kidney diseases

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Self-organ regeneration or regenerative science is the body's regenerative power, a natural physiological response of the organs or tissues when injured. Regenerative ability in the tissue awakens when required, indicating its proof of existence. Even today it is not clearly understood how cells recognize, what is missing or damaged and start regenerating these specific tissues. Self-repair mechanism would be the ideal solution for functional recovery of these failed organs. Today chronic kidney diseases (CKD) or end stage renal diseases (ESRD) patients are increasing day by day. Present treatment to these conditions is kidney organ allograft transplant or dialysis. The main cause for CKD is the presence of fibrosis in renal parenchyma producing toxic and hostile environment i.e. preventing the regenerative process. Fibrosis is body's natural process, so dealing with this should be natural. Body can be repaired if fibrosis is dissolved to restore the circulation and elasticity of the arteries along with improving inflammatory immune system which makes the environment friendly in the damaged tissue.

The aim of this article is to discuss the use of the endogenous regenerative science for self-organ regeneration. A method based on hydro pressure therapy (artificially producing hydronephrosis) is discussed. Following steps are involved in this treatment i) the pelvi-ureteric junction (PUJ) is blocked to create hydronephrotic condition, ii) due to increased back pressure the fibrosed renal parenchyma is dissolved iii) remove the artificial block at PUJ causing reduction in back pressure. Theoretically the prognosis, stem cells niches between renal capsule and the cortex will start regeneration of normal renal parenchyma. The hydro pressure therapy discussed in this paper, may prove an effective technique for renal replacement therapy which is safe, efficient and a low cost treatment.

Biography

Shrikant L Kulkarni has completed his MS (General Surgery) in 1975 from B J Medical College Pune, Maharashtra, India and his MBBS from Miraj Medical College, Sangli. Since 1971, he has worked at several Government Hospitals like the Wanless Hospital, Miraj, Sangli General Hospital, Sangli, Sassoon Hospital, Pune and Multispecialty Hospitals like Ruby Hall Clinic, Pune and Jehangir Nursing Home, Pune. For the last 35 plus years, he is working at his own clinic at Chinchwad, Pune, Maharashtra, India.

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