

PUBLIC HEALTH

Early Care, Counseling Vital to Hemophiliacs

► SEVERE physical and social crippling of hemophiliacs might be prevented through early care and counseling.

These are the conclusions of a two-year study of social and vocational problems of 1,100 hemophiliac adults, carried out by Dr. Alfred H. Katz, Jacqueline MacAfee and Florence B. Goldy of the School of Public Health at the University of California, Los Angeles.

Hemophilia is a hereditary disorder characterized by inability of the blood to clot. Any slight injury may lead to a severe, possibly fatal hemorrhage. More than half of those surveyed reported from two to 20 major hemorrhages yearly prior to age 16. Crippling arthritic effects frequently occur.

Despite such handicaps, more than 70% of the hemophiliacs surveyed are living normally, vocationally and socially. More than half are employed, and about 40% are married. Thirty percent of the married group have children. More than 3% were severely disabled.

The investigators recommended that hemophiliacs be counseled and trained for jobs suitable to their capacity, but not at the risk of social isolation.

Watch repairing, usually carried on in near-seclusion and a very confined space, is apparently a favorite job recommendation for hemophiliacs. Such an occupation is physically and psychologically bad for them, compounding problems of social isolation.

• Science News Letter, 83:79 February 2, 1963

TECHNOLOGY

Infrared Radiation Used as New Analyzer

► INFRARED radiation is now being used to inspect heat insulation and electrical and gas heating equipment. The method is less expensive and gives analysts information unavailable with more costly operations and equipment. With the technique a complete picture of heat distribution on photographic film can be obtained. A number of products can be improved, design analysts predict. These include high-pressure boilers, electric motors, internal combustion machines, refrigerators and trailers.

• Science News Letter, 83:79 February 2, 1963

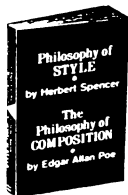
Science Exam Answers

To check yourself on the Exam, p. 74, score one point for each correct answer in Parts A and B, and one point for each correct answer in Part C while subtracting a point for each incorrectly marked answer in Part C.

PART A: 5-1; 6-3; 7-2; 8-3; 9-1; 15-1; 16-2; 17-4; 18-4; 19-3.

PART B: Section D-38-1; 39-1; 40-1. Section H-53-2; 54-2; 55-2; 56-4.

PART C: 79-1, 2; 80-1, 3, 4; 81-1, 3.



WRITE FOR MONEY!

Enrich your style through Herbert Spencer's and Edgar Allan Poe's classic principles that have influenced many of the world's great authors. Indispensable for writers eager to get published! Send \$1.00 to PAGEANT PRESS, 101 5th AVE., N. Y. 3, Dept. SN.

CHANGING YOUR ADDRESS?

If you are moving soon please help to assure prompt receipt of all your copies of Science News Letter—and without interruption — by sending your NEW and OLD addresses at least three weeks in advance. For speedier processing, send mailing label from this issue, along with your new address. Thanks!

Subscriber Service Division

SCIENCE NEWS LETTER

1719 N Street, N.W., Washington 6, D. C.

MICRO-ADS

Equipment, supplies and services of special interest to scientists, science teachers and students, science-minded laymen and hobbyists. 25¢ per word, payable in advance. Closing date 3 weeks prior to publication (Saturday).

SNL, 1719 N St., N.W., Washington 6, D. C.

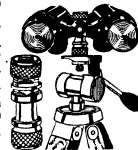
1,000 CHEMICALS IN SMALL QUANTITIES, laboratory glassware, apparatus. Biology supplies, low-price microscopes, minerals, entomological items. Send 25¢ for new catalog. Winn Science Center, 124-N West 23rd Street, New York 11, New York.

GOVERNMENT SURPLUS RADIOS, AIRCRAFT cameras, lenses, sniperscopes. 50 page illustrated catalog. 10¢. Meshna, Malden 48, Mass.

INDEPENDENT THINKERS—INVESTIGATE Humanism, the scientific personal philosophy! Ethical, humanitarian, nonpolitical, nonsupernatural. Free literature. American Humanist Association, Dept. SNL-1, Yellow Springs, Ohio.

BINO-TACH Connector \$3.00 p.p.

Makes it EASY for everyone to use the highest powered binoculars. Bino-tach secures any make of prism binocular to any photographic tripod or pan-head. On/off in seconds. Reduces fatigue, seeing improves 100%! It's steady! Precision turned aluminum, brush finish. Original price almost \$7.00. Closing out, limited stock, \$3.00 each p.p.



HARRY ROSS

Scientific & Lab Apparatus
81-L Reade St., N.Y. 7, N.Y.

FAMILY ARMS

Genuinely emblazoned from old records filed under 100,000 British & European surnames. In relief and full colour an immaculate OAK WALL SHIELDS for mural decoration.

7" x 6"—\$ 7.00
12" x 10"—\$20.00

postpaid. Your check is returned if the Arms cannot be traced. School, Ship, Regimental Shields, Trade Marks, etc., similarly reproduced. Write Britain direct.

YORK INSIGNIA, LTD., YORK, ENGLAND

SLIDE RULES

Who Else Wants World's Finest Slide Rule at wholesale price? Math problems made easy with famous ENGINEER'S Model! Preferred & used by College Teachers and more than a million Engineers, Draftsmen, High School & College Students. Buy no Rule or Drawing Set until you get our Free illustrated folder. Postcard brings it. Your dollar does the work of two when buying Direct. We don't make much money but we sure make friends and customers.

ENGINEERING EQUIPMENT, Bx 638, JOANNA, S.C.

FREE BOOK!

"Dover Science Sampler," 64-page book, with entertaining, instructive selections from Mach, Galileo, Newton, Poincare, Hubble, Steinman, etc. Island universes, fata morgana, genetics, phase rule, etc. Entirely free, no strings attached. No obligation, no salesmen will call. Supply limited. Write now. Dept. SNL, Dover, 180 Varick St., N.Y. 14, N.Y.

SCIENCE SERVICE Special Offer

2 ESSENTIAL BOOKS ON SCIENCE PROJECTS SAVE 25% ... BOTH FOR **\$3**

Scientific Instruments You Can Make—How teen-age scientists have designed and built astronomical instruments, spectroscopes, Tesla coils, oscilloscopes, cloud chambers, atom counters, Van de Graaff generators, electronic computers, stroboscopes; demonstrated ultrasonics, chromatography, photomicrography, etc. Illustrated. Reference guide to research in fields opened by use of these instruments.

Science Exhibits—How to select material, how to plan its presentation, how to display, how to label and light, how to describe the work you have done.

To: SCIENCE SERVICE
1719 N St., N.W.
Washington 6, D. C.

Please send Science Service Special Book Offer #6A.

My \$3 check/money order is enclosed.

Please bill me.

Name.....

Address.....

City.....Zone.....State.....

2-2-3

