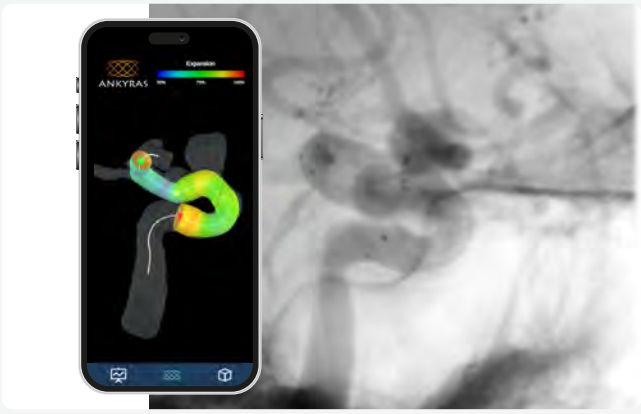
Ankyras

Braided Device Sizing Support Application

Ankyras is a cloud solution intended to assist healthcare professionals in the selection of flow diverter for treating intracranial aneurysms. The solution provides simulated results in a user-friendly interface that promotes communication between healthcare professionals to support and simplify the decision of optimal device selection.

LEARN MORE



Ankyras predicts the device foreshortening for patient-specific aneurysm treatment planning with a 94% accuracy, utilizing the patient's anatomical information and the device's design parameters.

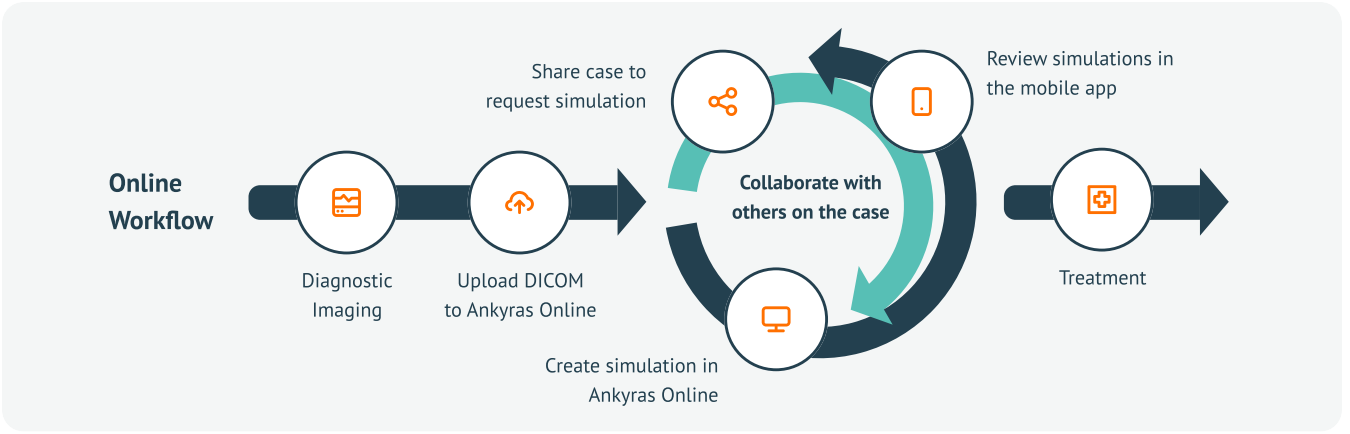
Ankyras quantifies the morphology of the local patient anatomy and simulates flow diverter implantation allowing the prediction of the device's final position, the changes in the braided device geometry, and geometrical characteristics after placement, such as the radial expansion and the local surface porosity.

Features & Benefits

Key Benefits

Accurate visualization of device foreshortening and final position	Ability to share simulation through online portal, enabling collaboration between physicians and device manufacturer	Easy selection of the best suited device and its distal position for the best possible flow diversion effect
Assessment of stent-wall apposition and local porosity to allow for detailed investigations of different flow diverters	Flow diverter telescoping functionality for complex cases	Vessel morphology characterization of the aneurysm region

	Desktop	Online	Mobile
Description	**Local software installed on your computer**	**Login to Ankyras Online in your web browser**	**Mobile app installed on your smartphone or tablet**
Internet requirement	**No**	**Yes**	**Yes**
View Simulation	✓	✓	✓
Create & edit simulation	✓	✓	
Share Simulation	—	✓	✓



Features & Benefits

Morphology: Ankyras measures the morphology considering the 3-dimensional space, providing a detailed analysis of the changing diameter values over the artery, and the segment length to be treated.

Sizing: Simulate the desired flow diverters with a unique foreshortening algorithm and compare the results among different sizings to predict which are the most suitable for the patient

Expansion: Select a flow diverter with good apposition to the vessel wall thanks to the expansion representation over the device surface and the expansion chart

Porosity: Ankyras predicts the local porosity of the flow diverter after implantation, to support evaluation of the final coverage in the desired region

Telescoping: Simultaneously simulate multiple flow diverters to assess whether a telescoping technique suits the patient-specific anatomy

Devices: A selected portfolio of commercially available devices is customized based on the user's institution

94%

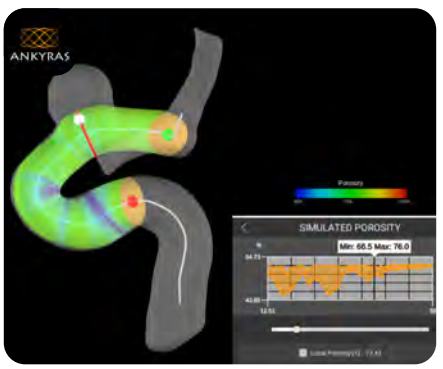
accuracy in final flow diverter length and proximal landing position

90%

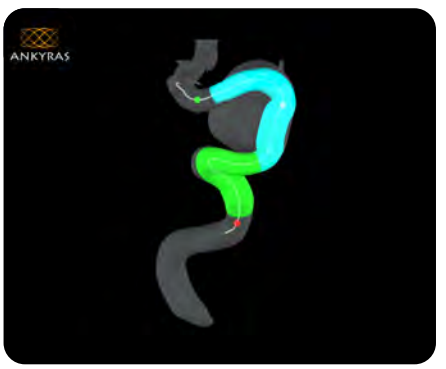
accuracy in flow diverter wall apposition and local porosity

Read more in Ankyras Clinical Research & Publications →

Morphology analysis



Assessment of stent-wall attachment and local porosity



Telescoping functionality