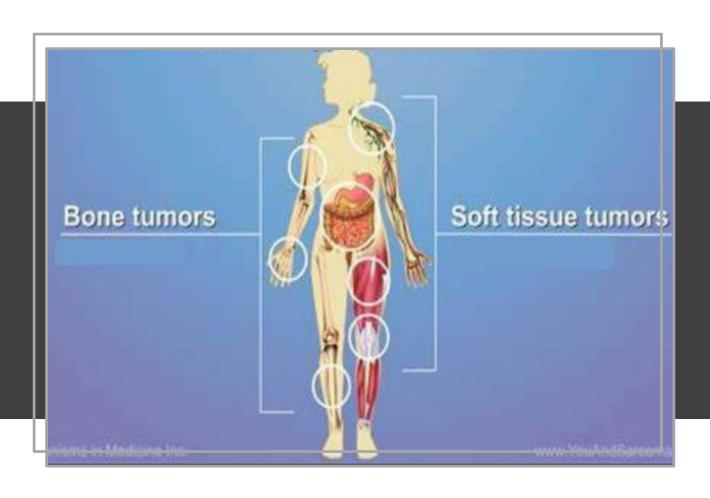
Benign and reactive sarcoma like lesions Dr Manjinder Sidhu, Sr. Consultant Radiation Oncology, DMCH cancer center, Ludhiana

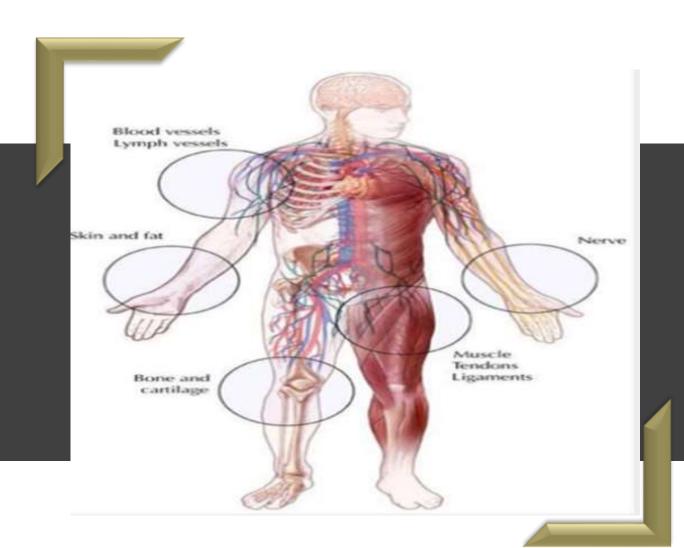
Term Sarcoma



Definition

Include 2 broad group of tumors which arise in bone or soft tissue.

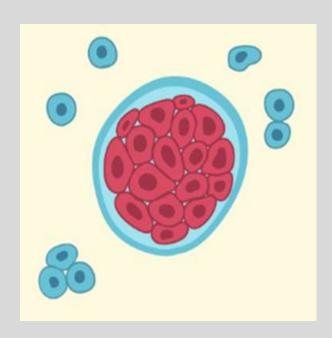
Soft tissue tumors



Site of origin

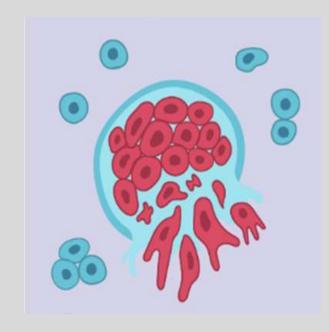
Occur in tissues that connect, support and surround other body structures. This includes muscle, fat, blood vessels, nerves, tendons and the lining of your joints.

Different soft tissue tumors.



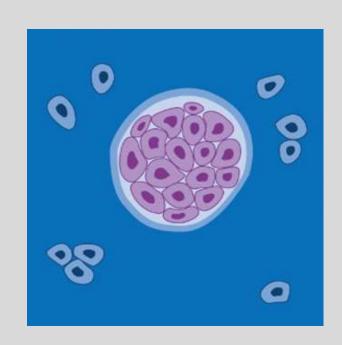
Benign

Cannot spread to other parts



Malignant

Cells spread to different parts of body are called soft tissue sarcoma



Intermediate

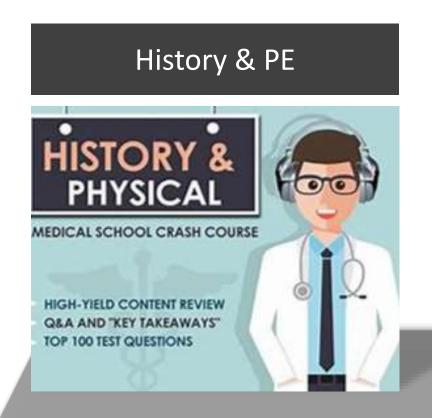
Grow and invade nearby organ but do not spread are **reactive and benign.**

Commonly seen Intermediate soft tissue tumors in clinical practice

(also called benign and reactive sarcoma like lesion)

- Dermatofibrosarcoma protuberans
 - 2 Fibromatosis (Desmoid)
- 3 Solitary fibrous tumors
- 4 Atypical lipomatous tumor (ALT)
- 5 Infantile fibrosarcoma

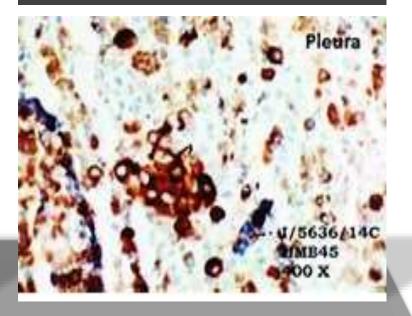
Diagnosis of soft tissue tumor suspecting sarcoma like



MRI is IOC



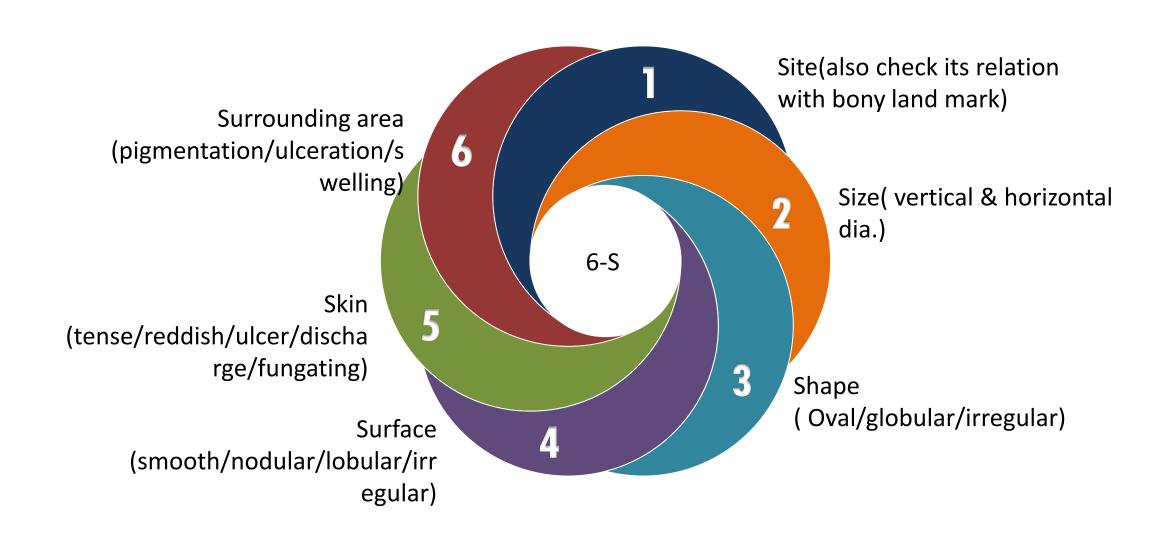
Biopsy & IHC



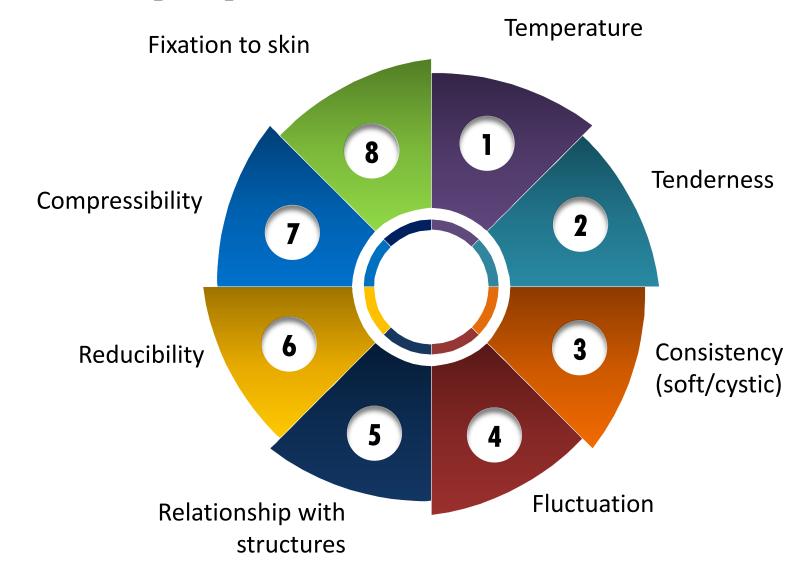
Important points while taking history of present illness of a swelling.

Mode of onset & Other features Duration Pain & fever progress • It is important Secondary Started Any associated changes to note spontaneous or pain duration of Movement after trauma. Relation of swelling Rapid or slow Loss of wt & fever with growing swelling. appetite.

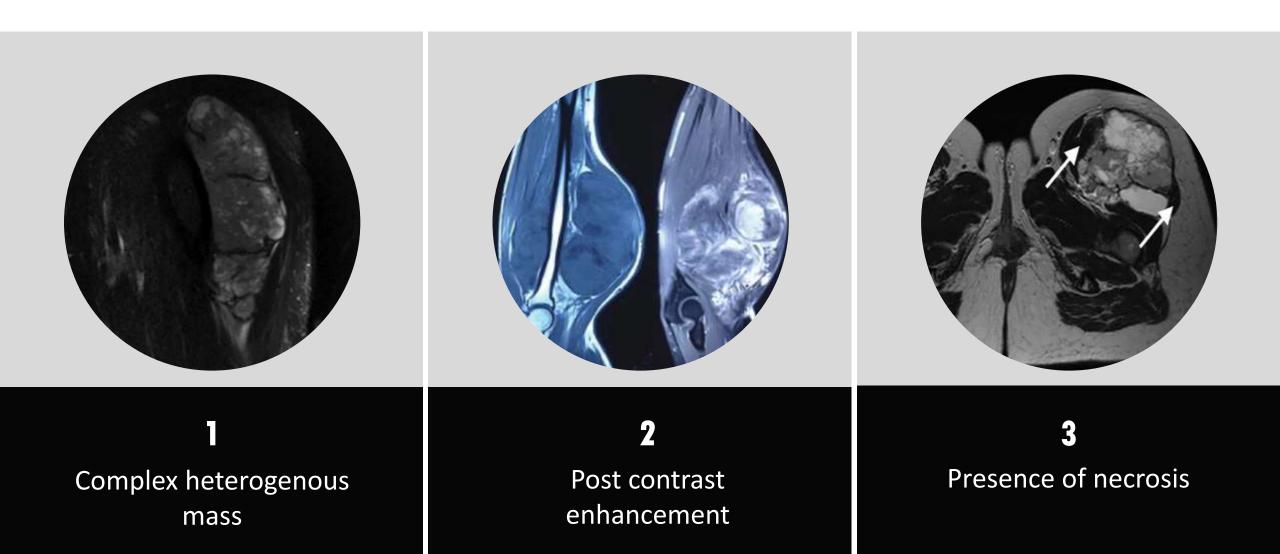
6- S of inspection of soft tissue swelling are



Defined order of palpation



Features which are not seen on MRI in these tumors

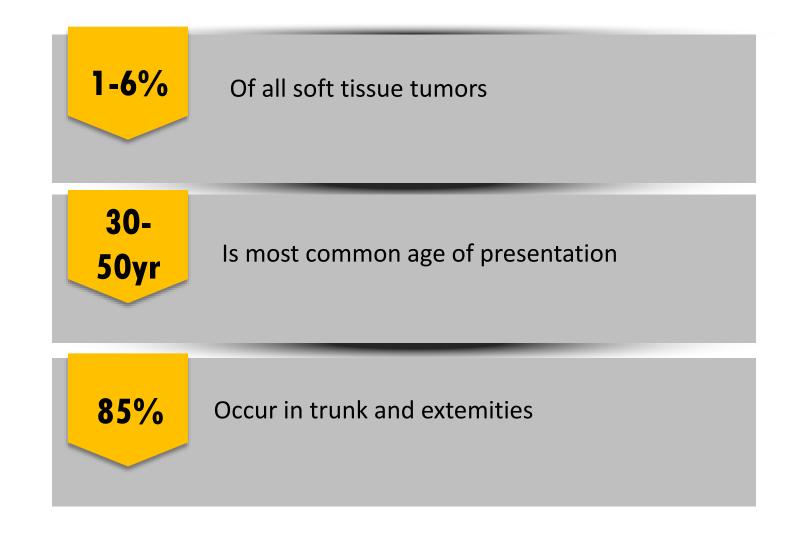


Dermatofibrosarcoma protuberans



It slow-growing tumor of the fibrous tissue beneath the skin, usually in the trunk or limbs.

DFS



14-52% High rate of local recurrence after treatment

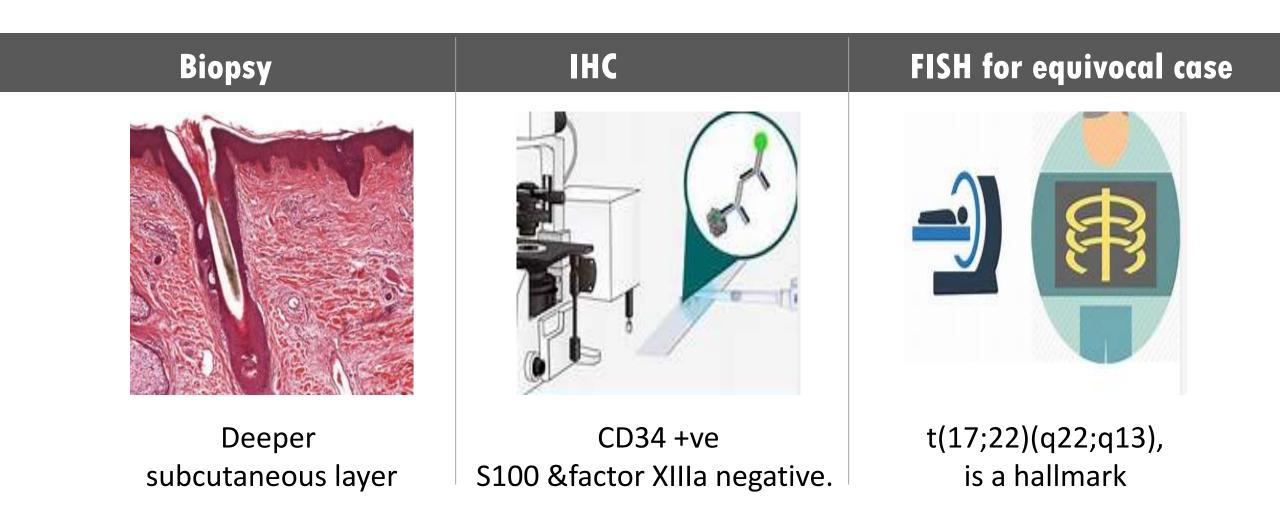
1-4%

Risk of distant metastasis

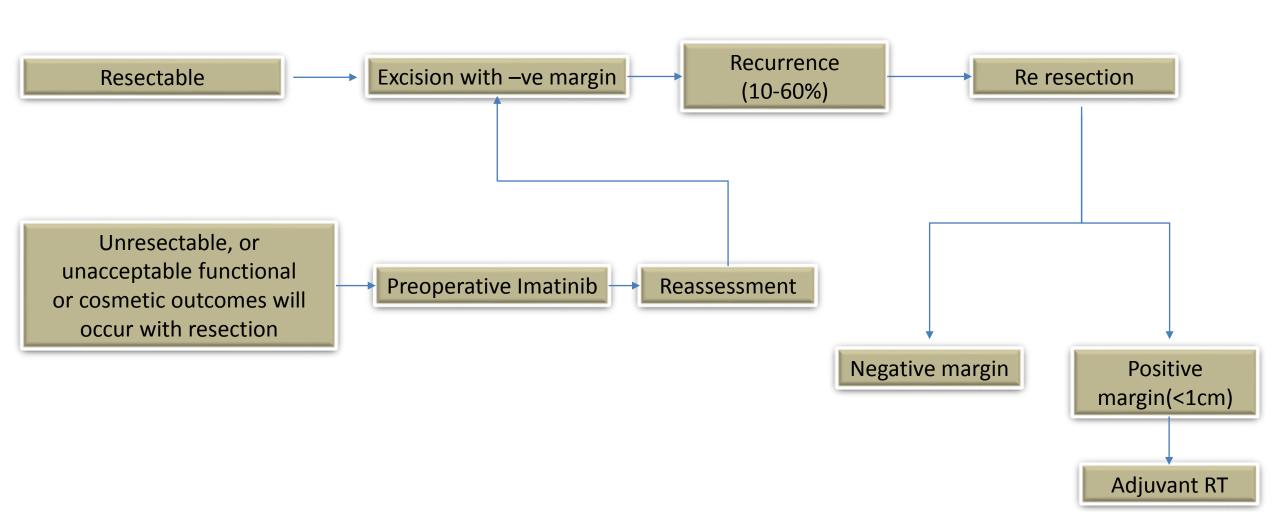
99.1%

10 yr survival rate

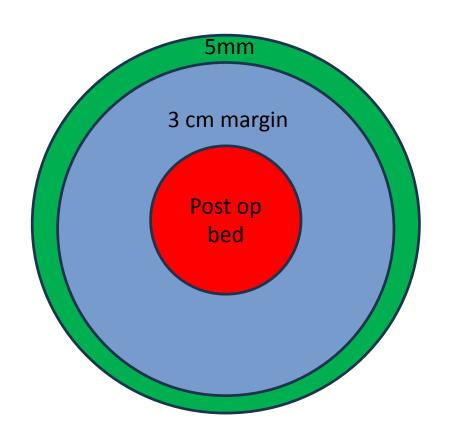
Pathological features of DFSP



Management of biopsy confirmed DFSP



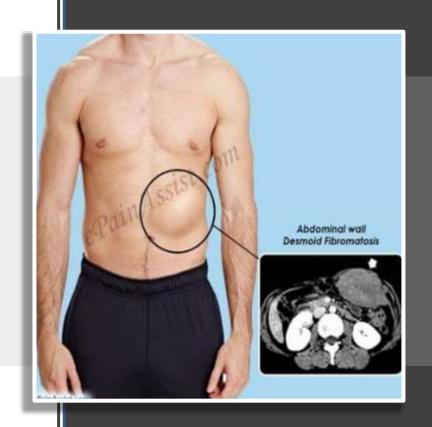
Adjuvant RT in margin positive DFSP



Dose is 66Gy to PTV

Desmoid Tumors (Aggressive Fibromatosis)

Clonal fibroblastic proliferation that arises in the deep soft tissues which grows slowly and steadily and rarely metastasis



Desmoid tumors

3%

Of all soft tissue tumors

30-40yr

Peak age of presentation

7.5 cm

Median tumor size on presentation

10%

Occur with FAP and Gardner syndrome

Pathological features of desmoid

Microscopy

Proliferation of uniform spindle cells resembling myofibroblasts, in the background of abundant collagenous stroma and vascular network.

Hyperchromasia & nucli atypcia are absent

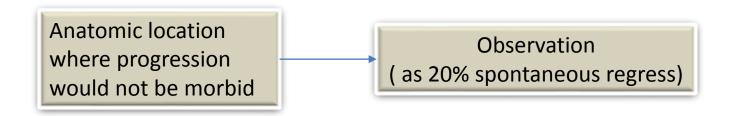


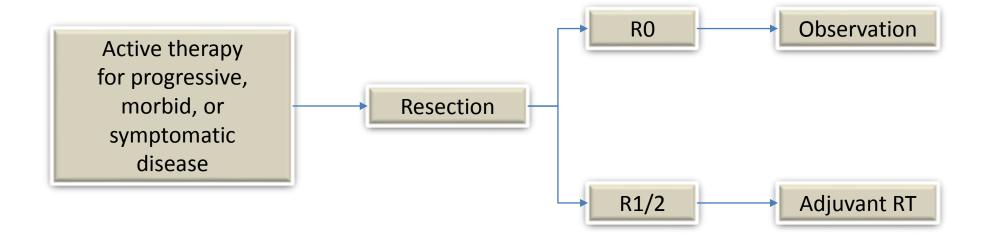


IHC

+ve for nuclear beta-catenin, vimentin, COX 2, androgen&estrog en receprtos

Management of desmoid



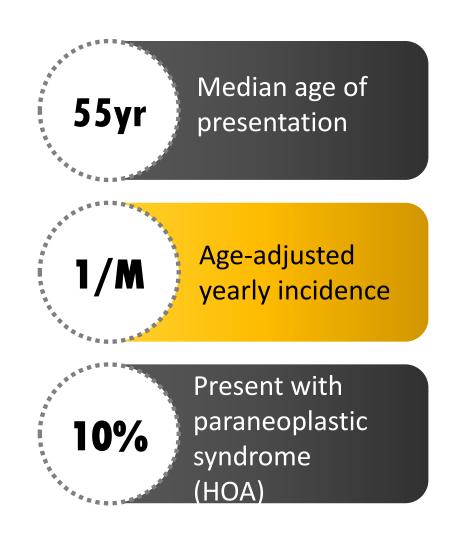


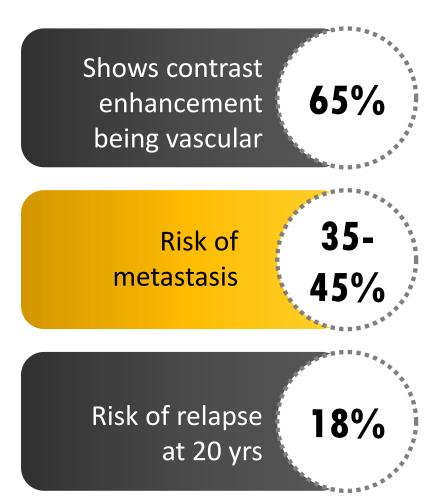
Solitary fibrous tumors (earlier called hemangiopericytomas)

Fibroblastic tumor which starts in the thigh, underarm, pelvis and also in pleura.

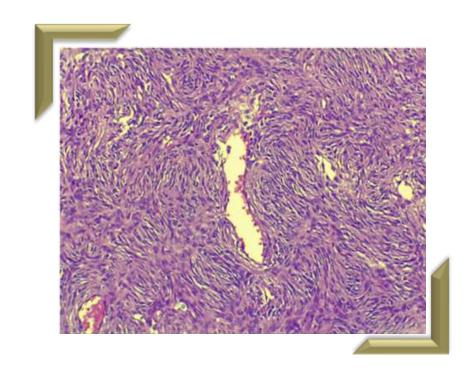


Solitary fibrous tumor

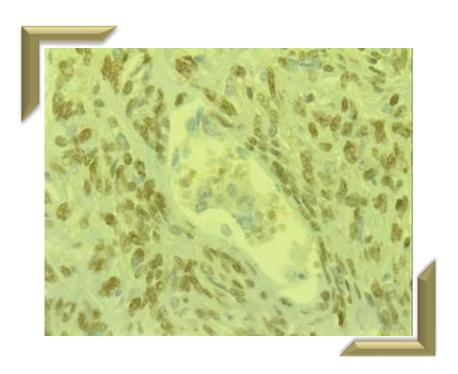




Two histopathological features of solitary fibrous tumor

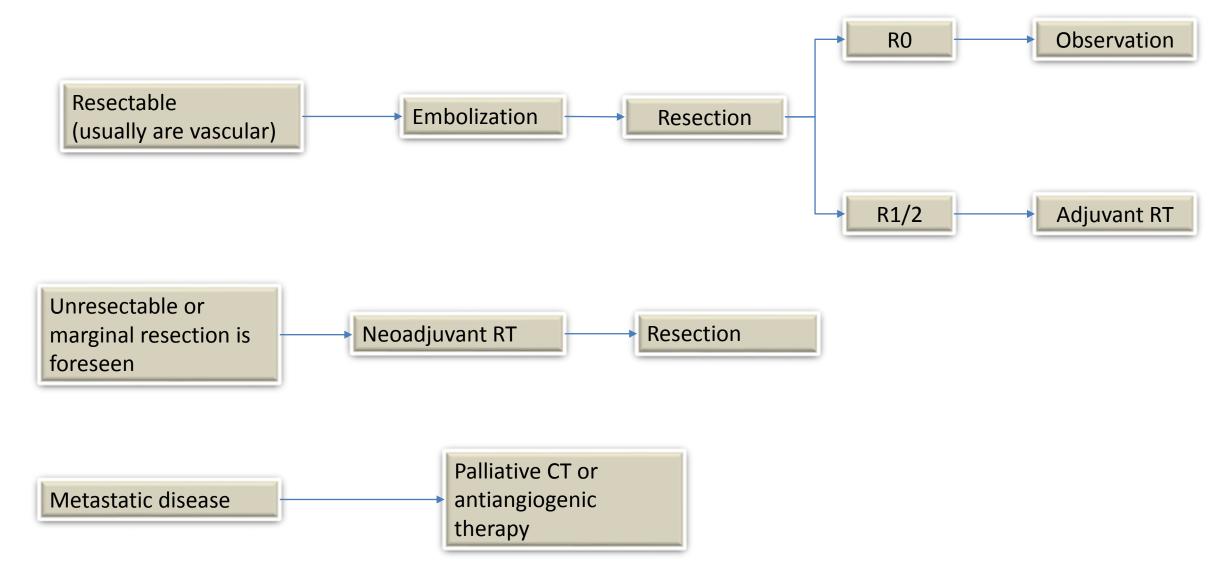


• Staghorn appearance



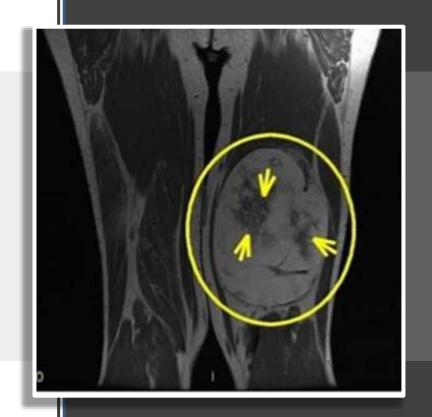
 STAT6 positive nuclear immunostaining

Management of SFT

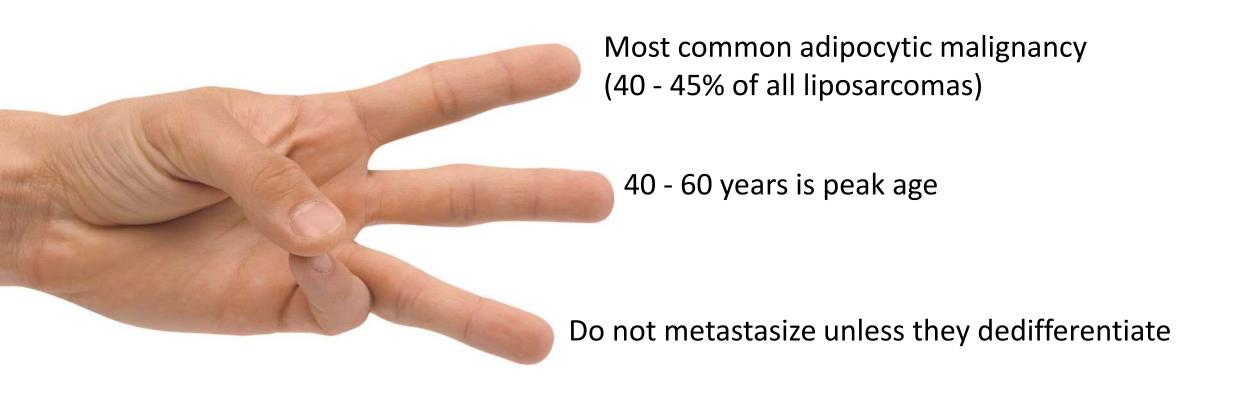


Atypical lipomatous tumor (ALT)/Well-differentiated liposarcoma (WDLS)

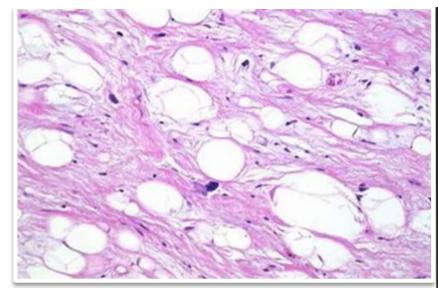
Locally aggressive mesenchymal tumor from fat tissue



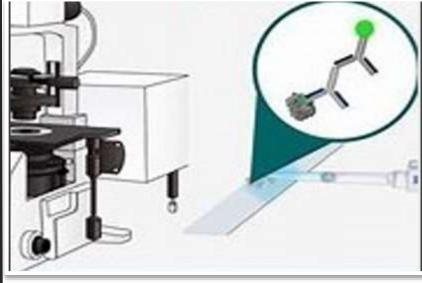
3 things of ALT are



Pathologically



 Mature adipocytes and stromal cells with at least focal cytologic atypia MDM2, CDK4 and p16 together have 71% sensitivity and 98% specificity on IHC





Infantile fibrosarcoma

- 1% of all childhood cancers
- Originates in the connective fibrous tissue found at the ends of long bones
- 3 Assoicated with ETV6 and NTRK3 gene fusion
- 4 Locally aggressive but rarely metastasizes
- TOC is resection

Summary

Intermediate ST tumor are usually locally aggressive MRI is IOC 2 Biopsy with IHC is cornerstone for diagnosis 3 Complete surgical removal with negative margin is TOC Adjuvant RT is added if margins after resection are <1 cm Chemotherapy has a palliative role in metastatic cases

Thank You

Contact Us For More Info Manjinder Sidhu aoiludhiana@ @Si1Dr manjinder0391 9530696006 americanoncology. @gmail.com

com