

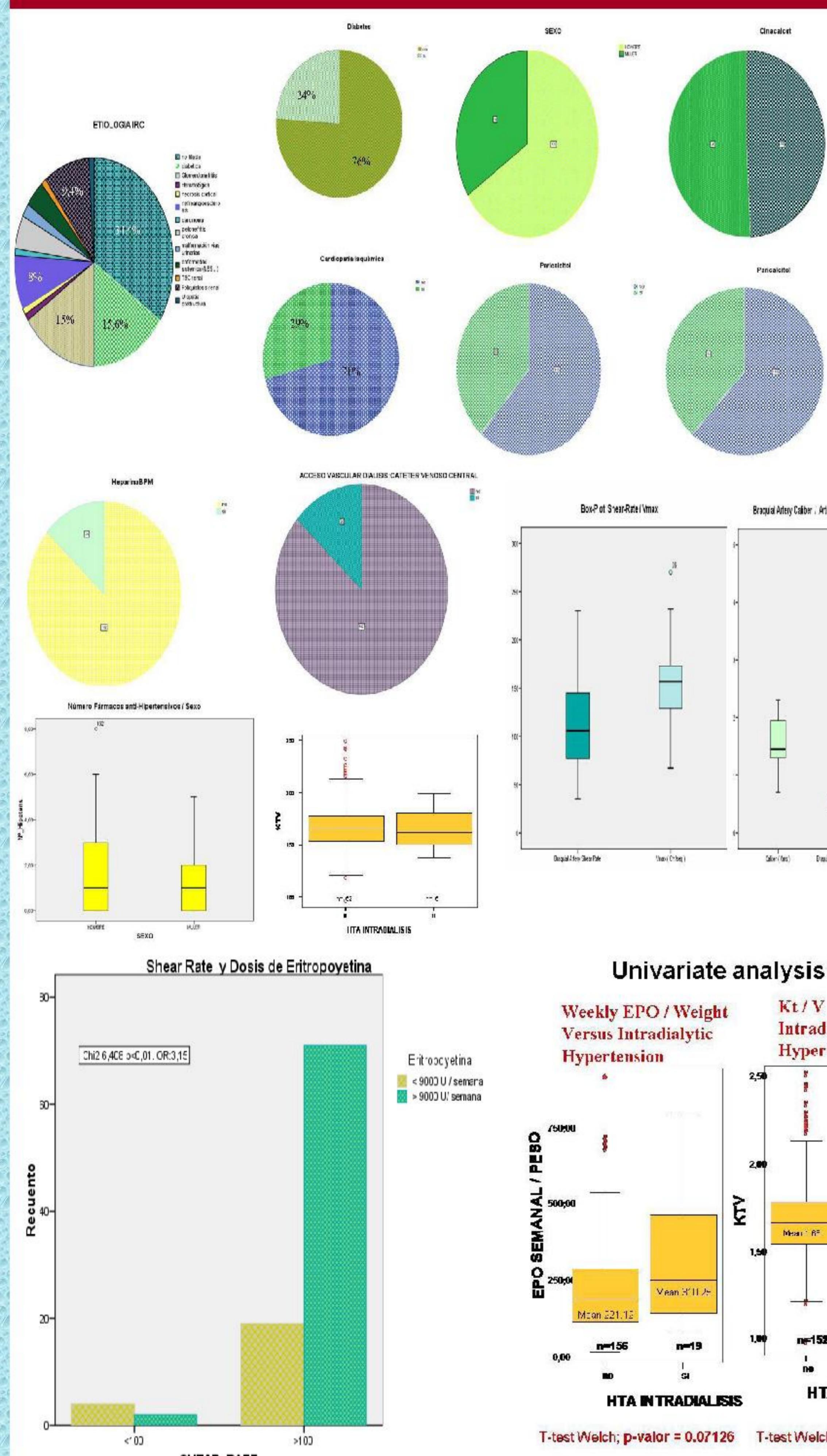
HYPERTENSION AND ERYTHROPOEITIN RESISTANCE. MULTIVARIATE EXPLANATORY FACTORS ANALYSIS

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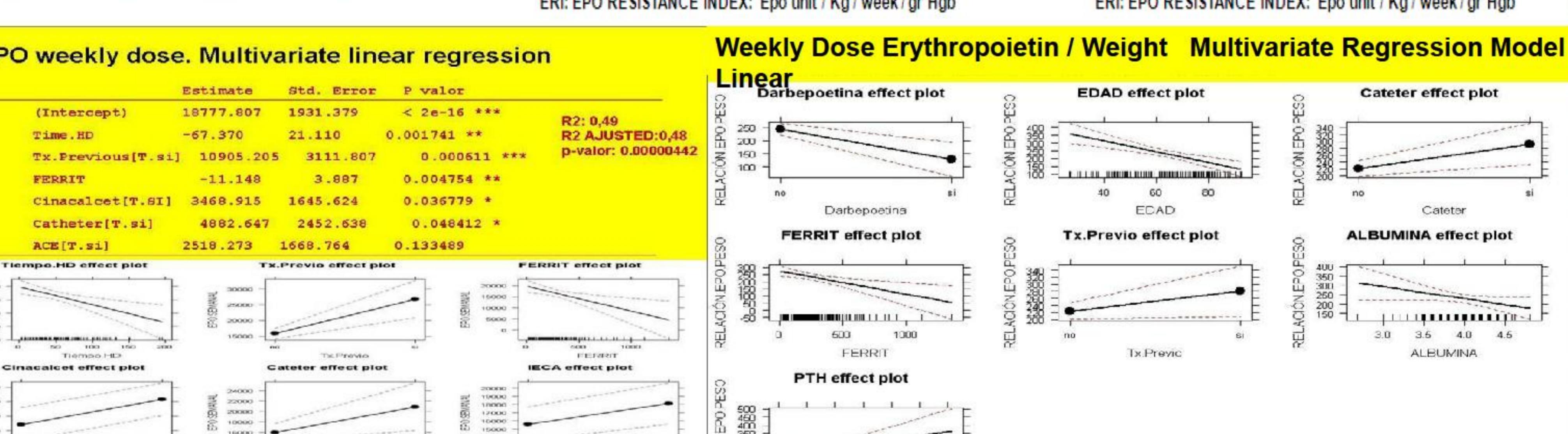
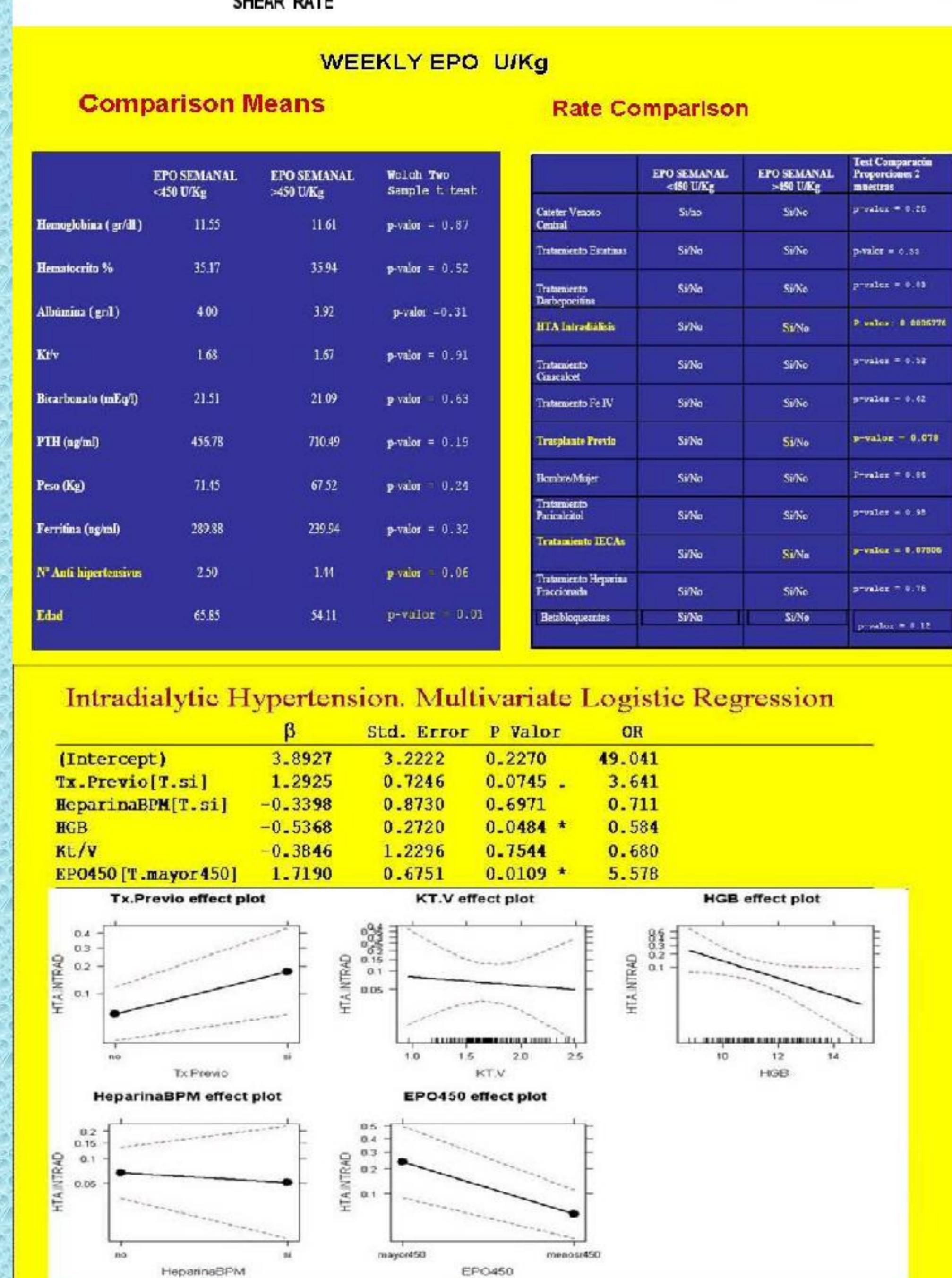
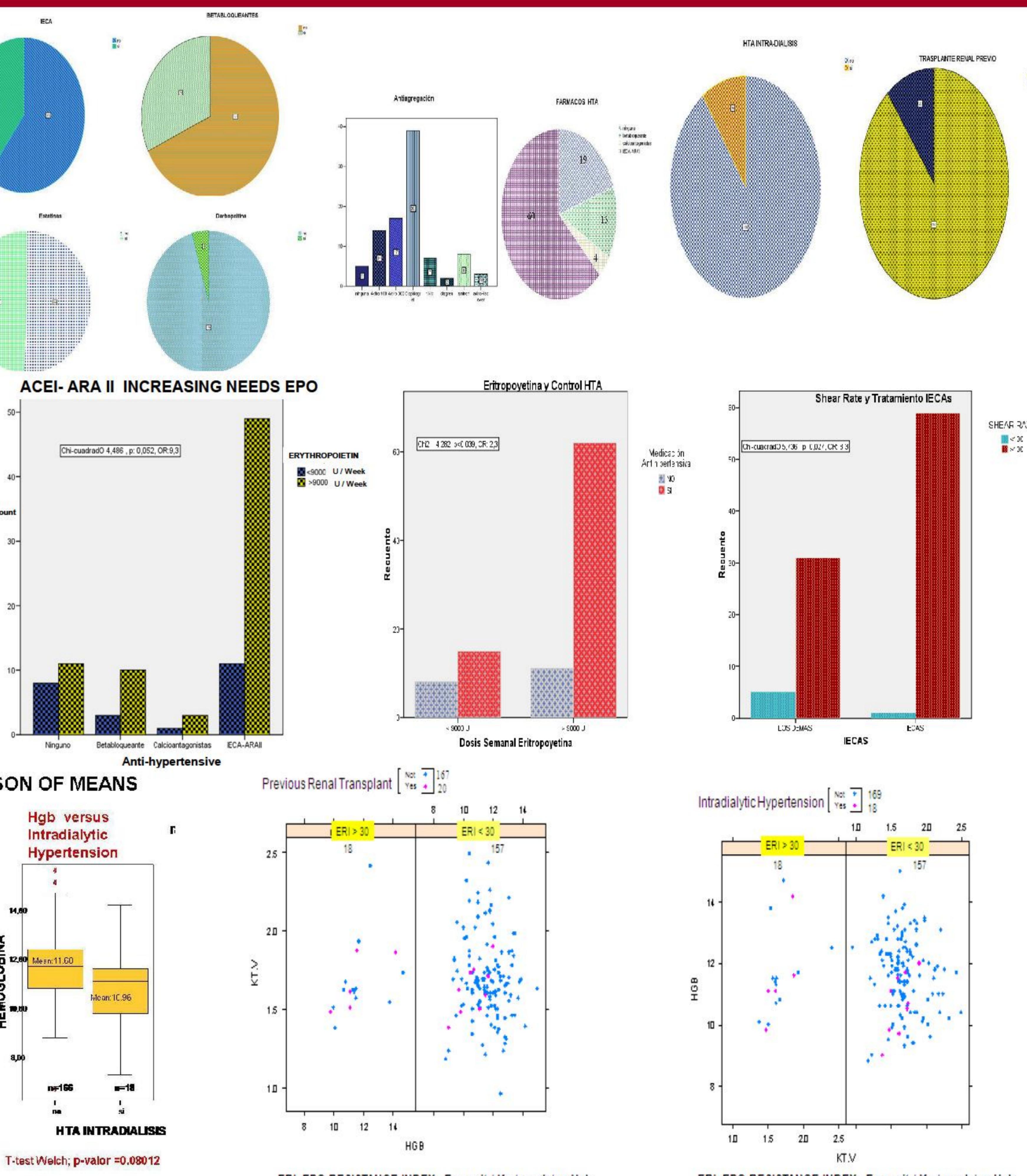
Introduction: Intradialytic hypertension can be defined as the increase in mean arterial pressure ≥ 15 mmHg that appears in the 2nd-3rd hour of hemodialysis and that does not diminish with Ultrafiltration. In hypertension in hemodialysis patients involved include volume overload, increased cardiac output, stimulation of the renin-angiotensin system, sympathetic nervous system activation, electrolyte changes that occur during hemodialysis, the increase in blood viscosity after ultrafiltration, and elimination of antihypertensive drugs through the dialyzer. Treatment of anemia with Erythropoietin is associated with increased peripheral vascular resistance increased hematocrit, increased plasma levels of endothelin and decreased nitric oxide synthesis, stocks that worsen hypertension control.

Patients and Methods: We studied 187 patients with CRF-V in hemodialysis with a pattern of 4 hours / session / 3 sessions a week. Analyzed: age, sex, months on hemodialysis, PTH, albumin, ferritin, Baking, weekly Erythropoietin dose / weight, and type of EPO, Hct, Hgb, Ab treatment. Folic Cinacalcet, paricalcitol, statins, type of heparin, if they had central venous catheter for vascular access, Kt / V, type and number of antihypertensive drugs, previous renal transplantation. In 20 patients after hemodialysis were measured in the brachial artery of the arm of the fistula by Doppler ultrasound, caliber, blood velocity, blood flow, and shear rate estimated as the ratio between speed and size of the vessel, considered shear rate, weekly doses of EPO and intradialytic hypertension as dependent variables. We used for statistics SPSS 15 and R-RComander. Univariate analysis was first performed by Chi2 test with risk analysis, mean comparison and multivariate binary logistic regression and multiple linear regression .

RESULTS



RESULTS



CONCLUSIONS

- Having previously had a kidney transplant increases the risk of intra-dialysis hypertension more than 3 times in relation to those who have never been transplanted, controlling for other variables in the model. p: 0.04
- EPO dose > 450 U / kg / week is a risk factor for developing hypertension intradialytic multiplying its risk by 6 times in relation to patients at doses of EPO <450 U / kg / week, controlling for other variables. p: 0.01
- The serum hemoglobin level and the dose of dialysis as measured by Kt / v protective factors that higher Hgb level and Kt / v decrease the risk of developing hypertension during dialysis by 42% and 32% respectively. p: 0.04 and p: 0.75
- Anticoagulation during hemodialysis session with Low Molecular Weight Heparin is a protective factor that reduces the risk of intra-dialysis hypertension by 39% compared to the use of Heparin Sodium. p: 0.69

CONCLUSIONS

