1989 MCS ABSTRACT FORM

Mail to: Dr. Harris J. Granger
Department of Medical Physiology
College of Medicine
Texas A&M University
College Station, TX 77843

#46

MAILING ADDRESS OF FIRST AUTHOR (Please Print or Type. Provide full name rather than initials.)

Harvey N. Mayrovitz Miami Heart Institute 4701 N. Meridian ave Miami BCH, FL 33140

ne: Office (305) 674-3/75 Home/Holiday (305) 742-992/

PRESENTATION PREFERENCE (Check one	(Check one)
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 Consider for Grega-Zacharkow Young Investigator Award HEMODYNAMIC AND METRIC ASYMMETRY OF PAIRED BIFURCATING CAPILLARIES. H.N.Mayrovitz and J.Moore Miami Heart Institute, Miami Beach, FL 33140

In contrast to the arrangement of capillaries (CAPS) in skeletal muscle, many CAPS in the skin microvasculature, as seen in the ear of the hairless mouse, are present as originating from a common arteriolar site and converging to a common venule site. The loops thus formed provide a unique chance to study the features of paired CAPS subject to identical arteriolar-venular pressure differences. Measurements of capillary length (L), diameter (D) and blood velocity (V) were made in such loops with the aim of determining the basal parameter values and to characterize the degree of similarity between paired CAPS. Overall mean values + sem, obtained from 20 loops in 10 mice were for L, 161 + 6 um; for D, 4.7 + 0.2 um; and for 198 + 22 um/s. These are similar to values in other preparations. Symmetry between paired CAPS was assessed by comparing the ratio of smaller to larger quantities for measured (L,D,V) and calculated parameters (Q = blood flow, H = Hydraulic Hinderance). With the subscript 1 denoting the smaller value in the pair, the results are as follows.

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