Predicting the myocardial and vascular response of aortic valve intervention by novel imaging science and computational methods

Professor Dr.med. Titus Kühne

Heart valve disease affect children as adults and have reached almost endemic features in the increasingly aging population. The question whether, when and how patients should be treated, can often not be answered satisfactorily with current diagnostic tools. The combination of functional imaging, multi-system modeling and digital health opens fascinating new possibilities to predict the effects of a therapy on myocardial and vascular function for a given patient. Titus Kühne, director of the new Charité Institute for Computational Modelling and Imaging Science reports about the outcome of several European Multicenter studies.

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