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Is DCB effective in central vein stenosis?

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Disclosure

Speaker name: Keerati Hongsakul

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I have the following potential conflicts of interest to report:

- Consulting
- Employment in industry
- Stockholder of a healthcare company
- Owner of a healthcare company
- Other(s)

- I do not have any potential conflict of interest



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Endovascular treatment of CVS

- POBA: 12-50 % at 1 year
- BMS: 14-73 % at 1 year
- Cover stent: 32-67% at 1 year
- DCB: Not enough study!!!

J Vasc Surg 2011;54:754–9

J Vasc Surg 2007;45:776–83



L I N C

Double Paclitaxel-Coated balloons for early re-stenosis of central vein in hemodialysis patients

Hongsakul K, MD, Bannangkoon K, MD, Rookkapan S, MD, Boonsrirat U, MD, Kritpracha B, MD

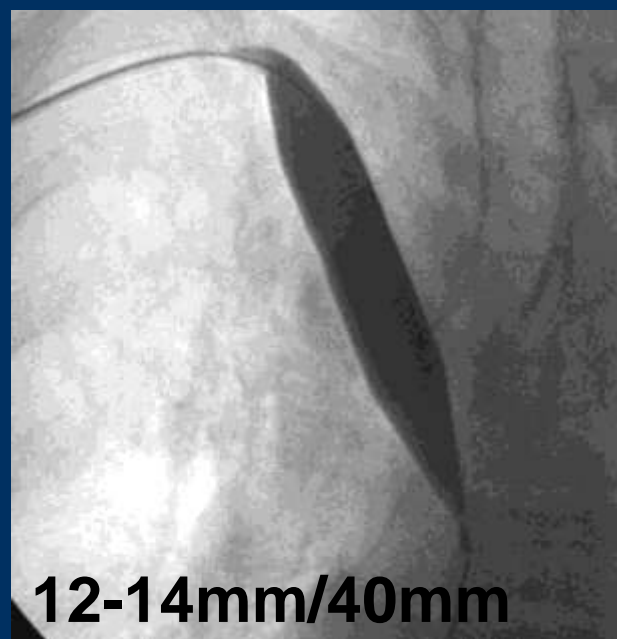
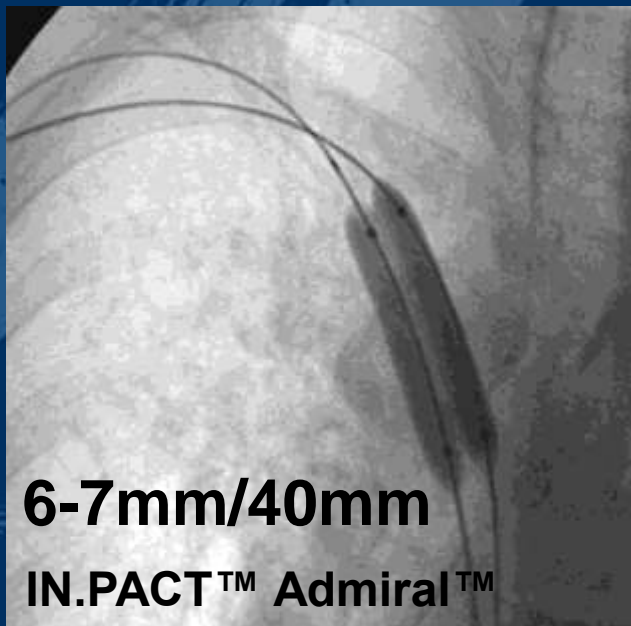
“ To report the 12-months result of PCBA for the treatment of early re-stenosis of central veins ”



- Retrospective study
- Jan 2014 to June 2015
- 16 patients with 16 early re-stenosis of central veins within 3 months using POBA (average PP = 2.54 ± 0.32 months)
- 9 male and 7 female
- Age 66 ± 14 years (range, 40 - 82 years)
- 10 native and 6 intra-stent central veins
- 15 brachiocephalic veins, 1 subclavian vein
- 8 right sides, 8 left sides



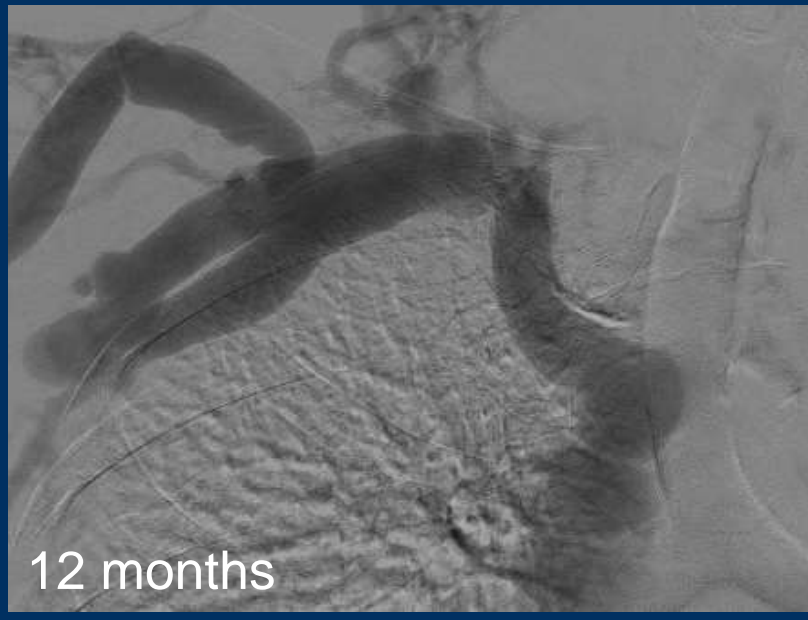
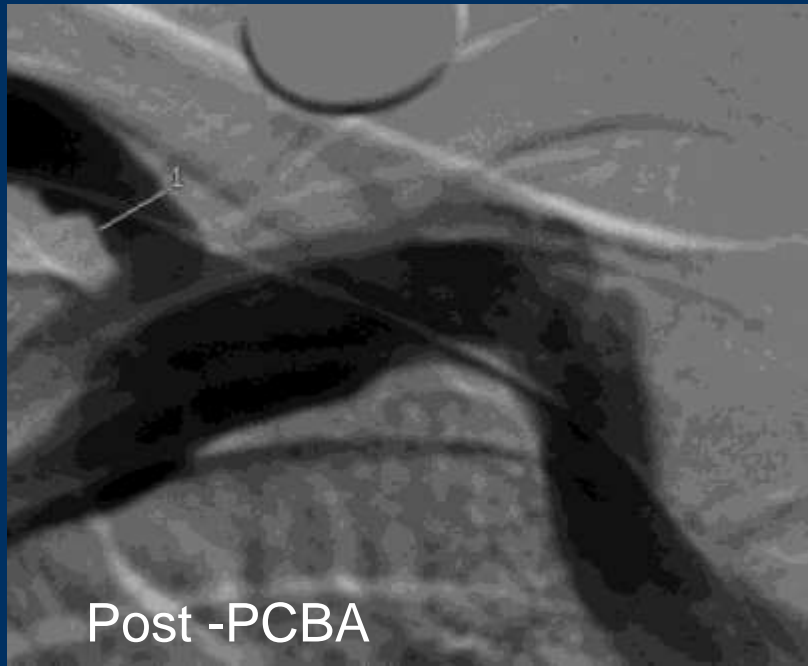
LINC Technique



Analysis & follow up

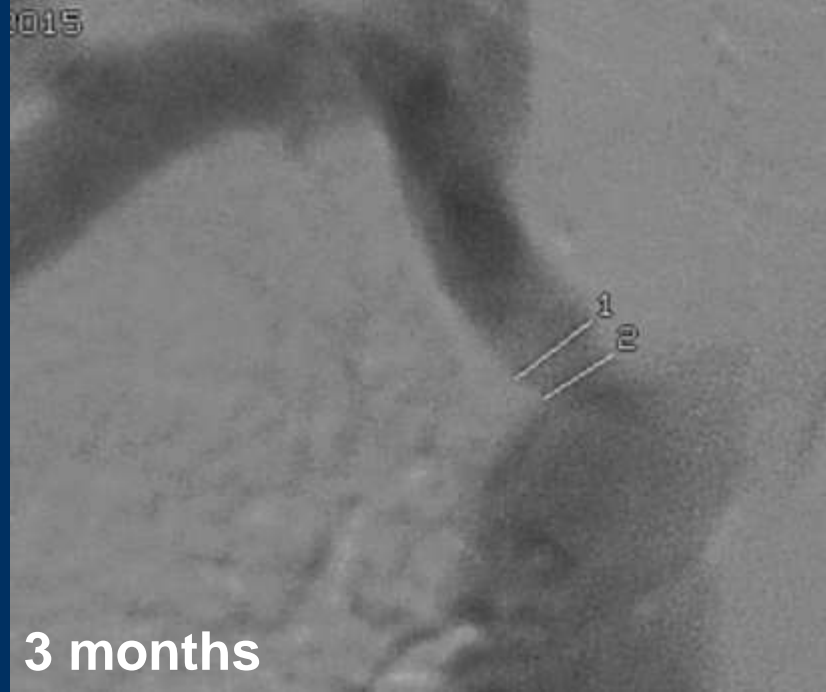
1. Procedural success : < 30 % residual stenosis
2. PP: < 50% angiographic stenosis without re-intervention
3. Follow up time for 12 months

PSU Study





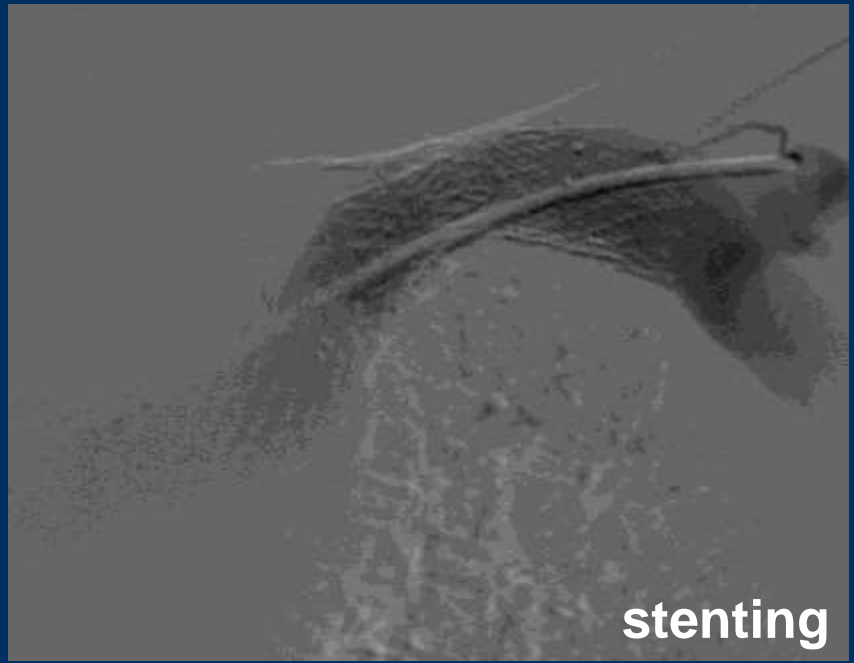
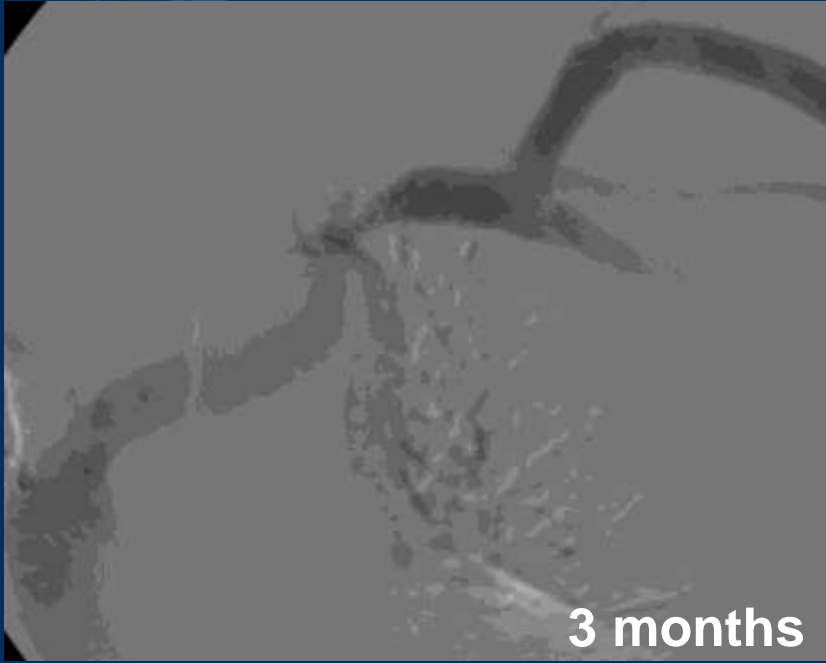
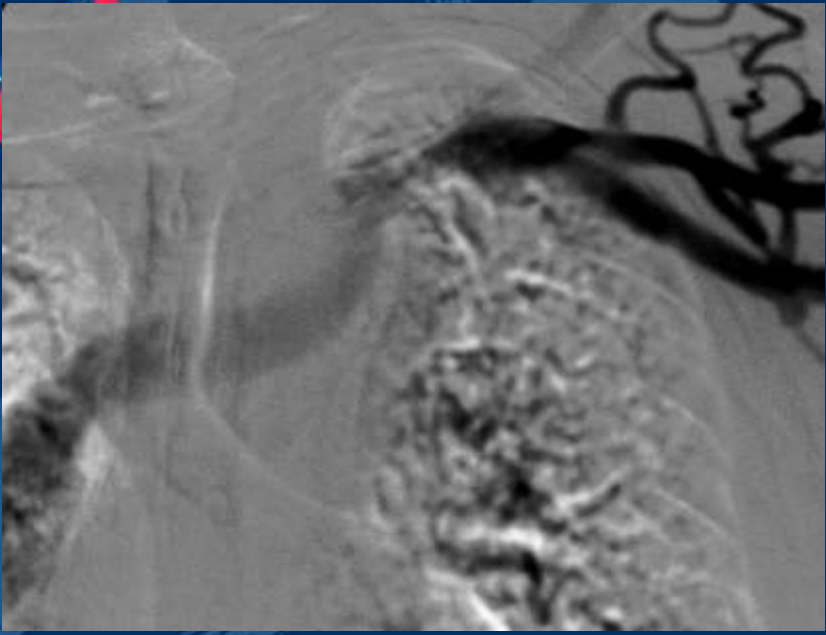
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3 months

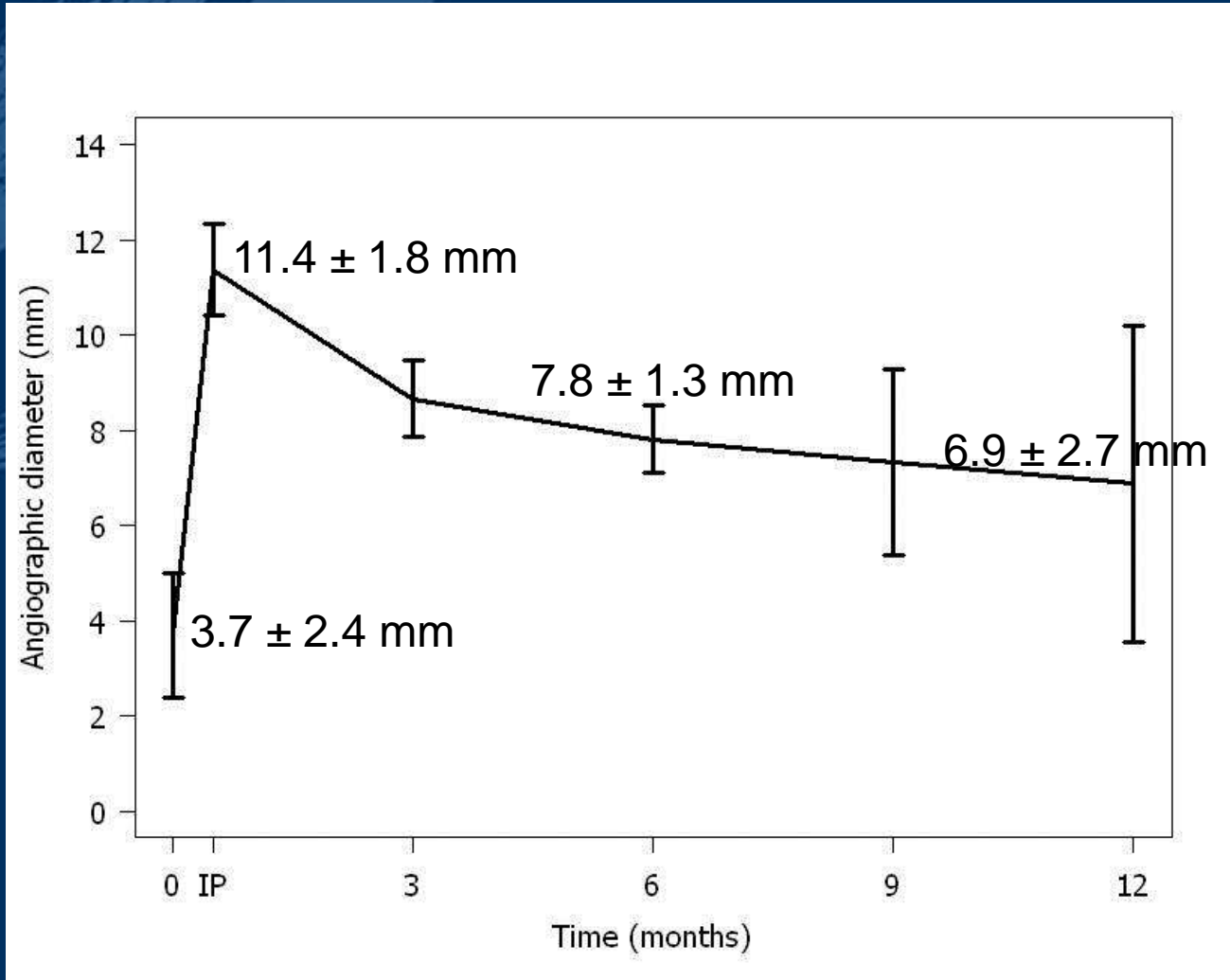


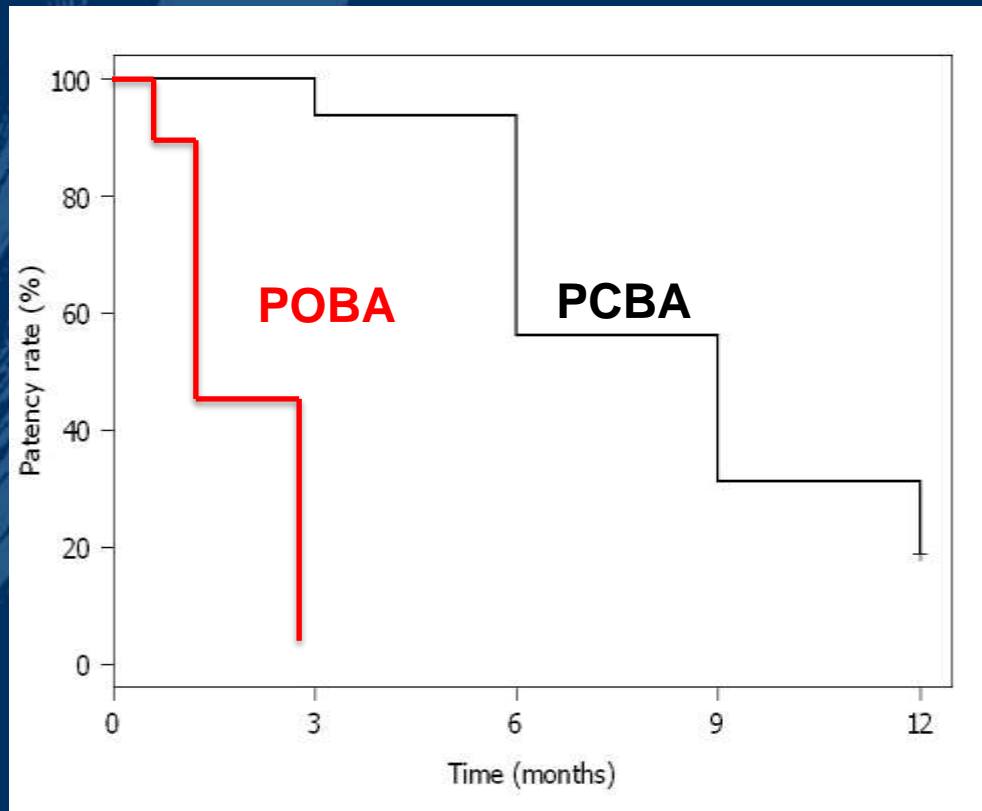
6 months





Procedural success = 16 (100%) pts.





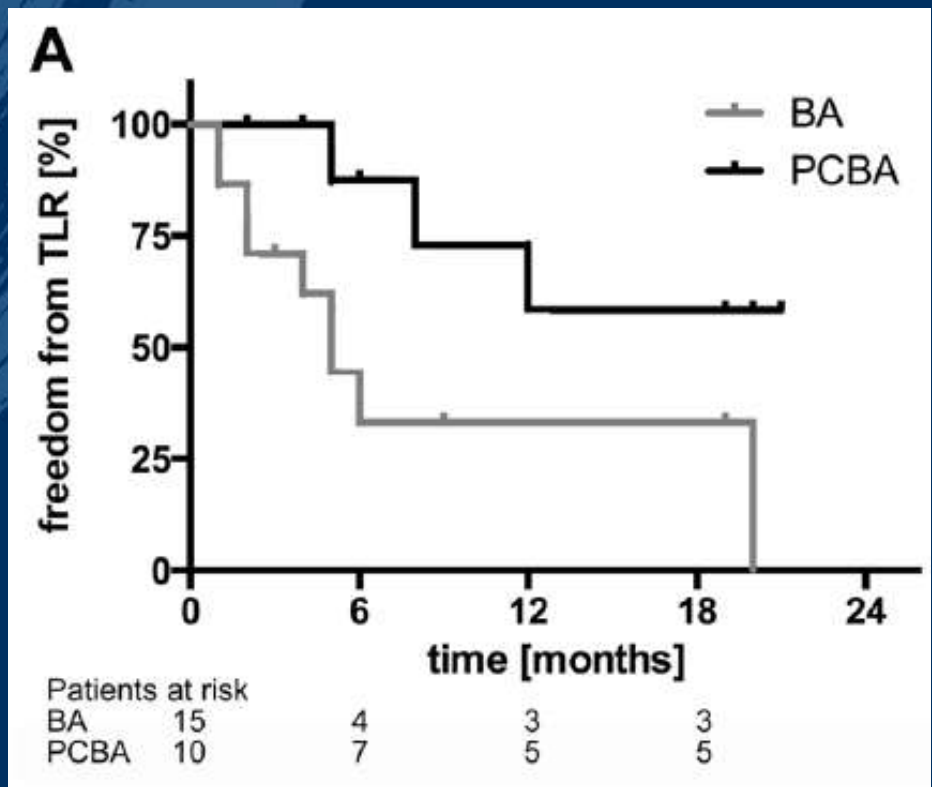
PPR at 6 / 12 mos.: 15 (93%) / 5 (32%) pts.

Average PP :

8.43 ± 2.90 mos. (PCBA) VS 2.53 ± 0.2 mos. (POBA); p < 0.001



Literature review**



FTLR: PCBA vs BA = 10 months vs 5 months, p= 0.029

Re-stenosis: PCBA = 9 months, BA = 4 months, p = 0.021



Summary:

- DCB seem to improve primary patency of central vein stenosis
- DCB might have a benefit in case of early re-stenosis of central vein



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