Pirana™ 3.0/RsNLME 1.0

Release Notes

February 2021

February 2021: Added item QC 13
December 2020: Pirana 3.0/RsNLME 1.0 release

Contents

Certara® Contact Information

Technical support

Consult the software documentation to address questions. If further assistance is needed, contact Certara Support through e-mail or our support portal.

E-mail: support@certara.com
Web: https://certara.service-now.com/csm

For the most efficient service, e-mail a complete description of the problem, including copies of the input data.

User forum.

Get tips and discuss Certara software with other users:
https://support.certara.com/forums

Pirana 3.0/RsNLME 1.0 Updates

Bootstrap run mode is now functioning properly with RsNLME 1.0 Hotfix 1 (QC 13): Changes made in the NLME executables to resolve an issue in RsNLME 1.0 subsequently broke the bootstrap Run mode. With the executables included in RSNME 1.0 Hotfix 1, the Bootstrap run mode is no longer broken.

What's New in Pirana 3.0

Integration of RsNLME into Pirana

Integration with RsNLME allows NLME models to be built, executed, and the results explored from within Pirana. It also allows Pirana users that are unfamiliar with Phoenix to construct NLME models using a graphical interface and workspace browser.

Six base model types with extensive configuration options available in Model Builder GUI

Users can select from PK, Emax, PK/Emax, PK/Indirect, Linear, and PK/Linear model types, and for each, can further customize the model to their needs with generic and/or model type specific options. While this covers an extensive range of model specification options, any model can be edited in text mode for full flexibility and customization.

Seven model run modes offered by RsNLME

Basic templates for Simple, Scenarios, Covariate Search-Stepwise, Covariate Search-Shotgun, Bootstrap, and Visual Predictive Check and Simulation models are included in RsNLME.

New R packages

The following R packages provide the tools for building and executing NLME results and graphing the NLME results.

- Certara.ModelBuilder to build NLME models from R-Shiny GUI. Users can generate corresponding Certara.RsNLME code based on operations performed in the Shiny GUI.
- Certara.ModelExecutor to execute NLME models from R-Shiny GUI.
- Certara.RsNLME to build NLME models from R command
- Certara.NLME8 to execute NLME models from R command line
- Certara.Xpose.NLME for NLME model diagnostics via Xpose

RsNLME GUI synced with displayed model code

Instantly see changes in the model code as GUI settings are modified. You do not need to know the PML (Pharmacometrics Modeling Language) to create NLME model code, however, the synchronization of the GUI with the model code allows you to explore the language.

Automatic code checks for NLME model code

RsNLME automatically checks the NLME model code as it is built and immediately alerts you to any issues.

Existing PML models can be executed within Pirana using RsNLME

Existing PML models can be uploaded or you can cut and paste PML model code from Phoenix to RsNLME.