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Effect of cotoneaster tricolor pojark manna on serum bilirubin levels in neonates

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Abstract

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The effect of Cotoneaster discolor pojark manna known as Shirkehshet in Iran (a remedy used in traditional medicine for the treatment of neonatal jaundice) in a double blind placebo controlled trial in subjects with neonatal jaundice was evaluated. One hundred and four neonates (50 and 54 in case and control groups, respectively) with jaundice who had bilirubin level of 18-29 mg dL⁻¹ were included in the trial. Newborns with weight less than 2.5 kg, renal failure, systemic infectious diseases, prior use of Cotoneaster manna, high bilirubin level who required transfusion were not included in the study. Patients received either a single dose of manna (6 g) or placebo (starch in distilled water, 0.1%) in the first hour of trial in addition to phototherapy. The bilirubin level was determined in blood samples every 12 h until bilirubin level reduced to less than 15 mg dL⁻¹ and 24 h after phototherapy discontinued. Phototherapy was discontinued when bilirubin levels fell below 15 mg dL⁻¹. The results indicated that the bilirubin level drops from 23 mg dL⁻¹ on the first day of trial to 14 mg dL⁻¹ on third day of trial in both case and control groups in a similar manner. Therefore, it could be suggested that the administration of Cotoneaster manna did not have any effect on bilirubin level providing no basis for use of the drug in neonate jaundice. © 2006 Asian Network for Scientific Information.

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Author keywords

Bilirubin level; Cotoneaster discolor manna; Neonatal jaundice

Indexed Keywords

EMTREE drug terms: bilirubin; Cotoneaster tricolor extract; mannan; placebo; plant extract; starch; unclassified drug

EMTREE medical terms: adjuvant therapy; article; bilirubin blood level; clinical trial; controlled clinical trial; controlled study; Cotoneaster tricolor; double blind procedure; drug mechanism; drug use; human; Iran; major clinical study; newborn; newborn jaundice; phototherapy; Rosaceae; single drug dose; treatment withdrawal

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