



UNIVERSITÄTS**medizin.**

MAINZ



Workshop on Oral, Gastrointestinal and Pulmonary GvHD

Supportive treatment of oral GvHD

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Report

National Institutes of Health Consensus Development Project
on Criteria for Clinical Trials in Chronic Graft-versus-Host
Disease: V. The 2014 Ancillary Therapy and Supportive Care
Working Group Report



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- topical high and ultra-high potency corticosteroids
- topical calcineurin inhibitors

- topical analgesics
- therapy for oral dryness (salivary stimulants, sialogogues)
- prevention of related complications (dental decay, secondary malignancy)

Basic oral care

- oral care protocol, patient education
- fluorid
- toothpaste for children or sensitive teeth
- lip balm
- mouth rinses (self made or professional; alcohol free)



- peppermint
- camomile
- sage

Professional covering agents

- Prevident[®] 5000 plus
- Gelclair[®]
- Sucralfat
- MuGard[®]
- Caphosol[®]
- BioXtra[®]



Dry mouth

- avoid anticholinergic medication
 - Tricyclic antidepressants, SSRI, antihistamines
 - St. John´s wort
- sugar free candies or gums
- artificial saliva
- cholinergic agents
 - Pilocarpin, Cevimeline



Pilocarpin drops/ tbl

- 5mg, up to 30mg/day (divided doses)
- fast effect, lasting for 4h
- increase salivary flow rate & normalise saliva composition
- **side effects:**
perspiration, flush, lacrimation, gastrointestinal disturbance
- **contraindication:**
Asthma, COPD, heart disease, epilepsy, hyperthyroidism, Parkinson disease



alternative:

Isopto Carpine eye 5%
3-4 drops/water (3-4times/day)

Jensen et al 2010, Fox et al 1986

Visvanathan et Nix 2009, Bjornstrom and Birkhed Swed Dent J 1990, Rieke et al 1995

Topical Analgetics

- viscous lidocaine / tetracaine / benzocaine
- Lidocaine oral rinse 2%
- Diclonine hydrochloride 1%
- vaseline based ointments for lips

- Pyralvex - Rhubarb (mucocelles)



Carpenter et al, NIH WG Report BBMT 2015

Meier et al 2011, Dignan et al BJH 2012, Couriel et al BBMT 2006

Alternative agents

Accupuncture:

➔ improve Quality of Life

- better pain control (neuropathic)
- better salivation
- improve anxiety
- (vomiting)



- Vitamin E (A, B12)
- Cucurmin (NFkB)
- Amifostine
- Glutamine
- zinc
- **Aloe vera**
- **honey**
- beeswax
- **olive oil**
- **Pyralvex®**



*Barasch et al Support Care Cancer 2006, Koukourakis et al Anticancer drugs 2002
Migliorati et al Support Care Cancer 2006, Dean-Clower et al Integr Cancer Ther 2010, O'Sullivan et al 2010
Blom et al Surg Oral Med Pathol 92, Meidell et al Int J Palliat Nurs 2002, O'Regan et al 2010
Simcock et al Annals of Oncology 2013, Towler et al Support Care Cancer 2013, Sagar et al 2008*

nutrition

Avoid:

- hot
- cold
- spicy
- acidic food or drinks
- carbonated drinks
- smoking



- without flavor
- without sugar



Recomendations

Indication	Preparation	Active agent	Evidence
Pain	Rinse	Lidocain 2%	B III
		Kaolinite pectin-diphenhydramine-lidocaine 1:1:1	B III
		CO2 laser	C III
Dry mouth	Gel /Toothpaste	fluoride	A Ib
	Rinse	Water sipping	A III
	Gum / Candy	Salivary stimulants	A III
	tablets	Pilocarpine 5-10mg 3-4x/d	B IIa
		Cevimeline 15-30mg 3x/d	B III

Meier et al, Clin Oral Invest 2011

Elad et al, Support Care Cancer 2015 Carpenter et al, NIH WG Report BBMT 2015

➔ individually designed treatment of symptoms

- oral care protocol
- routine dental care (+ cancer screening)
- mouth rinses (alcohol free), toothpaste for children
- avoid mouth drying agents
- artificial saliva, cholinergic agents
- nutritional education
- take care of infections

