Curative effect and costs of surgical and gamma knife treatments on intractable epilepsy caused by temporal-hippocampal sclerosis

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ABSTRACT. This study aimed to investigate the curative effect and costs of surgical and gamma knife treatments on intractable epilepsy caused by temporal-hippocampal sclerosis. The subjects comprised patients who suffered from intractable epilepsy caused by temporal-hippocampal sclerosis and received treatment in the Department of Neurosurgery of our hospital between 2010 and 2011. After obtaining their consent, patients were evaluated and selected to receive surgical or gamma knife treatments. In the surgical group, the short-term curative rate was 92.60% and the average cost was US$ 1311.50 while in the gamma knife group, the short-term curative rate was 53.79%, and the average cost was US$ 2786.90. Both surgical and gamma knife treatments of intractable epilepsy caused by temporal-hippocampal sclerosis are safe and effective,
but the short-term curative effect of surgical treatment is better than that of gamma knife, and its cost is lower.

**Key words:** Temporal-hippocampal sclerosis; Intractable epilepsy; Surgery; Gamma knife