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Adjusting the loading dose of Magnesium sulfate in preeclampsia according to BMI, serum level of creatinin and albumin

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Abstract:

To determine the therapeutic dose of Mg according to BMI, serum level of calcium, creatinin and albumin a cross sectional study were carried on 150 cases of preeclampsia (100 mild, 50 sever type) in Valei-Asr Hospital through the years 1378-79. All of eligible patients had given a single dose of 4 gr Mg, sulfate intravenously, then had continued with 20 gr/lit, 28 drop/min through IV infusion. Mild and sever preeclampsia cases were similar about the mean serum level of calcium and Mg. Before beginning of treatment, but were significantly different about the mean of serum level of creatinin and albumin (P=0.0001). In univariat analysis there was significant direct correlation between serum level of Mg 6 hours after beginning of treatment with serum level of creatinine and albumin, and significant association with BMI (P<0.05). So the serum level of Mg in end of treatment, (P<0.05) in multivariate regression analysis, the serum level of Mg in 6 hours after and end of treatment was correlated positively with serum level of creatinine and albumin and negatively with BMI. Serum level of Mg 6 hours after=-0.2+0.8 (Alb. Level) +2.99 (creat level) –0.22 (BMI). Serum level of Mg in end of treatment=-0.2+0.8 (Alb. Level) +3.3 (creat level) –0.24 (BMI).

Keywords:

Serum Mg ، Ca serum ، Alb serum ، Cr serum

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