Introducing Icon®
The revolutionary treatment for incipient caries and white spots...without drilling!
The challenge:
Treat caries while preserving healthy tooth structure

Until now, dental professionals have had only two choices in the treatment of caries: use fluoride and other treatments to remineralize enamel in the very early stages – or “wait and see” until it’s time to “drill and fill.”

Icon represents an entirely new, revolutionary approach to treatment of incipient caries – a caries infiltrant. This breakthrough micro-invasive technology fills and reinforces demineralized enamel without drilling or anesthesia.

Problem: Incipient Caries

Why previous treatments fall short:

- **Fluoride therapy** – not always effective in the advanced stages
- **Filling** – almost always sacrifices significant amounts of healthy tooth structure
First indications of incipient caries:
Why a “wait and see” approach can lead to problems

Caries indication:

- Incipient caries causes mineral loss under a pseudo-intact surface layer
- The demineralization can affect a pore volume of 30% or more in the lesion body
- Cariogenic acids diffuse through these pores and dissolve minerals from the enamel

Clinical image of an incipient caries lesion

Pore system of an incipient caries lesion.
No more “wait and see”... treat incipient caries upon discovery!

- Icon provides an innovative, never-before-seen option for treatment of smooth surface and proximal carious lesions.
- Instead of taking a “wait and see” approach, Icon can arrest the progress of early enamel lesions up to the first third of dentin – in one simple procedure, without unnecessary loss of healthy tooth structure!

Cariogenic acids demineralize the enamel.

Icon blocks the diffusion paths.

Cosmetically remove white spot lesions in just one visit!

- Icon offers a revolutionary approach to the cosmetic treatment of carious white spot lesions.
- Lesions infiltrated by Icon take on the appearance of the surrounding healthy enamel. This provides a highly esthetic alternative to micro-abrasion and restorative treatments of cariogenic white spots – all in one simple treatment, with no drilling!
Fast, simple treatment in one visit… with no drilling!

**Proximal Procedure**

1. The affected teeth are slightly separated with dental wedges.
2. The surface area of the lesion is eroded with a 15% HCl gel. This opens the pore system of the lesion body.
3. The pore system is then dried with ethanol.
4. Icon is then applied onto the lesion body with the application aid. The extremely high penetration coefficient of the Icon resin enables it to penetrate into the lesion pores.
5. Excess material is then removed and the material is light cured.

**Smooth Surface Procedure**

1. The affected teeth are slightly separated with dental wedges.
2. The surface area of the lesion is eroded with a 15% HCl gel. This opens the pore system of the lesion body.
3. The pore system is then dried with ethanol.
4. Icon is then applied onto the lesion body with the application aid. The extremely high penetration coefficient of the Icon resin enables it to penetrate into the lesion pores.
5. Excess material is then removed and the material is light cured.

**Icon application procedure:**

For proximal lesions, the affected teeth are slightly separated with dental wedges.

The surface area of the lesion is eroded with a 15% HCl gel. This opens the pore system of the lesion body.

The pore system is then dried with ethanol.

Icon is then applied onto the lesion body with the application aid. The extremely high penetration coefficient of the Icon resin enables it to penetrate into the lesion pores.

Excess material is then removed and the material is light cured.

Total treatment time per lesion: **about 15 minutes!**
Icon... Beneficial to your patients and your practice

- Enables immediate treatment of lesions not yet advanced enough for restoration; ends “wait and see” approach
- Arrests caries progress without unnecessary loss of healthy tooth structure
- Cosmetic treatment of cariogenic white spots in one patient visit
- No drilling or anesthesia required, for greater patient comfort
- Patients with poor compliance can be treated earlier
- Prolonged life expectancy of tooth
- Not just minimally invasive dentistry... micro-invasive!

The first treatment to bridge the gap between prevention and restoration...
Icon technology
– the focus of numerous international studies

The breakthrough caries infiltration technology utilized in Icon is the subject of these international studies:

**Longterm color stability of infiltrated lesions – in vivo**
Duarte, S., Phark, JH. principal investigator, Department of Comprehensive Care, Dental School, Case Western Reserve University, Cleveland, OH, USA

**Radiographic comparison of lesion progression after infiltration and standard therapy – in vivo**
- Peters, MC. principal investigator, Department of Cariology, Restorative Dentistry and Endodontics, Department of Operative Dentistry, School of Dentistry, University of Michigan, Ann Arbor, MI, USA
- Department of Conservative Dentistry and Periodontology, Marcinikowsky University of Medical Sciences, Poznan, Poland

**Radiographic comparison of lesion progression after infiltration and standard therapy in children at high caries risk – in vivo**
- Ekstrand, KR. principal investigator, Department of Operative Dentistry, Københavns Universitet, Tandlægeskolen, Copenhagen, Denmark

**Color stability of infiltrated lesions – in vitro**
- Luebbers, D. principal investigator, c/o DMG Dental Material Gesellschaft mbH, Elbgaustr. 248, 22547 Hamburg, Germany

**Development of the infiltration technique**
- Meyer-Lückel, H et. al, principal investigator, Department of Operative Dentistry and Periodontology, Charité – University Medicine Berlin, Germany & Department of Operative Dentistry and Periodontology, Christian-Albrechts-University Kiel, Germany

**Lesion progression of sealed and infiltrated caries lesions – in situ**
- Paris S., Meyer-Lückel, H. principal investigator, Department of Operative Dentistry and Periodontology, Christian-Albrechts-University Kiel, Germany

**Radiographic comparison of lesion progression after infiltration and standard therapy – in vivo**
- Meyer-Lückel, H., Paris, S. principal investigator, Department of Operative Dentistry and Periodontology, Christian-Albrechts-University Kiel, Germany

**Influence of the humidity on the infiltration process – in vitro**
- Schneider, H. principal investigator, Department of Conservative Dentistry and Periodontology, University of Leipzig, Germany

**In vitro – Toothbrush wear resistance**
- Lohbauer, U. principal investigator, Dental clinic 1 – Conservative Dentistry and Periodontology, University hospital Erlangen, Germany

**Evaluation of penetration depths of an infiltrant into primary molars after various application times – in vivo**
- Mendes Soviero, V. principal investigator, Faculdade de Odontologia, Centro Biomédico, Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Brasil

**Validity and reproducibility of novel device for bitewing diagnostics**
- Mendes Soviero, V. principal investigator, Faculdade de Odontologia, Centro Biomédico, Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Brasil

**Radiographic comparison of lesion progression after infiltration, sealing and intensified oral hygiene in a high caries risk population – in vivo**
- Martignon, S. principal investigator, Caries Research Unit UNICA, Dental Faculty, University El Bosque, Bogotá, Colombia

For complete details on all caries infiltration studies currently in progress, please visit www.drilling-no-thanks.com
Ordering Information

**Icon Smooth Surface**
Each Patient Pack treats 2-3 lesions.
Includes: 1-0.30ml Syringe Icon-Etch, 1-0.45ml Syringe Icon-Dry, 1-0.45ml Syringe Icon-Infiltrant, 6 Smooth Surface Tips

Mini-Kit – 2 Patient Packs ................. 220402
Cube – 7 Patient Packs ..................... 220403

**Icon Proximal**
Each Patient Pack treats 2 lesions.
Includes: 1-0.30ml Syringe Icon-Etch, 1-0.45ml Syringe Icon-Dry, 1-0.45ml Syringe Icon-Infiltrant, 6 Proximal Tips, 4 Dental Wedges

Mini-Kit – 2 Patient Packs ................. 220400
Cube – 7 Patient Packs ..................... 220401

For more information, call us at 800.662.6383. To find out more about all of our innovative dental products, visit our website at www.dmg-america.com

242 South Dean Street, Englewood, NJ 07631
P: 800-662-6383 • 201-894-5505
F: 201-894-0213 • www.dmg-america.com