Care Step Pathway - Mucositis & Xerostomia

Assessment

Look:

- Does the patient appear uncomfortable?
- Does the patient appear unwell?
- Difficulty talking?
- Licking lips to moisten often?
- Weight loss?
- Does the patient appear dehydrated?
- Does the patient have thrush?
- Is there redness, blisters, ulcers, cracks, white patchy areas? If so, are they isolated, generalized, clustered, or patchy?

Listen:

- Does the patient report?
- o Mouth pain (tongue, gums, buccal mucosa)

o Waking during the sleep to sip water

- Mouth sores o Difficulty eating
- o Recent dental-related issues o Need for dental work (e.g., root canal, tooth extraction)
- o Pain with swallowing/throat pain
- Have symptoms worsened?

Recognize:

- Any history of radiation to the mouth?
- Does patient smoke?
- dry mouth?
- passages, vagina)?
- What makes it worse or better?

Grading Toxicity

Oral Mucositis

Definition: A disorder characterized by ulceration or inflammation of the oral mucosa

Grade 1 (Mild)

Asymptomatic or mild symptoms; intervention not indicated

Grade 2 (Moderate)

Moderate pain or ulcer; not interfering with oral intake; modified diet indicated

Grade 3 (Severe)

Severe pain; interfering with oral

Grade 4 (Potentially Life-Threatening)

Life-threatening consequences; urgent intervention indicated

Grade 5 (Death)

Dry Mouth (Xerostomia)

Definition: A disorder characterized by reduced salivary flow in the oral region

Grade 1 (Mild)

Symptomatic (e.g., dry or thick saliva) without significant dietary alteration: unstimulated saliva flow >0.2 mL/min

Grade 2 (Moderate)

Moderate symptoms; oral intake alterations (e.g., copious water, other lubricants, diet limited to purees and/or soft, moist foods); unstimulated saliva 0.1 to 0.2 mL/min

Grade 3 (Severe)

Inability to adequately aliment orally; tube feeding or total parenteral nutrition indicated; unstimulated saliva <0.1 mL/min

Grade 4 (Potentially Life-Threatening)

Life-threatening consequences; urgent intervention indicated

Grade 5 (Death)

Grades 3/4 (Severe or Life-Threatening)

Grade 3 event. Immunotherapy to be

Grade 3 event persisting ≥12 weeks

nivolumab)

o Enteral

Parenteral

o Analgesics

pharmacologic agents

treatment discontinuation

oral solids or liquids

Nivolumab to be withheld for first occurrence

discontinued for any Grade 4 event or for a

recurrent Grade 3 event (pembrolizumab,

Anticipate hospitalization if unable to tolerate

Unclear role of systemic corticosteroids*

- Anticipate need for supplemental nutrition

- Anticipatory guidance regarding use of

(ipilimumab, pembrolizumab, nivolumab) or any

Systemic opioids may be indicated

- Assess patient & family understanding of toxicity

and rationale for interventions as well as

o Identify barriers to adherence

Management (Including anticipatory guidance)

Overall Strategy

Assess for other etiology of mucositis or dry mouth: candidiasis; ask patient about new medications (particularly antihistamines), herbals, supplements, alternative/complementary therapies

Interventions in at-risk patients

- Advise basic oral hygiene:
- o Tooth brushing (soft toothbrush, avoid toothpaste with whitening agents)
- Use of dental floss daily
- > 1 mouth rinses to maintain oral hygiene (avoid commercial mouthwashes or those with alcohol)
- If patient wears dentures, assess for proper fit, areas of irritation, etc.
- Dental referral if necessary
- Assess patient & family understanding of prevention strategies and rationale
 - Identify barriers to adherence

Grade 1 (Mild)

- Anticipate immunotherapy to continue
- Advise ongoing basic oral hygiene Advise avoidance of hot, spicy, acidic foods
- Anticipate possible alternative treatment(s)
 - o Zinc supplements or 0.2% zinc sulfate mouthwash
 - o Probiotics with Lactobacillus
- o Benzydamine HCI - Assess patient & family
- understanding of recommendations and rationale o Identify barriers to adherence

Grade 2 (Moderate)

- Ipilimumab to be withheld for any Grade 2 event (resume when Grade 0/1)
- Immunotherapy to be discontinued for Grade 2 events persisting ≥6 weeks (ipilimumab) or ≥12 weeks (pembrolizumab, nivolumab)
- Assess for Sicca syndrome, Sjögren syndrome
- Encourage vigilant oral hygiene

- Advise moistening agents
 - o Saliva substitute
 - o Synthetic saliva
 - Oral lubricants
- Saliva stimulants (XyliMelts®) Advise secretagogues
 - o Nonpharmacologic
 - Sugarless gum Sugarless hard candies
 - Natural lemon
 - o Pharmacologic
 - Pilocarpine
 - Cevimeline HCI

Mucositis:

- Vigilant oral hygiene
 - o Increase frequency of brushing to Q4 hours and at bedtime
 - o If unable to tolerate brushing, advise chlorhexidine gluconate 0.12% or sodium bicarbonate rinses
 - 1 tsp baking soda in 8 ounces of water
 - ½ tsp salt and 2 tbsp sodium bicarbonate dissolved in 4 cups of
- Encourage sips of cool water or crushed ice o Encourage soft, bland nonacidic foods
 - o Anticipatory guidance regarding use of pharmacologic agents (as applicable)
 - Analgesics
 - ➤ Gelclair®, Zilactin®
 - ➤ 2% viscous lidocaine applied to lesions 15 minutes prior to meals
 - ➤ 2% morphine mouthwash > 0.5% doxepin mouthwash
 - "Miracle Mouthwash":
 - diphenhydramine/lidocaine/ simethicone
 - Corticosteroid rinses > Dexamethasone oral solution.
 - prednisolone oral solution (24 mg/5 mL), hydrocortisone 2 mg/mL, 1-2 tsp swish/spit 2x daily
 - o Monitor weight
- Monitor hydration status
- Nutrition referral if appropriate Assess patient & family understanding of
- toxicity and rationale for interventions as well as treatment hold
 - Identify barriers to adherence
- Avoid morphine mouthwashes
- If persistent, consider biopsy or otolaryngology

*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
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po = by mouth

- Any history of dry mouth?
- Concomitant medications associated with causing
- Reports of dry mouth often accompany mucositis Other reports of dry membranes (e.g., eyes, nasal