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**WORKSHOP ON INTRACARDIAC FLOW DYNAMICS**

**The Role of the HyperDoppler Technique**

**PADUA UNIVERSITY**

**Department of Cardiac Thoracic Vascular Sciences and Public Health**

**June 23-24, 2022**



This workshop focuses on current role and perspectives of the ultrasound evaluation of intracardiac flow dynamics. Technical aspects and clinical applications of current ultrasound technology, including HyperDoppler, will be discussed by an international working group. Area of future developments and cooperative projects will be identified. The workshop will be conducted with a hybrid format, including on-site and on-line participation.

**DAY 1 – June 23rd**

13:30-14:00 **Registration**

14:00-14:15 **Introduction**

**14:15-16:00 Session I**

14:15-15:00 Fluid dynamics in cardiology

15:00-15:30 Overview on clinical applications of vortex analysis

15:30-16:00 General discussion

16:00-17:00 **Coffee break** with practical sessions with HyperDoppler

**17:00-18:30 Session II**

17:00-17:30 Our experience with HyperDoppler

17:30-18:00 Vortex analysis: past, present and future

18:00-18:30 General discussion

20:00 **Social Dinner**

**DAY 2 – June 24th**

09:00-09:30 **Lecture** - Non-ultrasound techniques for intracardiac flow dynamics: 4D flow

09:30-11:00 **Round table** - The future of ultrasound evaluation of intracardiac flow dynamics

Topics: technical developments, potential clinical applications, areas of clinical and experimental research, proposals for cooperative projects.

11:00-11:30 **Coffee break**

11:30-12:30 Clinical cases and examples of vortex flow analysis

12:30-12:45 Conclusions

12:45-13:30 **Light lunch**