Applications of stem cell therapy in regenerative medicine in Asian countries

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Stem cell therapy is an emerging form of healthcare that offers significant potential to improve the practice of medicine. Despite the large number of cell therapy in clinical trials, relatively few have made it to the market in the United States. In Asia, Korea seems to develop cell therapy products more rapidly than other countries. In Asian countries, we attempt to promote the applications of stem cell therapy in regenerative medicine. The PRP (Platelet Rich Plasma) kit is currently in the process of seeking FDA approval as a Class II medical device. Clinical trials were conducted to demonstrate the efficacy and safety of this innovative kit in the treatments of facial rejuvenation and mild to moderate cases of knee joint osteoarthritis (OA). The results demonstrated the consistent effects in stimulating cell proliferation and tissue regeneration. There were statistically significant differences regarding the general appearance, facial skin firmness, sagging and wrinkle states before each PRP procedure and 3 months after the last PRP procedure. The intra-articular injection of hyaluronic acid (HA) plus PRP could strongly rescue the meniscus tear and cartilage breakdown. The combination of HA and PRP can synergistically promote cartilage regeneration and inhibit OA inflammation. These studies might offer advanced treatments for facial rejuvenation and alternative OA treatments based on regenerative mechanisms.

Biography
Kampon Sriwatanakul is an internationally recognized pioneer of stem cell therapy, received MD degree and PhD degree from Mahidol University where he had an academic career for more than 35 years. He has also received training in Clinical Pharmacology from University of Leicester, UK and University of Rochester, USA. Apart from publishing more than 40 publications in international journals, he has spearheaded a number of important research and development activities related to stem cell technology in Thailand, including setting up of cord blood and tooth cell banking.

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