

The use of Biointegral® vascular graft for hemodialysis

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Introduction:

We report a case of a 72 years old patient with:

- ESRD
- Concomitant cardiac insufficiency
- Coronary artery disease
- Parathyreoid glandulae reimplantation to the left cubital region
- Staphylococcus bacteriemia (recurrent erysipelas)
- Severe arteriosclerosis of lower limb
- Aneurysmatic, partially thrombosed shunt on right forearm causing CI
- No veins for suitable autogenous conduit

Procedure:

Decision to use Biointegral® vascular graft

Resistant to infections

Comparable primary and secondary patency rates

[Arhuidese I](#), [Reifsnyder T](#), [Islam T](#), [Karim O](#), [Nejim B](#), [Obeid T](#), [Qazi U](#), [Malas M](#).

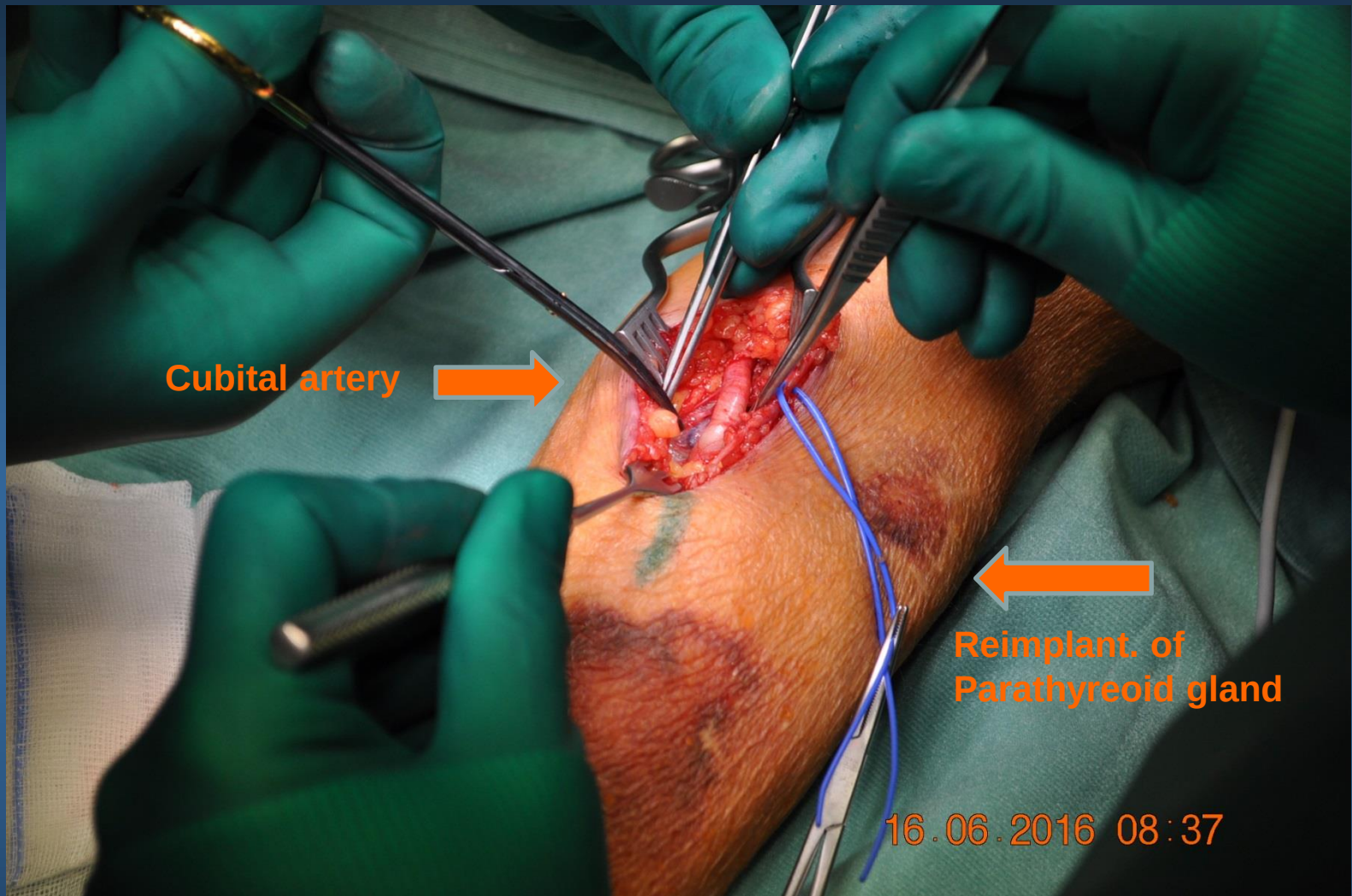
Bovine carotid artery biologic graft outperforms expanded polytetrafluoroethylene for hemodialysis access.

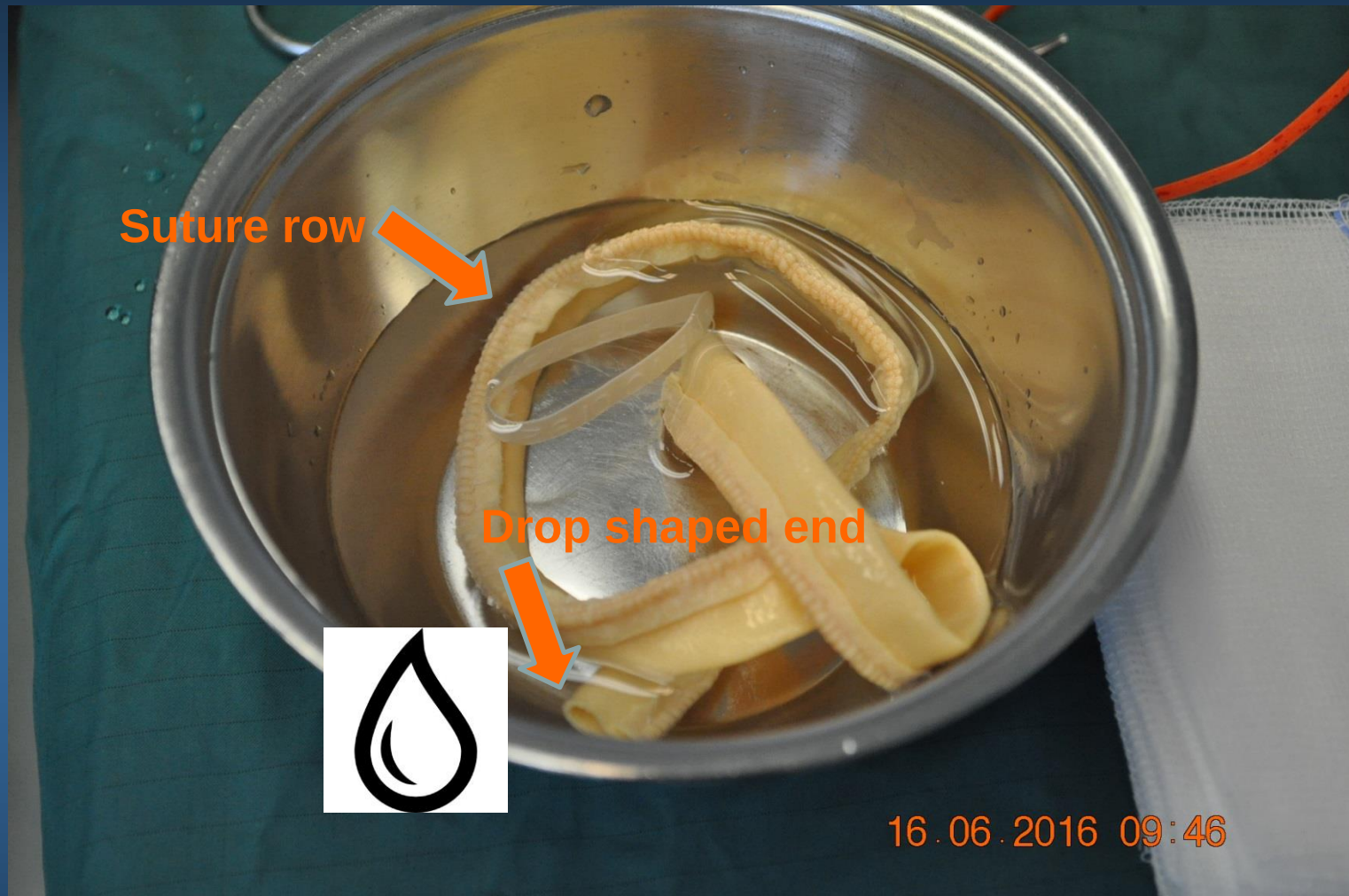
[J Vasc Surg.](#) 2017 Mar;65(3):775-782.

[Pineda DM](#), [Dougherty MJ](#), [Wisner MC](#), [Carroll C](#), [Tyagi S](#), [Troutman DA](#), [Calligaro KD](#), [Qazi U](#).

Bovine carotid artery xenografts for hemodialysis access.

[J Vasc Surg.](#) 2017 Mar 30. pii: S0741-5214(17)30099-X.





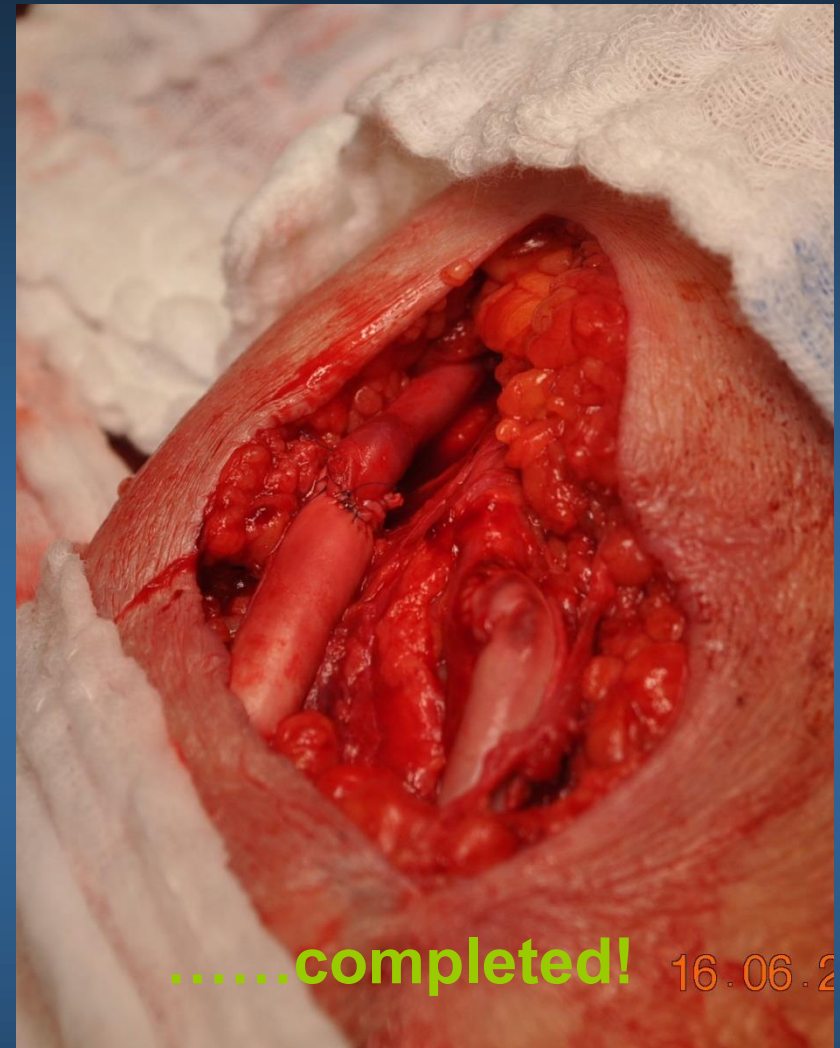
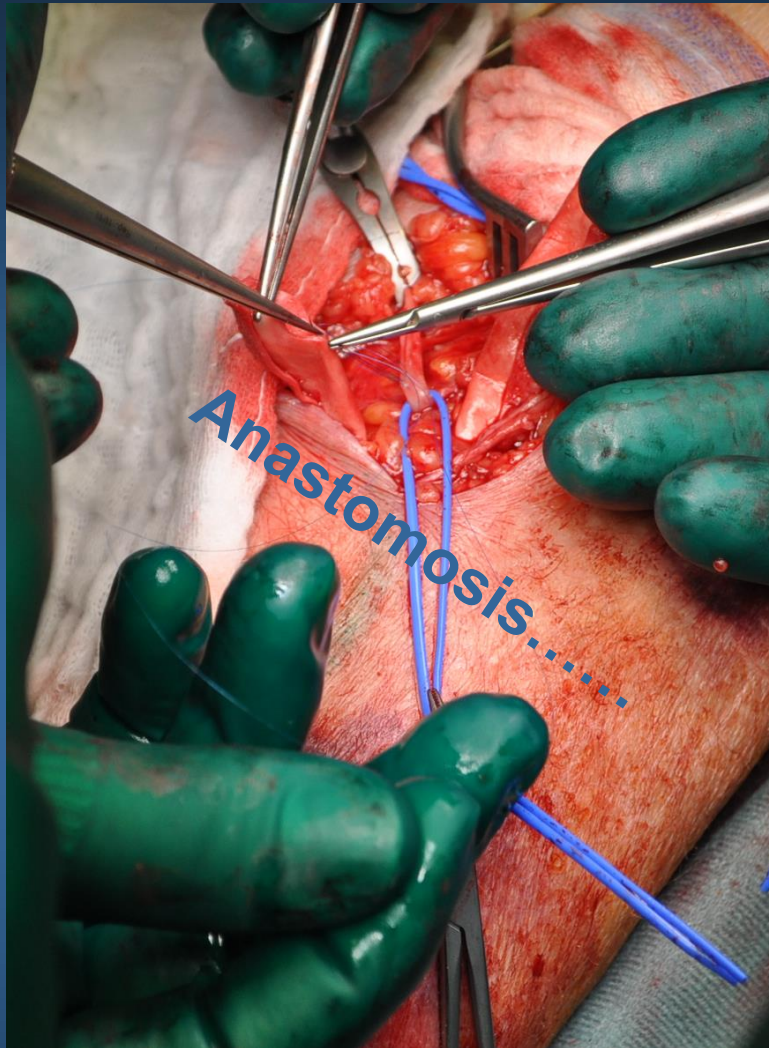
Shunt aneurysm right
forearm.....

16.06.2016 08:47

.....finally removed.....

16.06.2016 09:37





Surveillance:

Puncture was possible after 3 weeks

Postpuncture bleeding period shorter compared to PTFE

Duplex scanning: perigraft edema disappeared (3 w)

Clinical assessments: clopidogrel + acetylic acid

Primary patency: 4 months (thrombectomy)

Secondary patency: graft still patent.

Conclusions:

The use of Biointegral graft for dialysis is an alternative option in patients with bacteremia or impaired immunological response.

Postpuncture bleeding time was slightly shorter than in comparable ePTFE grafts

Puncture seemed to be „tougher“ than ePTFE

Thank you for attention!



