A703 - Renal replacement therapy with the oxiris filter decreases inflammatory mediators and improves cardiorenal function in septic patients better than cvhdf. A cohoort study and a propensity – matched analysys.

F Turani¹; S BUSATTI¹; S MARTINI¹; M FALCO²; F GARGANO²; R BARCHETTA²; L WELTERT³; F LEONARDIS⁴
¹AURELIA HOSPITAL, Anesthesia and Intensive Care, Rome , Italy, ²EUROPEAN HOSPITAL, Anesthesia and Intensive Care, ROME , Italy, ³EUROPEAN HOSPITAL, CARDIAC SURGERY, ROME , Italy, ⁴UNIVERSITY OF TOR VERGATA, Anesthesia and Intensive Care, ROME , Italy

Introduction:
Objective Renal replacement therapy( RRT ) with the OXIRIS filter is used in sepsis septic shock with AKI , but few clinical studies compare the adsorbing effect of Oxiris filter on the inflammatory mediators to RRT. The aim of this study is 1- to confirm whether oxiris decreases cytokines and procalcitonin in sepsis septic shock . 2- This effect is superior to RRT . 3- This translates in a better cardio renal response.

Methods:
A cohoort study and a propensity – matched analysys included 73 patients admitted to three Intensive Care ( Aurelia Hospital , European Hospital , Tor Vergata – Rome ) with a diagnosis of septic shock . 50 patients were submitted to RRT with oxiris filter and 23 patients to RRT . Il 6 , Procalcitonin , the cardiorenal indices and SOFA score were compared before ( T0 ) and at the end of the treatments ( T1 ) .All data are expressed as mean±sd. ANOVA one way was used to compare the changes of the variables in the time. P< 0,05 was considered statistically significant.

Results:
Of 50 patients submitted to RRT with the oXiris filter 32 could be matched to 22 septic patients who received RRT. IL6 and Procalcitonin decreased in the Oxiris group ( p< 0,01 ) but not in the RRT group . MAP increased ( p< 0,01 ) and noradrenaline dosage decreased in oxiris group ( p< 0,01 ) , but non in RRT group. Also PaO2/ FIO2 ratio , diuresis , SOFA improved only in the in the oxiris group (p<0,05 ).

Conclusion:
In sepsis / septic shock patients with AKI , IL6 and procalcitonin decrease more in the oXirs group then in the RRT group . This is associated with an improvement of the cardio - renal function and the clinical condition . The study confirms that RRT with oXiris filter may be useful in sepsis / septic shock when other convective / diffusive techniques fail.

References:
- C642