

PHARSIGHT® WINNONMIX® 2.0.1

BENEFITS

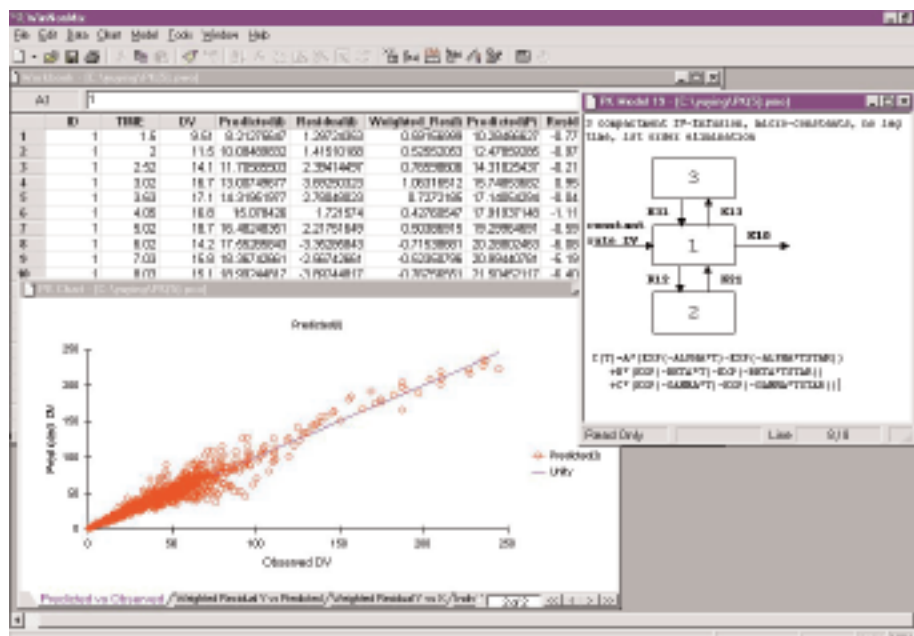
- > Rapid population PK/PD modeling without requiring programming
- > Improve productivity and speed modeling/analysis activities
- > Spend less time manipulating data, building models, producing results

HIGHLIGHTS

- > Nonlinear mixed effect modeling
- > Extensive library of population PK/PD models
- > Estimation algorithms for sparse and for rich data sets
- > Fitting optimization methods can use maximum likelihood or restricted maximum likelihood
- > Diagnostic and goodness of fit statistics including Akaike's Information Criterion, Schwarz Bayesian Criterion, and Likelihood Ratio Tests
- > Simultaneous fitting of explicit functions and differential equations, including simultaneous PK/PD fittings with different error models
- > Exploratory data analysis tools
- > Presentation quality graphics
- > Powerful Tables/Reports tools
- > Descriptive statistics module
- > Readily specify custom models and easily add covariates using the Equation Builder
- > Native support for Excel files and ODBC access to other file formats such as SAS®
- > Query Builder providing step-by-step building of SQL queries
- > Custom Query Builder wizard for access to LIMS™ and other data sources

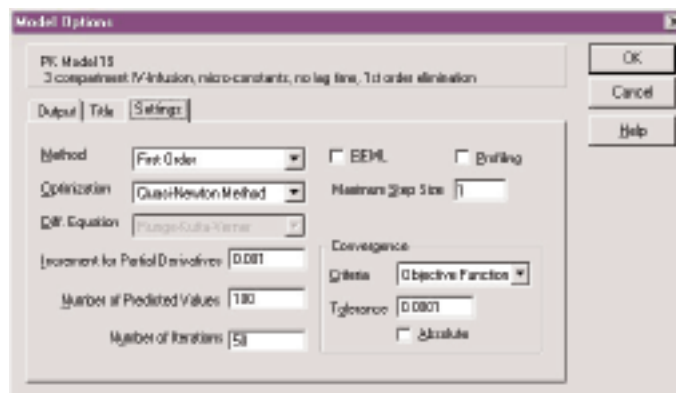
POPULATION PK/PD (MIXED-EFFECTS) MODELING

WinNonMix is a powerful program to estimate the parameters in a nonlinear PK/PD model, approximate the distribution of those parameters in a population, and estimate fixed and random effects in the model using information contained in a set of observed data. WinNonMix is particularly useful with sparse data, when only a few measurements are available for each individual within a population. Users can estimate the influence of covariates such as demographic and environmental factors, and random effects or unattributed sources of variability on response variables such as plasma concentration or PD response. Several estimation algorithms are currently provided: the first-order conditional method of Lindstrom and Bates can use either maximum likelihood or restricted maximum likelihood estimation. Options to choose first-order maximum likelihood and generalized least-squares methods are also provided. When using rich datasets, a two-stage approximation method is available. Two editions of WinNonMix are available: Pro and Enterprise.



WORKSHEETS – INPUT AND OUTPUT MANAGEMENT

WinNonMix uses Excel compatible worksheets for all input and output data. You can create and/or modify data using familiar formulas and functions. Import and export of ASCII and Excel files, cut, copy and paste within and between data files, the ability to exclude data points and to indicate missing data are a few of the powerful editing features. The worksheet interface also provides easy to use analysis capabilities, such as automatic transformations, merging of data sets and data sorting.



RECOMMENDED REQUIREMENTS

- > **Processor:** Pentium® II 266 MHz or better
- > **OS:** Windows® 98, Windows 2000 or Windows NT 4.0 (with NT Service Pack 3 or later applied), Windows XP
- > **Memory:** 256 MB RAM
- > **IMPORTANT:** A Fortran compiler is required and is not included with WinNonMix. Supported compiler versions are Compaq® Visual Fortran version 6.0 and higher
- > **Hard Disk:** 70 MB

INTEGRATED SOLUTIONS

Pharsight Corporation provides an integrated suite of products and services including:

- > WinNonlin® Pro/Enterprise
- > WinNonMix® Pro/Enterprise
- > Pharsight® Trial Simulator™
- > Pharsight® Knowledgebase Server™
- > PKS Reporter™
- > Drug Model Explorer™
- > Product and Methodology Training
- > Analysis/Reporting Automation

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For additional information

contact the Pharsight sales department at 888-708-7444 (650-314-3800 outside U.S.). Or visit our web site at <http://www.pharsight.com>

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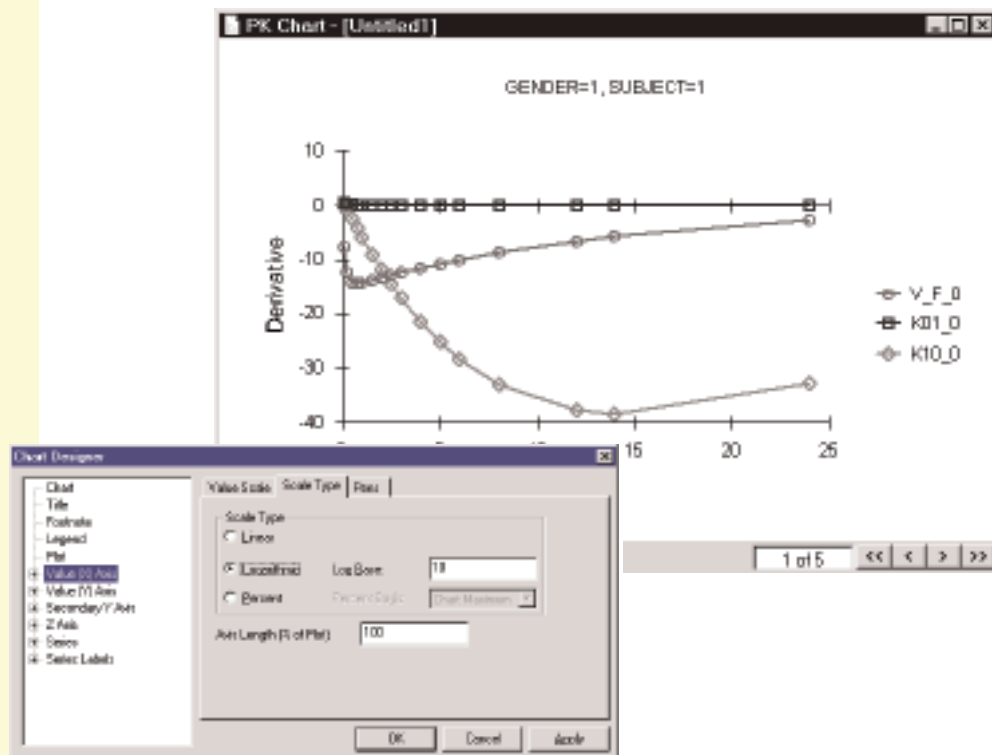
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This information applies to WinNonMix version 2.0

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PRESENTATION-QUALITY GRAPHICS

Several different kinds of high-resolution plots can be created and these plots can be viewed on the screen or printed to any Windows supported device. Mixed effects modeling and simulations produce charts automatically. The ability to include error bars, load and save graph templates, produce overlaid graphs, and drag and drop chart elements within the chart window are some of the formatting features. Graphics can be saved to a variety of file formats (JPG, WMF, BMP).



DATA CONNECTIVITY

The Enterprise Edition of WinNonMix provides direct connectivity to a variety of data sources, including relational databases, such as Oracle®, SAS data sets, and custom interfaces for commercial and home grown LIMS products through flexible query builder wizards. Users can connect to ODBC-compliant databases for importing and exporting data sets used and/or created within WinNonMix. A Custom Query Builder for the InnaPhase Watson LIMS database is included along with a Software Development Kit to allow customization and construction of new Query Builders.