A418 - IgM enriched immunoglobulins as adjunctive treatment to antimicrobial therapy for patient on septic shock

A Corona¹ ; A Veronese¹ ; C Soru² ; F Cantarero¹ ; S Santini¹ ; I Cigada¹ ; G Spagnolin¹ ; E Catena¹

¹ASST Fatebenefratelli Sacco, PO SACCO - Milano, ICU Department, Milano, Italy, ²ASST Fatebenefratelli Sacco, PO SACCO - Milano, ICU Department, Milano, Italy

Introduction:
Sepsis is responsible of both an immune hyperactivity damage from inflammation and an immune suppression and paralysis. A few studies support the role of IgM enriched immunoglobulins G as adjunctive of antimicrobial treatment (1).

Methods:
Case-control prospective study. Since 12/2016 to 11/2017, patients experiencing a septic shock - admitted with a first 24h SAPS II > 25, associated with a SOFA-score > 4 – underwent treatment with IgM-e-IG, given for three days at the total dosage of 500 mg/kg. The therapy response was based on clinical, microbiological and rheological data. All cases were 1:1 matched with analogous controls.

Results:
Over the study period 17 patients [cases, median age 50 (49-62),] experiencing severe infection (peritonitis, meningitis, community acquired pneumonia and UTI) and in septic shock, were recruited and treated with IgM enriched IgG (Pentaglobin) and matched with specific controls. No differences were found in basic patients characteristics but in median (IQR) SAPS II, little bit higher in cases [56 (43-67) vs. 46 (35-61), p=0.464]. No differences were found in the trend of the 1st 72 hrs in WBC, PCT, CRP, Lactate and PLT, even though SOFA score decreased significantly more in cases [-4 (-5;-2) vs. -1.5 (-2;-0.5), p=0.015]. 28th day survival was 100% in cases and 75.5% in controls (Log Rank = 1.93, p=0.165. VLAD (variable life adjusted display) showed 4.48 more lives saved than those expected by SAPS II for cases than controls (0.77), despite a similar SMR (p=0.419).

Conclusion:
Reduced mortality may be supposed to be correlated to a quicker recovery of organ damage sepsis related. PCRTs should be warranted in the future to corroborate these preliminary data.

References: