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?

Does the patient report?

Listen:

- Mouth pain (tongue, gums, buccal mucosa)
- Mouth sores
- o Difficulty eating
- Waking during the sleep to sip water
- Recent dental-related issues
- o Need for dental work (e.g., root canal, tooth extraction)
- o Pain with swallowing/throat pain
- Have symptoms worsened?

Recognise:

- Any history of dry mouth?
- Any history of radiation to the mouth?
- Does patient smoke?
- Concomitant medications associated with causing dry mouth?
- Reports of dry mouth often accompany mucositis
- Other reports of dry membranes (e.g., eyes, nasal passages, vagina)

Grading Toxicity

Oral Mucositis

Definition: A disorder characterised 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 intake

Grade 4 (Potentially Life-Threatening) Grade 5 (Death) Life-threatening consequences; urgent intervention indicated

Dry Mouth (Xerostomia)

Definition: A disorder characterised 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)

Grade 1 (Mild)

treatment(s)

and rationale

foods

- Anticipate immunotherapy to continue

Advise avoidance of hot, spicy, acidic

Zinc supplements or 0.2% zinc

• Probiotics with Lactobacillus

understanding of recommendations

o Identify barriers to adherence

- Advise ongoing basic oral hygiene

- Anticipate possible alternative

sulfate mouthwash

o Benzydamine HCI

- Assess patient & family

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) Grade 5 (Death) Life-threatening consequences; urgent intervention indicated

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)
 - o Use of dental floss daily
 - >1 mouth rinses to maintain oral hygiene (avoid commercial mouthwashes or those with alcohol)
 - 1/4 teaspoon bicarbonate of soda in 1 cup of warm water plus 1/4 teaspoon salt in 1 cup of water
 - o Alcohol-free mouthwash
 - Peter MacCallum Cancer Centre mouthwash
 - o Biotene or Oral 7 for xerostomia and mucositis
- 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
- 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
- Encourage vigilant oral hygiene

Xerostomia:

- Advise moistening agents

 - o Synthetic saliva
 - o Oral lubricants
- Advise secretagogues
 - Nonpharmacologic
 - Sugarless gum
 - Sugarless hard candies
 - Natural lemon
 - Pharmacologic Pilocarpine
 - Cevimeline HCI
- Mucositis: - Vigilant oral hygiene
- Increase frequency of brushing to Q4 hours and at bedtime o If unable to tolerate brushing, advise sodium bicarbonate rinses 1/4 teaspoon bicarbonate of soda in 1 cup of warm water plus 1/4 teaspoon salt in 1 cup of water - Encourage sips of cool water or crushed ice Encourage soft, bland nonacidic foods o Anticipatory guidance regarding use of pharmacologic agents (as applicable) For analgesics, refer to treating medical oncologist/treating health service 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 - Dietician referral - Assess patient & family understanding of toxicity and rationale for interventions as well as treatment hold o Identify barriers to adherence - Avoid morphine mouthwashes If persistent, consider biopsy or otolaryngology evaluation

- Grades 3/4 (Severe or Life-Threatening)
- Nivolumab to be withheld for first occurrence Grade 3 event. Immunotherapy to be discontinued for any Grade 4 event or for a Grade 3 event persisting ≥12 weeks (ipilimumab, pembrolizumab, nivolumab) or any recurrent Grade 3 event (pembrolizumab, nivolumab)
- Anticipate hospitalisation if unable to tolerate oral solids or liquids
- Unclear role of systemic corticosteroids*
- Anticipate need for supplemental nutrition o Enteral
- o Parenteral
- Anticipatory guidance regarding use of pharmacologic agents
 - Analgesics
 - Systemic opioids may be indicated
- Oral care
- Assess patient & family understanding of toxicity and rationale for interventions as well as treatment discontinuation
 - o Identify barriers to adherence

- syndrome

- o Saliva substitute

*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
- 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

po = by mouth

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