

DO NOT FOLD THIS FORM

Indicate below the number of photocopies of sections in which your abstract is to be programmed (see List, Category I, 1975)

1st Choice = 145 Phys. Peripheral Circulation
2nd Choice = 146 Phys. Capillary Blood Flow
3rd Choice = 003 Phys. Blood Coagulation

(See paragraph 1 below for the number of photocopies to be submitted with abstracts for submission or transfer to each Society.)

1975 FASEB
Abstract Form

IMPORTANT:

See sample abstracts, typing and mailing instructions on reverse side and enclosed Check List for preparation of abstract.

1975 #7

PHYSIOLOGY

1975
Fed Proc 34: 385

CHANGES IN LEUCOCYTE ADHESIVENESS ACCOMPANYING LASER IRRADIATION. Harvey N. Mayrovitz*, Mary P. Wiedeman, and Guido Ascanio. Temple University School of Medicine, Phila., Pa. 19140.

The rate of appearance (N) and average velocity (v) of circulating leucocytes determined from *in vivo* measurements in microvessels of the bat wing were used as indices of leucocyte-vessel wall adhesiveness. Laser irradiation of microregions of tissue, adjacent to vessels under observation, were used to probe the time course and spatial dependencies of leucocyte adhesiveness changes. Significant increases in control levels of N and reductions in v were demonstrated with no observable alteration in platelet activity. The time course of the post irradiation response, as measured at a given position from the irradiation site, provides information regarding the time constants of the as yet unknown processes causing increased leucocyte adhesiveness. Further, the quantification of leucocyte adhesiveness as a function of distance from the irradiated site provides information on the nature of the spatial decay of the adhesive inducing mechanisms.

PRESENTATION PREFERENCE

Preferred choice (CHECK ONE ONLY)

- ☐ Poster presentation
☒ Slide presentation
☐ Indifferent

If preference cannot be followed, I will (CHECK ONE ONLY)

- ☒ Accept alternative
☐ Withdraw abstract

16 mm. films (silent or optical sound) are permitted if essential to 10-minute presentation.

MOVIE Yes..... No...X.....

Submit justification by letter to Society Office, with abstract.

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

The original typed copy of this abstract form (for reproduction by photostet in FEDERATION PROCEEDINGS) must be submitted together with 8 photocopies for all Societies, EXCEPT Immunology which needs 10 photocopies.

Each Abstract Form submitted MUST BE SIGNED by a member of the Society to which the abstract is sent.*

3. MAILING ADDRESS OF FIRST AUTHOR

.....Harvey N. Mayrovitz, Ph.D.
.....Temple Univ. Sch. of Med., Dept. of Physio
.....Philadelphia, Pa..... Zip19140
Telephone no.: Area Code215..... #221-3692

Mail to:
Dr. Orr E. Reynolds, Executive Secretary
American Physiological Society
9350 Rockville Pike
Bethesda, Maryland 20014


(Member's Signature)

Member's telephone no.: Area Code215..... # 221-3277