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A New Type of Spinal Epidural Arteriovenous Fistulas Causes Spinal Epidural Hemorrhage: An Analysis of Five Cases and Natural History Consideration

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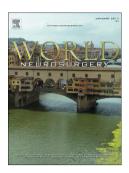
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2 Hemorrhage: An Analysis of Five Cases and Natural History Consideration Jia-Xing Yu, M.D. a*; Tao Hong, M.D. a*; Yong-Jie Ma, M.D. a; Feng Ling, M.D., Ph.D. a; 3 Hong-Qi Zhang, M.D., Ph.D.^a 4 * Equal contributors 5 6 ^aDepartment of Neurosurgery, Xuanwu Hospital, Capital Medical University, 100053 7 Beijing, China 8 **Corresponding author:** 9 Hong-Qi Zhang, M.D.; PH.D., Department of Neurosurgery, Xuanwu Hospital, 10 Capital Medical University, 45 Chang Chun St, Beijing, 100053, China. E-mail: 11 xwzhanghq@163.com 12 **Other Author E-mails Addresses:** Tao Hong: pumcer@163.com; 13 Jia-Xing Yu: 15311435081@163.com; Feng Ling: ling-feng@vip.163.com 14 Yong-Jie Ma: 15001388570@sina.cn; 15 16 **Key words:** 17 Spinal epidural arteriovenous fistula; Spontaneous spinal epidural hematoma; Natural 18 history 19 20 **Abbreviations and Acronyms:** 21 SEDAVF, spinal epidural arteriovenous fistula; SSEH, spontaneous spinal epidural 22 hematoma; DSA, digital subtraction angiography; MRI, magnetic resonance imaging; 23 CT, computed tomography; CCT, costocervical trunk; mALS: modified Aminoff— 24 Logue Scale 25 26 27 28 29

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