

Acute EC-IC bypass for ruptured ICA blood blister-like Aneurysms (BBAs)

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Abstract

Internal carotid artery (ICA) blood blister-like aneurysms (BBAs) have fragile aneurysm walls, poorly defined necks and located at the supraclinoid ICA with remarkable tendency of preoperative rebreeding, premature rupture during surgery and enlargement of aneurysmal dome in the acute stage, so surgical treatment is extremely challenging. The authors describe the clinical course of patients with subarachnoid hemorrhage (SAH) caused by ruptured BBAs and emphasize the usefulness of parent artery occlusion (PAO) with or without extra cranial-intracranial (EC-IC) bypass in the acute SAH period. Methods. We analyzed the clinical records of 18 consecutive patients (8 male and 8 female) with a mean age of 56 years (range 29-88 years) treated between January 2005 and December 2016.

Results

All 18 patients presented with SAHs corresponding to World Federation of Neurosurgical Societies Grades I, II, III, IV, and V in 6, 3, 3, 2 and 4 patients, respectively. All surgery was performed in the acute stage but in 4 of 18 cases we cannot identify BBAs immediately after onset. 3 of the 18 experienced preoperative rebreeding, and repeated angiography revealed remarkable enlargement of the aneurysm. 8 patients underwent PAO with bypass, 6 without bypass and 4 underwent interventional aneurysmal coil embolization. The outcome was excellent and postoperative angiography demonstrated complete obliteration of the BBA in 8 patients, good in 6 and dead in 6. Intraoperative premature bleeding from the BBAs occurred in 2 of 9 patients who underwent surgical trapping. Webcast technology which enables broadcast of various events over the internet i.e. online, which can be accessed via single URL by all the participants. Webinars are those internet based events which uses the technology of webcast. Generally, Seminars and learning programs that are arranged through webcast technology are known as webinars. Previously some report anticipated the global webcast and webinar market to expand at CAGR of 7.6% over the forecast period i.e. 2016-2023. The market was valued USD 547 Million in 2015 and is estimated to reach USD 800 Million by 2023.

In addition, online class and webcast significance is developing in enterprises and instructive foundations attributable to rising requirement for cutting edge correspondence and intuitive innovation to give preparing and figuring out how to

remote areas over the globe. Online class empowers the office to join and associate from any remote area with incorporated web offices to the clients. Rising infiltration of shrewd gadgets and developing mindfulness among the well informed populace towards the progressed intuitive innovation are a portion of the components liable to force a positive effect on the development of online courses and webcast showcase in not so distant future.

Conclusions

Ruptured BBAs were successfully treated with PAO during the acute SAH period.

References

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