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1989 FASEB ABSTRACT FORM

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name rather than initials.)

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PRESENTATION PREFERENCE (Check one)

☐ Oral ☐ Poster ☒ Indifferent

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the discretion of the programing society.

SELECT CATEGORY NUMBERS & TITLES
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- 265-1 Coronary Physiology*
- 261-4 Cardiovascular Diseases*
- 659-4 Ischemic Injury*

Is first author graduate student? ☐ Yes ☒ No

IMPORTANT

- Prepare abstract carefully, on this form only.
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REMITTANCE (NONREFUNDABLE)
ABSTRACT HANDLING FEE \$25
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LEUKOCYTE ADHERENCE CHANGES AFTER MYOCARDIAL ISCHEMIA IN
THE RABBIT. R.N.Sampsell, B.Herscovici, J.Moore and
H.N.Mayrovitz Miami Heart Institute, Miami Bch, FL 33140

It is well documented that leukocytes can produce a
variety of deleterious effects associated with myocardial
ischemia and reperfusion. The aim of the present study was
to determine if changes in leukocyte adherence (ADH)
accompany this process. Thus, 17 rabbits were subjected to
45 minutes of coronary artery occlusion followed by 6 hours
of reperfusion in an open chest model. Blood samples were
obtained 15 minutes prior to ischemia induction, and at 30
and 300 minutes after occlusion release. Adherence was
determined in triplicate by passing 1 ml of heparinized
whole blood through filters consisting of sterilized and
finely teased nylon fibers (60 mg) packed to the 0.4 level
in plastic tuberculin syringes. Data for leukocyte counts
(CNT), adherence, and the CNT x ADH product (CxA) are shown
below as mean \pm sd with * and ** indicating $p < 0.05$ and
 $p < 0.01$.

	15' PRIOR	30' POST	300' POST
CNT (#/mm ³)	4863 \pm 2670	5911 \pm 2498	6270 \pm 2384**
ADH (%)	26.0 \pm 17.7	28.4 \pm 18.1	36.8 \pm 21.5*
CxA (10 ⁻⁴)	12.7 \pm 11.6	15.5 \pm 9.2*	25.6 \pm 17.3**

The increase in leukocyte CNT and ADH late in reperfusion
may combine (CNT x ADH) to affect the microvasculature, and
directly or indirectly, affect resultant infarct size.
Supported by American Heart Association, Florida Affiliate.

Blue lines are printer's cut lines, do not type on or outside of these lines.

All compounds that are designated by code or initial letters in the title must be identified
adequately in the abstract, e.g., MJ-1999; 4-(2-isopropylamino-1-hydroxyethyl) methanesul-
fonanilide hydrochloride.

All investigators must adhere to the guidelines as listed on the reverse of the abstract form.

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No exceptions will be made.

HARVEY N. MAYROVITZ
Member's Name (Print or type)

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