First use of percutaneous cryotherapy ablation for pain treatment of vascular skin angiomatous lesion.

Abstract ID : 1369
Submitted by : hedi beji the 2016-02-17 19:40:51
Category : Targeted Therapy
Typology : Poster
Status : Validated
Authorisation to disclose : Yes/Oui

Introduction:
Spindle cell Hemangioma was described in 1986 by Weiss and al. These lesions can be painful and cause a functional discomfort for patients. We report the first case of percutaneous cryotherapy for symptomatic spindle cell cutaneous hemangioma localized in the digital part of the hand.

Materials /Patients and methods:
A 17-years old girl with no medical history, was followed for a left nodulose palmar angiomatous since age of 10. Due to the increase in size, a surgical treatment was performed. Pathology confirmed the diagnosis of spindle cell hemangioma. Three months after surgery, patient consulted for new several lesions in the site of the previous surgery and was confirmed by MRI. Because of this evolution, anti-angiogenic therapy was performed. Due to the side effects, treatment had to be stopped early. During multidisciplinary meeting, a percutaneous cryotherapy was decided to treat pain symptoms.

Percuteaneous treatment consisted in the setting up of a cryotherapy needle (SEED ICE probe, GALIL MEDICAL based on Arden Hills, Minnesota) under ultrasound guidance in the center of the target lesion. Percutaneous carbodissection was performed around the target lesion in order to limit the risk of neurological and skin lesion (frostbite). Control cube size and correct position of the needle were made by realtime ultrasound monitoring.

Results:
No complication such as neurological, skin or bleeding lesion was reported. The patient was seen at D15 and M1, M3, M6 post-procedure. No functional impairment, discomfort or pain on the left hand was detected. MRI control was performed one month later, and identified a lesion significantly decreasing from 8.5 cm3 to 2.4 cm3 (72%)

Conclusion:
We described the first use of percutaneous cryotherapy as an analgesic modality for a fusiform cells cutaneous hemangioma. This therapeutic modality appears to be an alternative treatment with no complication in case of pain symptoms.

Keywords : Cryotherapy, angioma, anti-angiogenic, analgesic, Interventional radiology
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