

Stuart Beal 1941-2006



My retirement party October 2000

HOW NONMEM STARTED

- **(Pre 1978) Lewis to world:**
“You’re not analyzing the data correctly.”
- **World: “Give us the software”.**
- **Kenneth Melmon: “You need a statistician”**
- **1978 -Stuart interviews with Lewis**
“This man is going to do great things for me”
- **1978-1980 “Is it ready yet?”**
- **1980 Lewis dances on air.**

1980

**DIVISION OF
CLINICAL PHARMACOLOGY**

NONMEM Users Guide - Part I

Users Basic Guide

April 1980

by

Stuart L. Beal

and

Lewis B. Sheiner

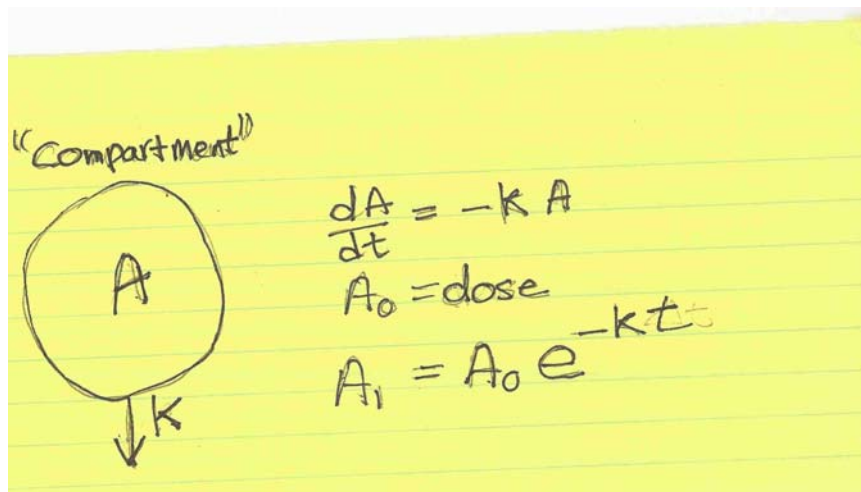


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1983-1984

- I join the NMPG.
- Stuart teaches me PK



- Stuart designs PREDPP

ICALL = 1

100-0 Initialize problem-specific variables in
PREP + all its various subroutines



✓ Call IDEFN with ICALL = 1

call error ↓

✓ Call PK with ICALL = 1 + N = 1
✓ CALL ↓ SADVCE to convert IDEF to IBF, IR, IS, IT

first physical data rec - gets passed again w/ ICALL =

✓ Error check, display summation of, and set values of variables according to, the information passed from PK

follow format of NONMEM 1st page



✓ Call routine to check data records for consistency (initially - REVEN)



Return

1980-2005



NONMEM I - IV

1980	NONMEM	IBM-specific binaries Magnetic tape	Guide I Basic Guide II Supplemental	
1984	“NONMEM 77” NONMEM II PREDPP I	Fortran 77 source code, all platforms	Guide VI PREDPP	ADVAN 1-6
1989	NONMEM III PREDPP II NM-TRAN I		Guide IV NM-TRAN Guide V Intro	ADVAN 7-9
1992	NONMEM IV PREDPP III NM-TRAN II	Floppy disks	Guide III Installation Guide VII Conditional Estimation	FOCE; Interaction; mixture models ALAG ADVAN 10 (SB)

TO NONMEM V

1994	Users Network, Repository	Internet		
1996		On-line help	Guide VIII Help	
1998	“Nonmem 5” NONMEM V PREDPP IV NM-TRAN III	Improved installation: SETUP.BAT NSIZES	NONMEM V Supplemental	LIKELIHOOD \$MIX ADVAN11-12 (SB)
2000-2001	Globomax: Licensing, distribution, support	CDROM; CDSETUP. BAT	“Readme”	

NONMEM VI

19 May 2006	“NONMEM 6 beta” NONMEM VI PREDPP V NM-TRAN IV	SIZES Commented code	Intro to Version VI (SB) HTML Help	Non- parametric; MTIME \$INFN
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HTML Help: Thanks to Niclas Jonsson for his Perl script.
Radojka Savic will talk next about Nonparametric method.

Beta testers during development years:

Fellows, Tom Ludden, Mats Karlsson et. al., Davide Verotta, Nancy Sambol

The “NONMEM VI Beta” CD was sent to ~25 sites.

The Future of the NMPG

- NMPG: Barbara Weichman, Richard Tabor, and Alison Boeckmann (all part-time)
- NIH grant GM26676 (1977-2006).
Professor Davide Verotta now Principal Investigator
5 months + 1 year ?
- Moved from C255 to U76 (with Davide Verotta and Nancy Sambol).
(aboeckma@c255.ucsf.edu)
- NONMEM VII ... ??

The Fellows at C255/C250



Stuart's own Fellows

- 1986, 1987 Adrian Dunne, University College, Dublin
- 1986 Tom Ludden, University of Texas Health Science Center
- 1997-1998 Jeff Koup, Parke-Davis
- 1998-1999 Ikuko Yano, Kyoto University, Kyoto
- 2002-2003 Dolores Soy

COURSES ON POPULATION PHARMACOKINETIC DATA ANALYSIS USING THE NONMEM SYSTEM

BASIC COURSE

Kyoto, Japan (1989),
San Francisco, CA (1990,92,93,95,97)
Lyon, France (1991,93,97,01),
Uppsala, Sweden (1995,99)
Rockville, MD (1998).

INTERMEDIATE WORKSHOP

San Francisco, CA (1992,93,95,97),
Lyon, France (1993,97,01),
Uppsala, Sweden (1995, 99),
Rockville, MD (1998).

BASIC AND INTERMEDIATE LEVEL SHORT COURSE

Uppsala, Sweden (2003)





Lewis

Stuart

Talker. Endless ideas.	Listener. Thinker
Intuitive. Creative.	Analytic. Methodical.
Wanted to influence the world. Collegial.	Content to do his own work. Solitary.
Always said 'yes'	'No' – all or nothing.
“How interesting, tell me why you disagree!”	“Hmm.. I know I'm right. You must be wrong.”
“Don't let the perfect get in the way of the good” .	“I'm from Missouri, the 'show me!' state”

Stuart

- Could be controlling, and extremely stubborn. Always knew he was right.
- But always nice about it.
- Kind, patient teacher.
- Kind to the people he liked.
- Very sentimental, loving.
- Lewis' death hit him very hard.



