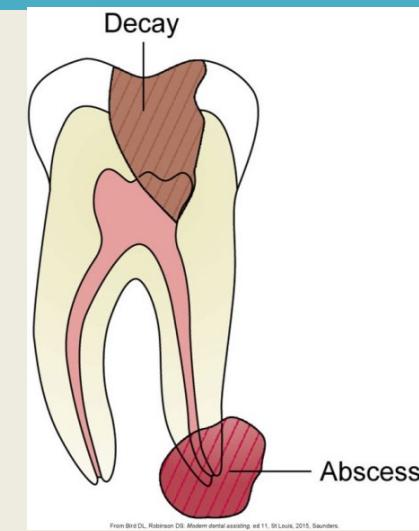




Oral Health Basics

Stephanie Baca, RDH MS

*Oral health is COC: The Great Divide
to overall health*



Biofilm -- the root of the solution

...

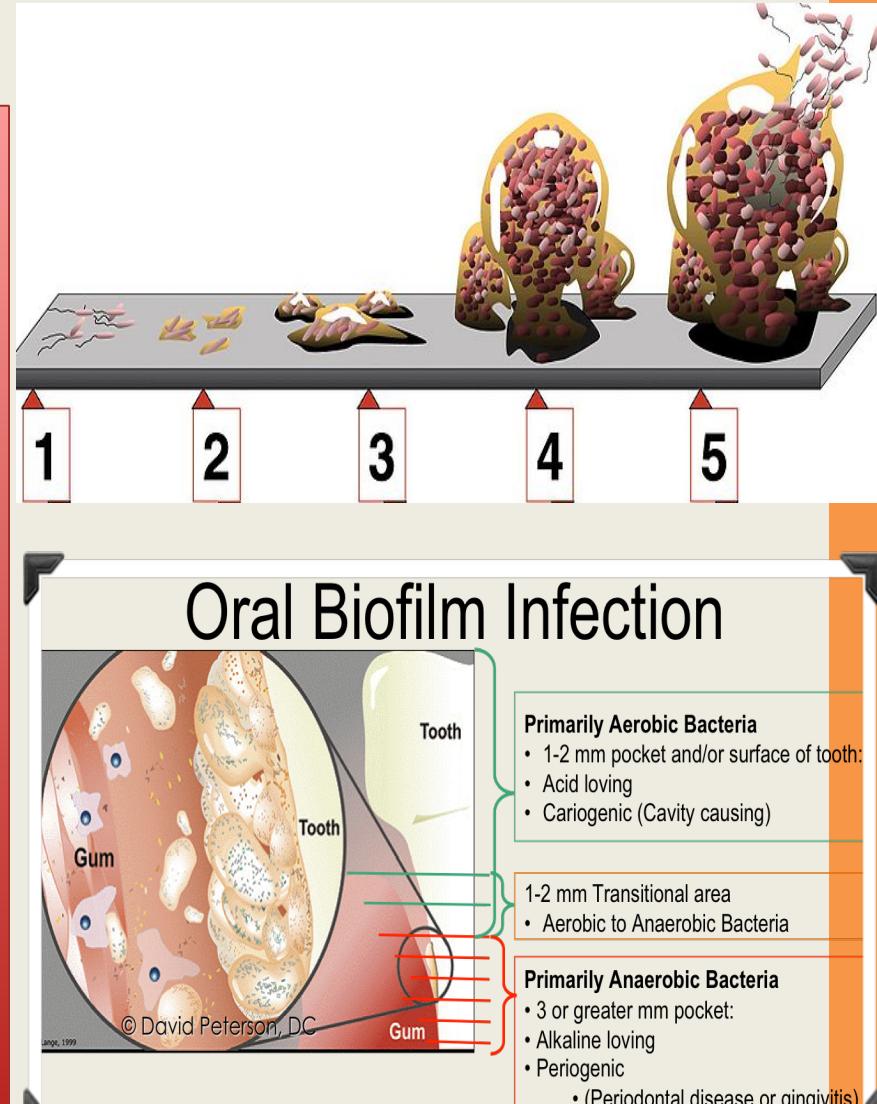
Objectives

- Demonstrate basic oral health techniques in order to maintain health in those with special needs
- Develop educational strategies to help caregivers perform daily oral care
- Recognize and differentiate oral health conditions of patients with developmental disabilities

Enemy #1 – Biofilm

Oral microbial biofilms are three-dimensional structured bacterial communities¹ attached to a solid surface like the enamel of the teeth, the surface of the root or dental implants² and are embedded in an exopolysaccharide matrix³.

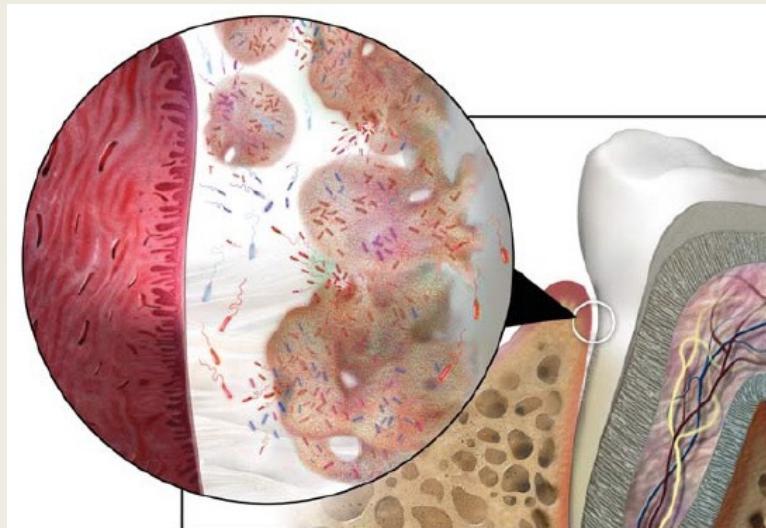
The bacterial diversity in the oral cavity is estimated to be more than 700 different species and photypes, belonging to nine phyla; *Deferribacteres*, *Spirochaetes*, *Fusobacteria*, *Actinobacteria*, *Firmicutes*, *Bacteroidetes*, *Proteobacteria*.



Oral Biofilm

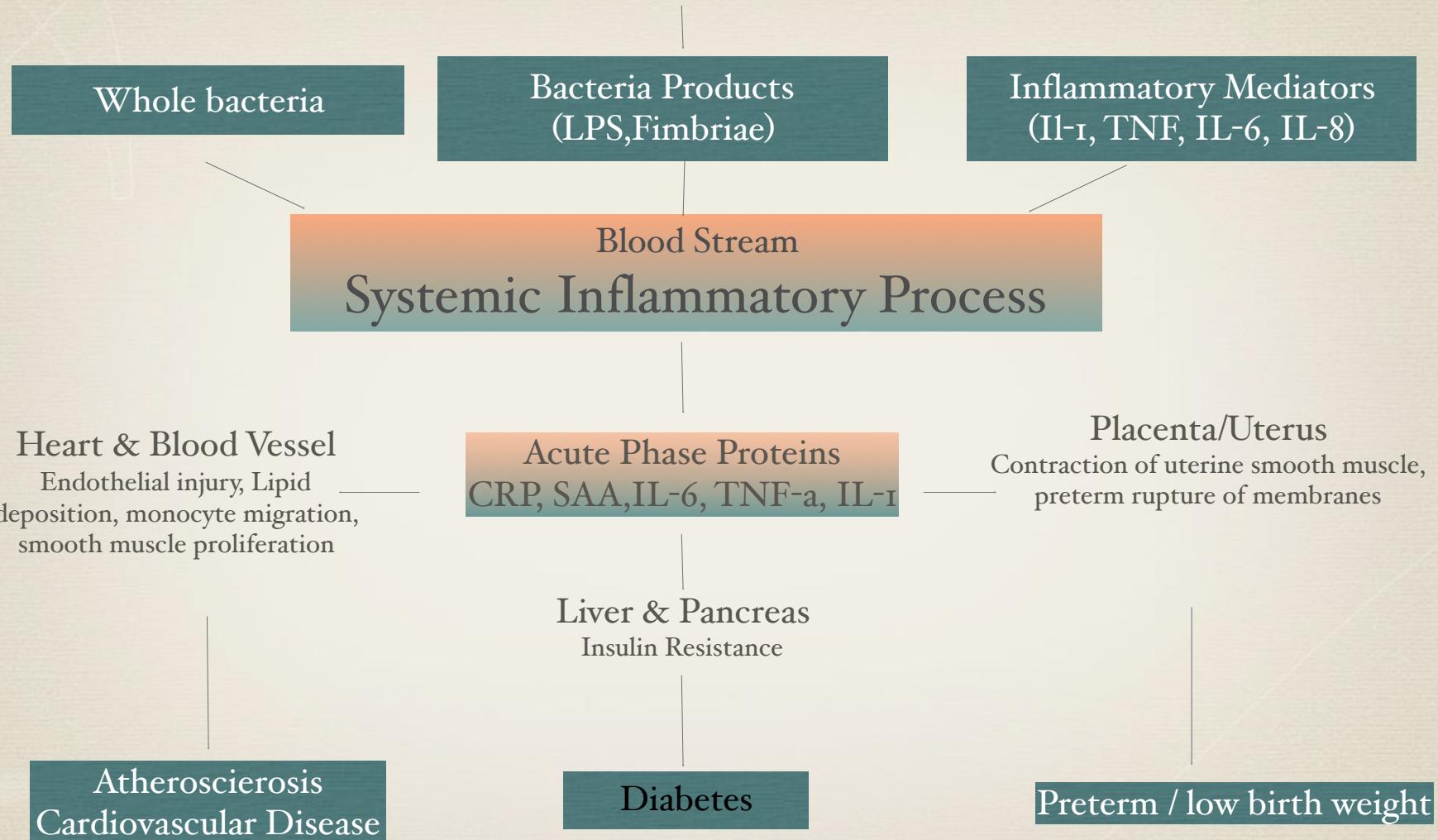
- Oral cavity is an open growth system
- Biofilms are ubiquitous; forming on virtually all surfaces immersed in a natural aqueous environment
- Biofilm-associated bacteria mediated gene expression or “communication”

- Organisms in a biofilm are 1000-1500 times more resistant to antibiotics
- Biofilms have been found to be involved in a wide variety of microbial infections (by one estimate 80% of all infections)



[ncbi.nlm.nih.gov/pmc/articles/PMC3183659/](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3183659/)

Periodontal infection



Oral - Systemic Conditions

Pathogen	<i>Oral findings</i>	<i>Systemic Condition</i>
Actinomyces	gingivitis necrotic pulp	hepatobiliary disease
Bacteroides	adult periodontitis	brain abscess
Candida	oral candidiasis adult periodontitis	vertebral osteomyelitis
Fusobacterium	gingivitis adult periodontitis necrotic pulp	hepatobiliary brain abscess vertebral osteomyelitis

Lactobacillus	dental caries	aspiration pneumonia
Peptostreptococcus	adult perio	brain abscess
Staphylococcus	adult perio	vertebral osteomyelitis brain abscess prosthetic joint infection meningitis
Streptococcus	dental caries periapical abscess	vertebral osteomyelitis, brain abscess, bacterial endocarditis, meningitis, hepatobiliary disease



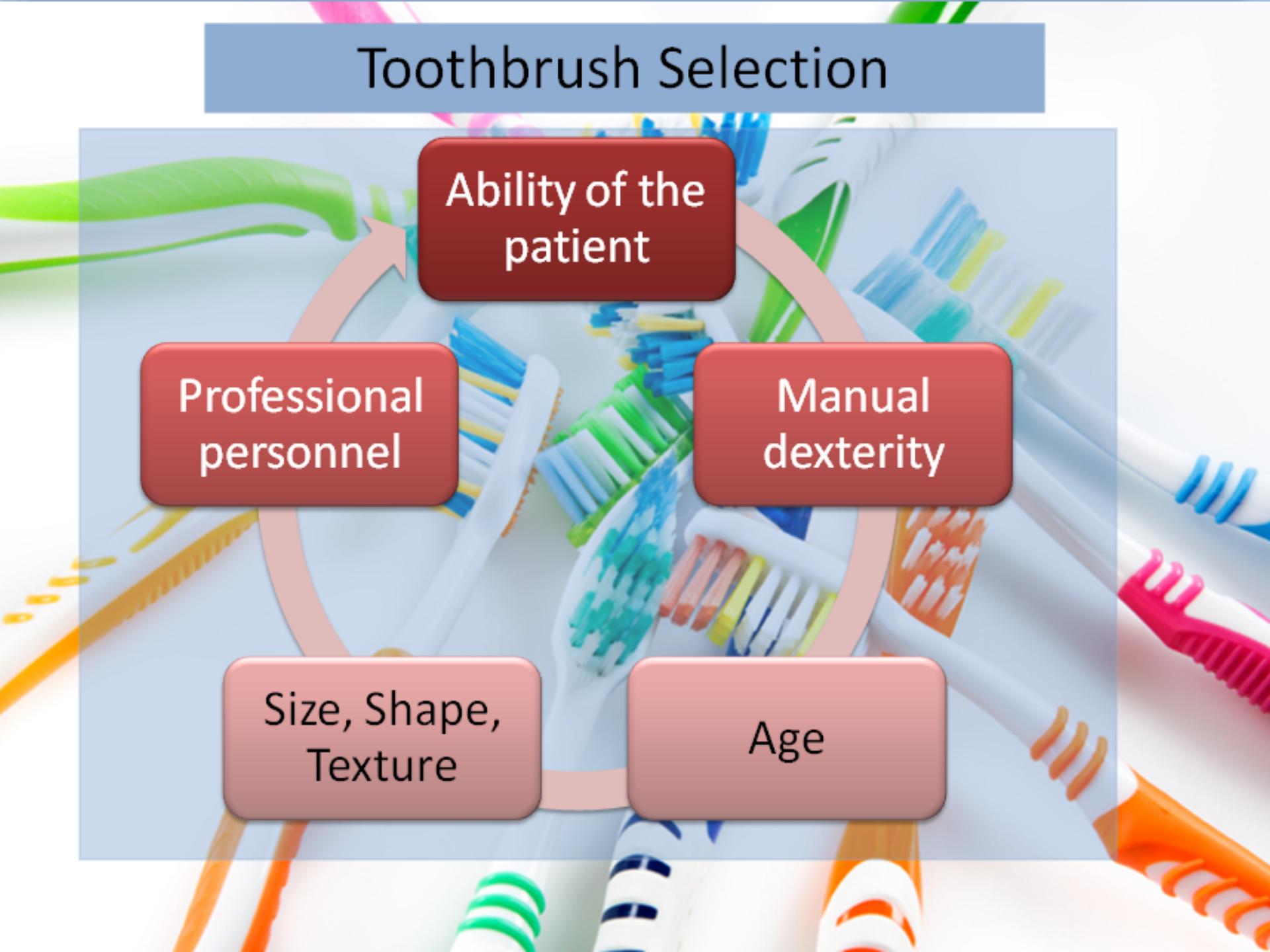
Target: Biofilm



Performing an Oral Assessment



Toothbrush Selection



Professional personnel

Ability of the patient

Manual dexterity

Size, Shape,
Texture

Age

Toothbrushing *Best Practices*

1. *Rub* check to single starting
2. Brush *twice* daily
3. Ensure to have all tools *ready* prior to cleaning
4. Use *less* products than more
5. *Change* toothbrush often and store in a *clean* place to dry out



A roll of white paper towels is mounted on a chrome holder. The paper towels are slightly crumpled at the top right corner. The chrome holder has a circular base and a cylindrical tube extending from it.

The Great Debate...

Toothpaste...

- Cleansing and polishing
- Humectants
- Water/Binders
- Detergents
- Flavoring/Coloring Agents
- Sweeteners
- Preservatives

Therapeutic/Medicinal Agents:

- *Anticaries* agents
- Desensitizing agents
- *Antigingivitis/biofilm reduction* agents

Other Agents:

- Anticalculus agents
- Antistain agents
- Antihalitosis agents

Toothpaste *Best Practices*



Types

Ingredients

SLS free

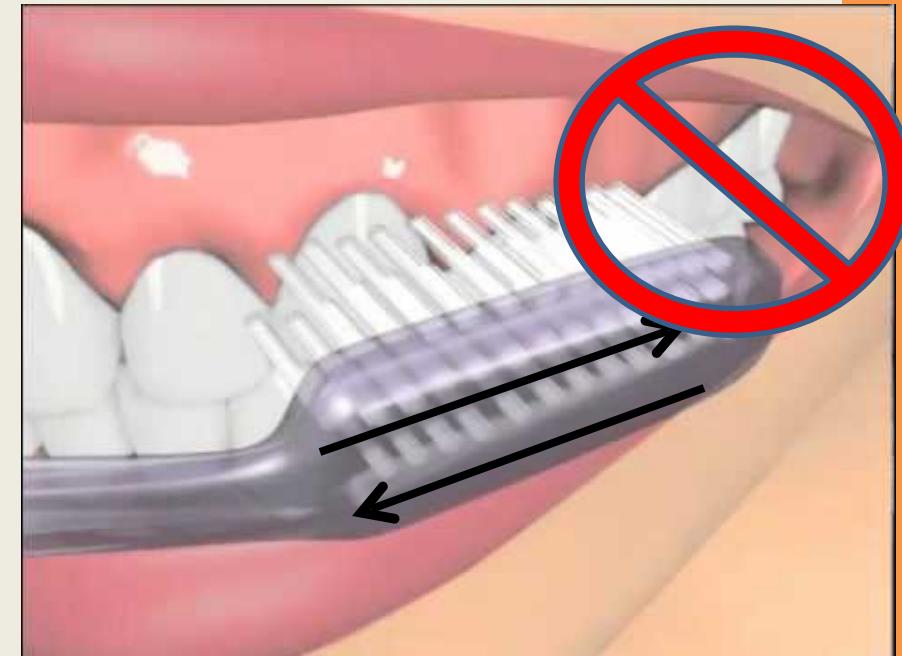
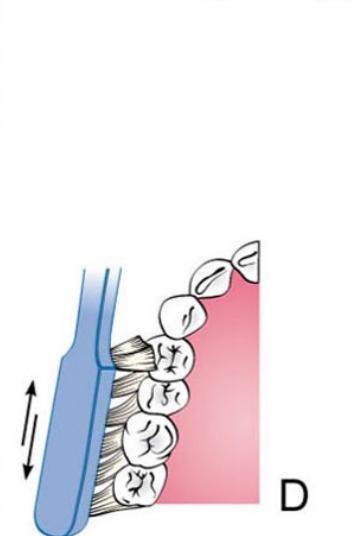
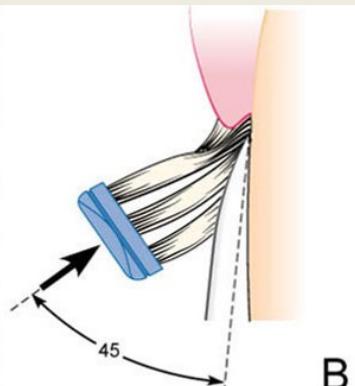


Amount

Grain of
Rice

One green
pea





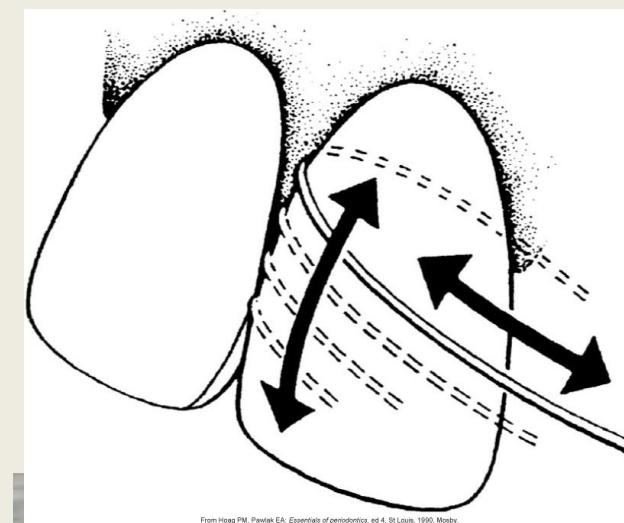
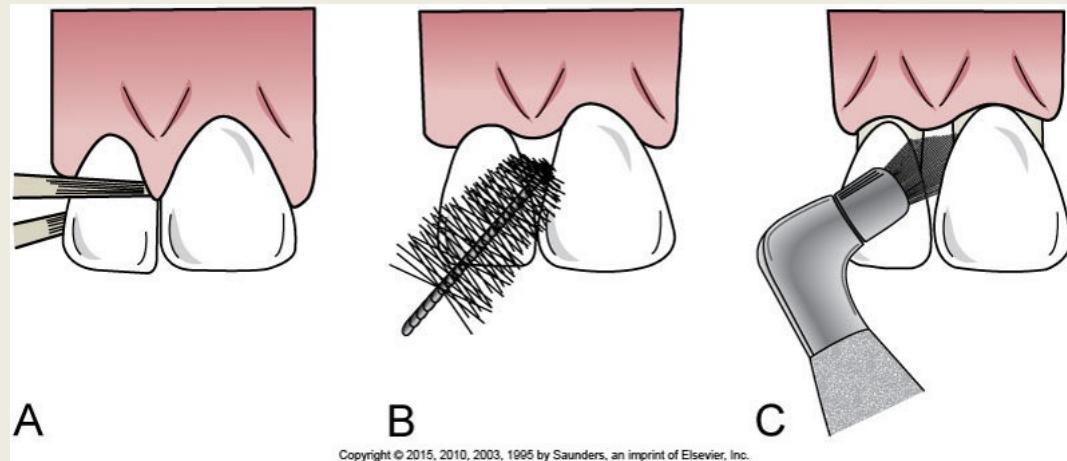
Don't forget the finish...

B and D, From Newman MG, Takei HH, Klokkevold PR, Carranza FA: Carranza's clinical periodontology, ed 11, St Louis, 2012, Saunders.

Toothbrushing sequence Best Practices

- Always use *circular* motions
- *Massage* the tissues (gums)
- Brush **3** surfaces (check, bite, and tongue sides)
- *Gentle* and slow; bottom to top
- Don't forget the *tongue*

Interproximal Care options



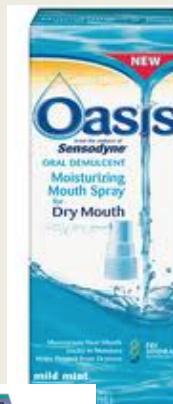
Partially/Edentulous Patient

- Cleaning dentures/partials **always** requires REMOVAL
- **Wipe** tissues with baby washcloths and water, **clean** appliance
- Always **remove** dentures at night
- **Yearly** dental visits



General Best Practices

- Choose 2
- Be *consistent*
- Roll and *move* with not against
- Find *modifications* or alternatives
- *Practice TACT*
 - *Time*
 - *Ask for involvement*
 - *Communicate with voice & body clear & simple*
 - *Tell, Show, Do*







Thank you