

#### SOFTWARE SURVEY SECTION

Editor's Note: The following Software Descriptions have been submitted by our readers in response to our call for an open exchange of information on software programs. They are offered without review or comment to provide a rapidly published, easily accessible avenue of communication. Other readers with relevant software packages are invited to complete and submit a Software Description Form (found at the end of this section).

Software package CH-002-S87

Determination of Erythrocyte  
"Deformability Exponent ( $\beta$ )" and  
Corresponding "Shape Factor (A)"  
plus Haematocrit Correction for  
Blood Viscosity

Contributor: Steve Hussain, King's College School of Medicine and Dentistry, King's College Hospital, Department of Haematology, Denmark Hill, London SE5 8RX, England

Brief description: The programme derives the "bulk deformability exponent" ( $\beta$ ) and the corresponding "shape factor" (A) from native blood viscosity, plasma viscosity and haematocrit data. The programme also derives the blood viscosity at any haematocrit chosen by the operator according to a formula published by Whittington and Harkness (Biorheology 19, 175-184, 1982).

Potential users: Researchers in haemorheology and clinical haemorheology.  
Fields of interest: Blood viscometry.

- § This application program in the area of viscometry has been developed for Acorn BBC computers in BASIC. It is available on 3-1/2", single-sided, double-density floppy diskette.
- § Distributed by contributor.
- § The minimum hardware configuration required is any BASIC programmable computer. No user training is required. It is self-documenting. Source code is available.
- § The package is fully operational. It has been in use at King's College Hospital for approximately 3 years. The contributor is available for user inquiries.

JOURNAL NAME                     **CLINICAL HEMORHEOLOGY**                    

**P E R G A M O N**  
**SOFTWARE DESCRIPTION FORM**

Title of software program: \_\_\_\_\_  
\_\_\_\_\_

Type of program:  Application  Utility  Other \_\_\_\_\_

Category: \_\_\_\_\_ (ie. Psychological assessment,  
statistics, thermodynamics, etc.)

Developed for (name of computer/s): \_\_\_\_\_

in (language/s): \_\_\_\_\_

to run under (operating system): \_\_\_\_\_

available on:  Floppy disk/diskette. Specify:

Size \_\_\_\_\_ Density \_\_\_\_\_  Single-sided  Dual-sided

Magnetic tape. Specify:

Size \_\_\_\_\_ Density \_\_\_\_\_ Character set \_\_\_\_\_

Hardware required: \_\_\_\_\_

Memory required: \_\_\_\_\_ User training required:  Yes  No

Documentation:  None  Minimal  Self-documenting  
 Extensive external documentation

Source code available:  Yes  No

Stage of development:  Design complete  Coding complete  
 Fully operational  Collaboration welcomed

Is program in use?  Yes  No How long? \_\_\_\_\_ How many sites? \_\_\_\_\_  
 Yes  No

Is the contributor available for user inquiries:  Yes  No

Distributed by: \_\_\_\_\_

Cost of program: \_\_\_\_\_

Demonstration disk available?  Yes  No Cost: \_\_\_\_\_  
 Yes  No

(continued)

RETURN COMPLETED FORM TO:

Dr. Arpad Matrai  
Klinik für Physikalische Medizin der Universität München  
Innenstadt, 8000 München 2  
Federal Republic of Germany

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Description of what software does [maximum: 200 words]:

Potential users: \_\_\_\_\_

Field/s of interest: \_\_\_\_\_

# # # # # # #

Name of contributor: \_\_\_\_\_

Institution: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Telephone number: \_\_\_\_\_

# # # # # # #

Reference No. [Assigned by Journal Editor] \_\_\_\_\_

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[The information below is not for publication.]

Would you like to have your program:

Reviewed? [ ] Yes [ ] No [ ] Not at this time  
Marketed and distributed? [ ] Yes [ ] No [ ] Not at this time

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