

Efficacy Observation of Continuous Irrigation and Drainage with Double Cavity Catheter in the Treatment of Brain Abscess: 16 Patients Report

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Abstract

Background: Brain abscesses is of high morbidity and mortality despite medical advances. Today we present a single institution's experience with continuous irrigation and drainage with double cavity catheter in the treatment of brain abscess.

Methods: We retrospectively analyzed 16 cases of brain abscess who underwent continuous irrigation and drainage with double cavity catheter surgical treatment and conjunction with 2 weeks to 4 weeks of intravenous vancomycin and metronidazole in the second hospital affiliated to Nantong university between June 2012 and February 2017. Patients were put in a double cavity tube into the brain abscess cavity. The medical records were analyzed for clinical presentation and outcomes.

Results: Sixteen patients were treated in this group, including 15 were cured and one died of pulmonary infection. Of these patients, 13 were treated and extubated from 6 days to 14 days, 1 patients were 4 days later, 2 patients extubated in 16 days. CT or MRI were reviewed before discharge, 12 cases were fully closed, 4 cases were left with minor residual cavity, and the clinical symptoms of all the patient disappeared. A total of 15 patients were followed up from 3 years to 2 years, and no recurrence of abscess was reported.

Conclusion: Continuous brain abscess cavity irrigation and drainage with double cavity catheter is an effective treatment for brain abscess and gets excellent treatment results. It is easy to operation and reduces the cost and damage to the patient, maybe the optimal choice to treat brain abscess.

Keywords: Brain abscess; Continuous irrigation and drainage; Double cavity catheter

Introduction

Cerebral abscess is caused by the invasion of cerebral parenchyma by the suppurative bacteria, causing the brain tissue to be damaged, forming a lesion containing the abscess and surrounded by fibrous envelope [1,2]. The brain abscess is progressing rapidly, the whole body is poor, the disability rate and the fatality rate are high [3,4]. In our hospital, 16 cases of cerebral abscess were collected from June 2012 to February 2017, and we had a double cavity catheter for drainage. The results are satisfactory and the report is as follows.

MATERIALS AND METHODS

Ethics statement

This research has been approved by the Ethics Committee of the Second Hospital of Nantong University. All patients gave their informed consent before surgery.

accurate treatment are very important for the prognosis of brain abscess patients. We adopt double catheter drainage in the treatment of brain abscesses, it proves its' safe, reliable and consolidate curative effect, but because our operation number is less, limited experience, and need more cases to analyze.

Conclusion

Continuous brain abscess cavity irrigation and drainage with double