A 44-year-old male noticed a painless lump over his right hip of three months duration.

The mass was mobile, firm, yielding no fluid on aspiration.

A 4.0 cm, well-circumscribed soft tissue mass was surgically excised.
Diagnosis

- Lump of collagen?
- Hypertrophic scar?
- Dried bubble gum?
Desmoplastic Fibroblastoma

- Described by Evans in 1995
  - Soft tissue mass in adults
  - Small, slowly growing, painless
  - Nondescript microscopic appearance
Desmoplastic Fibroblastoma

- Thick collagenous to myxocollagenous stroma
- Spindle and stellate-shaped fibroblasts
- Fat entrapment
- Absent – necrosis, mitoses, hemorrhage, cellular atypia
Immunophenotype

- Positive - Vimentin, muscle-specific actin, alpha smooth muscle actin
- Negative - Desmin, S-100, CD34
Nuchal fibroma

- Neck and back
- Ill-defined mass
- Associated with diabetes
- Histologically very similar
Nuchal fibroma

**Gardner fibroma**

Childhood
- Often paraspinal, poorly demarcated
- Hypocellular, clefts between collagen bands
- CD34, beta-catenin positive
- May be associated with desmoid fibromatosis
- Associated with familial adenomatous polyposis
Nuchal fibroma

Gardner fibroma

**Neurofibroma**  Wavy cells
                Myxocollagenous stroma
                S-100 positive
Nuchal fibroma
Gardner fibroma
Neurofibroma

Fibromatosis

- Broad fascicles of spindled cells
- Poorly demarcated
- More cellular than desmoplastic fibroblastoma
Nuchal fibroma
Gardner fibroma
Neurofibroma
Fibromatosis

Low-grade fibromyxoid sarcoma

Fibromyxoid stroma
Low to intermediate cellularity
Sometimes difficult to distinguish from a reactive process
Less collagen and more cells than fibroblastoma

Nuchal fibroma
Gardner fibroma
Neurofibroma
Fibromatosis
Low-grade fibromyxoid sarcoma

Calcifying fibrous pseudotumor

Younger patients
Lymphoplasmacytic infiltrate
Psammomatous calcifications

Elderly, back
Coarse elastic fibers, in a collagenous matrix
Verhoeff elastin stain

Nuchal fibroma
Gardner fibroma
Neurofibroma
Fibromatosis
Low-grade fibromyxoid sarcoma
Calcifying fibrous pseudotumor
Elastofibroma

**Nodular fasciitis**

- Rapid growth, mitotically active
- Growth pattern resembling tissue culture
- More cellular, less organized than fibroblastoma
Desmoplastic Fibroblastoma

- **Rx:** Conservative local excision
  - No reported recurrence or metastasis

- Is this a true neoplasm?
  - 3 cases with reported 11q12 translocation
Desmoplastic Fibroblastoma

- Benign, soft tissue mass
  - Subcutaneous tissue of muscle of adults
- Well circumscribed, abundant collagen, hypocellular with cytoplasmic fibroblasts
- Cured by simple excision
- Must be distinguished from Gardner fibroma, fibromatosis and neurofibroma
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