



## International Malaria Colloquium: Meeting Abstracts Applying Molecular Techniques to Interventions in Malaria Elimination in Nigeria

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### Revolutionising Malaria Treatment with Powertube (TENS)

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#### **Introduction:**

Powertube TENS (Trans-cutaneous electrical nerve stimulation) devices are used for pain therapy, health care and in combination with infectious diseases. Trials show the hypoalgesic, hypotensive and hypoglycemic effects, even its stimulating effects on body metabolism leading to detoxification. We applied this non-thermal low electric device in the treatment of uncomplicated

plasmodium falciparum malaria. Powertube is the latest invention of Martin Frischknecht, a Swiss Electrical Engineer, it comes in Silver and Gold. It has the following certifications EN ISO 13485:2012 + AC:2012, CE certified 0482 and is categorised as a medical device safe for use on humans and animals. It has SONCAP certification and NAFDAC approval. It operates over 3 basic high frequencies with corresponding overtones





generated through alternating current. After a minimum of 3 minutes treatment the homogenous structure of water molecules disharmonised due to a febrile condition regain their integrity, their function is restored to optimum levels and a clear increase of body energy occurs and the regenerative forces naturally produced in the body are mobilised to combat infections.

**Method:** Over six years 126 patients ages 5 and above in a febrile state who tested positive for *P. falciparum* using standard RDTs were treated in Nigeria using Powertube for 48 minutes after ensuring that patients were properly hydrated by drinking water before and during the treatment.

**Results:** In all 126 cases, the symptoms of fever disappeared completely after 48 minutes treatment with reoccurrence of symptoms within 24 hours noted in 10 cases. In twelve cases intensively monitored over 14 days, a gradual decrease in the high parasite density observed on the slides taken before and after treatment and on every two days after the treatment over 14 days was noted. The Rouleau formation of blood cells seen in

8 cases was noted to disappear after the treatment.

### Conclusion:

A 48 minute treatment with Powertube clears all symptoms of fever without reoccurrence within 24 hours in cases of uncomplicated malaria. The use of this device in the prevention and treatment of uncomplicated malaria has to be examined in large scale studies using an ACT based control group.

### References

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