

Titulo: Presentación de MonolixSuite 2019, un conjunto de herramientas para análisis no compartimental, análisis poblacional, simulación de ensayos clínicos.

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MonolixSuite is a widely used software for model-based drug development. It integrates tools for data visualization, noncompartmental analysis, non-linear mixed-effect modelling, and clinical trial simulations. Its most powerful assets are computation speed, efficient estimation algorithms and a user-friendly interactive interface. Although it is a commercial software developed by Lixoft, it is important to underline that MonolixSuite remains free for teaching and academic research. I will present a step-by-step pharmacokinetics-pharmacodynamics modelling workflow with MonolixSuite, including how to set-up a model, estimate parameters, diagnose the model with statistical tests and diagnostic plots, get a guidance for efficient model building and finally compare different treatments and different study designs using clinical trial simulation. Participants who have previously installed Monolix (<http://lixoft.com/downloads/>) on their laptop will be able to reproduce what I will present in real time.