Pediatric Dermatopathology

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Lichen Striatus
Histopathology

- Lichenoid interface dermatitis
- Superficial and Deep perivascular and periadnexal lymphocytic infiltrate
- Variable epidermal changes
Male Fetus
Coccygeal Mass
Infantile Fibrosarcoma
Histopathology

- Cellular tumor with diffuse infiltration into fat
- Minimal pleomorphism
- Mitotically active
- Scattered chronic inflammatory cells common
- t(12;15)(p13;q25) Fusion of ETV6 with neurotrophin-3 receptor gene
- VIM+

Wednesday, May 22, 13
3 month old Girl
Anus
ES/PNET
(Ewing’s Sarcoma/
Small Round Blue Cell Tumors of Childhood
Histopathology

- Small round blue cells
- Rarely show neural rosettes
- IPOX-CD99
- t(11;22)(q24;q12)
- DDX: Small round blue cell tumors
## CD99 Positive Tumors

<table>
<thead>
<tr>
<th>Diagnosis</th>
<th>Positive %</th>
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<tbody>
<tr>
<td>ES/PNET</td>
<td>95</td>
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<tr>
<td>T-lymphoblastic lymphoma</td>
<td>92</td>
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<tr>
<td>Poorly differentiated synovial sarcoma</td>
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<tr>
<td>Small cell osteosarcoma</td>
<td>23</td>
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<tr>
<td>Rhabdomyosarcoma</td>
<td>21</td>
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<tr>
<td>Desmoplastic small round blue cell</td>
<td>16</td>
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<td>Small cell carcinoma</td>
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<td>Merkel cell carcinoma</td>
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<tr>
<td>Neuroblastoma</td>
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</tbody>
</table>
t(11;22)(q24;q12) Tumors

- Skeletal and extra-skeletal Ewing’s sarcoma
- PNET
- Askin’s tumor
- Olfactory neuroblastoma
- Small-cell osteosarcoma
- Mesenchymal chondrosarcoma
Giant Cell Fibroblastoma
Histopathology

- Upper trunk and extremities
- Median age 3 yrs
- Variable cellularity
- Pseudovascular spaces lined by discontinuous giant cells
- CD34+
- Related to DFSP
- Recurrences in 50%
- No mets to date
- Wide local excision
Langerhans Cell Histiocytosis
Histopathology

- Effacement of DEJ by atypical mononuclear cells
- Reniform nuclei
- Variable eosinophils
- Abundant cytoplasm
- IPOX: CD1a+
- EM: Birbeck granules
Histopathology

- Typical clinical scenario
- Tissue culture-like proliferation of bland spindle cells
- Infiltrative into surrounding soft tissue
- Variable inflammatory cells
- MF common, no atypical MF
Epidermal Nevus
Histopathology

- Beware diagnosis of SK in child
- Multiple skin tag lesions with SK features
- ILVEN cases with psoriasiform changes
Spitz Nevus
Histopathology

- Circumscribed peripheral borders
- Vertically oriented nests of epithelioid and spindled melanocytes
- Streaming pattern
- Vertical clefting
- Increased vascularity
- Mitotic figures but none at base
- Kamino bodies