







Home-made Fenestrated Endograft 1999

ENDOVASCULAR AND SURGICAL TECHNIQUES

A Fenestrated Covered Suprarenal Aortic Stent

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ive to address the clinical problem of inadequate neck length of abdominal acriic anarysms in endoluminal surgery. Design: a coveral supereenal aertic stent was designed with a fenestration to preserve blood flow in a targeted renal Distingent a service sequence of the second start was accurately cut to size with a fenestration according to pro-imaging Method and material: a Dacron-covered start was accurately cut to size with a fenestration according to pro-imaging strides. Resultion for short uses successfully deployed in cavine madels, preserving the nicerul and renal artery of interest. Conclusions by accurately placing a concred strint in the arts and preserving the blood flow to its functione, it may be possible to entend the indications for evaluational actric anaropsa grafting.

. Key Words: Abdominal Aortic Anearysm; Endonescular deployment; Fonestrated suprare



An Endovascular System for Thoracoabdominal Aortic Aneurysm Repair Timothy A.M. Chuter, MD; Roy L. Gordon, MD*; Linda M. Reilly, MD; Jay D. Goodman, MD*; and Louis M. Messina, MD Le, S. Soouman, WD"; and Louis M. Messina, MD Departments of Surgery and *Radiology, University of California San Francisco, California, USA Argums: The describes a strate-path system for endoscenacion range of themsesses that the strate of the strate strate strate of the strate str •_____

1st Branched EVAR in US 2001



First PS-IDE - 2001

- Greenberg introduced
 FEVAR/BEVAR
- Evolution of device design and concept of CMDs



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Role of Physician Modified Endografts

Immediately available

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Symptomatic / ruptures

Rapidly enlarging / large aneurysms
 Complex aortic aneurysms

Customizable to anatomic constraints

Failed Open Repair

- 81M presents with an extent II TAAA, contained rupture of a 9cm pseudoaneurysm at the
- level of the visceral aortaHx of prior infrarenal open repair
- Hx of prior TEVAR
- CAD and CHF, on Plavix
- CAD and Chir, on Fia

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Failed EVAR for 1A Endoleak

· 84F with EVAR in a wide neck who developed 1A endoleak at 1 year

Sac expansion by 1cm







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Investigational Device Exemption (IDE)

- Best when done under the purview of Investigational Device Exemption
- · Prospective data collection

Adequate oversight and quality control



· Ideally at aortic centers with experience for optimal outcomes

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Co ou tre	Meetin Value Sup 2022 56:031(1):164-77. 10053) International State St	Systematic Review and Meta-analysis of Physician Modified Endopartis for Treatment of Thoraco- Abdominal and Complex Abdominal Aortic Aneurysms Information Unit (Sens Industra Abdominal Aortic Aneurysms Information (Sens Industra Control - Sense Abdominal Antonia Sense (Sense Abdomina) Antonia Sense (Sense Abd	-Shelf or Physician- nched Endografts rege A. Mitter V. Lazardes ⁸ , Frans L. Mell ²	n Branched and grafts Mahmoud 8 Mains ⁹ .
A)ys AJSI PMB	ABSTRACT Objective: Aortic neck dilation is a reported mode of failure and co standard endouscular abdominal aortic anexypen repair (EVAR) F increases the seal zeroe length and is often used to treat this disease for neck dilation after FEVAR is unknown.	ADSTRACE Detection: To profess a patientials nucleus and neta-analysis of the substances of physician mathematical endographs (PARC). In the transmess of theorem-abstracing (SMAA) and complex biddomic approxime (S-AAA). Base surveises (ISCAR), (CSSFRA), which of Science Core Collection, Solido, and Quen Dray.	he-shelf fenestrated/branched grafts for the treatment of complex abdominal on via PubMed from January 2001 through e diminal subsemes following the	lar approach. Due to the lack implex aneuryons undergoing tice was to target visceral on shifted to an all erative benefits of
Ab The ende has tradi desi PME abdo man	Netbody, Wk volumed 124 connection FDAAD performed under Jaareenia zweywyn, Eriolaef Talogou Konellen, XC/TOSIGOU, mesetter is stry SDAA injelset Instatiefol and iswett sou i arte thorogestyn eigospesiej prespenitivje, yn 25 olige, yn al mangi annan soef meid dialon by the gant type and, degen ei Awesta and and meid and the state of the state of the state instate of the state of the state of the state of the Neetbody of the State periods. State of the state of the Neetbody of the State of the state of the state of the state preparative of the state of the state of the state of the state instate of the state of the state of the state of the state of the state instate of the state of the state of the state of the state of the state instate of the state of the state of the state of the state of the state instate of the state occurrence of the state of th	Notes wettern To Se delates are an earlier the increasing to 20,202 for the index spectrage and an earlier MPADI for Note 20 A Margin A Ayanian areas in the index lipses of the internet MPADI for Note 20 A Margin A Ayanian areas in the index lipses of the internet and the internet areas in the internet areas in the internet areas having and particular and the internet areas in the internet areas in the internet margin and particular areas in the internet areas in the internet areas having and particular areas in the internet areas in the internet areas having and particular and internet areas in the internet areas in the internet margin and particular and internet areas in the internet areas in the internet margin and particular and internet areas in the internet areas in the internet particular and the internet areas in the internet areas in the internet particular and the internet areas in the internet areas in the internet particular and the internet areas in the internet areas in the internet particular and the internet areas in the internet areas in the internet particular and the internet areas in the internet areas and the internet particular and the internet areas in the internet areas and the internet particular and the internet areas in the internet areas and the internet areas and the internet particular and the internet areas in the internet areas and the internet areas and the internet areas and the internet areas in the internet areas internet areas and the internet areas and the internet areas in the internet areas and the intered areas and the interes and the internet areas and the interne	primera astro ci anoru prime. The 10 articles on to finana age 72 2021. By yane; 121 moni, lang rubiconar mesaura suoi delinati concorrante data suo possibile pri d'oroganed en amit 95% confidence interval (CC). L'exere agenciate da se mangrando additi en amit 95% confidence interval (CC). L'exere agenciate da se mangrando additi 110 for the Michiga and 68 Li 123 mm visicanti avesatis anes targeted. Magar attereste (SINC Call Con 31 mm, anis in 8 attreett suocess lattificacy) and in 8 attreett suocess lattificacy (see about of 10 mm).	in 2015 and 2020 were nel approach-transferrioral ents held a paramenid or type e complex TLAN. Frimary portrast, and blood loss. I. Linear ingression models invalin subcomes. diemonal group and 52% (s) = ar between the groups. porative time (EVI3 vs. 24 in fluenescopy time (138 vs.
aegi Aith com thor case the r evol	bases renal atray, the grint darastier affleted 20 mm s 20 mm afferences were not significants. Frails, a stratups availps ware per by antorins factors and share discrit datas and constants at overlange per type and and an energiest. Conclusions. Anti: muck all atrain they visual signment samacoural Reads Further exercision is warshed to determine how these chang 2023/Reads 7. June association is warshed to determine how these chang Xearchingson 7) Keywords: AAA: Furdar. Next dilation	along the advance works of the Soupi current in the Sin $^{-1}$ and sources in the Sin $^{-1}$ and the Sin $^{-1}$ structure is the	larget vessel and branch shert perfusion 20% Cr65% is 98.0% in the P455 (980% Cr66% is 98.0%) for the CF65 wity 2 (2.0%) were energy metabed, Owenil is 466(42) (92.5%) of target vessels in the mology seems effective and safe, in both mology seems effective and safe, in both pairs and/c sampmer. Future research stations of these devices.	allarytemposite group ce in 30-day mortality or ndovascular aortic aneurysm alive time, sadiation ay mortality or major advense ortant to minimize morbidity









Summary

- PMEG for has evolved from its occasional use to widespread use today
- · It is feasible, effective and durable treatment strategy
- Ideally done under PS-IDE for quality control
- Patient outcomes are critical for success
- There is need for commercially available devices
- PMEG is here to stay! Focus should be on optimization
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