
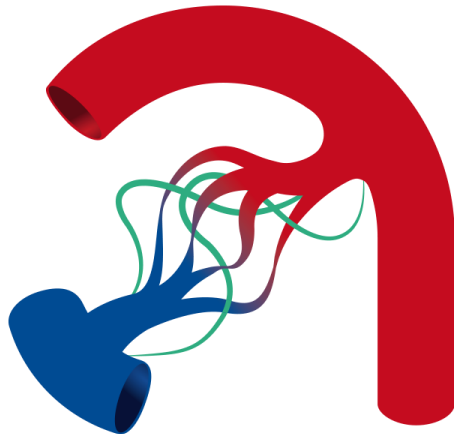




**European
Reference
Network**

for rare or low prevalence
complex diseases

 **Network**
Vascular Diseases
(VASCERN)



Vascular Ehlers- Danlos syndrome (vEDS)

Final Approved Patient Pathway by the MSA Working
Group - 28/09/2018

VASCERN MSA working group Members:

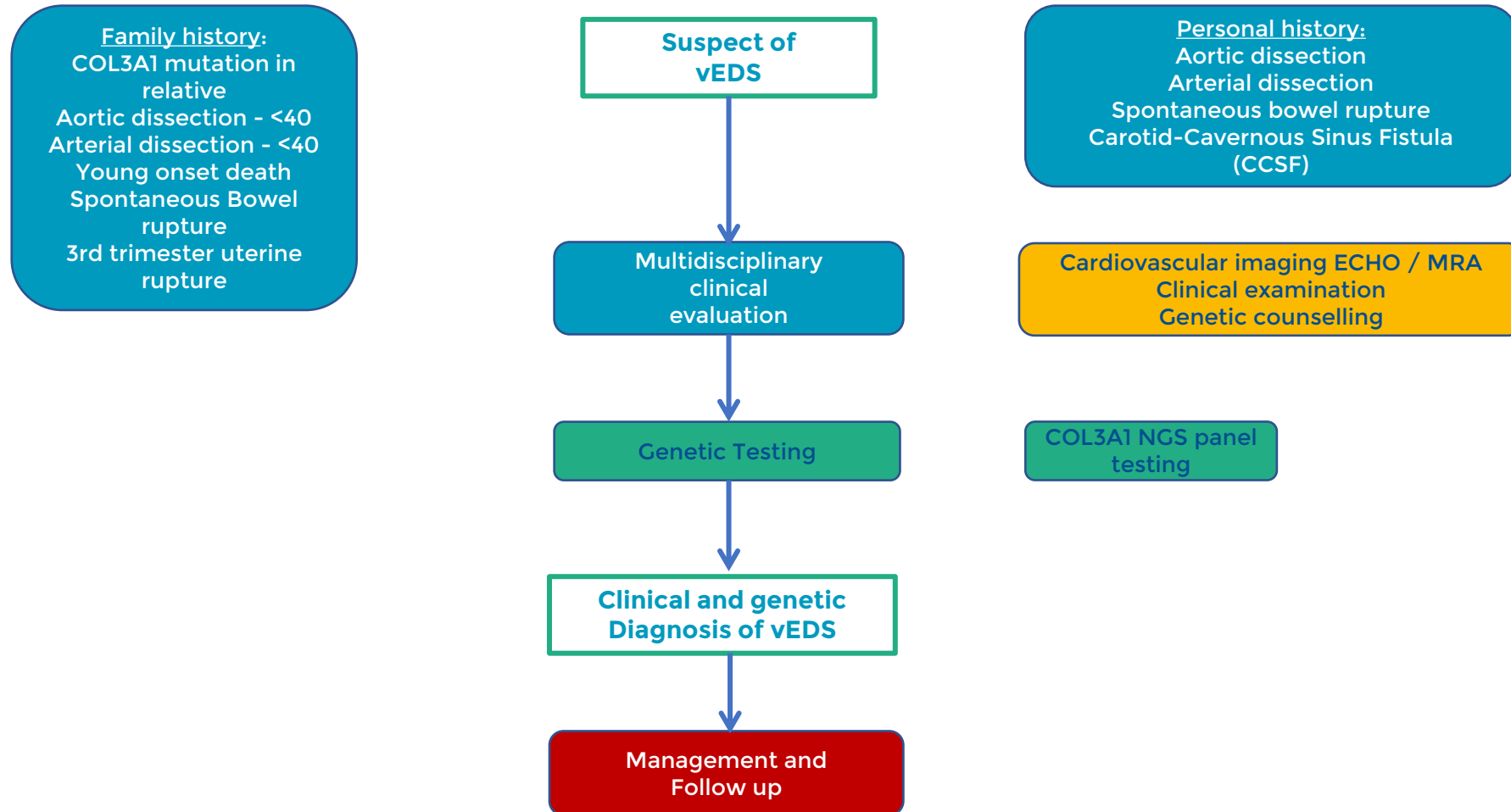
Leema Robert, Julie de Backer, Yaso Emmanuel, Charissa Frank,
Raffaella Gaetano, Juergen Grunert, Xavier Jeunemaitre, Bart Loeys,
Ingrid van de Laar, Alessandro Pini, Jolien Roos-Hesselink, Michael
Frank

Disclaimer

- This document is an opinion statement reflecting strategies put forward by experts and patient representatives involved in the Medium Sized Arteries (MSA) Rare Disease Working Group of VASCERN.
- This pathway is issued on 28/09/2018 and will be further validated and adjusted as needed.
- Responsibility for care of individual patients remains with the treating physician.



ERN General Pathway for Vascular Ehlers-Danlos syndrome (vEDS) (v1 - 28/09/2018)



LEGEND:

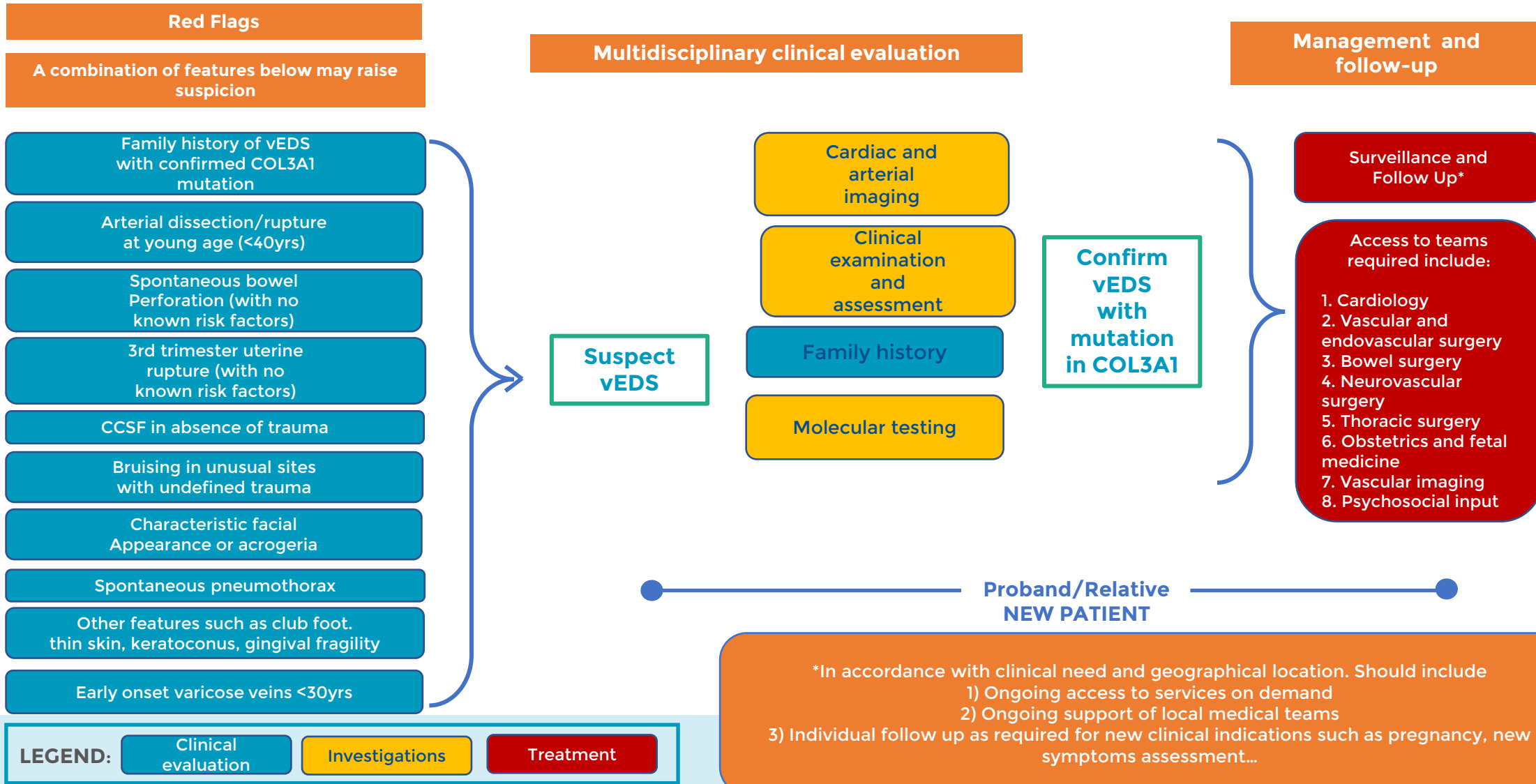
Clinical evaluation

Investigations

Treatment

Genes

Patient Pathway for Vascular Ehlers-Danlos syndrome (vEDS) (v1 - 28/09/2018)

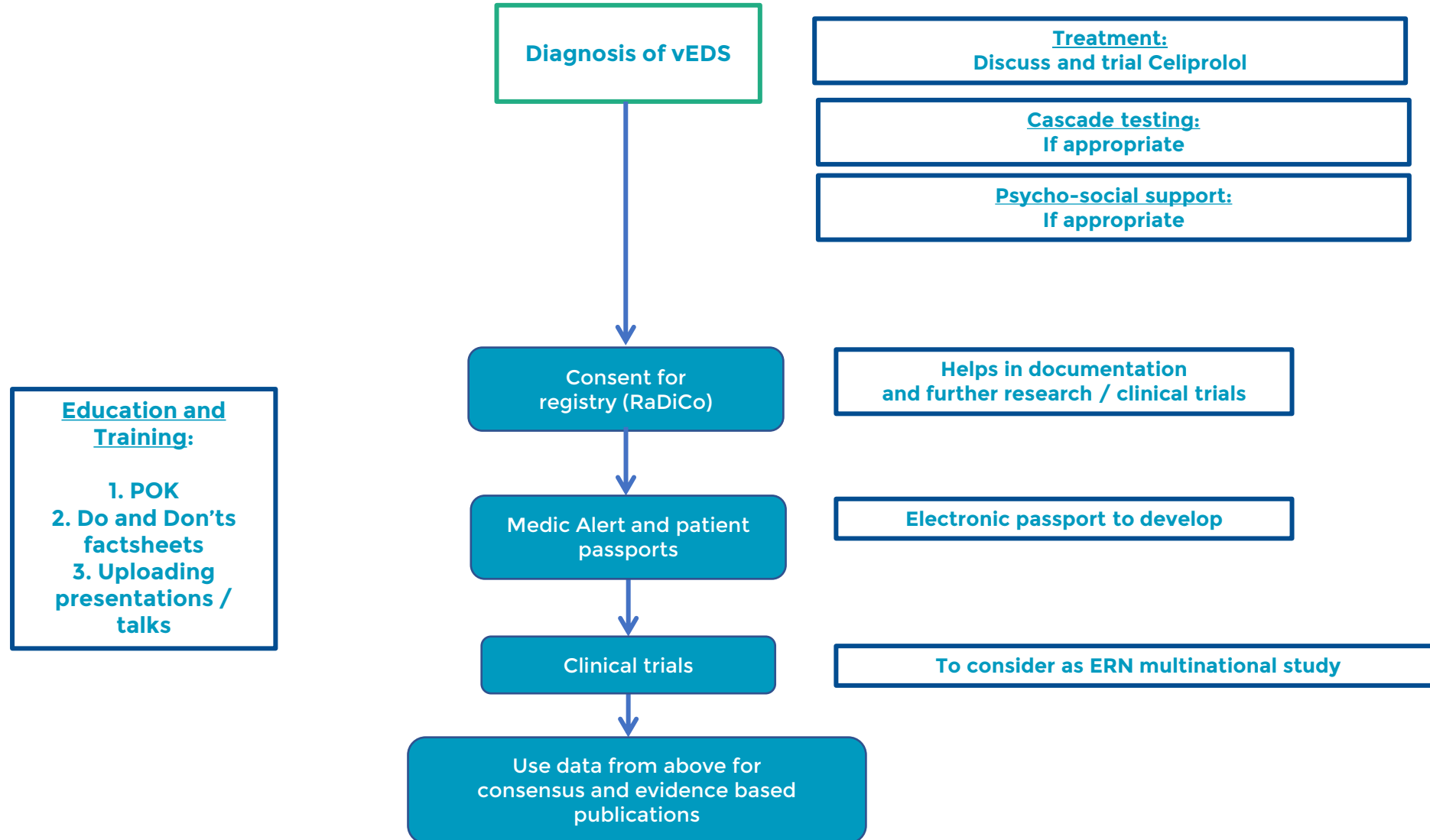




| Patient Presents at: | Red Flags A combination of features below may raise suspicion | Suspect vEDS | Multidisciplinary Clinical Evaluation at ERN designated HCP or Centre of expertise | Confirm vEDS with COL3A1 mutation | *Surveillance and Follow-up |
|---|--|--------------|---|-----------------------------------|--|
| GP | Family history of vEDS with confirmed COL3A1 mutation | | Cardiac and arterial imaging | | Routinely led by cardiology in liaison with multidisciplinary teams Access to teams required include: <ul style="list-style-type: none"> • Cardiology • Vascular and endovascular surgery • Bowel surgery • Neurovascular surgery • Thoracic surgery • Obstetrics and fetal medicine • Vascular imaging • Psychosocial input • Clinical genetics |
| Emergency services | Arterial dissection/rupture at young age (<40 yrs) | | Clinical examination and assessment | | |
| Surgical team | Spontaneous bowel Perforation (with no known risk factors) | | Molecular Testing | | |
| Vascular team | 3rd trimester uterine rupture (with no known risk factors) | | Family history | | |
| Cardio-thoracic Team | CCSF in absence of trauma | | | | |
| Genetics team | Bruising in unusual sites with undefined trauma | | | | |
| | Characteristic facial appearance or acrogeria | | | | |
| | Spontaneous pneumothorax | | | | |
| | Early onset varicose veins <30yrs | | | | |
| | Other features such as club foot, thin skin, keratoconus, gingival fragility | | | | |
| For probands and relatives New Patient | | | <div style="background-color: #f4a460; padding: 10px; border-radius: 10px;"> <p>*In accordance with clinical need and geographical location. Should include</p> <ol style="list-style-type: none"> 1) Ongoing access to services on demand 2) Ongoing support of local medical teams 3) Individual follow up as required for new clinical indications such as pregnancy, new symptoms assessment... </div> | | |



ERN Databasing and Research





European
Reference
Network

VASCERN

Gathering the best expertise in Europe
to provide accessible cross-border healthcare
to patients with rare vascular diseases



VASCERN, the European Reference Network on Rare Multisystemic Vascular Diseases, is dedicated to gathering the best expertise in Europe in order to provide accessible cross-border healthcare to patients with rare vascular diseases (an estimated 1.3 million concerned). These include arterial diseases (affecting aorta to small arteries), arterio-venous anomalies, vascular malformations, and lymphatic diseases.

VASCERN currently consists of 30 highly specialised multidisciplinary Healthcare Providers (HCPs) from 11 EU Member States and of various European Patient Organisations and is coordinated in Paris, France.

Through our 5 Rare Disease Working Groups (RDWGs) as well as several thematic WGs and the ePAG - European Patient Advocacy Group, we aim to improve care, promote best practices and guidelines, reinforce research, empower patients, provide training for healthcare professionals and realise the full potential of European cooperation for specialised healthcare by exploiting the latest innovations in medical science and health technologies.

More information available at: <https://vascern.eu>

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