Percutaneous sclerotherapy of head and neck low-flow vascular malformations

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Percutaneous sclerotherapy of head and neck low-flow vascular malformations

Introduction / Objective

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![Image showing vascular anatomy](image1)

![Image showing AVM](image2)

![Image showing lymphatic and venous structures](image3)
Percutaneous sclerotherapy of head and neck low-flow vascular malformations

Material / Methods

• Retrospective Review
• Aug 2011 – Jun 2016
• 12 patients

• 5 males
• 7 females

• 0 - 5 yo – 4 patients
• 10-20 yo – 2 patients
• > 20 yo – 6 patients

• 8 venous
• 2 lymphatic
• 2 capillary

• swelling (12)
• cosmetic deformity (12)
• hemorrhage (3)
• functional problems (2)
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Material / Methods

- Physical Examination
- Doppler
- CT Scan / MRI
- Angiographic suite
- General anesthesia
- AB + steroids
- Aspirate first

- Bleomycin – 1
- Alcohol – 3
- Sclerogel® – 3
- Alcohol + Bleomycin – 2
- Alcohol + Sclerogel® – 3

- If venous drainage compress the vein while injecting the sclerosing agent
Clinical Cases
Percutaneous sclerotherapy of head and neck low-flow vascular malformations

40 yo, ♀
Venous malformation
Inferior lip/chin - previous surgery
Percutaneous sclerotherapy of head and neck low-flow vascular malformations

2 session - 5 punctures
18 cc alcohol (99%)
Percutaneous sclerotherapy of head and neck low-flow vascular malformations

Jan / 2013
Sept / 2013
Percutaneous sclerotherapy of head and neck low-flow vascular malformations

5 yo, ♀
Venous malformation
Left cheek
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2 sessions - 10 mo in between
4 punctures + 5 punctures
8,5 cc + 10cc alcohol (99%)
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Aug / 2011

Dec / 2012

Apr / 2012

Feb / 2013
Percutaneous sclerotherapy of head and neck low-flow vascular malformations

40 yo, ♀
Venous malformation
Tongue

2 sessions - 7 mo in between
12000U bleomycin
2cc alcohol (99%)
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2 yo,♀
Lymphatic malformation
Submandibular
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1 session
12000U bleomycin
Percutaneous sclerotherapy of head and neck low-flow vascular malformations

Aug / 2011

Dec / 2012

Apr / 2012

Feb / 2013
Percutaneous sclerotherapy of head and neck low-flow vascular malformations

27 yo, ♀
Venous malformation
Face/neck

4 sessions
24000U bleomycin
15ml alcohol (99%)
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26 yo, Venous malformation Face/neck

14 sessions Sclerogel ® and alcohol (99%)
Percutaneous sclerotherapy of head and neck low-flow vascular malformations

26 yo, Venous malformation Face/neck

5 sessions
30ml alcohol (99%)
Percutaneous sclerotherapy of head and neck low-flow vascular malformations

26 yo, Venous malformation
Face/neck

5 sessions
30ml alcohol (99%)
Percutaneous sclerotherapy of head and neck low-flow vascular malformations

2 yo, Capillary malformation Pre-auricular

2 sessions
Alcohol (99%) and Sclerogel®
Results

- All the patients benefited from treatment
- Excellent result - 6 patients (50%)
- Good result - 2 patient (1 still under treatment)
- Fair result - 4 patient (all still under treatment)

- Transient facial palsy (2)
- Small cheek scar (1)
- No systemic complications
- No surgery after treatment
Conclusions

With thorough planning and careful patient selection, sclerotherapy is a simple, safe and cost effective treatment for the Low Flow Vascular Malformations.