

The American Statistical Association

San Francisco Bay Area Chapter

Since 1928

January, 1998

Joint Biostatistics and **General Applications Program**

"ACCELERATED DEGRADATION TESTS"

Jack Tomsky, Ph.D.

statistical consultant

A common problem in drug testing is determining the stability or shelf life of a product at certain environmental conditions. If the tests are performed at these nominal conditions, it make take a long time to observe failures. Under accelerated testing, tests are performed at a variety of overstressed conditions. The results are extrapolated back to the nominal conditions of interest then through the use of an appropriate statistical model.

In accelerated life testing (ALT), failure times or intervals are observed. In accelerated degradation testing (ADT), measurements are made on some active ingredient or chemical. ADT also requires a specification limit or limits. ADT has the advantage over ALT in not requiring the observation of actual failures. This allows for shorter tests.

Despite these advantages, ADT has been little used to date. This is because there is relatively little in the literature on ADT models. Now, new methodology has been developed for analyzing ADT data encompassing a variety of models. The results are illustrated by a numerical example. By estimating the parameters in the model by maximum likelihood and using the large-sample covariance matrix, the results for all statistical problems of interest are obtained.

Date:

Tuesday, January 27, 1998

Time:

Refreshments 3:30 - 4:00 PM

4:00 - 5:00 PM

Discussion

Place:

Failure Analysis Associates, 149 Commonwealth

Dr., Menlo Park

Dinner: 6 PM, place to be announced at talk

Directions: See map.

Open Positions

Covance

Walnut Creek

Biostatisticians

Covance is the world's leading clinical contract research organization experienced both small and large-scale Phase I, II, and III clinical studies as well as national and multinational drug development programs. The unprecedented growth of our company has resulted in new and exciting career opportunities.

Covance will hold a Career Fair January 23 & 24, 1998

Manager Statistics:

The successful candidate for this position will manage project activities and use their experience to select and implement statistical methods on clinical studies. Coaching and mentoring statisticians and providing liaison with clients are important tasks for this position. Must be familiar with preparation of sections of ISS and ISE documents and will be responsible for key sections of statistical/clinical reports. MS Statistics, PhD preferred, with a of 5 years minimum Pharexperience with a Biotechnical maceutical

statadvice@aol.com

company. Must have supervisory experience, SAS programming proficiency and knowledge of statistical methodology in clinical trials.

Sr. Statistician:

Serves as core project team member to coordinate and manage all statistical activities on a project. Provides statistical input for protocol & CRF development and prepares Analysis Plans, key portions of integrated clinical/ statistical reports, and key sections of ISS an ISE. Provides technical solutions to a wide range of statistical problems. MS in Statistics, Ph.D preferred, with a minimum 3 years in pharmaceutical or related setting. Proficiency in SAS gramming and word processing.

<u>Sr. Statistical</u> Programmer/Analyst:

Writes, modifies, validates and implements clinical project work in SAS. Sets up SASbased systems to facilitate data management activities. Serves lead programmer as development/production projects. Serves as a key technical resource in project manage-Carries out technical ment. planning, setup and documentation for multi-protocol projects. BS or MS in computer science, statistics or related Minimum 4 years of field. SAS programming in pharmaceutical research. Advanced SAS skills.

In addition to exciting career opportunities in an environment that values your contribution, Covance offers competitive salaries and excellent benefits.

Covance will have a Career Fair January 23 & 24, 1998. Qualified candidates are encouraged to attend. Please send your resume/CV in confidence to:

Covance CAPS, Inc.
2121 North California Blvd.
Ste. 500
Walnut Creek, CA 94596
FAX 510-974-3703

Department of Obstetrics, Gynecology, and Reproductive Sciences University of California,

San Francisco

The University of California, San Francisco The Department of Obstetrics, Gynecology, and Reproductive Sciences at the University of California, San Francisco is seeking a full- or part-time statistician with a strong background in research methodology, applied statistics and data management in medical and outcomes The candidate research. will play an active role in study design, data collection, analysis and data management. The candidate should have a strong background in traditional statistical analyses including cross-sectional and longitudinal analyses. SAS programming experience and expertise in design and management of data bases using MS Access, D-Base Bioquest required. and Must be comfortable with PC/Windows and Mac computing environment. Masters degree in statistics or related field required. Excellent oral and written communication skills in English required. Salary: mid 30K to low 40K. Excellent benefits. EEO. Candidate responsible for relocation expenses. more information on the University of California, San Francisco, please see our website at www.ucsf.

edu.

Send resume and cover letter by mail to: Virginia Nido, UCSF Box 1694, San Francisco, CA 94143-1694 or by email: virginia_nido @quickmail.ucsf.edu or by fax: (415) 885-7379.

ASA Member Mark Berenson asks support for daughter

About 18 months ago, Mark Berenson, ASA member and professor of statistics at Bernard Baruch College, New York, placed a notice in the "Amstat News" requesting support for his daughter, Lori Berenson, who is in a Peruvian prison, having been handed a life sentence by a military tribunal.

The efforts of Mark and his wife, Rhoda, a physicist,

resulted in about 175 House, and 52 Senate members petitioning the Secretary of State to actively advocate that the Peruvian government grant Lori a fair trial or send her home.

More information about this situation may be found at http://www.geocities.com/capit-olhill/9968/ or by contacting Mark Berenson at MARBB@CUNYVM.CUNY.EDU.

Directions to Failure Analysis Associates:

Failure Analysis Associates is located a short distance off the Marsh Road exit of Hwy 101 in Menlo Park, between the San Mateo and Dumbarton Bridges.

From San Francisco, Marin Co., and the Peninsula:

Take 101S to the Marsh Road exit in Menlo Park Turn EAST (toward the Bay). At the end of Marsh Road (1 block from the Northbound 101 exit), turn right at the traffic light. At the next traffic light turn

right again onto Chrysler Dr. Follow this road until it veers left (about 3 blocks). Failure Analysis Associates is the first building on the left.

From the East Bay:

There are two ways depending upon your location and traffic:

- 1) Take the Bay or San Mateo Bridges west to 101. Then follow the directions above for the Peninsula.
- 2) Take 880 to the Dumbarton Bridge, and continue on that road for 4 traffic lights. Turn left at the fourth light onto Chrysler Dr. Continue 3 blocks to end, where Chrysler turns into Commonwealth Dr. Failure Analysis is first building on the left.

From San Jose and the South Bay:

Take 101N, then follow the directions for the Peninsula from the exit to Failure Analysis Associates.

Advertising Rates

Employment ads

Employment ads *must* describe a *specific* job opportunity: company, location, and job description. For one newsletter insertion 250 words or less) and 2 months on chapter Web page *per job description*\$50

General ads

These ads include general recruitment by employment agencies, consulting firms offering their services, etc.

For one newsletter insertion, *no* insertions on Web page

full newsletter page: \$200 half newsletter page: \$100 quarter newsletter page \$50

eighth newsletter page \$25 To place an ad, please contact the chapter secretary, Ann Kalinowski, at phone(650) 688-7203 or email sfamk@fail.com.



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149 Commonwealth Drive Menlo Park CA 94025