

microSURE™

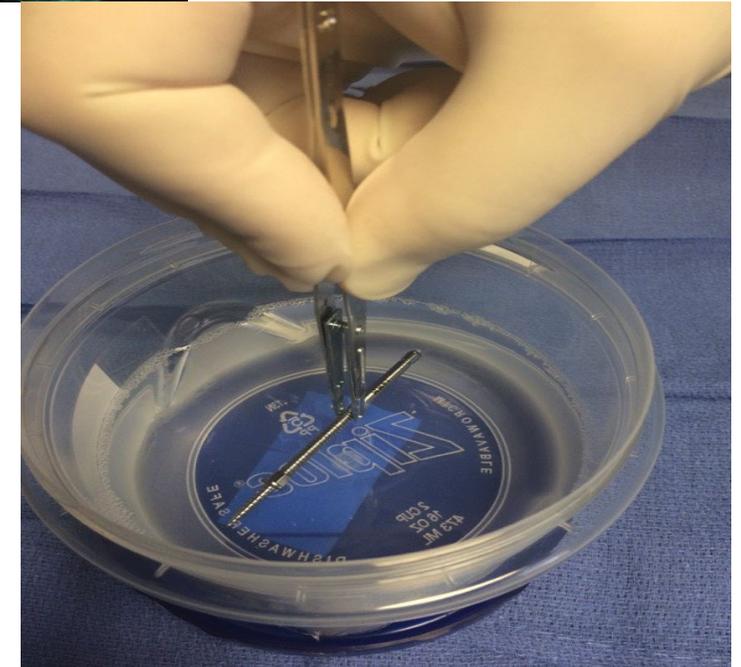
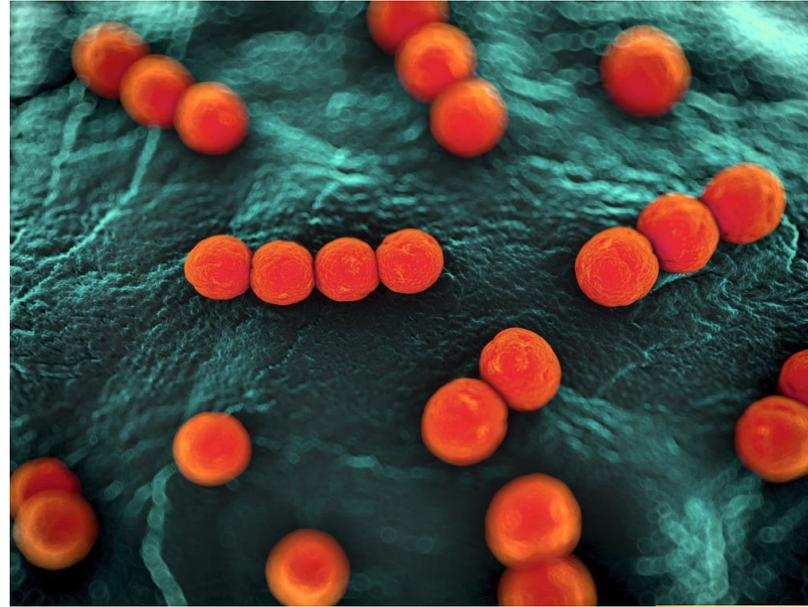
Brief History

- Nano Particulate Silica Crystals (SiO₂) originally used as a non-prescription treatment for diabetic wounds. Invented by Dr. Erwin Lo who is a practicing neurosurgeon in Texas.
- Relies on surface properties rather than chemotoxicity for its effectiveness. In other words, a non-chemical, non-pharmacological treatment. This product performs a “mechanical kill”.
- Numerous studies performed inside and outside of the US to expose the product to various viruses and bacteria.
- Product is not new.
 - Was created more than a decade ago.
 - Has been available for public.
- Has existing FDA and EPA approvals.



Original Extension

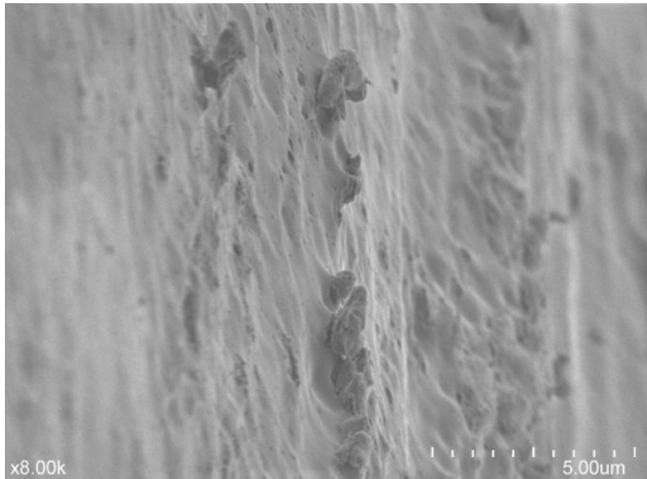
- Explored use as a surgical coating.
- Studies done through Atlanta Medical Center and Georgia Institute of Technology (Georgia Tech), led by Dr. Tim Ganey.
- Key questions:
 - Would material bond to the surface of implants
 - Would materials be effective against SARS and MRSA.
- Similar set-up to a Kirby-Bauer agar diffusion test (KB testing). Used blood and chocolate agars – see images on next page.
- Materials created a covalent bond through coating process, which was done by immersion.



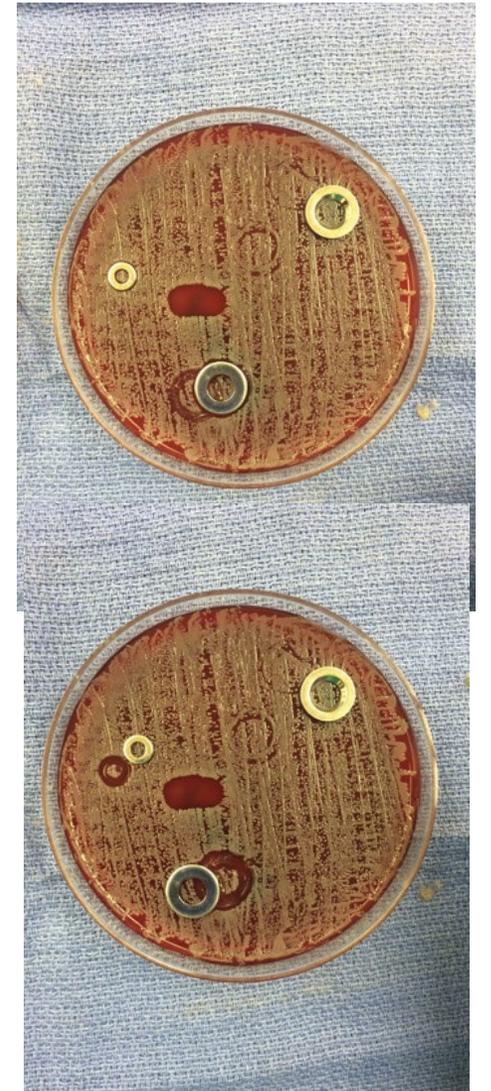
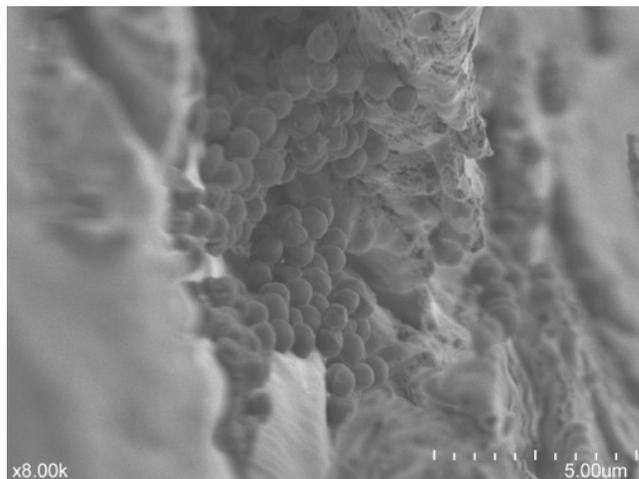
Results

- The tests were considered a success:
 - No zone of inhibition.
 - Utilized an electron microscope to coating deficits as well as presence of MRSA colonies.
- This product has been used since as a coating for surgical implants.

Treated Surface



Un-treated Surface

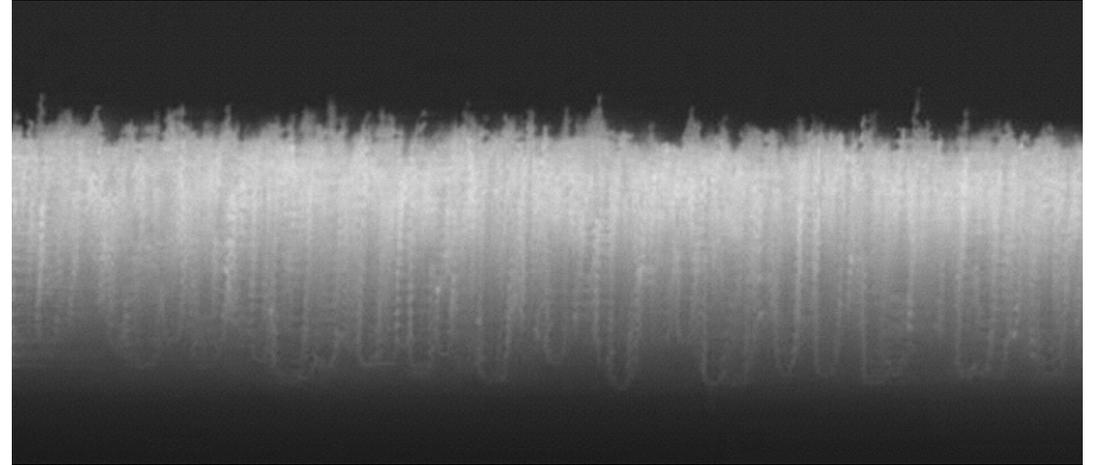


Product in the images above is a Caspar Distraction Pin.



Next Evolution:

- Strategia has taken the existing and proven technology from MicroSure and created a surface protectant.
- The treated surfaces retain their “killing capacity” for up to 30 days.
- Tests now done for effectiveness against COVID-19
 - Utilizing facilities at Clemson University, Texas A&M University and the University of Georgia.
 - Testing surface adhesion, including clothing (material remains effective after multiple washings).
 - Does not discolor or modify surface properties.
- Product again is not new. It has been in the market before now. Company wanted to ensure its effectiveness against COVID-19. Previous tests have confirmed its efficacy against SARS, and now new testing is available against SARS-CoV-2.
- This product works, and can be a game-changer.



The image above shows the material on a surface. It is approximately 4 nanometers in height, and has been developed in such a way as it creates “Crystalline Structures” which penetrate the cellular membrane of a virus or bacteria. For comparison, a single human red blood cell is approximately 6,000 to 8,000 nanometers in diameter.

To add more context, a human hair is around 75 microns (abbreviated 75 μ m) or 75,000 nm (nanometers) in diameter. The relationship between a nanometer and that hair is similar to the relationship between one inch and a mile - one mile is 63,360 inches.

This product works truly on a molecular level.

