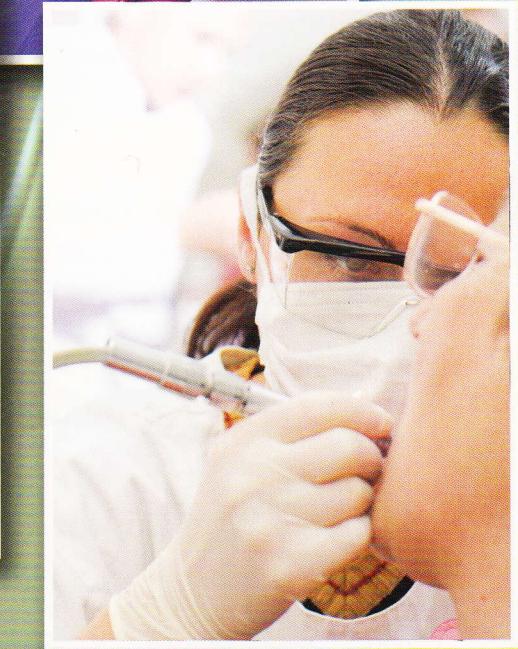
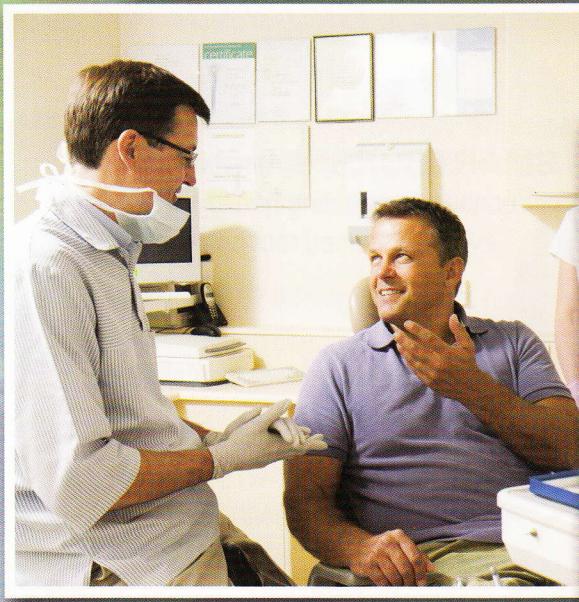
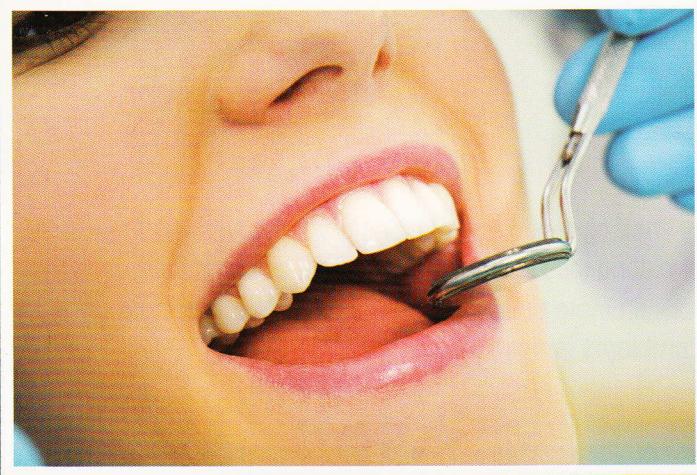


The Intelligent Bur That you and your patients can appreciate.



SMART BURS® II
CONSERVATIVE DECAY REMOVAL INSTRUMENTS

For Deep Lesion Dentistry

DWHITE®

Why choose SMARTBURS® II instead of conventional rotary cutting instruments in deep lesions?



Deep lesion dentistry requires preservation of the healthy shelf of dentin that overlies the pulp chamber in order to avoid pulp exposure. SMARTBURS® II are the only rotary cutting instruments that uniquely discriminate between healthy and carious zones of dentin. This is unlike the indiscriminate cutting action of conventional carbide burs, ceramic burs and diamond instruments that can present problems in deep lesions.

Problem

Risk of Pulp Exposure

Conventional rotary cutting instruments remove all tooth structure in their path, increasing the risk of pulp exposure and potentially leading to more extensive restorative procedures than originally intended.

Post-Operative Sensitivity

The uneven topography of carious lesions can leave healthy dentinal tubules in harms way of conventional rotary cutting instruments; open dentinal tubules may contribute to post-operative sensitivity lasting for several hours or days.

Patients Who Do Not Tolerate Local Anesthesia

Some patients refuse, or cannot medically tolerate, use of local anesthesia; caries removal is painful, or patients may delay or avoid caries treatment.

Solution

SMARTBURS® II Instruments



conserve remaining healthy dentin to avoid unplanned root canal treatment.



SMARTBURS® II Instruments

do not traumatize healthy dentinal tubules, thereby reducing post-operative sensitivity.



SMARTBURS® II Instruments

do no harm to healthy dentinal tubules so patients may experience a more comfortable caries removal procedure without anesthesia.

"SmartBurs® II Instruments are essential when removing decay in deep lesions because they preserve the healthy dentin. This reduces post-operative sensitivity and avoids unnecessary root canal procedures." -- Howard S. Glazer, DDS

SMARTBURS® II: the next generation of SMARTBURS® Instruments.



SMARTBURS® II Instruments are an effective caries removal bur for dentists who wish to:

- ✓ conserve healthy dentin
- ✓ avoid unnecessary root canal procedures¹
- ✓ safeguard the pulp from exposure¹
- ✓ reduce patient post-operative sensitivity

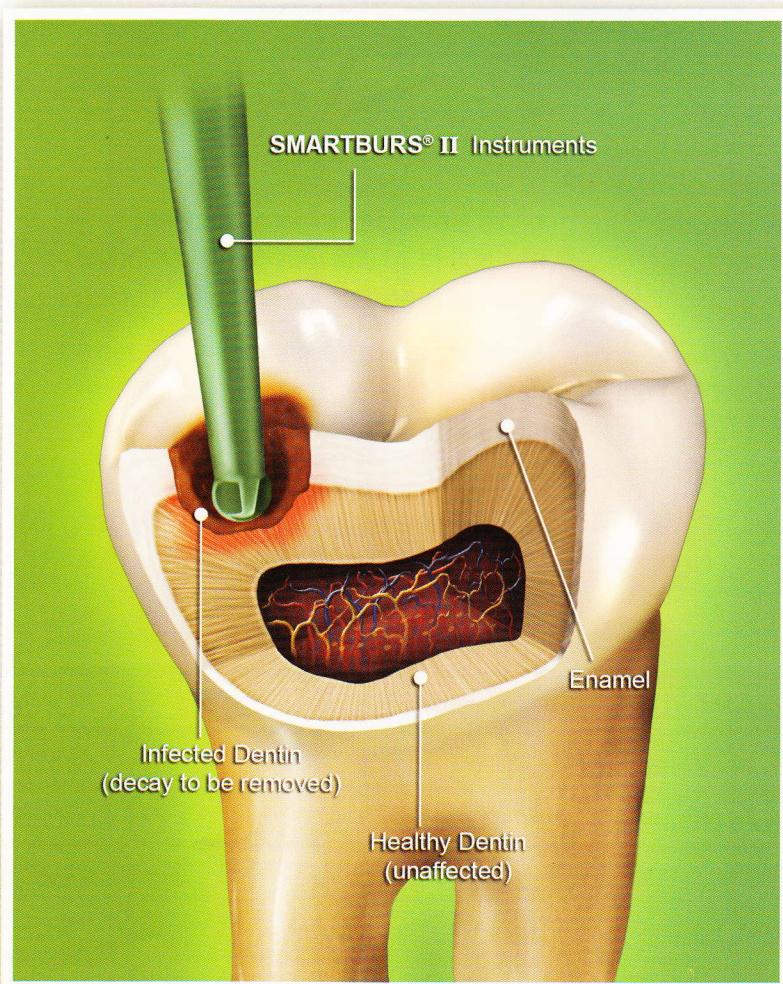
The inherent mission of **SMARTBURS® II Instruments** is to 'do no harm' to healthy dentin.

SMARTBURS® II are patented², single-patient-use instruments redesigned and constructed from a medical grade, glass bead-reinforced polymer.

SMARTBURS® II Instruments are harder than infected dentin but softer than healthy dentin to enable removal of carious dentin without harming healthy zones of dentin.

The **SMARTBURS® II** polymer blades are precisely engineered to deform as they encounter harder, healthy dentin.

"Smartburs® II is a unique instrument that plays a significant role in what I describe as "self-limiting caries therapy"."
Prof. Dr. Karl-Heinz Kunzelmann



¹ Under normal use and in accordance with instructions where a healthy zone of dentin exists.

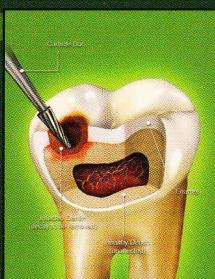
² U.S. Patent Nos. 6,106,291 and 6,347,941

Deep Lesion Caries Removal

Which Path Would You Choose?

Create Access to Decay

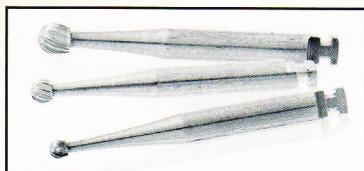
1.



Use appropriate carbide burs to create access to decay.

Deep Caries Removal With...

2.



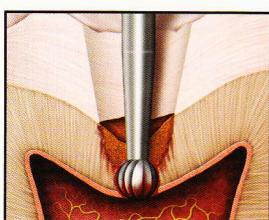
Conventional round burs #4, 6 or 8

Deep Caries Removal With...

SMARTBURS® II
#4, 6 or 8

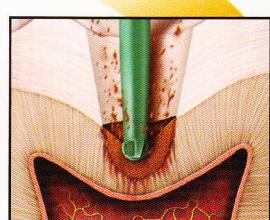


3.

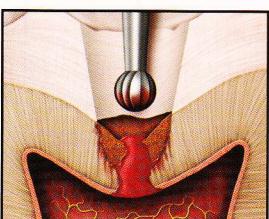


Conventional bur can indiscriminately remove carious dentin and the healthy shelf of dentin that overlies the pulp.

SMARTBURS® II will selectively remove carious dentin without harming the healthy shelf of dentin that overlies the pulp.

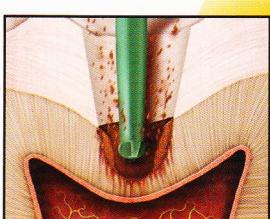


4.



Remaining healthy dentin breached.

Remaining healthy dentin spared.

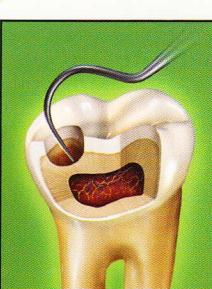


5.



Unintended pulp exposure.

Healthy dentin retained. Caries endpoint verified with explorer.

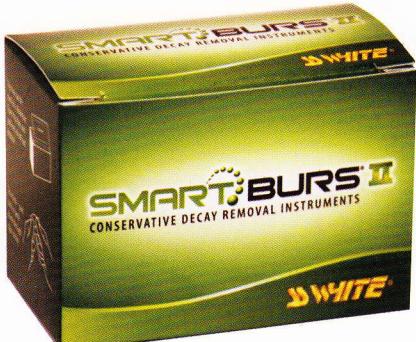


Note: Any residual light-pink stained dentin from use of a caries dye should be evaluated with an explorer to assess the need for removal.

"Smartburs® II provides a conservative endpoint during excavation of infected carious dentin. Underlying and potentially protective caries affected dentin is thus preserved. Smartburs® II relies on dentin hardness to provide a scientifically-based endpoint, and not staining, which can be variable or absent, and not a true indicator of remaining carious dentin."

Why you and your patients will appreciate SMARTBURS® II Instruments for caries removal:

- ✓ offer a conservative treatment option to patients
- ✓ maximize patient comfort during and after treatment
- ✓ increase patient satisfaction with treatment outcomes
- ✓ better treatment outcomes foster patient referrals



Product Information

SMARTBURS® II Instruments are made for use at standard slow handpiece speeds of 5,000 to 10,000 rpm, with even longer service life gained when used at speeds at the lower end of this range.

SMARTBURS® II Instruments are available in sizes #4, #6 and #8 round bur for right angle latch handpieces, and are packaged in individual 10 packs as well as a 25 instrument combination pack (5 each of #4; 10 each of #6 & #8).

SS White SMARTBURS® II Instruments may be ordered by using the following order numbers:

SS WHITE®

SMARTBURS® II Instrument Size	Order Number	
RA #4 (10 pack)	#52000	
RA #6 (10 pack)	#52001	
RA #8 (10 pack)	#52002	
SMARTBURS® II Combo (25 pack) (5 each of RA #4; 10 each of RA #6, RA #8)	#52003	



CONSERVATIVE DECAY REMOVAL INSTRUMENTS

IMPORTANT INSTRUCTIONS FOR USE

Before Use of SS White Smartburs® II Instruments

Please remember that the SS White Smartburs® II Instrument is especially designed to remove only decayed material **after you have created access using another instrument.**

The patented² SS White Smartburs® II Instrument is designed not to cut or remove enamel, composite, amalgam or healthy dentin. The instrument dulls when it comes in contact with these harder substances. As a result it is designed to conserve healthy tooth structure, and protect against unintentional pulp exposures.

Important Steps when using Smartburs® II Instruments

- 1) Create direct access to decay using appropriate carbide burs; then switch to a SS White Smartburs® II Instrument to excavate carious dentin. Depending on the Class of cavity presented, enamel access can be made using SS White Fissurotomy® burs, air abrasion systems, or other carbide bur shapes appropriate to the location and shape of the carious lesion.
- 2) Use your SS White Smartburs® II Instrument with your existing slow-speed handpiece. Use your slow-speed handpiece at 5,000 to 10,000 RPM to remove decayed dentin. **Note:** Using the Smartburs® II at the lower end of this range (5,000) will extend the service life of the instrument.
- 3) Begin decay removal with a circular, light brush stroke. Start in the center and top of the carious lesion, working your way to the periphery. Return to the center and proceed down into the decay after top layers are removed, taking care to reduce contact with the axial walls.
- 4) When the SS White Smartburs® II Instrument contacts healthy dentin, you will tactiley sense a vibration, as the instrument is unable to cut healthy tissue. **Note:** Prolonged contact with enamel or restorations will rapidly degrade the SS White Smartburs® II Instrument's working end.
- 5) After repeated contact with healthy tissue, the polymer edges of the SS White Smartburs® II Instrument will roll and become deformed. You will feel tactile smoothness when the instrument is spent.
- 6) Verify caries removal with an explorer and/or caries dye*. If needed, use a fresh SS White Smartburs® II Instrument to remove any remaining decay and verify caries removal again.

- 7) When decay is completely removed, fill the cavity with a restorative of your choice. Dispose of the used SS White Smartburs® II Instrument.

ASSESSING CARIES REMOVAL

Natural dentin staining within a carious lesion (tan, brown, black) may be healthy or caries affected dentin that does not need to be removed. Using your explorer in dentin is a generally accepted method to verify caries removal.

*Caries dyes may be useful in assessing dentin decay removal. In general, brightly red stained dentin is highly softened and highly infected, and indicated for removal. Lighter pink staining dentin may be affected or healthy tissue and should be inspected with an explorer to assess the need for removal.

When working in deep carious lesions it is often difficult to detect the amount of remaining healthy dentin adjacent to the pulp and the risk of pulp exposure becomes a concern. SS White Smartburs® II can help you protect against unintentional pulp exposure.

Conventional carbide burs or diamond instruments may:

- Risk injury to healthy dentin
- Risk pulp exposure
- Traumatize dentinal tubules, producing post-operative sensitivity

SMARTBURS® II Instruments are designed to:

- Conserve healthy dentin
- Guard against pulp exposure
- Reduce post-operative sensitivity

Item# 64707



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SS WHITE®

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