# Care Step Pathway - Skin Toxicities

**Assessment** 

#### Look:

- Does the patient appear uncomfortable?
- Does the patient appear unwell?
- Is there an obvious rash?
- Is the patient scratching during the visit?
- Is skin integrity intact?
- Are there skin changes?
  - Xerosis (dry skin)
  - o Changes in skin pigment or color
- Is there oral involvement of the rash?
- Does the rash involve the genital-vaginal region? The scalp?

#### Listen:

- Does the patient have pruritus with or without rash?
- Is there a rash with or without pruritus?
- When did it start?
- Are symptoms interfering with ADLs?
- With sleep?
- Have symptoms worsened?

#### Recognize:

- Is there a history of dermatitis, pre-existing skin issues (psoriasis, eczema, wounds, prior radiation to region, etc.)?
- Laboratory abnormalities consistent with other etiologies (e.g., eosinophils on complete blood count, liver function abnormalities)

# **Grading Toxicity**

# MACULOPAPULAR RASH (aka morbilliform rash)

Definition: A disorder characterized by the presence of macules (flat) and papules (elevated); frequently affecting the upper trunk, spreading towards the center and associated with pruritus

#### Grade 1 (Mild)

Macules/papules covering <10% BSA with or without symptoms (e.g., pruritus, burning, tightness)

#### **Grade 2 (Moderate)**

Macules/papules covering 10-30% BSA with or without symptoms (e.g., pruritus, burning, tightness); having psychological effect and limiting instrumental ADLs; rash covering >30% BSA with or without mild symptoms

#### Grade 3 (Severe)

Macules/papules covering >30% BSA with or without associated symptoms; limiting self-care ADLs; skin sloughing covering <10% **BSA** 

## **Grade 4 (Potentially Life-Threatening)**

**Grade 5 (Death)** 

Papules/pustules covering any % BSA with or without symptoms and associated with superinfection requiring IV antibiotics; skin sloughing covering 10-30% BSA

#### **PRURITUS**

Definition: A disorder characterized by an intense itching sensation

#### Grade 1 (Mild)

Mild or localized; topical intervention indicated

### **Grade 2 (Moderate)**

Widespread and intermittent; skin changes from scratching (e.g., edema, papulation, excoriations, lichenification [thick, leathery skin], oozing/crusts); limiting instrumental ADLs: oral intervention indicated

#### Grade 3 (Severe)

Widespread and constant; limiting self-care ADLs or sleep; systemic corticosteroid or immunosuppressive therapy indicated

#### **Grade 4 (Potentially Life-Threatening)**

# Management

#### **Overall Strategy**

- Assess for other etiology of rash: ask patient about new medications, herbals, supplements, alternative/complementary therapies, lotions, etc.

# Intervention in at-risk patients

- Advise gentle skin care:
  - o Avoid soap. Instead, use non-soap cleansers that are fragrance- and dye-free (use mild soap on the axillae, genitalia, and feet)
  - o Daily applications of non-steroidal moisturizers or emollients containing humectants (urea, glycerin)
  - Apply moisturizers and emollients in the direction of hair growth to
- minimize development of folliculitis - Advise sun-protective measures
- Assess patient & family understanding of prevention strategies and rationale o Identify barriers to adherence

# Grade 1 (Mild)

- Immunotherapy to continue
- Oral antihistamines will be used in some patients
- Moderate potency topical corticosteroids may be used in some patients (e.g., momethasone 0.1% to be applied TID)
- Advise vigilant skin care
  - Increase to twice daily applications of non-steroidal moisturizers or emollients applied to moist skin
  - Moisturizers with ceramides and lipids are advised; however, if cost is an issue, petroleum jelly is also effective
  - Soothing methods
    - Cool cloth applications
    - Topicals with cooling agents such as menthol or camphor
    - Refrigerating products prior to application
  - Avoid hot water; bathe or shower with tepid water
  - Keep fingernails short
- o Cool temperature for sleep - Advise strict sun protection. SPF of at
- least 25 is recommended Monitor vigilantly. Instruct patient &
- family to call clinic with any sign of worsening rash/symptoms. Anticipate office visit for evaluation Assess patient & family understanding
- of skin care recommendations and rationale
  - o Identify barriers to adherence

### **Grade 2 (Moderate)**

- Consider holding pembrolizumab or nivolumab and monitor for improvement weekly. If no improvement, begin treatment with prednisone 1 mg/kg tapering over at least 4 weeks
- Ipilimumab will be withheld for any Grade 2 event
- High-potency topical corticosteroids to be used
- Oral corticosteroids\* (0.5 mg/kg-1.0 mg/kg) and oral antihistamines/oral antipruritics can be used (high-potency topical corticosteroids can be considered for rash alone)
- Consider GABA agonist as needed
- Consider dermatology consult
- Patient education:
  - Proper administration of oral corticosteroids
    - Take with food Take early in day

    - Concomitant medications may be prescribed > H2 blocker
      - > Antibiotic prophylaxis
- Advise vigilant skin care o Gentle skin care
  - o Tepid baths; oatmeal baths
- Advise strict sun protection
- Assess patient & family understanding of
  - toxicity and rationale for treatment hold Identify barriers to adherence

#### **Grades 3/4 (Severe or Life-Threatening)** - Nivolumab or pembrolizumab to be withheld

- for any Grade 3 (severe) and discontinued for Grade 4 (life-threatening) skin conditions or confirmed SJS or TEN; Ipilimumab to be permanently discontinued for any Grade 3/4
- High-potency topical corticosteroids to be used; anticipate hospitalization and initiation of IV corticosteroids\* (0.1-1 mg/kg/day)
- Urgent dermatology consult +/- biopsy - Provide anticipatory guidance:
- o Rationale for hospitalization and
  - treatment discontinuation
  - Rationale for prolonged steroid taper
  - Side effects of high-dose steroids o Risk of opportunistic infection and need
  - for antibiotic prophylaxis o Effects on blood sugars, muscle
- atrophy, etc. - For Grade 3/4 pruritus
  - Corticosteroid\* dose 0.5-1.0 mg/kg/day;
- Consider GABA agonist, aprepitant, or omalizumab - Assess patient & family understanding of
- toxicity and rationale for treatment discontinuation Identify barriers to adherence, specifically adherence with steroids

when transitioned to oral corticosteroids

# \*Administering Corticosteroids:

Steroid taper instructions/calendar as a guide but not an absolute

- Taper should consider patient's current symptom profile
- Close follow-up in person or by phone, based on individual need & symptomatology
- Steroids cause indigestion; provide antacid therapy daily as gastric ulcer prevention while on steroids (e.g., proton pump inhibitor or H2 blocker if prednisone dosage is >20 mg/day)
- Review steroid medication side effects: mood changes (angry, reactive, hyperaware, euphoric, manic), increased appetite, interrupted sleep, oral thrush, fluid retention Be alert to recurring symptoms as steroids taper down & report them (taper may need to be adjusted)

- Long-term high-dose steroids: Consider antimicrobial prophylaxis (sulfamethoxazole/trimethoprim double dose M/W/F; single dose if used daily) or alternative if sulfa-allergic (e.g., atovaquone [Mepron®] 1500 mg po daily)
- Consider additional antiviral and antifungal coverage
- Avoid alcohol/acetaminophen or other hepatoxins
- If extended steroid use, risk for osteoporosis; initiate calcium and vitamin D supplements

# **RED FLAGS:**

- Extensive rash (>50% BSA), or rapidly progressive
- Anal, genitourinary, vaginal, or any mucous membrane involvement
- **Concern for suprainfection**

