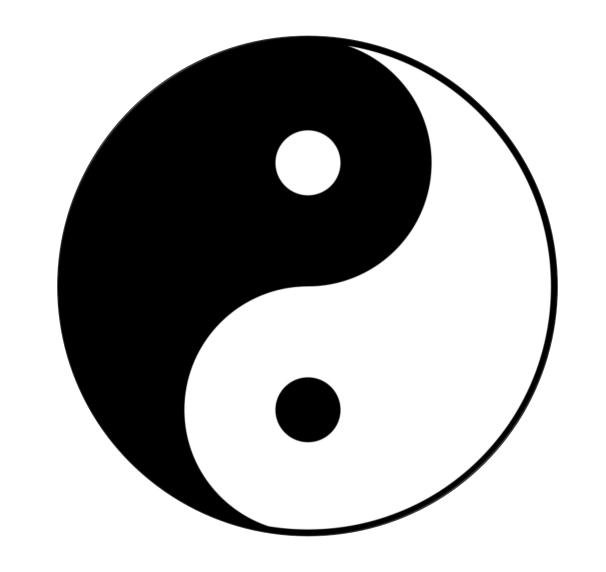
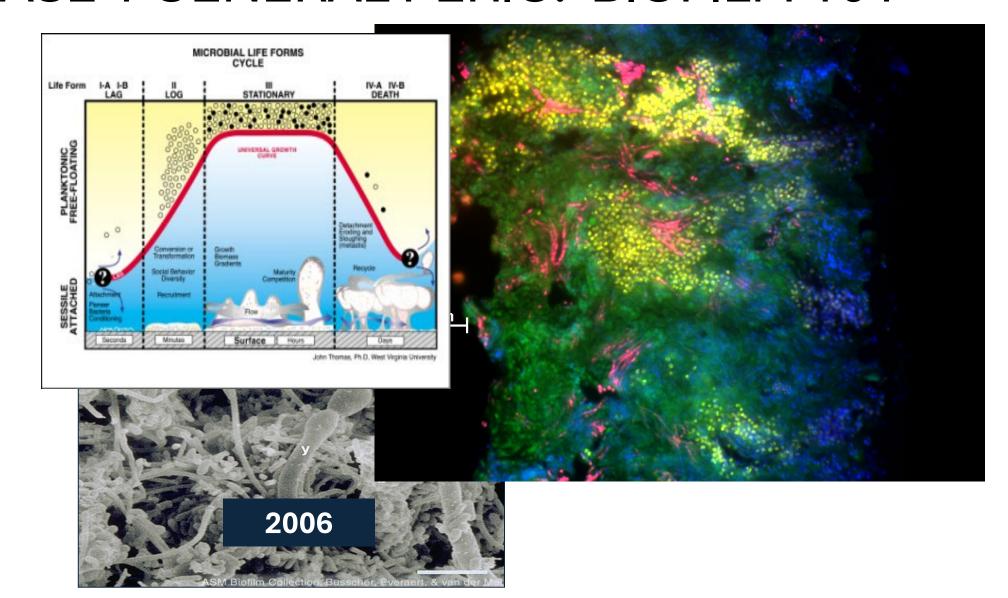
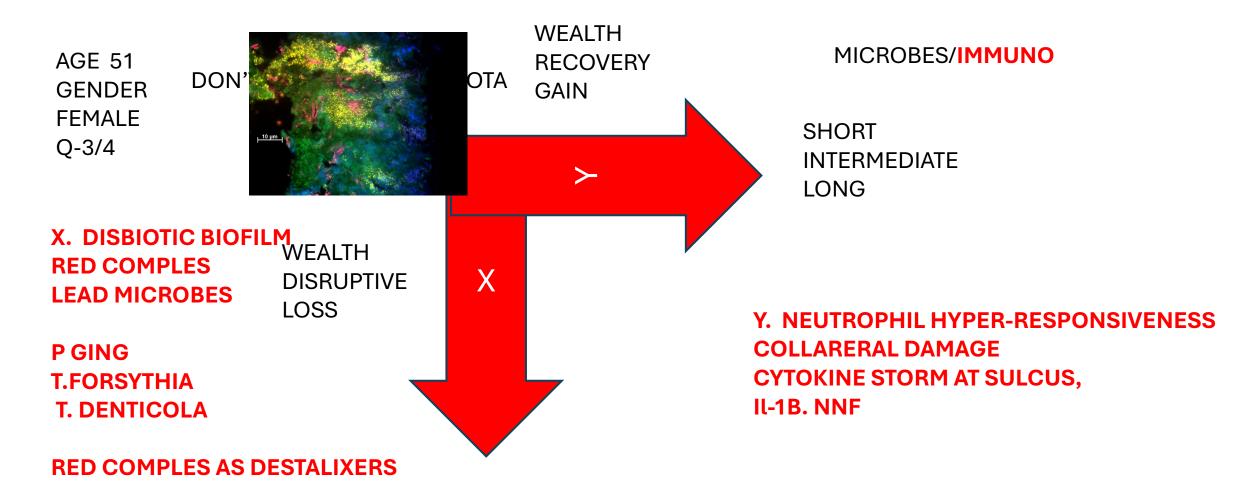
AIOB
DUET/"US"
THE YIN AND YANG OF
PERIO AND ORAL
MICROBIOME:
A CASE PRESENTATION
SERIES

SATURDAY 18 OCTOBER 2025 KERRI SIMPSON DDS JOHN G THOMAS PHD

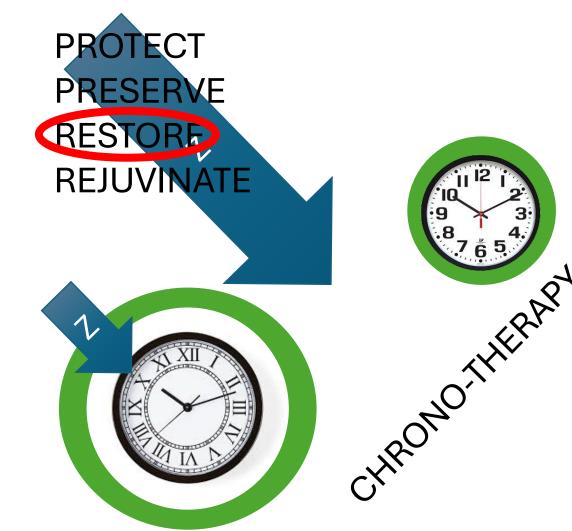


CASE 1 GENERAL PERIO. BIOFILM 101





MICROBES/IMMUNO



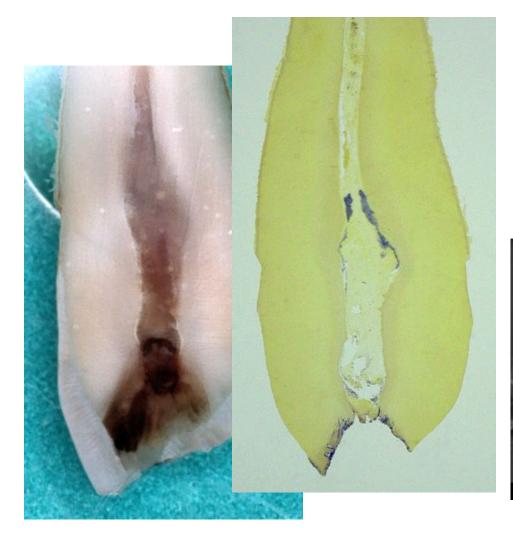
Y. RESTORE BALANCE
ADJUNCTIVE INTERVENTION
LDD

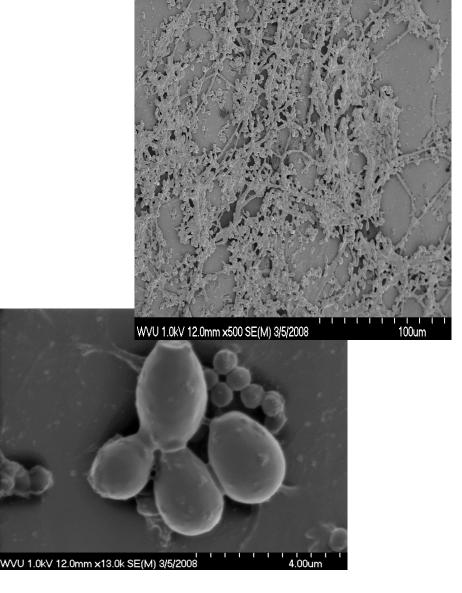
PHAGE/PROBIOTIC
ALIGNED W DAILY
HYGIENCE RITUALS

TIMED TO LOW
HOST IMMUNITY,
EVENING OR
CIRCADIAN
TROUGH

DON'T HURT THE HOST MICROBIOTA

CASE 2 ENDO/PERIO





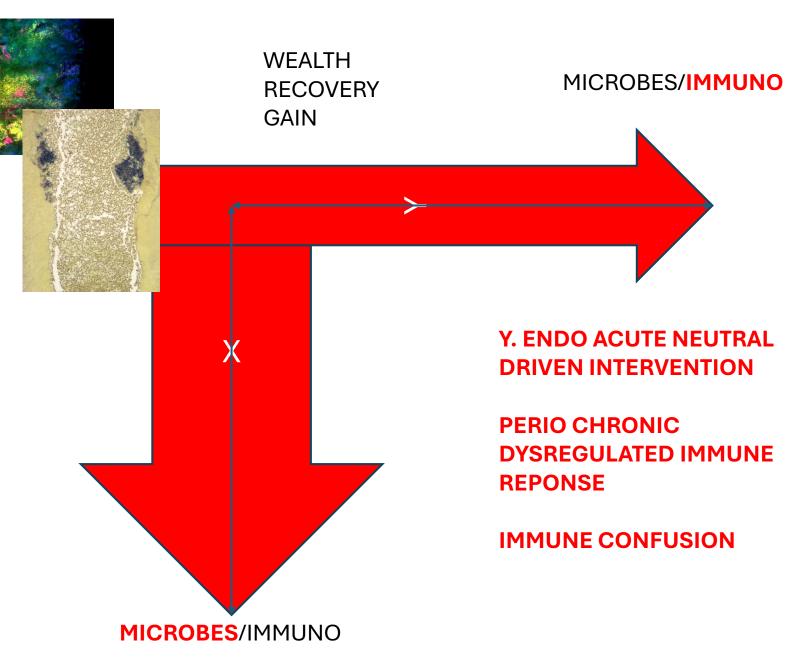
AGE 61 GENDER MALE Q-4

X. ENDO: LEAD E FAECALIS F NUCLEATUM

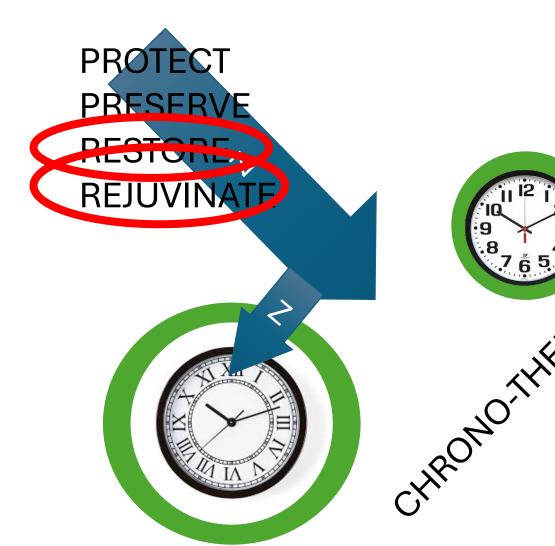
POLYMICROBIAL,
ANAEROBIC, GRAM
NEGATIVE
C ALBICANS

PERIO: RED COMPLEX

PATHOGENIC SYNERGY



CHRONO-DENTISTRY: NOT "WHAT", BUT "WHEN" INTERVENTION 2 CLOCKS



Z-1 ENDO

Z-2PERIO

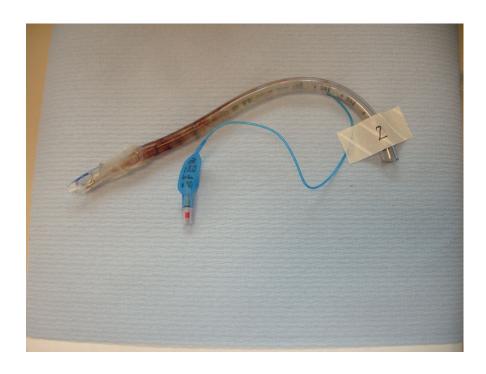
Targeted Phage intervention with ABX after canal debridement

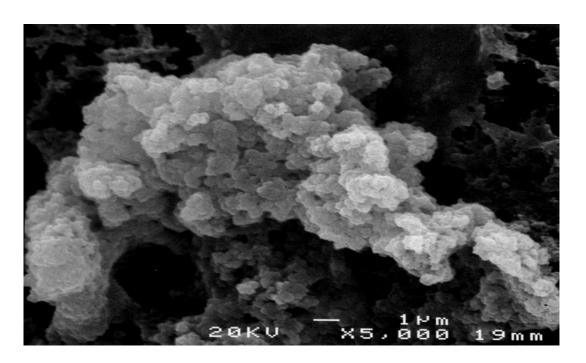
Scaffolding building probiotics, during peak immune recovery

Probiotics that reinforce recolonization

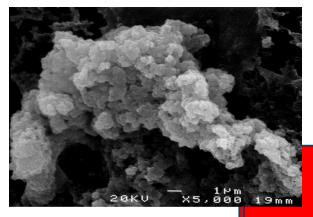
CASE 3. PERIO IMPLANTITUS

- ABIOTIC SURFACES
- TITANIUM
- ENDOTRACH FOR VENTILLATED PATIENT





AGE 45 GENDER MALE Q-3



WEALTH RECOVERY GAIN

X

MICROBES/IMMUNO

SHORT INTERMEDIATE LONG

BIOFILM/MICROBIOME

CLASSIC RED COMPLEX

P. ging

T. forsythia

T denticola

OPPORTUNISTIC

F. Nucleatum Staph aureus MIC

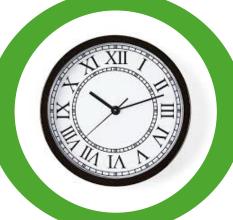
MICROBES/IMMUNO

Down regulate destructive inflammation

Reestablish neutrophil circadian rhythm

Promote fibroblast and osteoblast acitity

PROTECT
PRESERVE
RESTORE
REJUVINATE





Guided bone regeneration scheduled to coincide with osteoclast peaks

Barrier reinforcements aligned with circadian antioxidant enzyme peaks

Timed nutrition

Phage Intervention immediately post debridement
Probiotics (L reuteri, Strep salivarius) in AM
Rinses and probiotic lozenges in evening, blunt nocturnal surge

CASE 4. TOBACCO USE/SMOKING SYSTEMIC



AGE 18 GENDER FEMALE

Q-3

DON'THURT THR MICROBIOTA

WEALTH RECOVERY GAIN

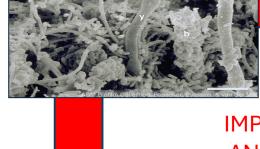
MICROBES/IMMUNO

SHIFTS BIOFILM TO ANAEROBE, RED/ORANGE DOMINANCE

ACTINO ACTINO
BALANCE TOWARD DYSBIOSIS PD
MARSH

IMPARED NEUTROPHIL CHEMOTAXIS
AND PHAGOCYTOSIS
REDUCED VASCULARITY AND
FIBROBLAST FUNCTION

MICROBES/IMMUNO









CHRONOTHERAR

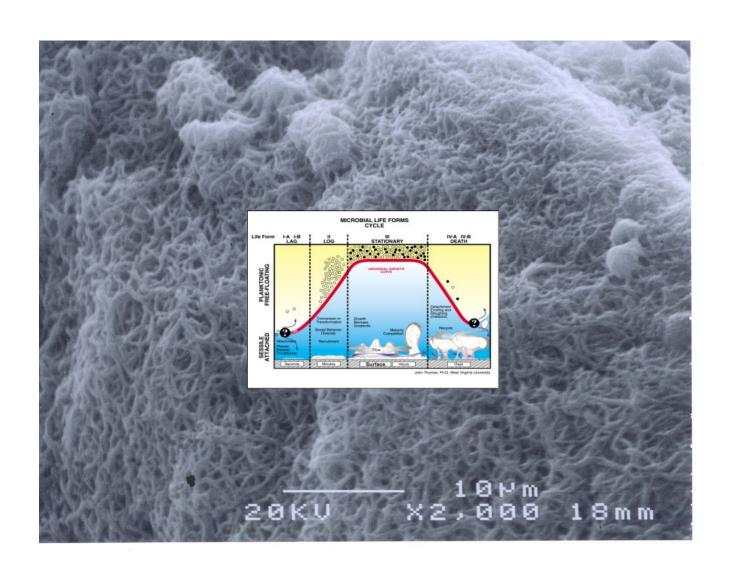
SMOKING CESSATION IS KEY

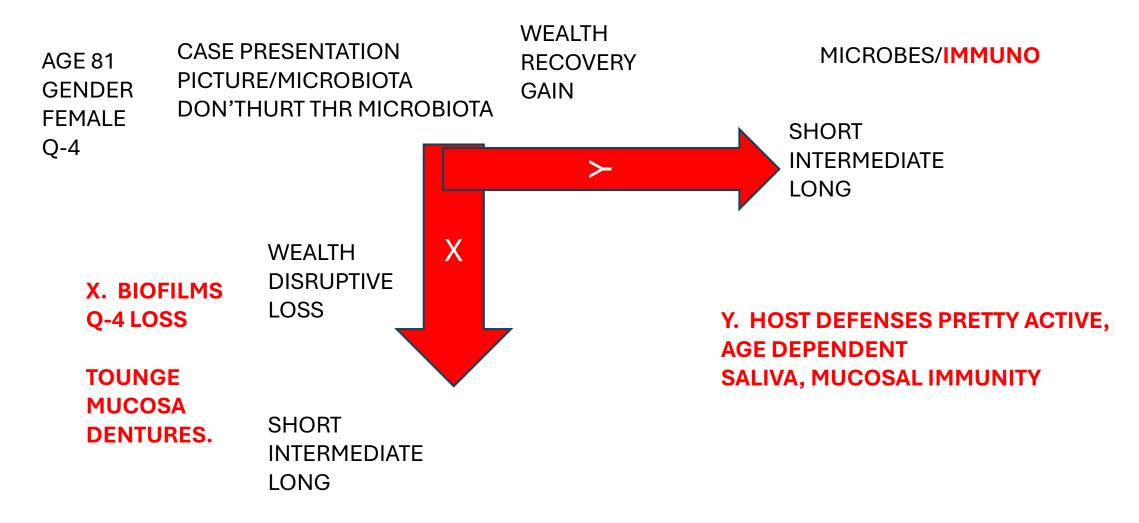
MECHANICAL DEBRIDEMENT

PROBIOTICS TO COUNTERACT DYSBIOSIS

CHRONOBIOLOGY-GUIDED
CESSATION SUPPORT-ALIGNING
MICROBIOME RECOVERY WITH
SYSTEMIC DETOXIFICATIN RHYTMS

CASE 5 ???????





MICROBES/IMMUNO



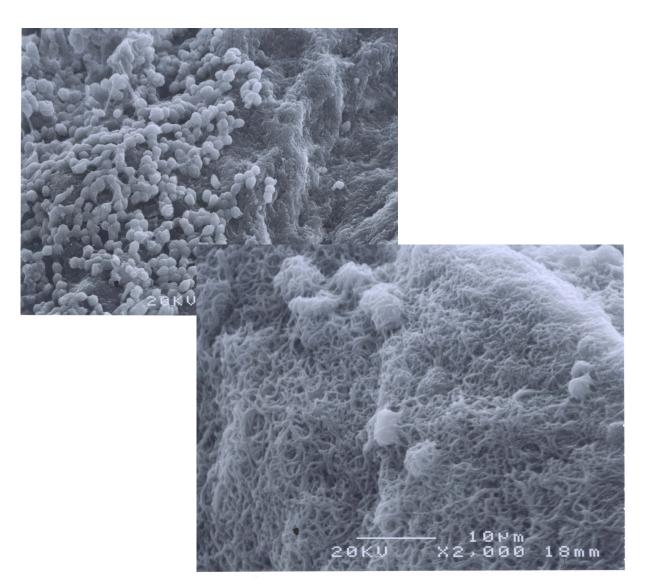


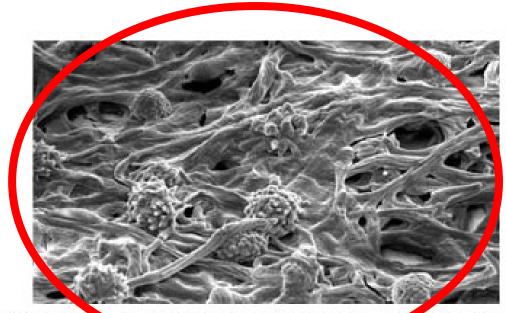


ADDRESS DYSBIOSIS
PHAGE AND PROBIOTICS

TIMED ANTIMICROBIAL/PROBIOTIC
RINSES TO PREVENT STOMATITIS
AND FUNGAL OVERGROWTH

Biofilm in Chronic Rhinosinusitis Patient FUNGOME





Aspergillus biofilm. A mixed biofilm found in airplanes. These for gal biofilms form on industrial surfaces as well as cause fatal pneumonia is numans and animals.

TAKE HOME MESSAGE: THM

- 2 KINGDOMS
- INTELLEGENT SYMBIOSIS
- PERSONAL RESEARCH BIOFILMS, OTHER SITES (WOUNDS).
- FUNGOME AND FUNGAL PHAGE
- SHANNON INEX 1.5
- QUOTE: "Edentulous is not empty- biofilms still write the story" AND
- "You may be the author of your book, but your microbiome is the editor" John Thomas

TAKE HOME MESSAGE, THM: SUMMARY

- "We live in a Microbial World"
- Humans are a holobiont member defining synergy with microbes.
 Microbes are our ancestry
- Microbiome First Medicine/Dentistry is the new paradigm shift recognizing the laboratory has gone from a culture positive, to culture negative result, utilizing molecular microbiology, SHANNON INDEX
- Intervention is now defined by "when", not "what" or chronobiology using intervention focused on a matre of 'not hurting the microbial host', our microbiome.
- Synchrony of 2 CIRCADIAN clocks is the goal of CHRONO-DENTAL management.