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Effect of oral garlic on arterial oxygen pressure in children with hepatopulmonary syndrome

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Abstract

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Aim: To study the effect of oral garlic on arterial oxygen pressure in children with hepatopulmonary syndrome. **Methods:** Garlic powder in a capsule form was given to 15 children with hepatopulmonary syndrome (confirmed by contrast echocardiography) at the dosage of 1 g/1.73 m² per day. Patients were evaluated clinically and by arterial blood gas every four weeks. **Results:** The garlic capsule was administered to 15 patients with hepatopulmonary syndrome. There were 10 boys and 5 girls with a mean age of 9.4 ± 3.9 years. The underlying problems were biliary tract atresia (4 patients), autoimmune hepatitis (4 patients), cryptogenic cirrhosis (4 patients) and presinusoidal portal hypertension (3 patients). Eight patients (53.3%) showed an increase of 10 mmHg in their mean arterial oxygen pressure. The baseline PaO₂ was 65.6 ± 12.1 mmHg in the responder group and 47.1 ± 11.2 mmHg in non-responder group. At the end of treatment the mean PaO₂ in responders and non-responders was 92.2 ± 7.75 mmHg and 47.5 ± 11.87 mmHg, respectively (P < 0.01). **Conclusion:** Garlic may increase oxygenation and improve dyspnea in children with hepatopulmonary syndrome. © 2006 The WJG Press. All rights reserved.

Reaxys Database Information

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Author keywords

Arterial oxygen pressure; Garlic; Hepatopulmonary syndrome; Pediatric

Indexed Keywords

EMTREE drug terms: garlic extract

EMTREE medical terms: adolescent; arterial oxygen tension; article; autoimmune hepatitis; bile duct atresia; child; clinical article; contrast echocardiography; controlled study; disease duration; drug capsule; drug dose regimen; drug mechanism; dyspnea; female; hepatopulmonary syndrome; human; liver cirrhosis; liver transplantation; male; oxygenation; portal hypertension; powder; scoring system; statistical analysis; statistical significance

MeSH: Administration, Oral; Adolescent; Child; Child, Preschool; Female; Garlic; Hepatopulmonary Syndrome; Humans; Infant; Male; Oxygen; Phytotherapy; Powders
Medline is the source for the MeSH terms of this document.

Chemicals and CAS Registry Numbers: Oxygen, 7782-44-7; Powders

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