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From flow signal acquisition to incorporation into computerized clinical decision systems for human respiratory support

Dr Philippe Jovet

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The development of Information Technology tools in support of the different professional sectors is carried out in all the fields of activity of our society and health is one of them. Gas flow measurement is routinely performed in the management of mechanically ventilated patients in critical care units. Flow accuracy has been improved with time, integrated into respirators, transmitted to electronic medical devices and is now used in algorithms for the automatic management of respiratory support. This presentation summarizes the current knowledge from signal acquisition to the use of computer tools to provide clinical decision support to caregivers using flow measurements.



Dr Philippe Jovet obtained his MD in 1989 at Paris V University and MD speciality in Pediatrics and MD subspeciality in Intensive Care at Paris V University in 1991. He completed a PhD in 2001 at Paris VII University and a Master in Business Administration in 2004 at Paris VII University. He joined the pediatric intensive care unit of Sainte Justine Hospital in Montreal, in 2004. Dr Philippe Jovet is full professor in Pediatrics at the University of Montreal, director of the Innovative Platform and scientific director of the Health Technology Assessment Unit of Sainte Justine Hospital. He is clinician researcher with a salary award for research from Quebec Public Research Agency (FRSQ), Quebec Ministry of Health and Ste-Justine Hospital. Dr Philippe Jovet research program is on evaluative research on new technologies in University Hospital including research on artificial intelligence and clinical decision support systems. He has published more than 180 papers in peer reviewed journals, 60 book sections and gave more than 130 lectures in congresses (https://www.researchgate.net/profile/Philippe_Jovet).

Symposium Chairs: Prof. J. Favier (Julien.Favier@univ-amu.fr) & P. Micheau (Philippe.Micheau@USherbrooke.ca)

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