

# **No Disclosures**

## **Learning Objectives**

- Define GVHD as it relates to the skin
- Recognize the skin changes of chronic graft-vs-host disease (cGVHD)
- Understand how the diagnosis is made
- Review skin directed management of cGHVD
- Be familiar with other skin problems post transplant

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## What is GVHD?

- Multi-organ disorder
- Immunocompetent donor T cells "graft" are given to immunocompromised "host"
- Major cause of morbidity and mortality
- Skin changes are very common
- Often resembles autoimmune or connective tissue disease

# What is Chronic Skin GVHD?

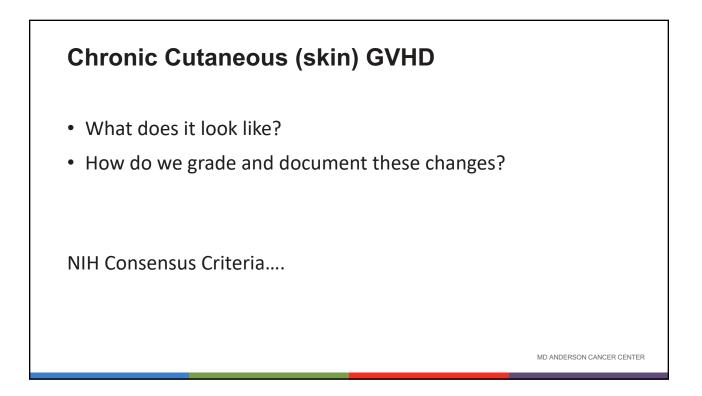
#### **Traditional definition**

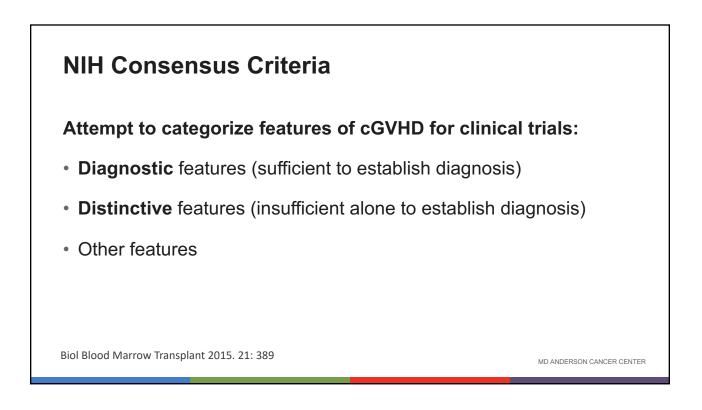
• Skin findings that look inflammatory (lichen planus) or fibrotic/scar-like (scleroderma) that occur 100 or more days post transplant

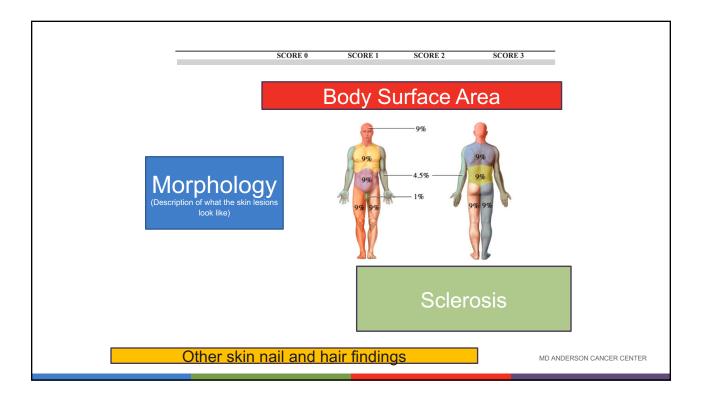
#### **Current definition**

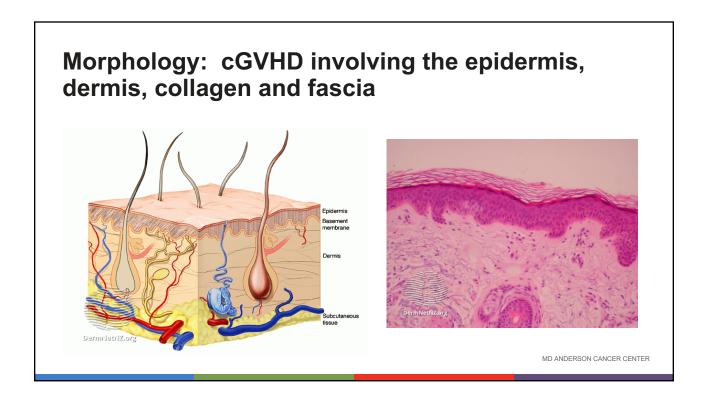
- Long term complication of allogeneic stem cell transplantation characterized by inflammatory or fibrotic skin problems that are not defined by time after transplant
- · Most of these changes are diagnosed on clinical examination
- · There may be no preceding acute GVHD

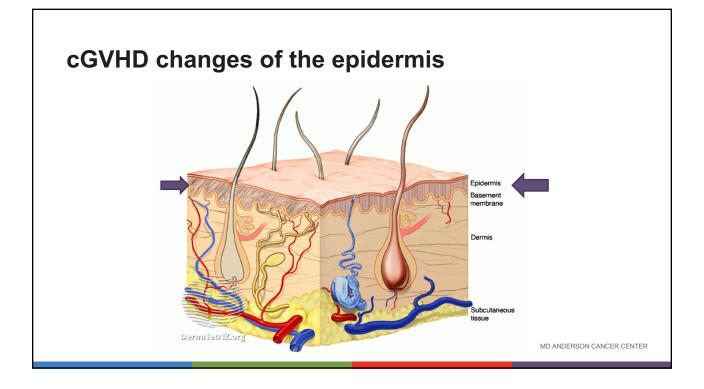
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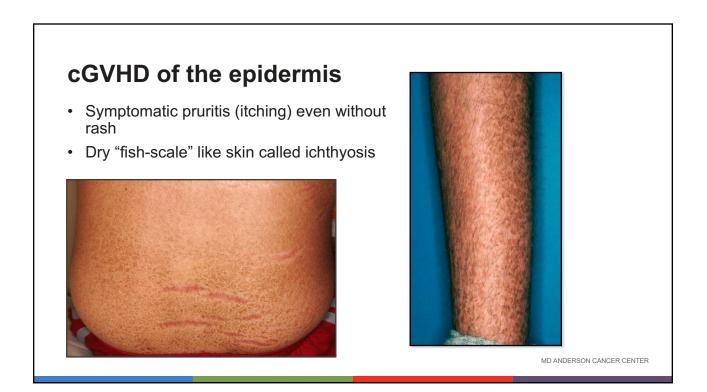


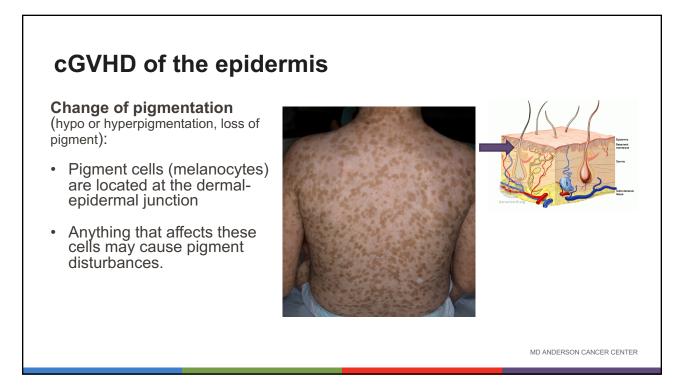








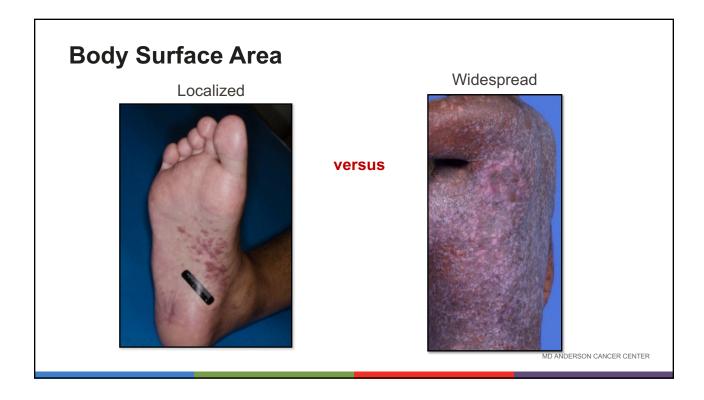


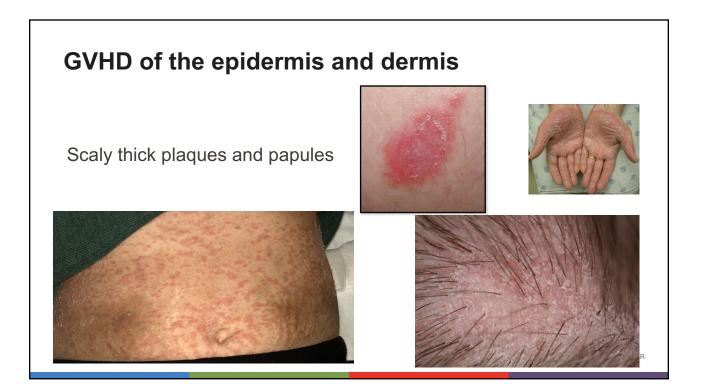


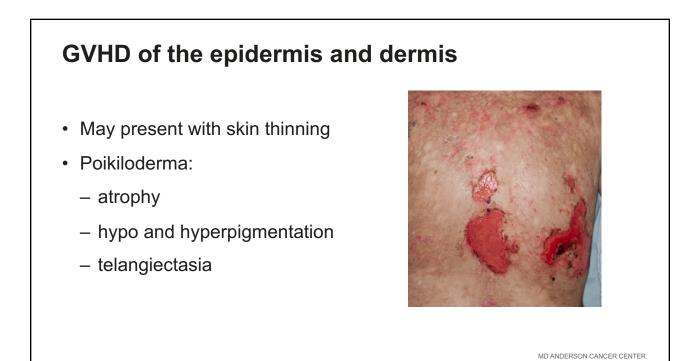
# **GVHD** of the epidermis and dermis

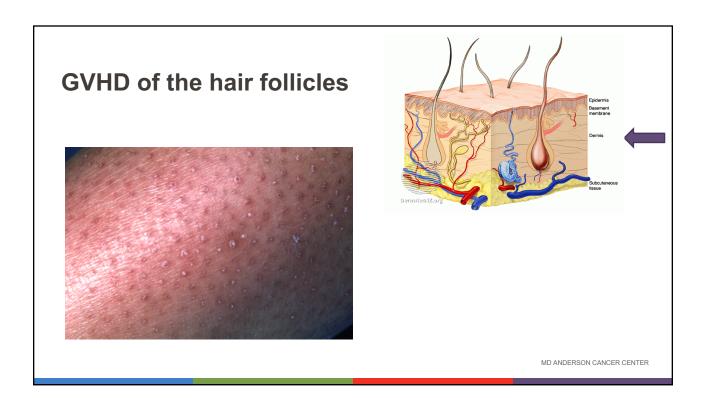
Purple polygonal papules are a diagnostic feature of lichen planus-like cGVHD

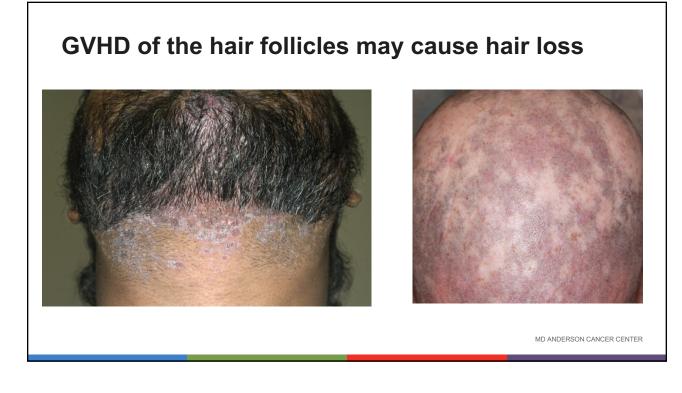












# **Changes in Nails**

Over 50% patients with cGVHD develop nail changes:

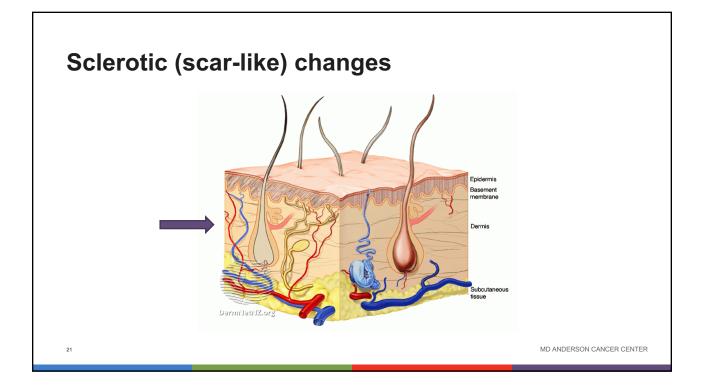
#### Dystrophy

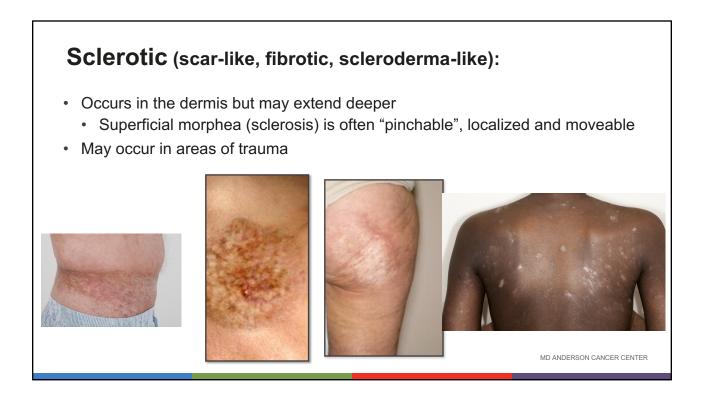
- Thickening and thinning
- Ridging
- Pterygium (scarring at nail bed)
- Nail destruction

#### These may be treatable early on

- Systemic agents
- Injected corticosteroids







## **Deep sclerosis**

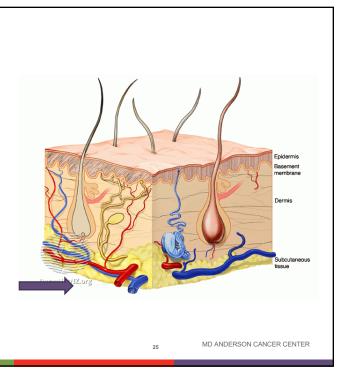
- "Hidebound" skin
- Sclerosis may extend through the dermis and to deeper layers
- May have epidermal changes characterized by erosions and scaling
- Skin is fragile and prone to injury





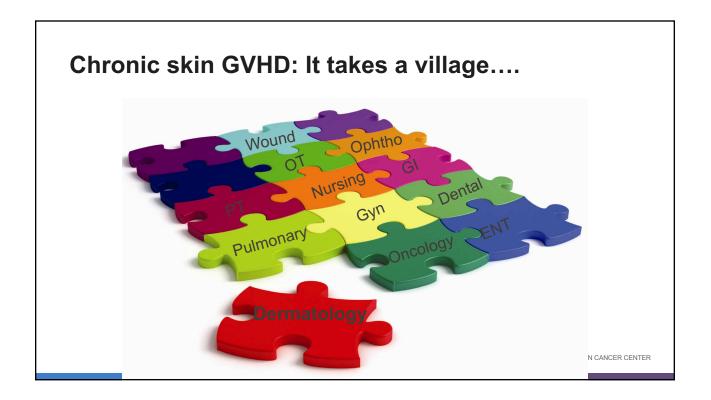
## Fasciitis

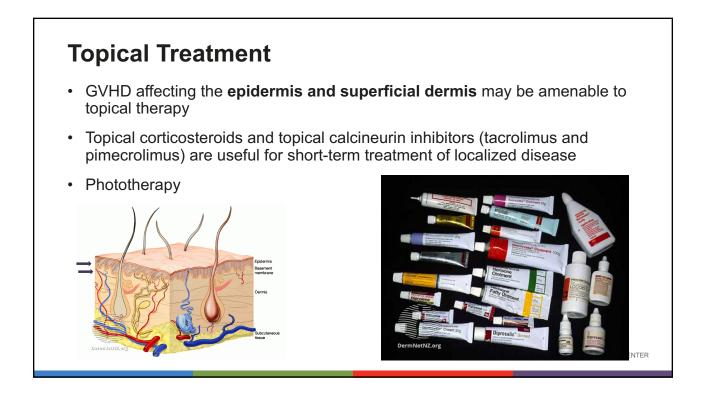
Inflammation of the layer of the skin overlying the muscles and tendons

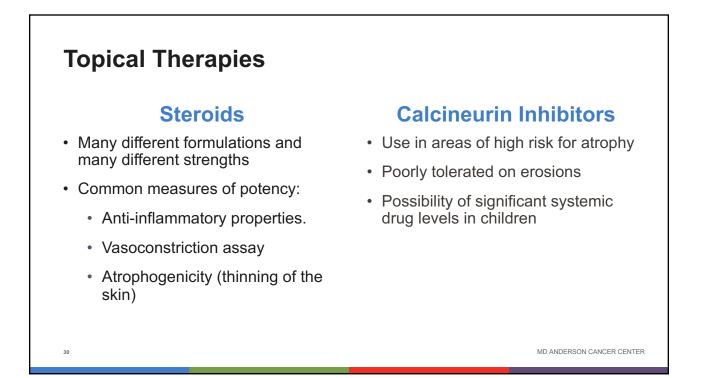


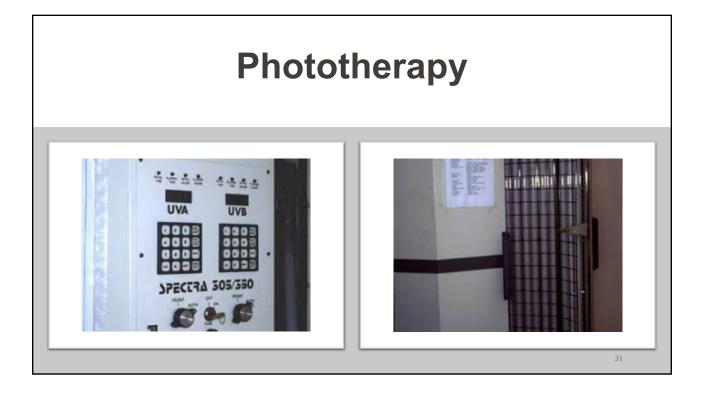


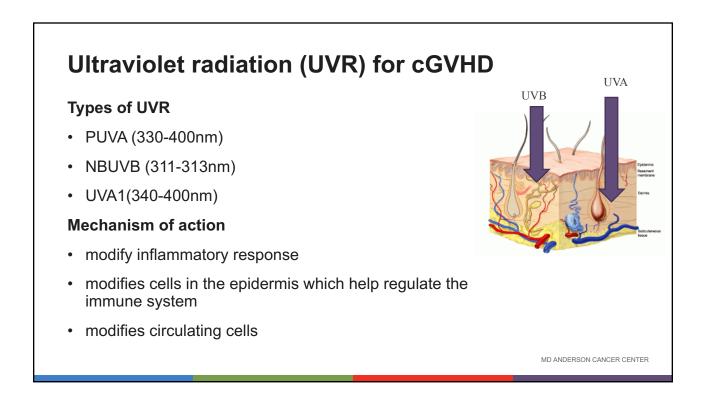


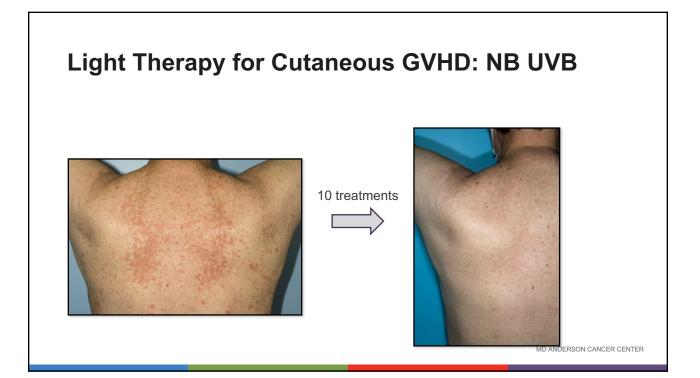
















# Other skin problems related to transplant and GVHD

- Tumors of the skin (benign and malignant)
- Skin infections
- · Hard to heal wounds





# Malignant Tumors of the Skin

#### **Related to:**

- Long term immune suppression or chemotherapy
- Persistent inflammation
- · Preceding sun damage
- Ionizing radiation

#### Leads to:

- Increased risk of squamous cell carcinoma, basal cell carcinoma and melanoma
- · Curable when found early



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## How to protect your skin

#### Early recognition is important

- Get undressed for a full skin examination
- Tell your provider about any skin concerns
- · Check your range of motion
- · Protect your skin from trauma
- · Treat skin cuts and scrapes early
- Use photoprotection:
  - protective clothing
  - sunscreen



# **Review Objectives**

#### Define GVHD as it relates to the skin:

• long term complication of allogeneic stem cell transplantation characterized by inflammatory or fibrotic skin problems

#### Recognize the skin changes of cGVHD

• Epidermal, dermal, subcutaneous & fascial inflammatory or fibrotic changes

#### Understand how the diagnosis is made

• Clinical, biopsy and correlation with other organ systems

## **Review Objectives**

### Skin directed management of cGHVD

• Topical therapy and UVR

### Other skin problems post transplant

· Infection, wounds and skin cancers

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