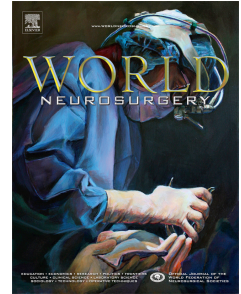


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The role of antibiotic prophylaxis in the clean neurosurgery

YiYao Cao,BS,¹Ke Pu,MD,²Quodong Li,BS¹,XueJiang Yan,MD²Yue Ma,MD,²Kai Xue,MD,²ZhiMing Sun,MD² QingGuo Li,MD²

¹: a Graduate School of Tianjin Medical University, Tianjin 300070, China.

²: Department of Neurosurgery, Tianjin Huanhu Hospital, Tianjin 300350, China

YiYao Cao : E-mail addresses: rxrscyy@126.com

Corresponding author: QingGuo Li,MD Department of Neurosurgery, Tianjin Huanhu Hospital, Jizhao Road, 6#, Jinnan distriction Tianjin 300350, China.

Telephone Numbers: 008613920275287

E-mail addresses: lqg369@126.com

Abstract

Objective To investigate the efficacy of antibiotic prophylaxis (AP) and the risk factors for postoperative infections in clean neurosurgery. **Methods** Data were retrospectively collected on all patients who had undergone clean neurosurgical operation at our institution between January 2009 and December 2014. From January 2009 until October 2011, antibiotic prophylaxis was administered to every clean neurosurgical patient. From November 2011 to December 2014, no antibiotic prophylaxis (n-AP) was prescribed for all clean neurosurgical operations. The efficacy of antibiotic prophylaxis and independent risk factors for infection were studied. **Results** A total of 808 clean neurosurgical cases were included. The AP group comprised 360 surgical cases, including 29 meningitis cases and 2 cases of incision infections, whereas the n-AP group consisted of 448 surgical cases, including 35 meningitis cases and 4 cases of incision infections($P=0.848$). Microorganisms were

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