

### RDH · Under One Root.

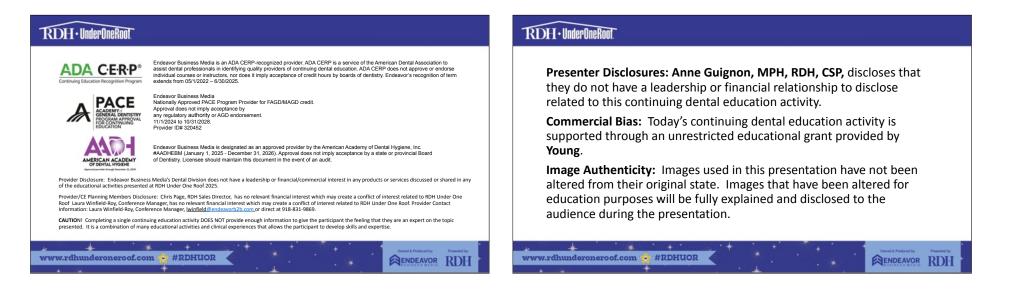
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# **General Session**

Desiccation Therapy - A new frontier in managing dysbiotic periodontal disease

Anne Guignon, MPH, RDH, CSP

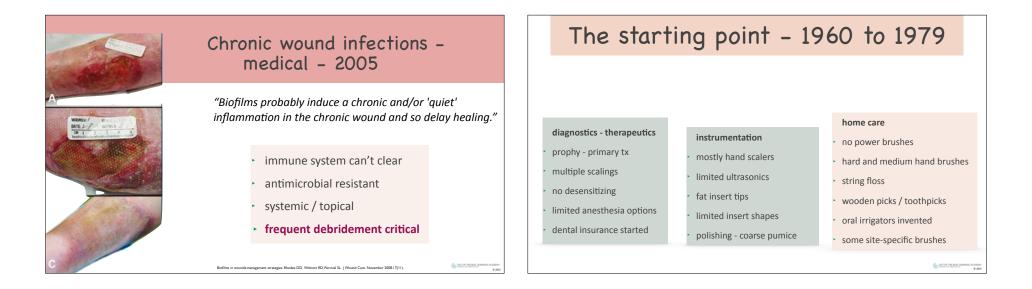
RENDEAVOR RDH



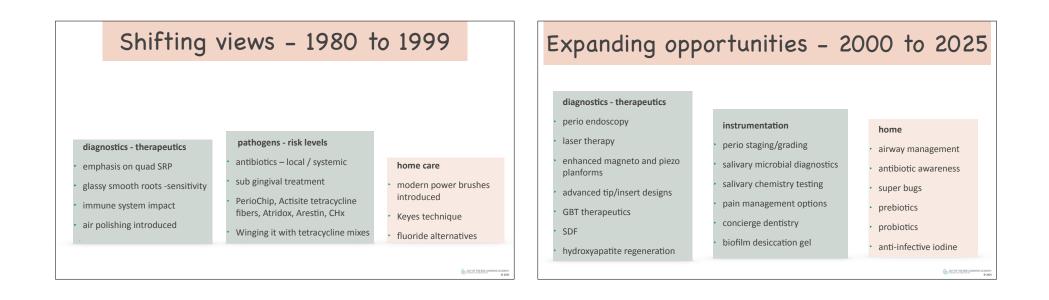
Desiccation Therapy – New ways to combat dysbiotic disease and establish a healthy oral microbiome



Anne N. Guignon, RDH, MPH, CSP anne@anneguignon.com 832-971-4540 Key concepts:Wound healing - the last decadeBiofilm concepts - dysbiosisDesiccation - dynamics - protocols - outcomesPatient / clinician / practice benefitsProcedure codes - billingSupplemental support

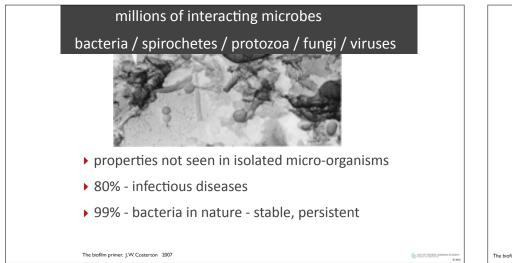


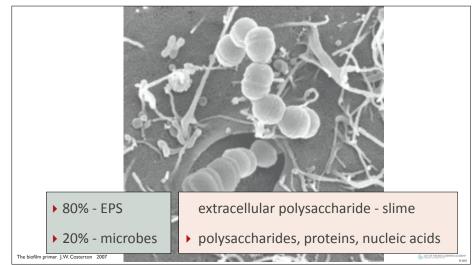
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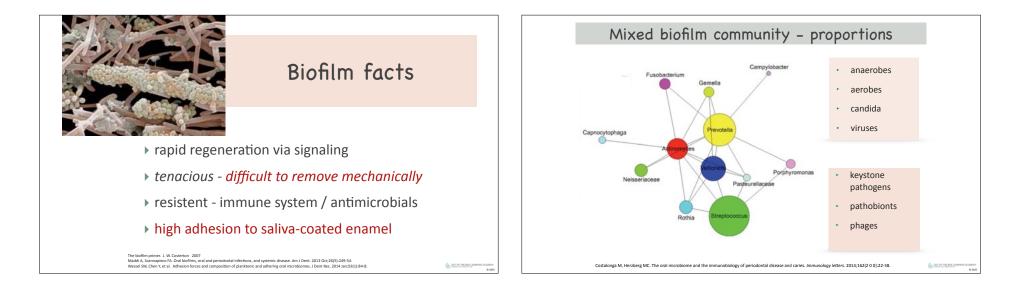


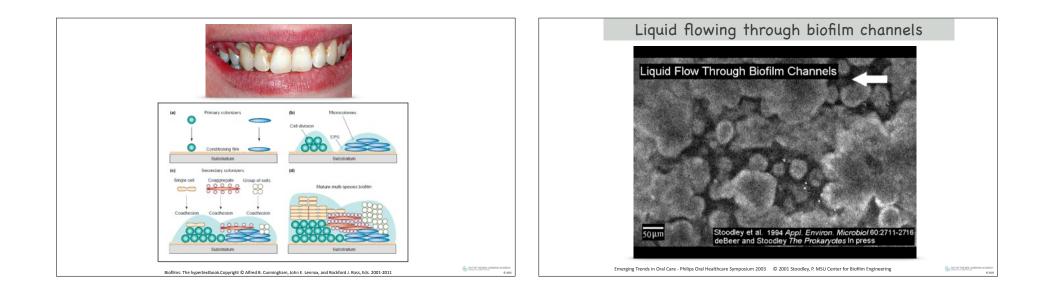


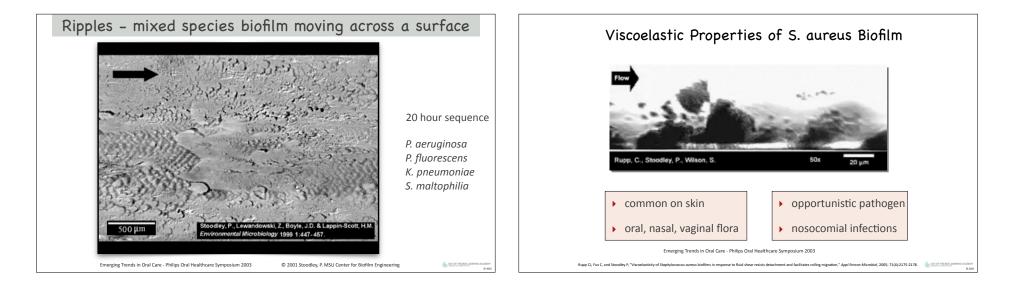






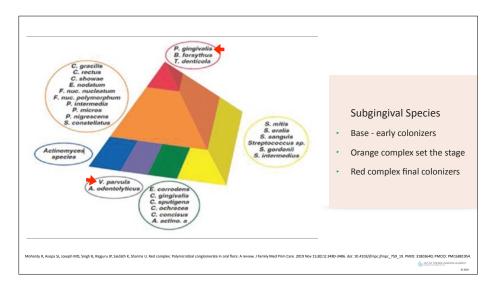


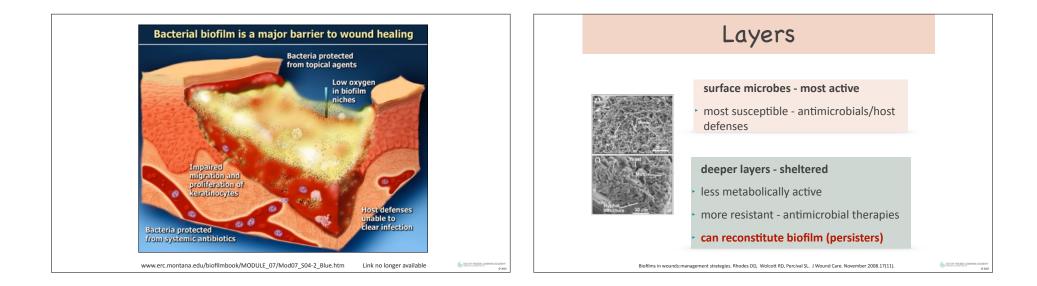


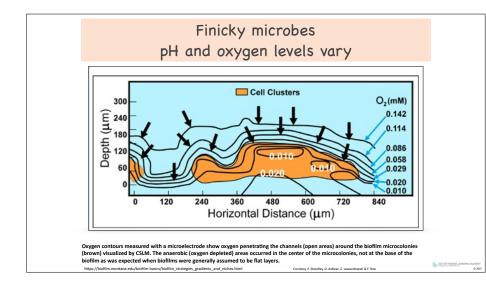


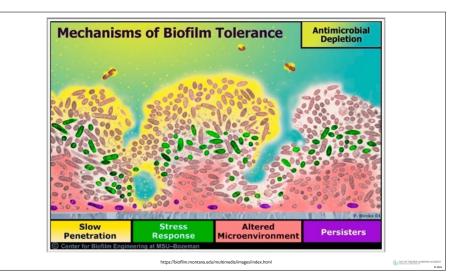
Understanding the trouble makers – microbial defenses that make it hard to treat disease

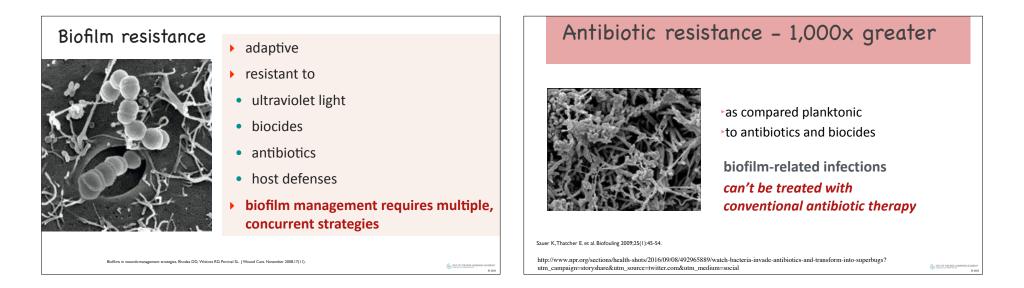


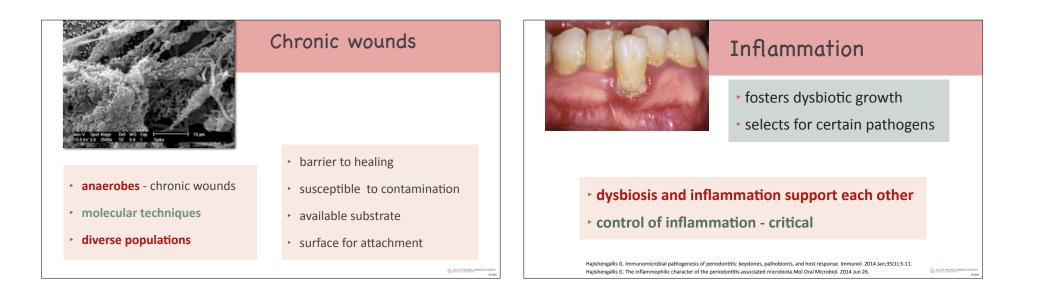












### Polymicrobial synergy - dysbiosis (PSD) model of periodontal disease etiology



### **Keystone pathogens**

- tip the balance to dysbiosis
- pro-inflammatory microbial community ►

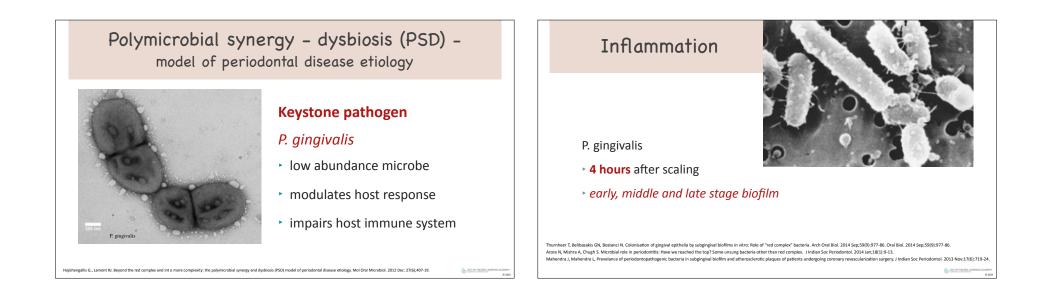
Hajishengallis G., Lamont RJ. Beyond the red complex and into more complexity: the polymicrobial synergy and dysbiosis (PSD) model of periodontal disease etiology. Mol Oral Microbiol. 2012 Dec: 27(6):407-19.

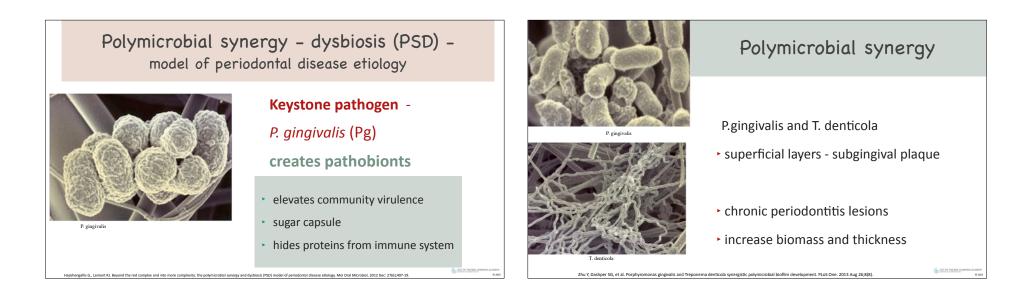
elicit non-resolving, tissue-destructive host response ►

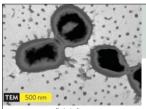
## Think dysbiosis!.....human climate change

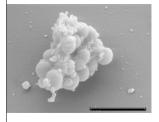


- unbalanced microbial community
- microbes compete for resources
- pathogen dense
- weakened immune system
- keystone pathogens







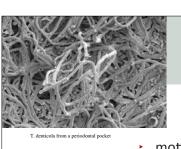


## The con artist – P. gingivalis

P.gingivalis - needs growth molecules initially

- "borrows" from Veillonella parvula
- V. parvula produces heme iron source for PG
- removing V. parvula stopped Pg growth
- target the accessory pathogen?

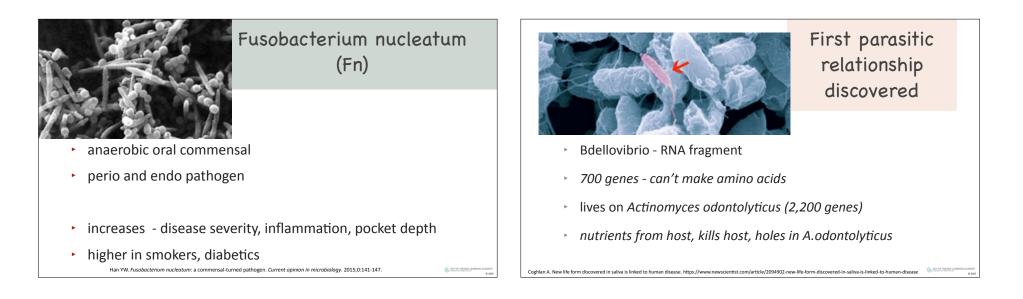
Frey AM, Satur MJ, Phansopa C, Honma K, Urbanowicz PA, Spencer DIR, Pratten J, Bradshaw D, Sharma A, Stafford G, Characterization of Por and disruption of its role in host-pathogen interactions. Microbiology (Reading). 2019 Nov;165(11):1181-1197. doi: 10.1099/mic.0.000851

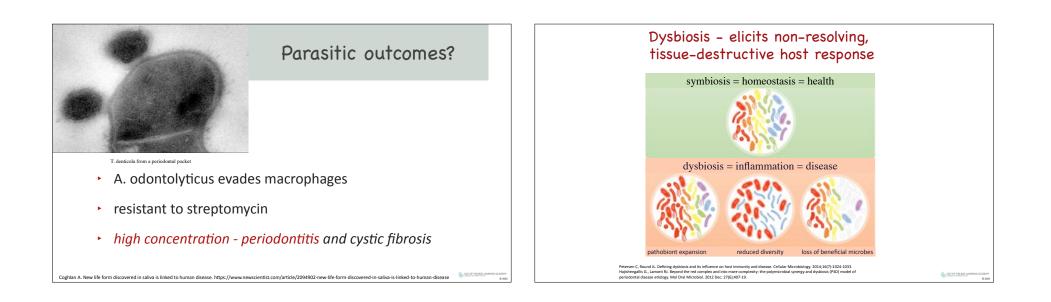


### Synergy T. denticola (Td)

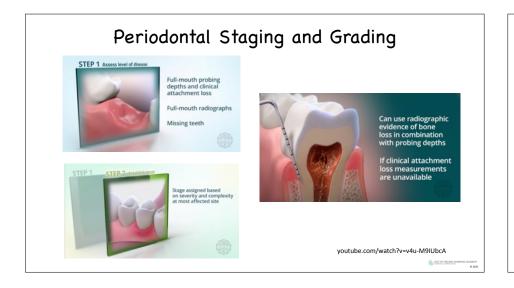
motile

- creates pores biofilm matrix
- moves through highly viscous environment
- pores enhance nutrient flow

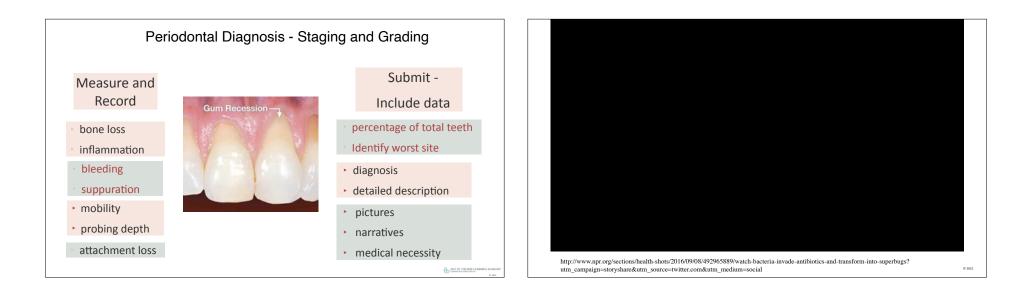




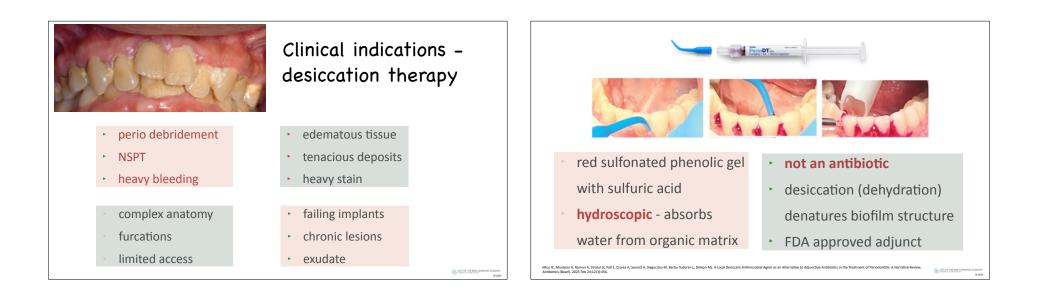


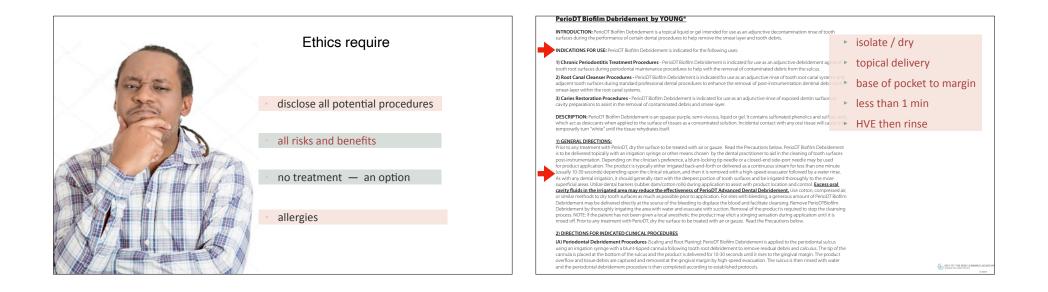




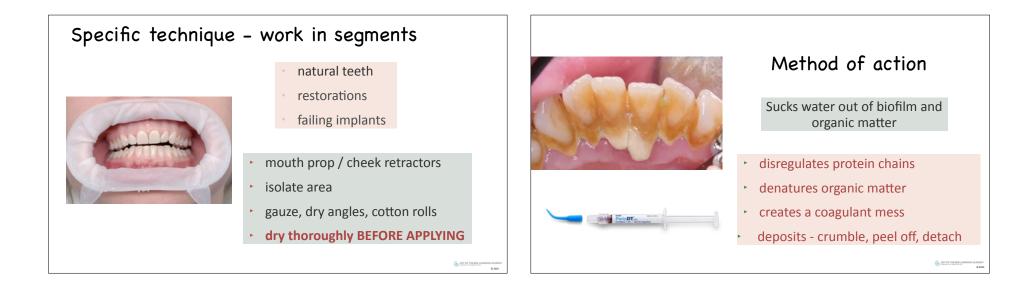


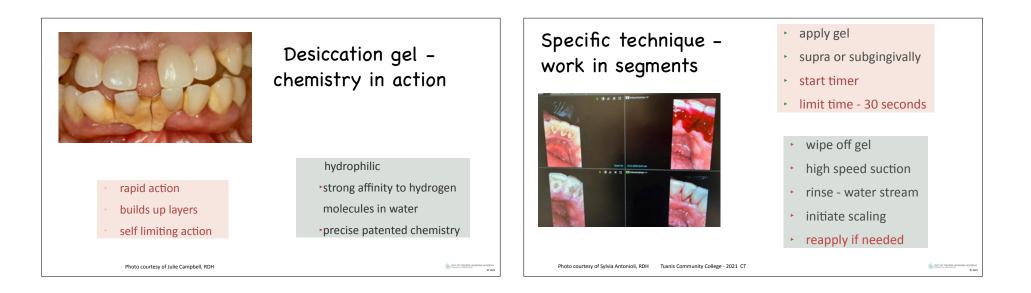
#### Microbial modification – clinical limitations Patient dull hand instruments limitations power scaling generator worn insert tips limited insert designs clinician skill . perception of value immune system time frame poor restorations home care access to area residual deposits habits / commitment • patient cooperation microbial persisters tools / costs and time COUT OF THE BORL

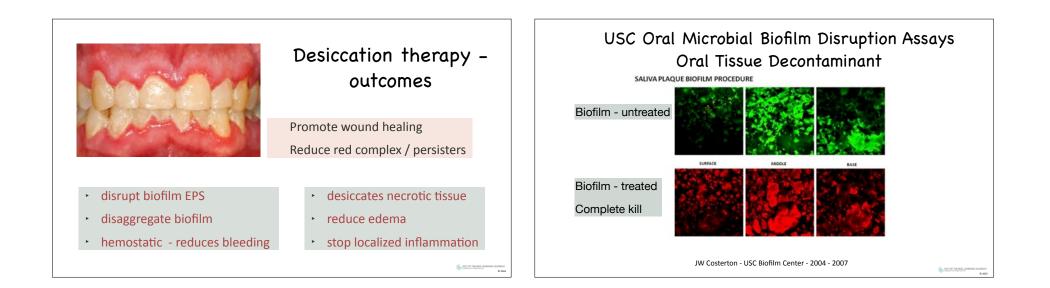


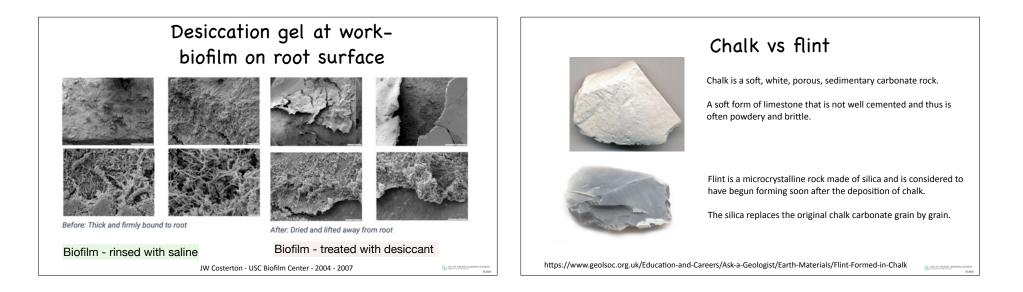


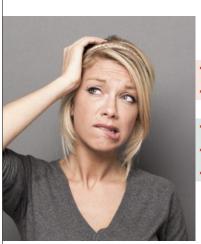










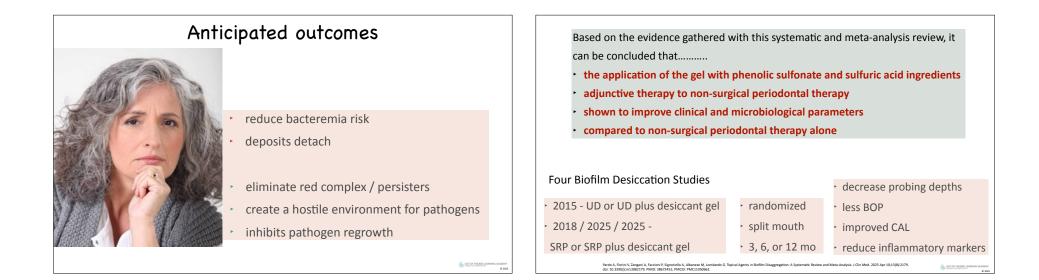


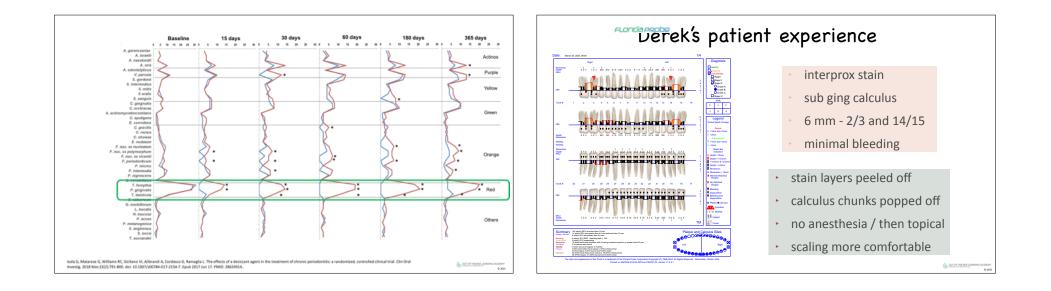
### Pro tips

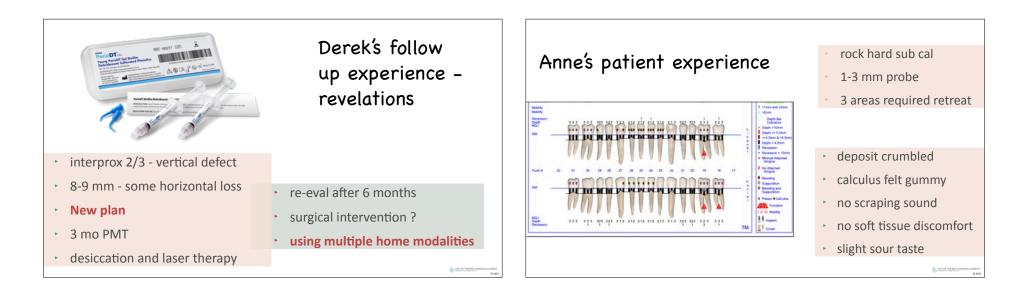
- burnished deposits roughen up with a file
- implants....use liquid flow into threads
- temporary tissue blanching
- fluid release will rehydrate
- reapply as needed











### Clinical nightmares – Access Challenges



Dana Patterson, RDH, BS Debaca Family Family Practice Dental Clinic Fort Sumner, New Mexico

#### No way, no how to clean these crowded lower anteriors!

- skinniest scaler was too fat
- could see calculus feel it with floss
- even my 11/12 explorer was too thick
- placed PerioDT waited 30 seconds
- rinsed and flossed BAM!

I couldn't believe that after the PerioDT, I could not feel anything when I flossed!

# Lightbulb Moment! 50 year old female liquid flowed interproximally severely rotated teeth - impossible access better than gel rock hard deposit gained interprox access Photo courtesy of Julie Campbell, RDH ( OLT OF THE BO

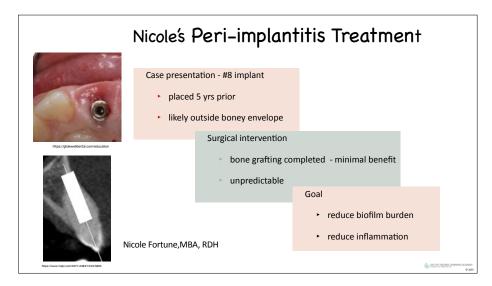
Augusta, SC











Nicole's non-surgical approach to halt inflammatory response



#### **Clinical treatment**

- endoscopy evaluation
- surface debridement glycine powder air polishing
- applied desiccant
- Nd:YAG laser therapy

#### **Tissue response**

immediate shrinking / tightening

Outcome over next year

- appeared to halt inflammatory breakdown
- patient prepared financially
- remove/reconstruct area / replace implant







