论著

应用二氧化碳进行结肠镜检查的安全性与有效性评价

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目的:评价应用二氧化碳(CO2)进行结肠镜检查的安全性与有效性。方法:将349例患者随机分成CO2 组(n=174)和空气组(n=175),分别注入CO2或空气进行结肠镜检查。在结肠镜检查前、检查中及 检查后测量患者呼气末二氧化碳分压[p(ET CO2)],以了解体内CO2潴留情况。采用视觉模拟评分量 表(VAS)对结肠镜检查结束时及检查后1,3,6和24 h腹痛严重程度进行评分。结肠镜检查前、检查 中不常规应用镇静剂与镇痛剂。结果: CO2组与空气组在平均年龄、性别构成、结肠镜检查操作时间及到 达回盲部百分率等方面的差异无统计学意义(均P>0.05)。两组间结肠镜检查中及结束后各时间点的p(ET CO2)值均无统计学差异(均P>0.05),但CO2组在结肠镜检查结束后各个时点的平均VAS分值较空气组 均明显降低(均P<0.05)。CO2组检查后1,3,6和24 h腹痛VAS分值为O者的百分率明显高于空气组 (均P<0.01)。结论:注入CO2进行结肠镜检查既不会引起患者CO2潴留,又能明显减轻腹痛。因此它 是一种安全有效的检查方法。

关键词 结肠镜; 二氧化碳; 临床随机对照试验; 腹痛

分类号

Safety and efficacy of carbon dioxide insufflation during colonscopy

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ObjectiveTo assess the safety and efficacy of carbon dioxide (CO2) in colonoscopy examination. MethodsWe randomized 349 patients to undergo colonoscopy with insufflation of air (n=175) or CO2 (n=174). At colonoscopy, p(ET CO2) was observed at 4 time points: before the exam, arrived caecum, back rectum, and after the exam. Patient's experience of pain in the end and after the examination at 1,3,6, and 24 h was registered using a visual analog scale (VAS). Sedation was not used routinely. Results The groups were similar in age, sex, inspection time, and caecal intubation rate (all P>0.05). There were no significant differences in p(ET CO2) values between the 2 groups before and after the procedure (all P>0.05). VAS scores in the CO2 group at various time points after the examination were significantly lower than those in the air group (all P<0.05). The percent of VAS scores of 0 in the CO2 group after 1,3,6, and 24 h was significantly higher than that in the air group (all P<0.01). ConclusionInjection of CO2 for colonoscopy will not cause CO2 retention, and it may significantly reduce the pain, which is safe and effective.

Key words <u>colonoscopy</u> <u>carbon dioxide</u> <u>randomized controlled clinical trial</u> abdominal pain

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