

# Desmoid Tumors in Pediatrics

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Hope lives here.



## Desmoid Tumors in Pediatrics

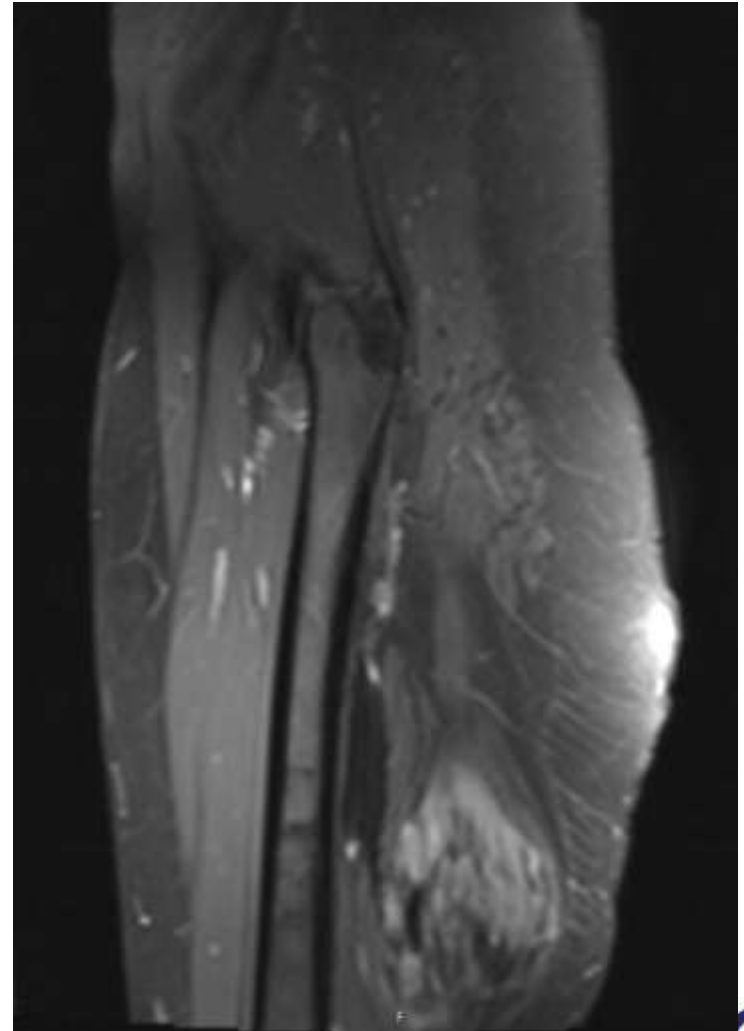
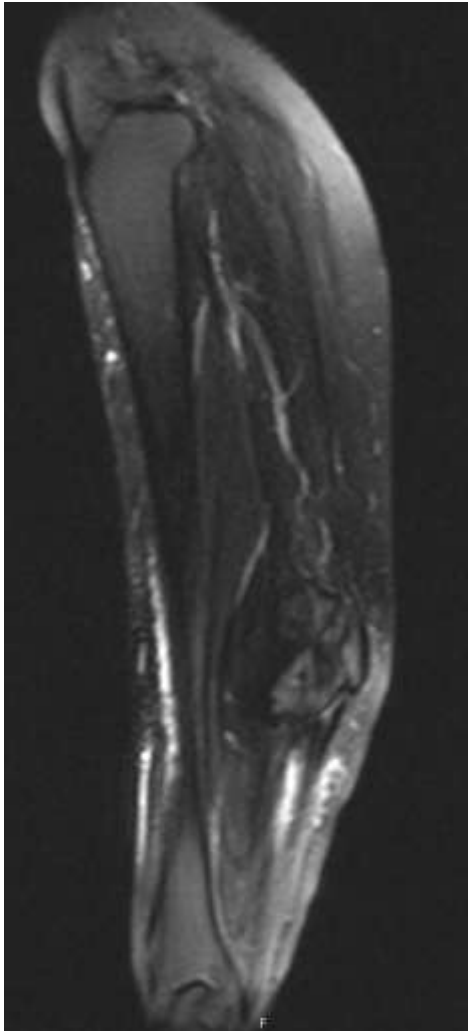
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# Desmoids Vary

- Location
- Symptoms
- Appearance in images
- Appearance grossly
  - even within one tumor
- Appearance under the microscope
- Responses to treatment

# Two Tumors, One Patient



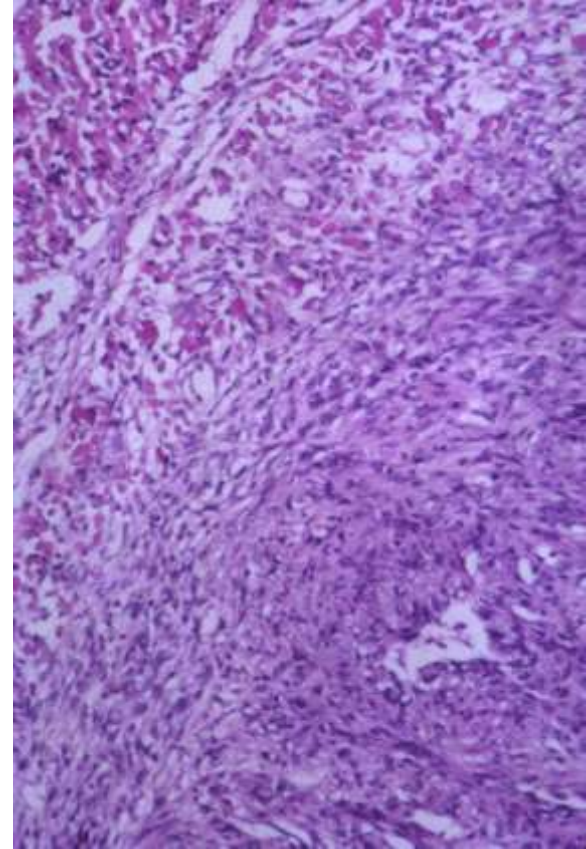
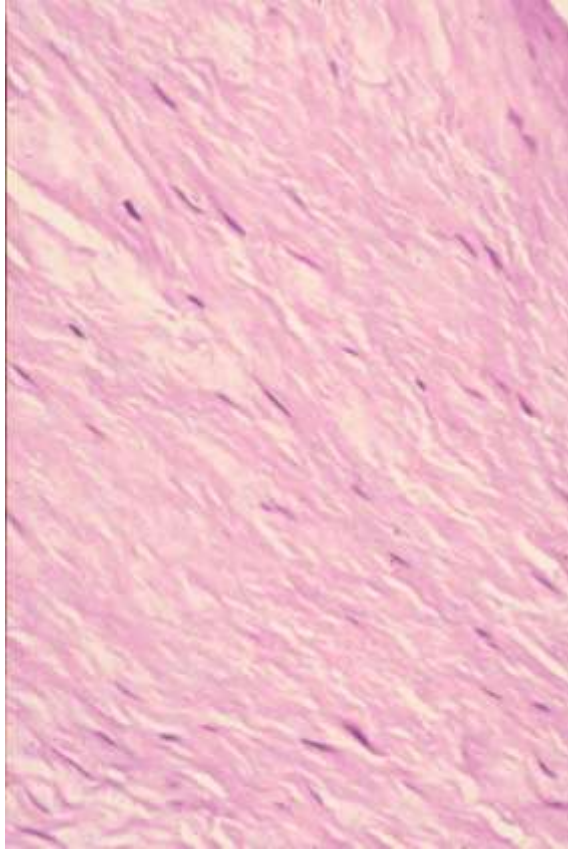
# Desmoid, “Gross Specimen”



# Desmoid, Fixed & Sectioned



# Desmoids, Bland & “Nasty”



# Principles of Treatment

- Use multidisciplinary care
  - oncologists
  - surgeons
  - pathologists
  - physical therapists
  - social workers
  - others

# Principles of Treatment

- Use multidisciplinary care
- Avoid late effects whenever possible

# We Can Do Lots of Damage

- Cyclophosphamide
  - infertility in males
  - low blood counts
  - bladder damage
- Doxorubicin
  - heart damage
- Radiation therapy
  - growth disturbances
  - malignant transformation
- Surgery
  - disfigurement
  - disability

# *The Dutch Hemipelvectomy Site*



# Principles of Treatment

- Use multidisciplinary care
- Avoid late effects whenever possible
- Minimize short-term side-effects

# Short Term Side-Effects

- Nausea and vomiting
- Hair loss
- Low blood counts
  - risk of infection or bleeding
  - need for transfusions
- Mouth sores
  - malnutrition
- Sensory and motor changes
  - “pins and needles”
  - clumsiness



# Principles of Treatment

- Use multidisciplinary care
- Avoid late effects whenever possible
- Minimize short-term side-effects
- Eradication is not necessary

# Foot Desmoid, 7 years



# Principles of Treatment

- Use multidisciplinary care
- Avoid late effects whenever possible
- Minimize short-term side-effects
- Eradication is not necessary
- It's gonna take a while

# Breathe... In... and... Out...

- Desmoids respond slowly
  - and may continue to shrink after treatment ends
- We cannot predict response to treatment
- They often recur or resume growing
  - and need treatment again

# Speculations and Hopes

- Desmoids are a family of tumors with similar microscopic appearances – and different responses to different treatments
- Distinguishing members of the family will aid selection of treatment
- Understanding biology will lead to new treatments

