

Tissue Microangiography Using a Simplified Barium Sulphate Cadaver Injection Technique

B K Tan,**MBBS, FRCS (Edin)*, R T H Ng,***DMT*, N S Tay,****DCR (R), Dip MS*, B S Tan,*****FAMS, MBBS, FRCR*

Abstract

This study investigated the application of soft tissue X-ray imaging as a method of studying vascular anatomy in injected cadaveric specimens. The arterial system of the anatomical region of interest was perfused with a barium sulphate-gelatin suspension. After curing, the tissues were removed by meticulous dissection and examined using the soft tissue X-ray imaging system. This technique of microangiography was able to demonstrate the entire arterial system of the perfused specimen. This simplified technique shows great potential in the study of vascular anatomy of flaps.

Ann Acad Med Singapore 1999; 28:152-4

Key words: Dissection, Radiography, Vascular anatomy, X-ray imaging