



## INFLUENCE OF ADMINISTRATION OF ANTITHROMBIN CONCENTRATE IN CHILDREN ON HEPARIN INFUSION RATE DURING EXTRACORPOREAL MEMBRANE OXYGENATION E. Jouhanneau<sup>1</sup>, J. Rambaud<sup>2</sup>, A. Fratta<sup>1</sup>, F. Hernandez<sup>1</sup>



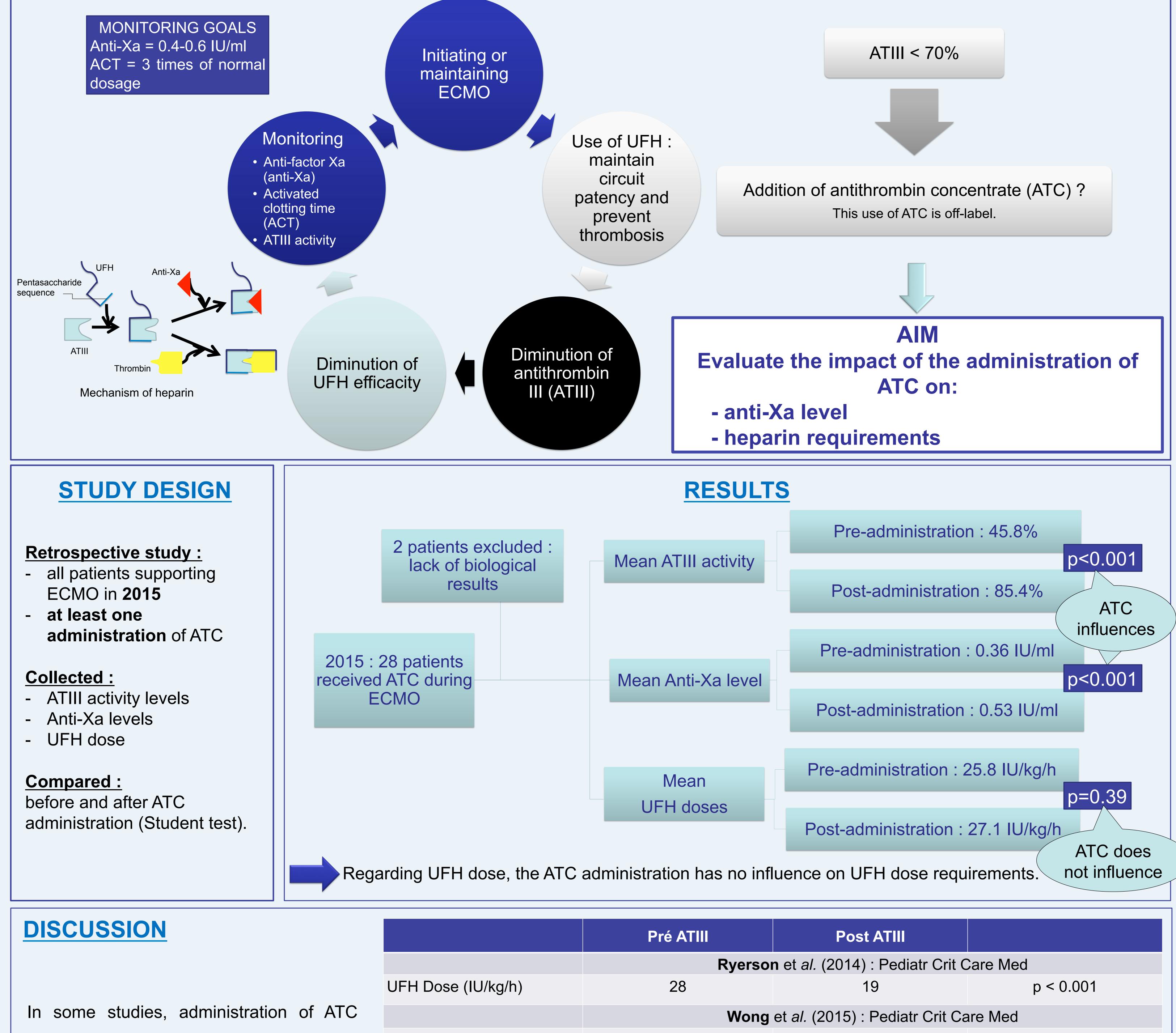
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## **OBJECTIVES**

During extracorporeal membrane oxygenation (ECMO), the risk of thrombosis is important due to the non biological surfaces of the circuit.



decreased UFH dose requirements and in

32.6 p < 0.001

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other studies no difference was found in		Byrnes et al. (2014) : ASAIO Journal		
heparin infusion rate.	UFH Dose (IU/kg/h)	30.4	31	p = 0.245
		Niebler et al (2011) : Artificial Organs.		
	UFH Dose (IU/kg/h)	26	24	p <0.0001

42.7

## **CONCLUSION**

ECMO is a common procedure associate with an off-label use of ATC. In this study, ATIII levels and anti-Xa levels increase significantly after ATC

administration but the UFH doses were not changed after ATC. This study could enable us to review our anticoagulation protocol during ECMO

particular by decreasing UFH requirement. Future prospective studies are warranted to evaluate the benefits of antithrombin replacement.

UFH Dose (IU/kg/h)

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