

Examples of right-to-left shunting are [congenital cyanotic heart disease](#) and [pulmonary arteriovenous malformations](#) (PAVMs) ^{1) 2)}, which form the basis of current recommendations for prophylactic antibiotics in patients with such conditions and for prophylactic closure of PAVMs ³⁾.

¹⁾

Kawamata T, Takeshita M, Ishizuka N, Hori T. Patent foramen ovale as a possible risk factor for cryptogenic brain abscess: report of two cases. *Neurosurgery* 2001;49:204-206; discussion 206-207.

²⁾

Sung CW, Jung JH, Lee SH, Choi S, Cho JR, Lee N, et al. Brain abscess in an adult with atrial septal defect. *Clin Cardiol* 2010;33:E51-E53.

³⁾

Trerotola SO, Pyeritz RE. PAVM embolization: an update. *AJR Am J Roentgenol* 2010;195:837-845.

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