In silico trials:



Avicenna Alliance Association for Data Driven Medicine

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Medical Challenge

- Predicting the behavior of a new pacemaker on different patients
- Reduce the number of implants of non approved device on patients
- Time and cost-effectively assess the innovation

In Silico Solution

- Creating a validated computer model of the pacemaker and the heart
- Include human variability in the model to demonstrate the quality of the solution for the target population
- Get the system model approved by regulatory authorities

Policy Relevance

- · Address additional regulatory questions faster
- · Release new treatment to patient 2 years earlier
- Improved reliability and patient safety
- Facilitate medical innovation including for smaller companies



https://avicenna-alliance.com/files/user-upload/Conference 2018/materials/International Avicenna Alliance Conference Report - 4 Sept. 2018 final .pdf

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