History of deep vein reconstruction in CVD

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Disclosure

Speaker name:

..Bo Eklöf...........................................................................................................

I have the following potential conflicts of interest to report:

☐ Consulting

☐ Employment in industry

☐ Shareholder in a healthcare company

☐ Owner of a healthcare company

☐ Other(s)

☒ I do not have any potential conflict of interest
Bob Kistner - the pioneer in Hawaii

1968 - Bob Kistner described the internal valvuloplasty and proceeded to perform external valvuloplasty, transposition and endophlebectomy.

- It was possible to repair the delicate valve leaflets.
- Surgery of the deep venous system did not invariably lead to thrombosis.

Rekindled a new interest in deep venous disease.
Bob Kistner performed the first successful repair of a venous valve in Hawaii in 1968.

Bob called this serendipity – making a desirable discovery by accident!
Internal valvuloplasty
49 year follow-up with Saint Peter in Heaven

- Recent Skype contact with Saint Peter
- Bob’s patient is doing fine, constantly chasing Venus around
- He conveys his best regards to Dr. Kistner for his ability to wear shorts in Paradise
Transposition of incompetent femoral vein – creating new axial channel with a functioning valve. KISTNER 1982

FV into PFV

FV into GSV

Kistner’s external valvuloplasty
1990
Angioscopic valvuloplasty

- Gloviczki 1991
- Hoshino 1993
Axillary Vein Transfer

TAHERI 1982
Pelvic congestion syndrome

- Taylor described the syndrome in 1949
- Ovarian vein reflux
- John Hobbs introduced surgery or embolization in 1976
- Occlusion through sclerotherapy and coiling
European pioneers for reflux

- Dag Hallberg, Stockholm, Sweden 1972
- Ingvar Eriksson, Uppsala, Sweden 1978
- Michel Perrin, Lyon, France 1979
- A.N. Vedensky, Saint Petersburg, Russia 1979
- Philippe Plagnol, Bordeaux, France 1999
- Oscar Maleti, Modena, Italy 2002
- Antonio Rosales, Oslo, Norway 2003
- Anders Albäck, Helsingfors, Finland 2003
Ingvar Eriksson

• First valve repair 1978 in Uppsala, Sweden
• >50 cases
• Importance of competence of PFV
• Together we did my first repair in Helsingborg in 1980
Michel Perrin

- First axillary vein transplantation in Lyon 1983
- >140 cases
- Father of modern phlebology in France
- Spiritual brother of Paul Bocuse
In our country the extravasal correction of incompetent valves with elastic spirals is the most commonly used procedure, the innovative technique being proposed by A.N. Vedensky in 1979.
Maleti’s Neo-valve 2002

356 valve repairs in Modena since 1995

• 144 valvuloplasty
• 66 valve transpositions
• 11 valve transplants
• 135 neo-valves
Percutaneously placed artificial venous valve

Courtesy D Pavcnik
Deep venous obstruction

Sapheno-popliteal bypass
Endophlebectomy in PT disease
Surgical bypass for iliac vein obstruction

- Synthetic femoro-iliacal bypass
- Classic femoro-femoral cross-over bypass
- Iliocaval bypass
Jean Kunlin, the French pioneer

- The importance of AVF in venous reconstruction
- 15th Congress Int Surg Society, Lisbon 1953
- 15 min presentation lasted for 1 hour!
- The president Haimovici threatened to throw him out
Treatment by Placement of Stents

Non-thrombotic iliac vein lesions (NIVL)
**Nutcracker Syndrome**

**Mayo clinic 2015. 37 patients**

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**Fig 7.** Drawing of adjuncts of left renal vein (LRV) transposition to enlarge the renal vein (patch) or to decrease tension caused by the abdominal aorta and lack of retroperitoneal fat (cuff): (A) vein patch, (B) vein cuff, (C) vein patch and cuff. (By permission of Mayo Foundation for Medical Education and Research. All rights reserved. Reprinted from Said SM, Gloviczki P, Kalra M, Oderich GS, Duncan AA, Fleming MD, et al. Renal nutcracker syndrome: surgical options. Semin Vasc Surg 2013;26:35-42. Copyright 2013, with permission from Elsevier.)
Sequential Treatment of CVD with Complex Pathology - A Paradigm Shift

1. Venous stenting of the ilio-caval venous outflow obstruction

2. Control of superficial insufficiency
   - Saphenous ablation
   - Phlebectomy
   - Perforator obliteration

3. Deep Valve Repair

Simultaneous conservative treatment

Compression therapy
Local ulcer treatment
Stenting of the Femoro-Ilio-Caval Outflow

EVF HOW Plus Course
Modena, Italy - 23-24 April, 2015

Course Directors: Oscar Maleti and Marzia Lugli

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Deep Valve Repair

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