FEBRUARY 7-9 2019 MARRIOTT RIVE GAUCHE & CONFERENCE CENTER PARIS, FRANCE WWW.CACVS.ORG

Morel Lavallée syndrome: Treatment Dra Lourdes Reina Dra Agnieszka Nowak



Disclosure

Dr. Lourdes Reina

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





Polidocanol foam sclerotherapy of seromas after varicose vein surgery



lospital Central de la Cruz Roja San José v Santa Adela

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🚾 Comunidad de Madrid





Seromas after varicose vein surgery

• Seromas are rare complications: 0%-3.4%

Lymphatic channels transacted during surgery

form collections in subcutaneous tissue

Pittaluga P.. Lymphatic complications after varicose vein surgery: risk factors and how to avoid them. Phlebology 2012; 27 (Suppl,1):139-42. Moritz RKC.Polidocanol foam sclerotherapy of persisting postoperative seromas after varicose vein surgery: a serie of six cases. Phlebology 2013; 28:341-346. Dra. Lourdes Reina





Seromas after varicose vein surgery

• Mostly presents as **palpable masses** or swelling in phlebectomy áreas.

 Sometimes, pain at palpation or inflammation signs as redness, heat and spontaneous pain.





Seromas after varicose vein surgery

Complicated by:

- Infection.
- Compression of structures: restricted blood flow and neuropathy.
- In rare cases, lymphedema.

Significant **impairment of quality of life**, especially if **chronic course**



Seromas and lymphoceles after varicose vein surgery

 Conventional treatment such as "wait and see", compression, manual lymphatic drainage and sterile needle aspiration remain the preferred choice.



• In persistent cases: surgical excision or sclerotherapy.

Dra. Lourdes Reina





Polidocanol sclerotherapy of seromas after varicose vein surgery

- Laverson 1999: **1 recurrent case** with liquid pol.
- Moritz 2013: 6 recurrent cases after single needle aspiration treated with 0.5 % pol foam.
- Fernández 2016: paraprothesics and postphlebectomy seromas

with 2% pol foam.

safe and effective treatment

Laverson S..Plast Reconstr Surg 1999;104:1212. Moritz RKC et al. Phlebology 2013; 28:341-346.Fernández-Quesada F. Angiología 2016; 68(5):439-442



Polidocanol foam sclerotherapy of seromas after varicose vein surgery

Preliminary experience in Cruz Roja Hospital

• We added this **off-label** treatment in our Unit in March 2016 until nowdays.

• Not followed a unified protocol: treating physicians' criteria.

Technique of foam sclerotherapy of seroma after varicose vein surgery

- Local anesthesia.
- Echoguided evacuation of seroma.
- Echoguided injection of 2% polidocanol foam 1:4 Tessari method.
- After 2-3 minutes, evacuation of foam.
- Excentric compression and medical stockings.
- Revision in 1-2 weeks and retreatment if needed.





Technique of foam sclerotherapy of seroma after varicose vein surgery



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AP P

Follow-up

Ecodoppler:

• Septae and thickeness of cavity walls:

-Good answer to treatment.

 After both single needle aspiration and sclerotherapy.





Polidocanol foam sclerotherapy of seromas after varicose vein surgery

• Aim of the study:

Verify the **effectiveness** and **safety** of polidocanol foam sclerotherapy of seromas after varicose vein surgery.



Material and Method: Methodology

• Descriptive, observational and retrospective study.

 Analyzed 34 seromas in 33 patients that complicated 2.690 varicose vein interventions (1.2%) from march 2016 to december 2018.

• All seromas were located in phlebectomy areas:13 leg and 1 thigh.



Material and Methods Methodology

Variables:

- Demographic.
- Symptoms, postsurgery and seroma treatment complications.
- Time to resolution.
- Technique details.

Stadistic Analysis:

- SPSS 20 for Windows: Chi square test and Kruskal-Wallis test.
- It was considered significant the difference with a *p*<0.05





Material and Methods Methodology

Four groups of treatments:

Group 1: Compression.

Group 2: Single needle aspirations.

Group 3: Single needle aspirations. If recurrence or poor evolution foam sclerotherapy.

Group 4: Polidocanol foam sclerotherapy



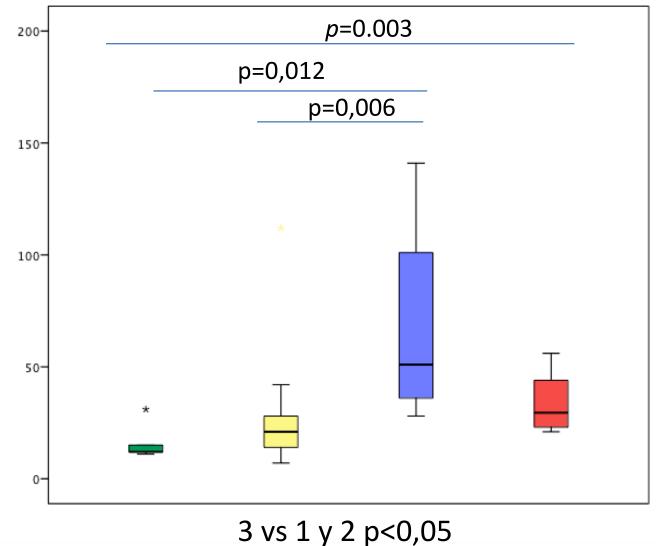


Results: demographic and clinical variables

	Compression treatment	Needle single aspiration	Single needle aspiration and sclerotherapy	Sclerotherapy	p
	n=5	n=15	n=8	n=6	
Age	45,80 (14.41)	52,93 (9.75)	56.62 (8.01)	60.66 (13.29)	0.23
Sex % Male	60% (3)	66.7% (10	37.5% (3)	50% (3)	0.58
Symptoms	0% (0)	20% (3)	75% (6)	66,7% (4)	0.008
Postsurgery complications	20 % (1)	20% (3)	25% (2)	0% (0)	0.64
Seroma treatment complications	0% (0)	0% (0)	0% (0)	16.7% (1)	0.18
Time to resolution (days)	16.20 (8.40)	27.53 (25.98)	99.37 (123.15)	33.83 (13.81)	0.003



Time to resolution



Results: technique variables

	Compression treatment n=5	Needle single aspiration n=15	Single needle aspiration and sclerotherapy n=8	Sclerotherapy n=6	þ
Initial volume aspirated (ml)		1.04 (0.84)	2.06. (2.09)	1.68 (1.01)	0.14
Numbers of single needle aspirations		1.5 (0.74)	1.12 (0.35)		0.162
	No sta				
Total aspirated volume (ml)		tiscally sign	nificant diffe	Tences	0.20
Numbers of sclerotherapy sessions			1.75 (1.75)	1.16 (0.40)	0.65
Total aspirated volume sclerotherapy (ml)		Dra. Loundes Reina	4.15 (5.33)	2.26 (2.36)	0.74





Results

Complications:

• Secondary seroma treatment:

 \circ 1 minor eczema secondary to compression in group 2.

- All four treatments were safe
- No difference between the 4 groups



Results

Complications:

• Secondary to vein surgery or seroma :

 \circ 1 distal SSV thrombophlebitis and leg haematoma.

- \circ 1 surgical wound infection.
- \circ 3 transitory sensitive neuropathy in medial leg.
- \circ 1 lymphorrhagia.
- \circ 2 medial thigh haematoma.
- \odot 2 transitory lymphedema

No difference between the 4 groups

Check for updates

Original article

Polidocanol foam sclerotherapy of persisting postoperative seromas after varicose vein surgery: a series of six cases

R K C Moritz, S Reich-Schupke, P Altmeyer and M Stücker Department of Dermatology – Vein Centre of the Departments of Dermatology and Vascular Surgery, Ruhr-Universität Bochum

Comparing our results with Moritz's study:

- Approach similar to our group 3.
- Good results.
- But:
 - -Time to regression of seromas longer.
 - Number of sclerosant sessions higher.

Bigger seromas

0.5% Polidocanol

Sclerotherapy after three previous single needle aspirations by protocol.





Conclusion

 Polidocanol foam sclerotherapy has showed to be a safe and effective treatment not only in recurrent or poor evolution after conventional treatment

Also, as first choice treatment

It could be even more effective









Conclusion

• We cannot conclude if one treatment was better than another:

observational descriptive study with a very small numbers of patients







Conclusion

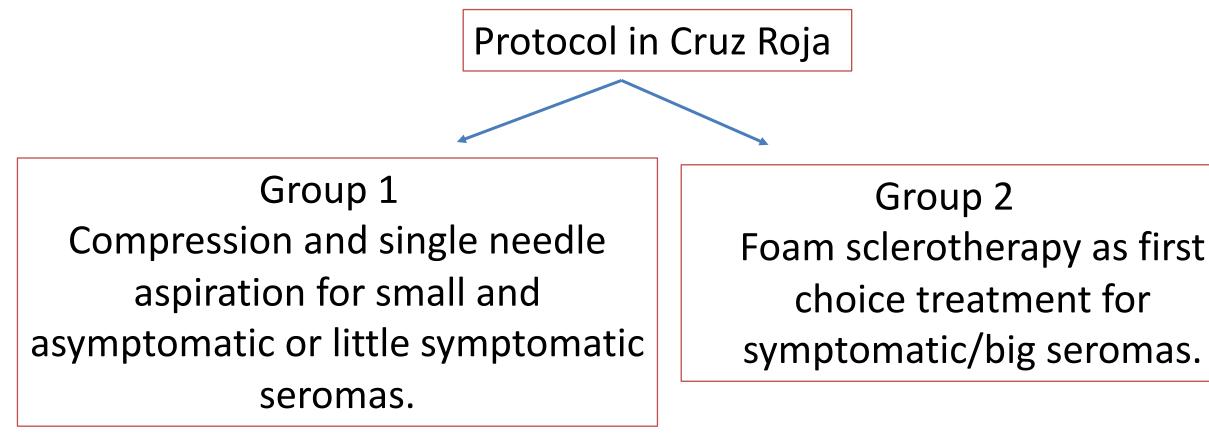
• We need RCTs.

- Limitations:
 - Rare complication: ¿multicentre study?
 - Most are small seromas with good evolution with conventional treatment.





Until more evidence appears...



...and see what happens



