Residual shunt after percutaneous closure of a patent foramen ovale. Results of a 3-year follow-up study.

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Abstract

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Objectives: to assess residual shunt, adverse events, migraine disability, up to 7 years after a patent foramen ovale (PFO) closure.

Methods: between 2002 and 2009, 87 consecutive patients underwent bubble contrast echocardiography re-study to assess residual right-to-left shunt, 1 year after closure with a CARDIA PFO device. Transcranial doppler was performed at 6 months and at 1 year. Office visits or telephone contacts were obtained every 6 months during an observation period of 3.3±1.7 years (range, 0.5-7.6 years).

Study Population:
Age, y 48.2±14, History of ischemia: 7
Sex Male 35.6%, stroke 55.2%
Hypertension 37.9%, TIA 41.4%
Dyslipidemia 31.0%, IHD 3.4%
Coagulation defect 3.4%
Atrial septal aneurism 41.4%

Results of a 3-year follow-up were: 5 TIAs and 1 surgical PFO closure redo for intractable migraine.

Conclusions: residual shunt after PFO closure is associated with adverse events and persistent migraine disability.