



## Cryoablation of symptomatic recurrent neck desmoid tumour

Dr. Fotiadis

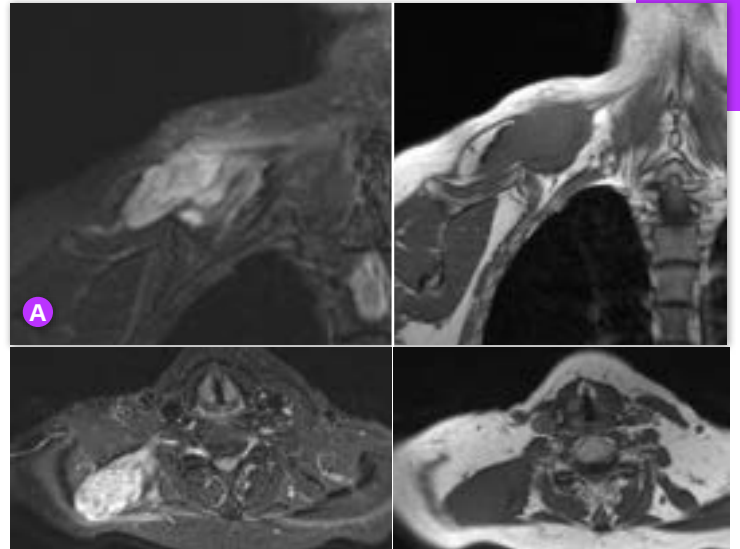
*The Royal Marsden Hospital, Chelsea, London, UK*

Results from case studies are not necessarily predictive of results in other cases. Results in other cases may vary.

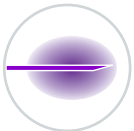


### PRESENTATION

- 48 year old Female
- June 2015 Initial Surgery
- May 2016 Recurrence-Re-resection
- July 2016 RT 56Gy/28#
- Oct 2017 Symptomatic Recurrence
- June 2018 Vinorelbine.
- July 2020. Continuous progression and persistent constant pain. MRI shows a 8.2 cm x 5.3 cm x 3.7cm cellular tumour of the right levator scapula and trapezoid muscles **A**

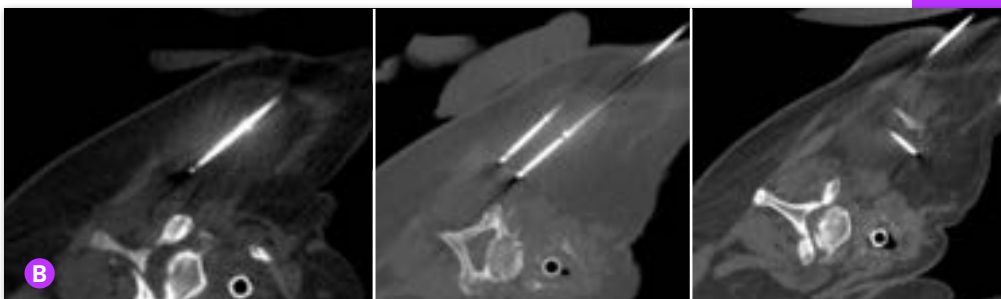


**Image A:** Coronal and axial STIR and T1 images of the large cellular recurrent desmoid tumor of the right levator scapula muscle

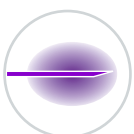


### TREATMENT PLAN

- CT guided Cryo-ablation under General anaesthesia. Three IceFORCE™ 2.1 CX probes and one IceRod™ 1.5 CX were inserted into the lesion. Warm saline in sterile gloves applied on the skin to prevent frostbite **B**



**Image B:** Three IceFORCE needles placed parallel to the long axis of the tumor and one IceRod along the short axis at the caudal edge



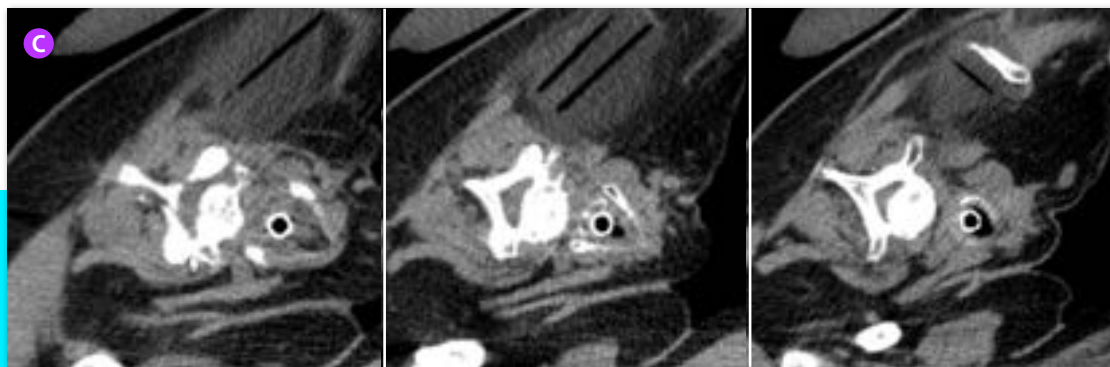
### TREATMENT



- Complete coverage of the lesion by the iceball with a 5mm margin **C**

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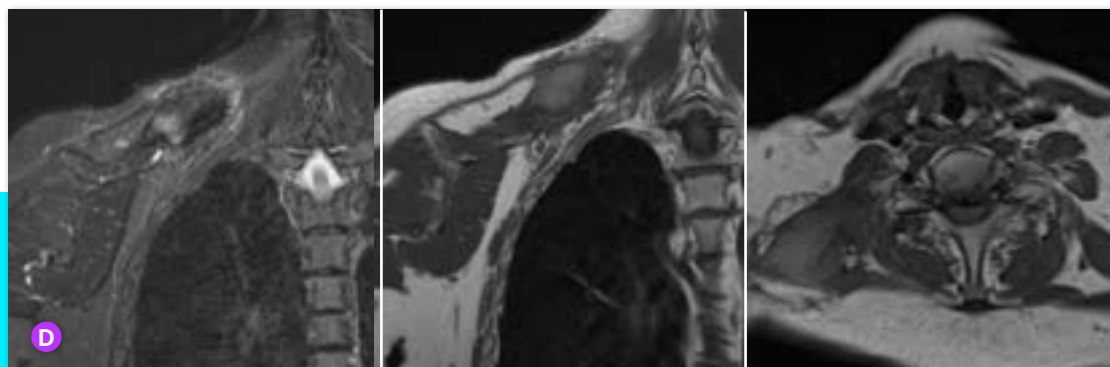


**Image C:** CT immediately post ablation showing complete coverage of the mass with a 5mm margin



## OUTCOME

- ▶ Low grade fever overnight due to post ablation syndrome and tumor lysis, settled with paracetamol. Next morning was the first day in 5 years patient was completely pain free)
- ▶ At six months follow up the patient remains completely symptom free and the tumor is decreasing in size replaced mainly by scar tissue **D**

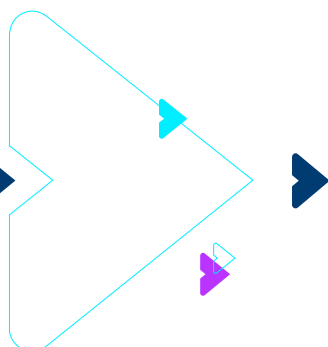


**Image D:** MRI six months post procedure , coronal STIR & T1, and axial T1, showing scarring and necrosis of the tumour with no cellular component and decrease in overall size.



## CONCLUSION

- ▶ Cryoablation is safe and effective treatment of desmoid tumors with symptomatic and local tumor control. Large volume tumors could be treated with a combination of different Cryoablation needles



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