





AV FISTULA - STATE OF THE ART

EUROPEAN GUIDELINES

ULF HEDIN

DEPARTMENT OF VASCULAR SURGERY

KAROLINSKA UNIVERSITY HOSPITAL

STOCKHOLM, SWEDEN

OTHER GUIDELINES

- K-DOQI
 - 1997, 2006
 - REVISION IN PROGRESS => 2020 (CACVS 2019; C LOK)
 - 130 => 163 STATEMENTS/RECOMMENDATIONS [<=> ESVS 80]
 - 33% LEVEL A-B; 66% LEVEL C
- ERA-EDTA-EBP
- MISC
 - CLINICAL PRACTICE GUIDELINE: VASCULAR ACCESS FOR HAEMODIALYSIS, UK RENAL ASSOCIATION 2015
 - SPANISH CLINICAL GUIDELINES ON VASCULAR ACCESS FOR HAEMODIALYSIS, 2017







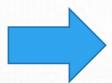


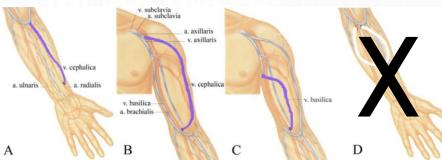


REASONS TO DEVELOP YOUR OWN

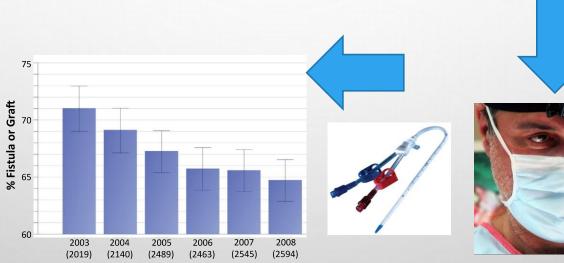
• K-DOQI, FISTULA FIRST ETC.

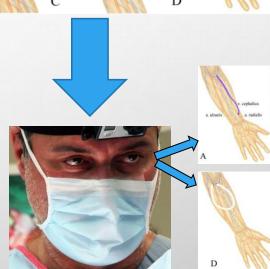






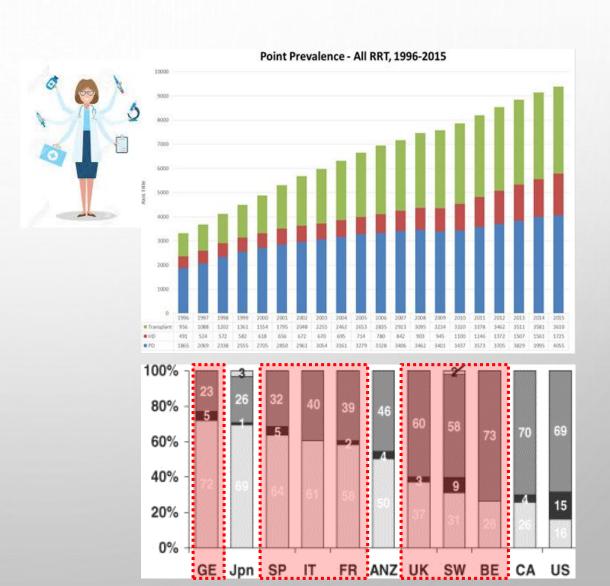
- AVF VS. AVG
 - 2004 SWEDEN 10-15% AVG





MHA

- INCREASINGLY IMPORTANT FOR VASCULAR SURGERY
 - NEPHROLOGISTS=>UROLOGISTS
 TRANSPLANT SURGEONS=>VASCULAR
 SURGEONS=>ACCESS SURGEON (AV
 ACCESS-CATHETERS-PD'S-OPEN/ENDO)
- INCREASING DEMAND FOR RRT
- VARIABILE PRACTISE IN EUROPE
- TRAINING



GUIDELINE PROCESS

- STARTED IN 2013
- PUBLISHED IN 2018
- WRITING GROUP: 19 AUTHORS
 FROM 10 DIFFERENT COUNTRIES
- MULTIDISCIPLINARY
 REPRESENTATION FROM:
 VASCULAR SURGERY,
 TRANSPLANTATION, DIALYSIS
 NURSING, NEPHROLOGY,
 INTERVENTIONAL RADIOLOGY,
 IMAGING
- ESVS GUIDELINE COMMITTE

Eur J Vasc Endovasc Surg (2018) 55, 757-818

Editor's Choice — Vascular Access: 2018 Clinical Practice Guidelines of the European Society for Vascular Surgery (ESVS)[★]

Jürg Schmidli ^{a,*}, Matthias K. Widmer ^a, Carlo Basile ^a, Gianmarco de Donato ^a, Maurizio Gallieni ^a, Christopher P. Gibbons ^a, Patrick Haage ^a, George Hamilton ^a, Ulf Hedin ^a, Lars Kamper ^a, Miltos K. Lazarides ^a, Ben Lindsey ^a, Gaspar Mestres ^a, Marisa Pegoraro ^a, Joy Roy ^a, Carlo Setacci ^a, David Shemesh ^a, Jan H.M. Tordoir ^a, Magda van Loon ^a,

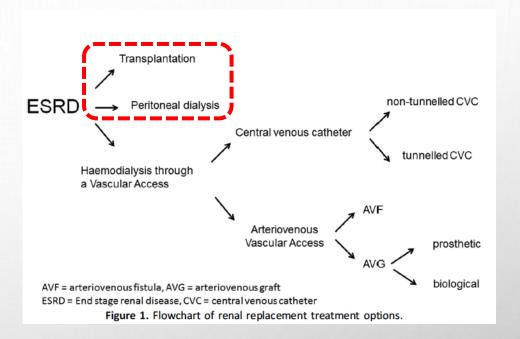
ESVS Guidelines Committee ^b, Philippe Kolh, Gert J. de Borst, Nabil Chakfe, Sebastian Debus, Rob Hinchliffe, Stavros Kakkos, Igor Koncar, Jes Lindholt, Ross Naylor, Melina Vega de Ceniga, Frank Vermassen, Fabio Verzini,

ESVS Guidelines Reviewers ^c, Markus Mohaupt, Jean-Baptiste Ricco, Ramon Roca-Tey

Citations < 100

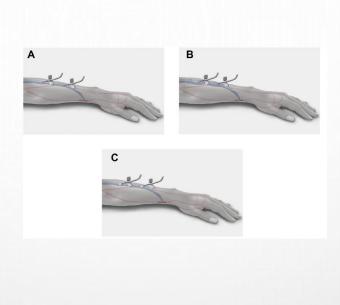
CONTENT

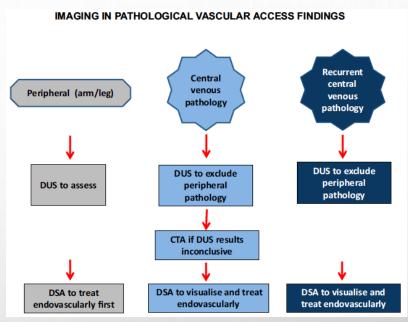
- 1. METHODOLOGY, DEFINITION OF **VASCULAR** ACCESS
- EPIDEMIOLOGY OF CKD AND AV ACCESS
- 3. CLINICAL DECISION MAKING
- 4. PRE-OP IMAGING
- CREATION OF VASCULAR ACCESS
- 6. SURVEILLANCE OF VASCULAR ACCESS (CANNULATION, ACCESS MONITORING AND SURVEILLANCE, NURSING ORGANIZATION)
- 7. LATE VASCULAR ACCESS COMPLICATIONS (ACCESS ANEURYSMS, INFECTION, STENOSIS, THROMBOSIS, VASCULAR ACCESS INDUCED LIMB ISCHAEMIA AND HIGH FLOW VASCULAR ACCESS)
- 8. COMPLEX OR TERTIARY HAEMODIALYSIS VASCULAR ACCESS
- 9. GAPS IN THE EVIDENCE

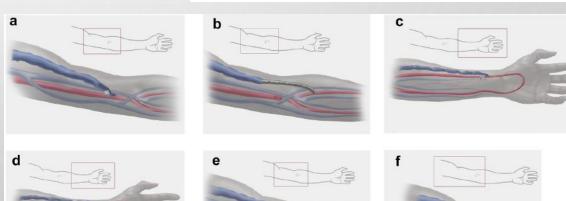


WHAT'S USEFUL?

- WELL STRUCTURED
- MULTIDISCIPLINARY
 PERSPECTIVE
 - DIALYSIS, NEEDLING,
 SURVEILLANCE
- ALGORITHMS
- PROCEDURES FOR HAND ISCHEMIA AND HIGH FLOW ACCESS







LIMITATIONS

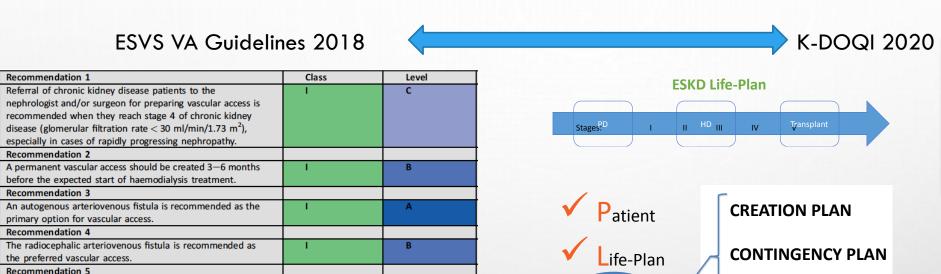
- FOR VASCULAR ACCESS SURGERY RATHER THAN DIALYSIS CARE
- POOR EVIDENCE BASE ('EVIDENCE FREE ZONES')
 - TREATMENT OF COMPLICATIONS
- RECOMMENDATIONS FOR VASCULAR/HEMODIALYSIS ACCESS ONLY
 - NOT FOR COMPLETE RRT/ACCESS (- PD)
- UP-TO-DATE?
 - 2013->2018
 - IDEAL <4 YEARS
- INDIVIDUALIZED ACCESS PLANNING?

Table 1. Level of evidence for treatment recommendations in ESVS guidelines.

	Vascular access	Carotid disease	Thoracic aorta	Mesenteric vessels
Level A	10%	24%	0%	3%
Level B	20%	30%	10%	30%
Level C	70%	47%	90%	67%
Total	80	118	86	64
recommendations	(100%)	(100%)	(100%)	(100%)

REASONS TO LOOK INTO K-DOQI 2020 (WASSE NEXT TALK)

Access



С

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When vessel suitability is adequate, the non-dominant

when upper extremity access is impossible.

patients with limited life expectancy.

vascular access.

Recommendation 6

Recommendation 7

extremity should be considered as the preferred location for

A lower extremity vascular access should be considered only

Tunnelled cuffed central venous catheters as a long standing

haemodialysis modality should be considered when the creation of arteriovenous fistulas or grafts is impossible or in



Patient oriented

- · Quality of life
- Longevity
- Home dialysis
- Economically feasible

DAVIDSON I, GALLIENI M, DOLMATCH B. A PATIENT CENTERED DECISION-MAKING DIALYSIS ACCESS ALGORITHM. J VASC ACCESS, 2007; 8: 59-68

SUCCESSION PLAN

LOK CE, DAVIDSON I. OPTIMAL CHOICE OF DIALYSIS ACCESS FOR CHRONIC KIDNEY DISEASE PATIENTS: DEVELOPING A LIFE PLAN FOR DIALYSIS ACCESS. SEMIN NEPHROL. 2012; 32:530-537

CONCLUSIONS

- ESVS VASCULAR ACCESS GUIDELINES
 - 'COOK-BOOK' IN VASCULAR ACCESS FOR VASCULAR SURGEONS
 - EDUCATIONAL MULTIDISCIPLINARY INSIGHTS
 - TRAINING
 - LESS IMPACT FOR DIALYSIS CARE
- SCIENTIFICALLY EVIDENCE-POOR FIELD
 - RESEARCH AND RCTS NEEDED
- TECHNOLOGY RAPIDLY ADVANCING
 - UPDATES NEEDED (<3-4 YEARS)
- IMPACT VS. K-DOQI 2020?



ESVS TRANSLATIONAL MEETING

Translational science – from bench to bedside 2 & 3 APRIL | 2020 Stockholm, Sweden



European Scient Submission Deadline Submission Deadline Scient Submission Deadline Sub

Welcome to the 1st ESVS Translational Meeting in collaboration with ESVB to promote Translational
 Science in European Vascular Surgery @ Bioclinicum, Karolinska University Hospital.

 This meeting aims to merge basic researchers, industry and physicians to provide scientific updates on burning issues in peripheral vascular disease (aneurysms, CVD Risk, thrombosis, restenosis, carotid disease), vascular biology, vascular biomaterials, education, imaging...

Oral abstract presentations and posters with Young Investigator Awards and Young Scientist Work Shop

Abstract Submission & Registration OPEN

https://www.esvs.org/presentation/

Affordable Registration for Students

Translational Vascular Science APRIL 2-3, 2020 STOCKHOLM, SWEDEN