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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 EJCCO-001-S84 MICROCOMPUTER LIFE TABLE ANALYSIS

Contributor: A. H. Calvert, Institute of Cancer Research, Block E, Department of Biochemical Pharmacology, Clifton A. Belmont Institution of Surgery

Brief description: Software developed to allow simple clinical trial analysis, cross tabulations and actuarial curves and logrank test to be done on inexpensive microcomputer equipment by computer naive staff.

Potential users: Physicians engaged in clinical trials not having access to supported mainframe systems.

§ This application program in the area of actuarial analysis has been developed for CP/M Microsoft Basic/Cifer in Microsoft BASIC to run under CP/M & MS DOS. It is available on 5-1/4" and 8", single- or double-density, single- and dual-sided floppy diskettes. Required memory is 64K.
§ Distributed by D.M.E. Calvert, 38 Rochester Road, London NW1 9JT.
§ The minimum hardware configuration required is 64K + 1 floppy disk. No user training is required. It is self-documenting. Source code is available.
§ The package is fully operational. It has been in use at 2 sites for approximately 2 years. The contributor is available for user inquiries.

Software package EJCC0-002-S85 POLYCHOTOMOUS LOGISTIC REGRESSION (PLR)

Contributors: R. J. Marshall, E. H. Cooper, Unit for Cancer Research, University of Leeds, Leeds LS2 9NL, England

Brief description: This program is used to fit a logistic regression model to discriminate between a number of non-ordered response categories e.g. cancer, benign disease, and "normal." The program has the flexibility to fit a model in which certain constraints on the explanatory factors are imposed, thereby allowing tests of the predictive value of factors in the model to be made (Marshall & Chisholm, submitted to Statistics in Medicine). In particular a Lagrange multiplier test statistic is computed. The model is fitted by maximum likelihood using a Newton-Raphson method for optimisation. The program can also be used to validate a fitted model by providing classification tables. A facility to incorporate prior probabilities is included.

Potential users: Medical statisticians.
Fields of interest: Assessing diagnostic and prognostic factors; statistical modelling.

§ This application program in the area of statistical analysis has been developed for AMDAHL in FORTRAN-77 to run under VM/CMS. It is available on 600', 1600 bpi magnetic tape in EBCDIC. Required memory is 1 megabyte.
§ Distributed by Unit for Cancer Research, University of Leeds.
§ The package is fully operational. There is extensive external documentation. Source code is available. It has been in use at one site for approximately 6 months. The contributor is available for user inquiries.

NAME OF JOURNAL EUROPEAN JOURNAL OF CANCER & CLINICAL ONCOLOGY

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

Title of software package: _____

_____

_____

It Is: [ ]Application program [ ]Utility [ ]Other_____

Specific area _____
(e.g. Thermodynamics, Inventory Control)

Software developed for [name of computer(s)] _____

in [language(s)] _____

to run under [operating system] _____

and is available in the following media:

[ ]Floppy disk/diskette. Specify:

Size _____ Density _____ [ ]Single-sided [ ]Dual-sided

[ ]Magnetic tape. Specify:

Size _____ Density _____ Character set _____

Distributed by:_____

Minimum hardware configuration required: _____

Required memory: _____ User training required: [ ]Yes [ ]No

Documentation: [ ]None [ ]Minimal [ ]Self-documenting
[ ]Extensive external documentation

Source code available: [ ]Yes [ ]No

Level of development: [ ]Design complete [ ]Coding complete
[ ]Fully operational [ ]Collaboration would be welcomed

Is software being used currently? [ ]Yes [ ]No
If yes, how long? _____ If yes, how many sites? _____

Contributor is available for user inquiries: [ ]Yes [ ]No

(continued)

RETURN COMPLETED FORM TO:

H.J. TAGNON
Institut Jules Bordet
Centre des Tumeurs
1 rue Héger-Bordet
B-1000 BRUXELLES, BELGIQUE

Description of what software does [200 words]:

Potential users: ____________________

Fields 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

[This Software Description Form may be photocopied without permission]