"For major medical issues, I have health insurance. For everything else, I have Bentonite Clay."

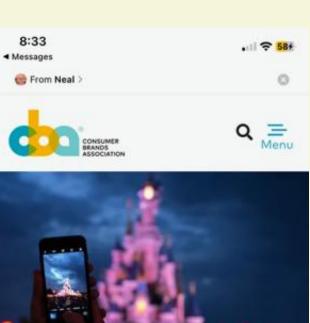
-Jan Eversole-

The Healing Power of Bentonite Clay

Presented by Neal Bosshardt
FOR
Weston A. Price Foundation

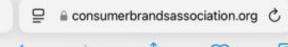
Prop 65 Warning







The Regulatory Problem



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Abstract.

This work examines the beneficial effects for horses health of clay minerals, describing their not in pharmacentical formulations, spin and acothetic medicine. Their therapeutic action as active principles to pharmacentical formulations really administed (gentromerous) protectors, leastives, auntifurblessure) or for topical applications (decreatelegical posturious and terminates) in described. Their use as exciptous and their influence in the houseablebility of the organic active principle is after described, both in the liberation process and is in possible degradation offset. Among their uses in spin, clay restorals therapeutic activity, is gentlemay, principally and paramide in commented upon. Manuscret, the applications of the clay minerals in architect medicine (to clear and reconstruct the thin and to combat attriput lipodystrophics, inter stid cellulate) are also described. O 2002 Elevater Science B V. All rights reserved.

Keywords Clay minorals, Pharmaconical Introductors, Span, Ainflatic studying

L. Introduction

The use of minerals for medicinal purposes is almost as old as mankind itself. Minerals have been used for curative ends since Professory. Them are relications that Home Everus and H. Neandershalensis used extern mixed with water and different types of made in order to core wounds, southe initiations, as a method of cleanning the skin, etc. This might have been due to their manicking animals, many of which instinctively use minerals for the above purposes. The use of medicinal earths in Mesopotamia and Ancient Egypt has also been proven. The use of Nation earth as an anti-inflammatory or the use of mud materials for manimification of cadavers can be cited as exerc-

ples (Bech, 1987; Robertson, 1996; Veniale, 1997). In the Ancient Greek period; mud materials (Lemnos Earth) were used as antisoptic cataglasms to cure skin afflictions, as eleatrons or as a cure for make bites. Both Hippocrates and Aristotle, among others, prodiced classifications of medicinal cards. Most of these materials are clays, given different names. depending on their origins or on the differences in their mineralogical composition and proporties. For example, Terra Samia, T. Sigillana, T. Lomnia, T. Cimelia, T. Scinignica, T. Eretria, T. Negra, etc. (Buch. 1995; Gumnuttoo et al., 1997). Furthermore, Cleopatra, Queen of Egypt, used made from the Dead Sea for cosmetic purposes and Maton Polis describes how in his travels he saw Muslim pilgrims cure fevers by the ingration of "pink earth" (Venials, 1996).

The first written reference known to exist upon the use of "stones" and a description of their country.

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OPEN Unearthing the Antibacterial Mechanism of Medicinal Clay: A Geochemical Approach to **Combating Antibiotic Resistance**

Keith D. Morrison¹, Rajeev Misra² & Lynda B. Williams³

Natural entibacterial clays, when hydrated and applied topically, kill human pathogens including antibiotic resistant strains proliferating worldwide. Only certain clays are bactericidal; those containing soluble reduced metals and expandable clay minerals that absorb cations, providing a capacity for extended metal release and production of toxic hydroxyl radicals. Here we show the critical antibacterial components are soluble Fe" and Al" that synergistically attack multiple cellular systems in pathogens normally growth-limited by Fe supply. This geochemical process is more effective than metal solutions alone and provides an alternative antibacterial strategy to traditional antibiotics. Advanced bioimsoing methods and genetic show that AI11 misfolds cell membrane proteins, while Fe31 evokes membrane oxidation and enters the cytoplasm inflicting hydroxyl radical attack on intracellular proteins and DNA. The lethal reaction precipitates Fe¹⁺-oxides as biomolecular damage proceeds. Discovery of this bactericidal mechanism demonstrated by natural clays should guide designs of new mineral-based antibacterial agents.

The emergence of autibiotic resistant human pethogens has accelerated inquiries into alternative antibacterial compounds". Bacteria rapidly establish resistance against traditional antibiotics that target aprecific oribitar mechanisms DNA replication, protein and cell wall synthesis? As a result, alternative mineral based theragies against bacterial infections have gained attention by Clays, although used for medicinal purposes throughout millemma, have remained largely unstadied for their applications and reported medical benefits** Documented use of reduced metal-rich clays in healing necrotizing faccitis", community known as 'flush eating bacteria' led to our research on the geochemical proporties of antibacterial minerals. When tested against a broad spectrum of human purhogens, it was shown that certain clays also kill antificitic resistant pathogens including methicillin resistant Staphylacoccus aureus (MIRSAY).

The term clay orders to <2 µm minerals of any type, and this size fraction commonly contains also refer clay minerals (amerite, illite, kaolinite), which provide an enormous surface area (190°s m²/g) for cation exchange reactions when hydrated". Only a few clays have been identified as antibacterial, completely killing a broad spectrum of human pathogens". Initially we compared the geochemical properties of several antibacterial clays to identify similarities among their mineral assemblages A.P. Notably the pH of the hydrated antibacterial clays was either high (>10) or low (<5) where Al and Fe are soluble. This directed our investigation to evaluating the toxicity of soluble elements on puthogenic bucteria.

Antibacterial susceptibility testing of numerous clay deposits led to discovery of a deposit from the Oregon. Cascades that is 100% effective at killing all pathogens we have tested so far, including antibiotic resistant strains (see Methods). The annihactorial roses in this deposit formed in hydrothermally altered andesite purplyry associated with argific clay alteration and volcanogenic massive sulfides. The antibacterial Blue clay nones from this deposit contain mixed layered flite-assectite, pyrite. Ca-plagioclase and quarte. Recommissance studies 4.00 showed that this clay kills pathogens by chemical toxicity that occurs in < 24 hrs, rather than physical disruption. of cells. In nature microbes have evolved in contact with clays, many deriving energy from the minerals 10-10

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Trauma, Burns & Clay





Acetylene Torch Burn

Before

After





Ten Minutes: "At least it doesn't hurt anymore."

Four Days: "It's just pink skin."

Treadmill Injury – 10 Year Old Boy

1st



"The only discomfort was when we changed the clay once a day."

After 1



"The new skin can be touched without pain."

After 3



"Thanks so much!"

Brown Recluse Spider Bite

2 days after bite before first Dr. Visit – 3/28



6 days after bite



8 days after bite



11 days after bite – Day Before Starting Clay

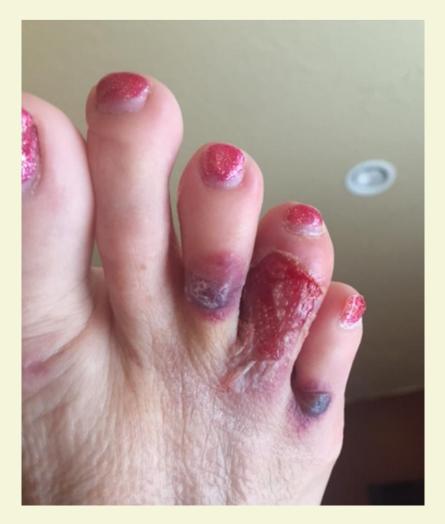


13 days after bite

1st Day after Clay



15 days after bite3 days of clay



18 days after bite - 6 Days of

22 days after bite - 10 days of Clay clay





Day Before Starting



25 days after bite 13 Days of



4 Months After the



Road Rash from Bike Accident During

Before



Road Bike Race Accident. 25+ mph, Rocks, Dirt, etc. Race Dr. said it would have to be professionally cleaned by a Dr. to avoid it becoming a permanent "tattoo" from the deeply embedded road debris.



The pain decreased almost immediately after the wet clay was applied. (The clay looks a little lumpy because it wasn't previously mixed into a gel so it didn't have a chance to fully hydrate before it was applied.)





Notice how clean the wound is after the clay was able to lift and remove the rocks, dirt, etc. without needing to have a Dr. painfully "clean" the wound. Clay was applied two more times after this picture and it completely healed.

Broken Ankle with Infected Pins

4 months of wound clinic



3 Weeks of







"Thanks to the clay, I still have a foot."

8 Year old Boy Ran Over Hand with Go-Kart

Day 1















WARNING

This gallery contains graphic images that some viewers may find disturbing

Thigh Ripped Open with Farm Day 3 - Maple 12516





Day 10



Day 17



Day 31



Day 45



Day 63 - May 17, 2016



One Year Later



Tiller Tine Injury



Entry Hole



Day 15



Day 23



Gauze with Clay

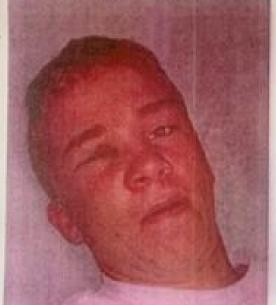




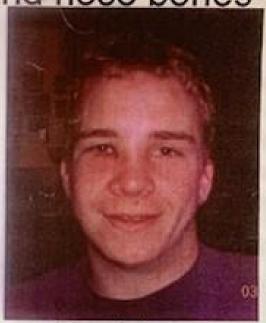
3 Months



Broken cheek and nose bones



Before clay



A couple hours after a clay pack

A 15 year old male was hit in the face at close range by a hard thrown baseball. He turned his head just before impact, so it hit a glancing blow on the cheek and nose, but the impact lifted him off his feet. At the hospital, the doctor said the X-rays showed the cheek bone was shattered and the nose was broken so badly the victim would have to have an ENT rebuild his nose. An appointment was made for a week later when the swelling should be down. The parents packed his entire face in wet clay gel that night including filling the one eye socket with clay. With the clay on his face, his pain was so minor he never took anything but a Tylenol.

They kept wet clay on the face from Thursday night until Saturday morning. There never was any swelling and his eyes didn't show any signs of bruising. The following Wednesday when the doctor was 're-building' his nose, he made the comment that the young man should have had two black eyes from such an injury.

Cancerous Tumor Removed from Head

Day 1 Day 3 1 Week







1 Month 2 Months 3 Months







4 Months



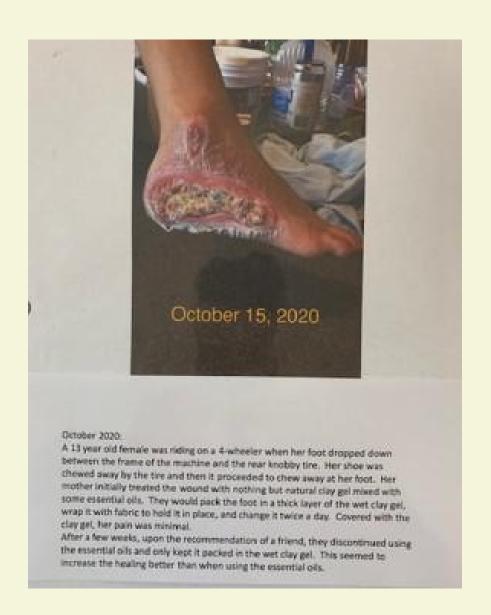
Shingles - Pain Level 5 Duration - 1 Week





4-Wheeler ATV Accident









A few months later.

They are still pleased with the way it healed. The mother says if it bothered her daughter more, she would use coconut oil or vitamin E on it to soften the scar.

Gasoline Burns – 1 Week in Burn Center

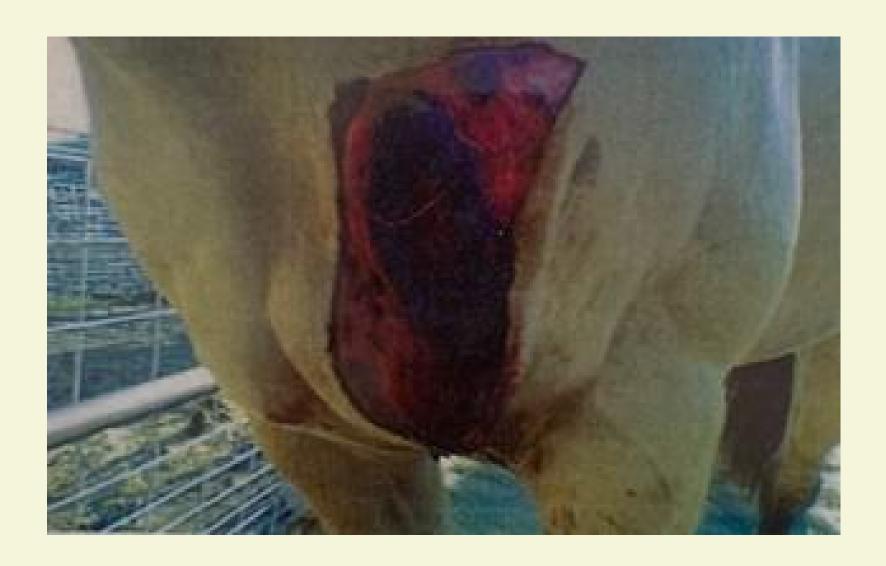


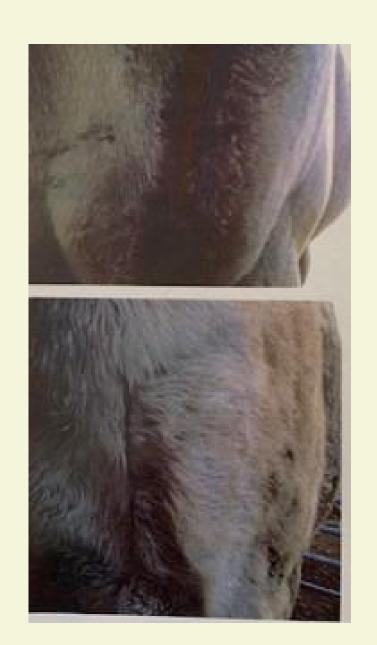
Carpal Tunnel Surgery





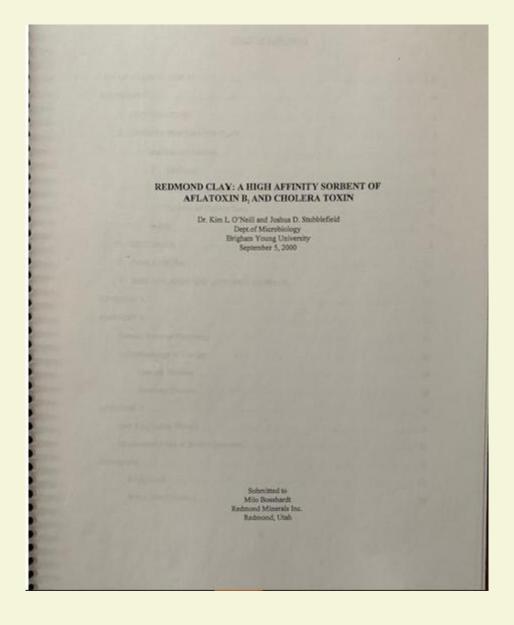
T-Post Horse Injury

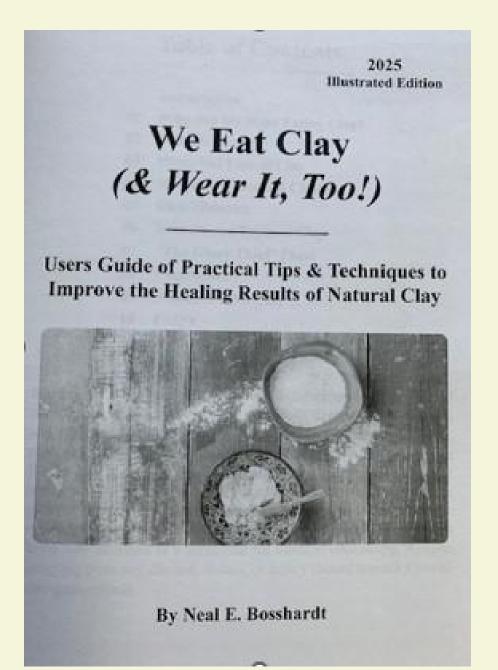






Major University Study





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