**Advanced pressure ulcer assessment: DESIGN-R**

By Hiromi Sanada

Department of Gerontological Nursing/Wound Care Management and Global Nursing Research Center, Graduate School of Medicine, The University of Tokyo, Japan

Accurate evaluation of pressure ulcer status is indispensable when selecting an appropriate treatment among various alternatives available. DESIGN-R was developed as a clinical wound assessment and monitoring tool by the Japanese Society of Pressure Ulcers and is widely used in Japan. This tool consists of seven items such as depth, exudate, size, inflammation/infection, granulation tissue, necrotic tissue, and pocket (undermining). A total score of DESIGN-R ranging from 0 (healed) to 66 (greatest severity) was calculated from six items except depth as the overall severity of PU. DESIGN-R has the advantage that intra-item and inter-item weights were determined to reflect pressure ulcer healing rates calculated by statistically sound methods. Our previous study revealed that initial DESIGN-R total score could predict pressure ulcer healing across a range of settings irrespective of wound depth, location, and patient characteristics. Therefore, DESIGN-R is a reasonable tool to establish criteria of weekly monitoring of pressure ulcer healing. The reliability and validity have been confirmed and this tool is introduced into the documentation system of Japanese medical insurance system. Recently, an automatic DESIGN-R scoring system has been developed based on image recognition of the wound pictures assisted by artificial intelligence. In this talk, the overview of DESIGN-R will be introduced.