Published clinical trials:

A blind, two-way crossover clinical trial was carried out by the College of Dentistry, University of Saskatchewan, Canada with 80 high school children of both sexes aged 13-16 years. The aim of the study was to compare the plaque removing ability of the Soladey toothbrush with a toothbrush of identical appearance but with an imitation bar made of synthetic resin (control brush) in the place of the semiconductor. Both groups were advised to use the brushes according to the manufacturer’s instructions for a period of 3 weeks using a small amount of a standard toothpaste which was provided.

The result of this study indicated that the Soladey™ toothbrush had better plaque removing ability, especially on the buccal surfaces of all teeth, than the control brush without the semiconductor.


A study was carried out by the Department of Preventative and Community Dentistry, Nippon Dental University at Tokyo with 60 adult female subjects who were dental hygiene school students. One group (32) used the Soladey and another (28) used a conventional toothbrush (control). The subjects’ oral conditions were examined 1, 2 and 3 weeks later using five standardised tests.

After the 3rd week there was a significant improvement in gingivitis and oral cleanliness in the group using the Soladey™ compared with the control group.

Moto Niwa and Masaomi Kukuda: Clinical Study on the control of dental plaque using photo energy conversion in a toothbrush equipped with a TiO2 semiconductor Shigaku Vol 77 NO 2: August 1989 p 598-606

1 “Outer” surfaces of the teeth nearest cheeks or lips
2 Inflammation of the gums, characterised by redness and swelling
The original, popular and revolutionary 'high-tech' toothbrush from Japan is now available in Australia.

A Revolution in Dental Care!
It looks like an ordinary toothbrush, but closer examination reveals a rod that runs through the replaceable bristle head and into the handle. This metal rod is the secret to Soladey-2™. It is made of a patented semiconductor material that when activated by light produces electrons that help remove dental plaque.

How it works
When exposed to any light source (a fluorescent bathroom light into a plain light bulb, or sunlight), the photosensitive titanium rod inside Soladey-2™ converts light into negatively charged electrons (ions). The rod releases the ions, which blend with saliva to attract positive (hydrogen) ions from the acid in the dental plaque.

The acid is then neutralised and plaque is disintegrated - a scientific approach to a cleaner and healthier mouth! Toothpaste is not required as water (saliva) is the active ingredient - oral hygiene now becomes not only natural, but also economical!

How to use Soladey
After wetting the bristles and semiconductor with water, brush your teeth lightly and thoroughly in the same way as with an ordinary toothbrush. You may, if you wish, use a very small amount of your preferred toothpaste on the bristles, although this is not necessary with Soladey-2™. Make certain there is always adequate light source (natural or artificial) on the semiconductor rod as this is necessary for activation. If necessary the mouth should be kept partly open.

In Japan over 2 million Soladey toothbrushes and 5 million replacement heads are sold each year!

With sensible care, the handle and rod will last for years, requiring only inexpensive replaceable heads. The replacement heads provide all the benefits of the Soladey at a comparable cost of a regular toothbrush.

Benefits
Reduces bacteria & plaque
Bacteria in plaque attack food, producing acid. This acid causes bad breath, tooth decay, and gum disease. Normally, saliva neutralises this action. But when plaque builds up, it acts as a barrier, preventing the neutralising action of the saliva. According to clinical studies, the Soladey-2™ can stop this plaque buildup. Working with saliva, the brush controls the bacteria responsible for plaque.

Reasons for using Soladey-2™
Reduces Cavities
Actually reduces bacteria that causes cavities by the natural cleansing action of safe, free electrons emitted from the revolutionary solar conducting rod.

Teeth feel & look cleaner
Through superior cleaning ability, plaque adhesion to your teeth is reduced photoelectronically.

Toothpaste is unnecessary
Effective plaque removal is possible with or without toothpaste; ordinary light activates the patented semiconductor rod and cleans your teeth without abrasives.

Affordable & Economical
With sensible care, the handle and rod will last a lifetime, requiring only inexpensive replaceable heads. The replacement heads provide all the benefits of the Soladey-2™ at a comparable cost of a regular toothbrush.