

Peripheral Derived VSEL Stem Cells – A Summary **Dr Sunita Kaur Ahluwalia**

The future of regenerative medicine lies in telomere replacement pluripotent, very small embryonic-like (VSEL) stem cells which are present in the bone marrow. Once isolated and activated, VSELS are infused into patients and from there, they are able to regenerate the body from within with powerful abilities unique only to VSELS. Upon infusion, they instinctively home towards sites of inflammation within the body to repair and replicate, prevent premature cell death and regulate immune responses among other functions.

The infusion of VSELS is akin to the infusion of cellular powerhouses that go on to not only repair, but regenerate younger tissues with optimised nutrition and chemical messengers. The aim with VSELS is to lengthen the telomeres of the cells within our body. By doing that, it greatly increases the repair and regeneration capacity as the biological age of the cells are made younger through the process. As young cells start to replicate within the patient's body, younger tissues will be formed.

VSELS could play a pivotal role in rejuvenation of adult tissues and the regeneration of damaged organs. They are exemplary stem cell candidates and we envision that their unique regenerative potential could be harnessed to decelerate the ageing process.