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## APPLICATION OF PERCUTANEOUS TRANSLUMINAL SEPTAL MYOCARDIAL ABLATION ON HYPERTROPHIC OBSTRUCTIVE CARDIOMYOPATHY

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**Objectives** To evaluate the feasibility and efficiency of percutaneous transluminal septal myocardial ablation (PTSMA) for treatment of hypertrophic obstructive cardiomyopathy (HOCM).

**Methods** Eleven patients with 1–10 years history of HOCM underwent the PTSMA. Left ventricular outflow tract gradient (LVOTG) were measured before and after septal branches occluded by 96%–99% alcohol. The thickness of septal myocardium, width of LVOT and amplitude of systolic anterior motion (SAM) were also measured before, at the time of discharge and 1 month after PTSMA by echocardiography.

**Results** Ten patients were accomplished by Sigwart method, among which, DDD pacemaker was implanted in one patient because of permanent complete heart block 5 days later. One patient died from acute myocardial infartion 4 h after ablation. Immediate post-operation, IVOTG decreased significantly from (90.40 $\pm$ 41.95) mm Hg to (52.90 $\pm$ 34.12) mm Hg (p<0.01). At the time of discharge, IVOTG and amplitude of SAM improved significantly (82.98 $\pm$ 36.46 mm Hg vs 44.56 $\pm$ 28.87 mm Hg; 4.1  $\pm$ 1.37 mm Hg vs 2.3 $\pm$ 1.06 mm Hg, p<0.01). At 1 month follow up, IVOTG, thickness of septal myocardium, width of IVOT and amplitude of SAM had a good direction to improvement (p<0.01). **Conclusions** PTSMA can significantly reduce IVOTG and has a satisfactory short-term efficacy in the treatment of HOCM. Risk control must be emphasised during the ablation procedure and

further careful evaluation is needed.

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