

Kudos

Professor Brion Benninger MD MSc, Executive Director, Medical Anatomy Center receives shared patent of dual array ultrasound finger probe. He was a major contributor to the design and development of a finger probe and its GUI (Graphics User Interface). It contains both linear array (used for musculoskeletal medicine, superficial & central IV placement, arterial vasculature, and pneumothorax) and a phased array probe (used for deep thoracic, abdominal and pelvic structures) within a single finger sized probe. This is novel as the two most common ultrasound probes used in healthcare are combined into one unit that fits over the end of one's index finger. Dr. Benninger was active in the development of the single linear and phased array finger probes and pleased to report the success of combining them. This is beneficial because the healthcare provider only requires one small probe which fits over the finger rather than 2 bulkier hand-held probes which requires unplugging and plugging in separately. This dual array finger probe is much smaller, lighter and time efficient which could be useful in both critical trauma and during clinics. Currently, this system is being tested as a wearable ultrasound unit for military medical personnel. Dr. Benninger is also the first to test it on donor cadavers. He will use both portable and wearable ultrasound systems using the ultrasound finger probe at COMP-Northwest. Dr. Benninger will involve students in the ultrasound cadaver research immediately. This progressive activity and current interaction with exponential technologies, innovative imaging, and his Deconstruction-Reconstruction anatomy education theory research at WesternU continues to create a nurturing ground for healthcare companies to engage in future endeavors with WesternU.