



2
PREV
EVALS

32
YEARS
EXP

I believe Dia-Ultrasonic will improve the success of my root canal treatments.

Tony Hsu, DDS
North Bethesda, MD



18
PREV
EVALS

20
YEARS
EXP

I like that it's portable without the cumbersome cord.

Grace Chu, DMD
Dallas, TX



8
PREV
EVALS

29
YEARS
EXP

The tips are well angulated and are durable and thin enough to easily reach all canals.

Alan Sedell, DMD
Peoria, AZ

DIADENT

Dia-Ultrasonic

4.2
Dental PRODUCT SHOPPER
RECOMMENDED
PRODUCT

With two ultrasonic frequencies, this cordless, handheld, ultrasonic activator significantly improves root canal debridement and irrigant penetration

While "less is more" is a popular adage these days, there are times when "more" is definitely the better option.

And because canal cleanliness is critical to the success of root canal treatments, DiaDent has gone above and beyond to design a device that offers above-average irrigation to get the job done.

A powerful ultrasonic handheld device that's cordless, compact, and easy to use, the Dia-Ultrasonic activator uses 2 ultrasonic frequency ranges (low frequency: 30–32 kHz/30,000–32,000 Hz, and high frequency: 35–45 kHz/35,000–45,000 Hz) to enhance debridement of the root canal system and improve penetration of irrigants into dentinal tubules.

On top of that, Dia-Ultrasonic automatically detects the depth at which the 31G tip is inserted into the root canal, identifies the optimal frequency corresponding to that depth, and selects and applies a frequency within that range.

As a clinician who values the peace of mind in knowing "that the root canals are completely irrigated and cleaned by chemical and mechanical means," Dr. John Jackfert was pleased that Dia-Ultrasonic "cleans the canals in 2 ways instead of the traditional 1 way, using ultrasonic vibrations to clean the canal walls along with the irrigation solution." His message to colleagues is a simple one: "Dia-Ultrasonic is a time-saver and a device that will make you feel better about the success of your RCTs."

Portable, Cordless, and Quiet Design

Dia-Ultrasonic features a cordless, portable design for optimal convenience, as well as an ergonomic handle, minimal vibration, and quiet operation to enhance the clinician experience. A powerful, 2,750 mAh rechargeable Li-ion battery can last up to 500 cycles and fully charges in only 3.5 hours.

"It has a solid feel that exudes quality construction, and the handle is ergonomic and easy to use," said Tony Hsu, DDS. Dr. Nathaniel Behrents likes its "small size and ease of use, even in difficult areas," and Dr. Grace Chu appreciates that "it's portable without the cumbersome cord." Dr. Orapin Horst shared, "Being cordless and portable makes it very convenient to just grab and use," and Dr. Nilay Nanavati decided that "its mobility improved chairside efficiency."

Appreciating the "very minimal" vibration on his hand and his patients' teeth, Dr. Jackfert "liked how quiet it was." Alan Sedell, DMD, was impressed that "it held its charge for a long time despite constant use." He also suggested that "the on/off button be placed in a slightly more convenient position on the unit."

Durable and Powerful Heat-Treated Ni-Ti Tips

With durable, powerful, and flexible heat-treated Ni-Ti tips, Dia-Ultrasonic safely and efficiently accesses difficult-to-navigate root canals, resonating down the entire length of the tip with optimal efficiency and without fracturing, according to DiaDent.

"The tips are well angulated for easy canal access and are durable and thin enough to easily reach all canals," said Dr. Sedell. "The stiffer tip allows me to more easily insert into canal orifices, and placement of the tip is predictable," allowing for "less



takeaways

- A powerful ultrasonic handheld device that is cordless, compact, and easy to use
- Two ultrasonic frequency ranges improve root canal system debridement and irrigant penetration
- Flexible, fracture-resistant Ni-Ti tips safely access difficult-to-navigate root canals
- Powerful rechargeable Li-ion battery lasts up to 500 cycles with a full charge



Nathaniel Behrents, DDS, MS
Fayetteville, AR

"Dia-Ultrasonic pushed irrigant into areas not reached by normal needle irrigation."

time spent activating irrigation," said an endodontic resident. Dr. Bruce Schulman felt the tips could be more durable, while Dr. Hsu noted, "The tips last for dozens of uses, which leads to money saved." He suggested tips in varying lengths and with depth markings on the tip surface.

Irrigation Performance

Dia-Ultrasonic's dual-ultrasonic frequency creates the acoustical streaming and cavitation needed to eliminate vapor lock while cleaning, penetrating, and irrigating root canals more precisely than single-frequency devices, according to the manufacturer.

"This was my first experience with ultrasonic irrigation, and I quickly started to prefer the Dia-Ultrasonic over [a sonic irrigator] for activating my irrigation," shared the endo resident. "I found the ease of use of the device to be far superior, and I felt it was removing more debris from canals."

"The energy created by the dual-frequency ultrasonic tip inserted into the canal prior to obturation maximizes cleanliness and disinfection, and ultimately, my success rates will improve," said Dr. Hsu. For Dr. Sandip Ladani, "using ultrasonic irrigation helped with activation and with removal of debris where irrigation alone can't reach." Dr. Behrents said, "Dia-Ultrasonic pushed irrigant into areas not reached by normal needle irrigation,"

and Dr. Schulman said the agitation "more effectively cleans canals." Noting that "the ultrasonic activation seemed vigorous and penetrating and more consistently spread the solutions deeper and with little effort," Dr. Sedell declared, "It works smoothly and as advertised, and the irrigation process was faster, seemed more effective, and was trouble-free."

Overall Satisfaction

"I would unhesitatingly recommend Dia-Ultrasonic," said Dr. Sedell, and Dr.

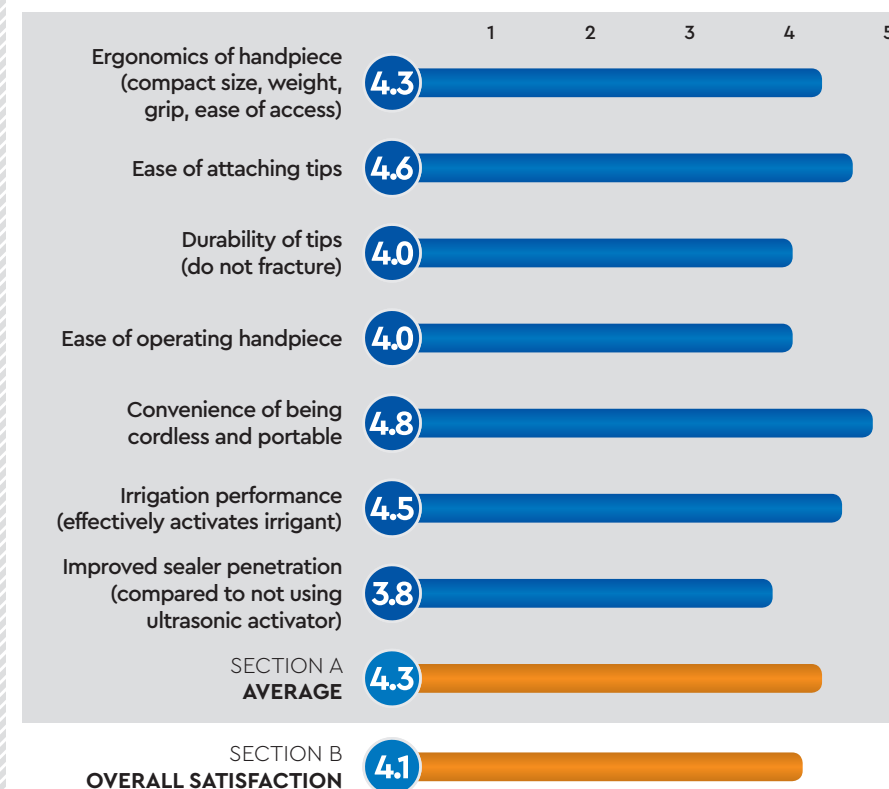
Jackfert reported that his patients were "very impressed and happy that I was using the latest technologies for their root canal treatments." Concluding that he is "extremely satisfied" with the DiaDent ultrasonic activator, Dr. Hsu shared, "With the addition of just a few minutes, I believe Dia-Ultrasonic will improve the success of my root canal treatments."

FOR MORE INFORMATION:

877.342.3368
www.diadent.com

PRODUCT REVIEW SNAPSHOT

CRITERIA BASED ON AVERAGE SCORE (OUT OF 5)



DIADENT
DIA-ULTRASONIC

FINAL SCORE
AVERAGE OF SECTIONS A AND B

4.2

Dental PRODUCT SHOPPER
RECOMMENDED
PRODUCT