GC America’s Preventive Line of Products

THE MI FAMILY
**Simple, Yet Effective**

Minimum Intervention (MI) Dentistry is the modern medical approach to the management of oral disease.

MI features three guiding principles:

- Identify and assess any potential risk factors early
- Prevent disease by minimizing or eliminating those risk factors
- Restore the tooth and protect against further damage through the use of bioactive materials

These principles stand in direct contrast to the traditional “drill and fill” surgical method, which treats the results of disease.
"RECALDENT™ (CPP-ACP) technology has transformed my practice!

I use MI Varnish™ and MI Paste™ because RECALDENT™ (CPP-ACP) technology offers a natural and unique system for releasing bioavailable calcium, phosphate and fluoride into the saliva. MI Varnish™ and MI Paste™ are an essential part of my practice."

- Dr. Pamela Maragliano-Muniz

- Over 140 publications, including 45 clinical and in situ trials on RECALDENT™ (CPP-ACP) technology.


RECALDENT™ technology has been extensively researched by staff at the University of Melbourne Dental School since the 1980s. Below is a listing of some of the scientific publications validating this technology:

Choose MI Paste™ and MI Paste Plus™

MI Paste, MI Paste Plus and MI Varnish are the only products for professional use containing the active ingredient RECALDENT™ (CPP-ACP).

MI Paste is a water-based, sugar-free créme that is applied directly to the tooth surface or oral cavity. MI Paste with RECALDENT™ (CPP-ACP) releases vital minerals, as well as soothes sensitive teeth. MI Paste and MI Paste Plus are available in five delicious flavors – Strawberry, Mint, Melon, Tutti-Frutti and Vanilla.

**MI Paste Plus contains 900ppm fluoride (almost the same amount as regular fluoride toothpaste). MI Paste does not contain fluoride.**

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**Calcium, Phosphate and Fluoride**

The first step in designing a Minimum Intervention treatment program is identifying dental caries as a disease. Dental caries requires a susceptible host and cariogenic plaque bacteria sustained by a high-sugar diet. The bacteria ferments the sugars, producing acid, which lowers the neutral pH of the oral environment and attacks the enamel. This leaches out calcium and phosphate ions, causing demineralization that leads to destruction of the enamel subsurface and the start of dental caries, often seen as white spots.

Demineralization can result from:

- Excessive acid-producing plaque bacteria
- Bad dietary habits such as excessive consumption of fermentable carbohydrates, sodas and sports drinks
- Xerostomia or conditions leading to reduced salivary flow

The Science Behind MI Paste™ and MI Paste Plus™

What is RECALDENT™ (CPP-ACP)?
RECALDENT™ (CPP-ACP) contains Casein Phosphopeptides (CPP) and Amorphous Calcium Phosphate (ACP). Casein Phosphopeptides (CPP) are peptides derived from the milk protein casein that are complexed with calcium (Ca) and phosphate (PO₄). In this complex, the CPP maintains/stabilizes the Ca and PO₄ in an amorphous form (ACP) without precipitation.

How Does it Work?
RECALDENT™ (CPP-ACP) utilizes CPP peptides derived from the milk protein casein to maintain Ca and PO₄ in an amorphous form (ACP). CPP will bind to surfaces such as plaque, bacteria, soft tissue and dentin, providing a reservoir of bioavailable Ca and PO₄ in the saliva and at the surface of the tooth. The Amorphous Calcium Phosphate (ACP) is released from the CPP complex during oral acidic challenges. Stabilization of ACP by CPP ensures the delivery of Ca and PO₄ ions into tooth structure before they precipitate/crystallize.
“MI Varnish has the greatest acceptance rate of any product I have ever used. Patients love that it is not gummy, runny or leaves them with a bad taste in their mouth.”
- Noel Brandon Kelsch, RDHAP
Choose MI Varnish™

There are many different fluoride varnishes on the market and it can be difficult to choose, for MI Varnish, the difference is in the RECALDENT™ (CPP-ACP), which makes MI Varnish a natural and unique choice for your patients. Casein phosphopeptides (CPP) naturally occur in milk. In the oral cavity, CPP binds to surfaces such as teeth, dentin, oral mucosa and biofilm. Calcium and phosphate ions are the building blocks for healthy teeth, and MI Varnish delivers bioavailable calcium and phosphate ions into the saliva.

Amorphous Calcium Phosphate (ACP), is the source of calcium and phosphate. MI Varnish is the choice fluoride treatment when compared to other varnishes (FIG 1).

MI Varnish with RECALDENT™ (CPP-ACP) enhances enamel acid resistance and boosts salivary fluoride levels. MI Varnish remains on the teeth longer than other fluoride varnishes with higher levels of fluoride and calcium released in the oral cavity (FIG 2).

Who Should Use MI Varnish™?

MI Varnish is ideal for all your at-risk patients. Fluoride is an important component and MI Varnish with RECALDENT™ (CPP-ACP) helps to make fluoride more bioavailable to gain that extra boost of protection from the calcium and phosphate.

Your Patients Will LOVE MI Varnish™

- Patient friendly “fresh” Strawberry and Mint flavors
- Smooth, creamy texture upon application
- No color change when applied to the tooth
- Film thickness comfortable to patient, even with multiple applications
- Is not tacky or sticky when applied

Fig. 1 • Source: GCC R&D
Benefits of MI Varnish™

• Higher fluoride, calcium and phosphate ions released due to the RECALDENT™ (CPP-ACP) technology (FIG 2)
• Reduces sensitivity by sealing and penetrating dentinal tubules effectively blocking out external stimuli
• Flows easily into interproximal areas due to its low viscosity
• Non-clumping, white, natural translucent shade
• Excellent retention – stays on longer than the leading varnishes
• Unique unit dose, easy to open, easy to access varnish
• Generous volume per unit dose; enough for a full adult dentition
• Does not immediately clump upon exposure to saliva, allowing ease of use and longer working time
• Greater fluoride contact time and increased calcium and phosphate bioavailability than gels, foams and other varnishes
• Stands out on tray, easy to identify - brightly colored unit dose
“MI Varnish flows very nice, not too thick and not too watery. It sticks to the brush very well and does not drip from the brush as you take it from container to tooth. As to the color of the MI Varnish, patients loved it, moms could not see it, kids not bothered by color.”

- Lance Kisby, DMD – Chief of Pediatric Dentistry, Program Director, Geisinger Medical Center
When choosing a fluoride varnish, efficacy is critical, however, patient satisfaction is also very important when it comes to flavor and color. A fluoride varnish is applied on the tooth surface and your patients do not want to leave the office with a yellow-ish brown tint on their teeth.

The color of the fluoride varnish should blend in easily on the tooth when applied. A white, natural coloring increases the acceptance of the fluoride varnish treatment and opens the door for additional treatments in the future.

A fluoride varnish should be clinically transparent on the teeth. Comparison of the leading fluoride varnishes upon opening demonstrates the importance of color and a patient friendly reaction.

**MI Varnish**

Your patients will love MI Varnish. MI Varnish flows easily. Its appealing white translucent shade *does not immediately clump* upon exposure to saliva allowing ease of use and longer working time. MI Varnish is clear when applied and flows easily into interproximal areas, due to its viscosity.
GC Fuji TRIAGE®

GC Fuji TRIAGE is not a typical radiopaque glass ionomer. It was designed to prevent fissure caries from developing in newly erupted molars during the first year. It is a high-fluoride-releasing glass ionomer with a free-flowing consistency to ensure effective wetting and intimate adhesion to tooth surfaces. This is especially important during the eruption phase when the occlusal surfaces of permanent molars are at most risk for decay.

- Releases six times more fluoride than other glass ionomers1, 2
- GC Fuji TRIAGE can be “recharged” by the routine use of toothpastes and fluoride treatments3
- Creates a strong, acid-resistant layer
- Calcium and phosphate ions help to strengthen the tooth
- Moisture tolerant bonding - requires no etching
- Excellent for endodontic access sealing
- Low viscosity - flows easily into small crevices
- Pink or white shade - easy identification

**Fluoride Release That Lasts**

With its strong ionic bond and exceptional fluoride release (more than six times that of any other glass ionomer or resin1, 2), GC Fuji TRIAGE creates a fused layer that is acid-resistant and continues to offer protection to the occlusal surface even when it appears to have worn away.

3 Data provided by the GCC Research Group.
Saliva is the body’s natural oral defense system. It protects teeth and soft tissues, flushes bacteria and food away from the teeth. Its buffering ability helps neutralize acids to restore normal pH levels and it replenishes the calcium, phosphate and fluoride ions that protect the enamel.

The buffering capabilities of healthy saliva are necessary for oral health, and saliva delivers calcium and phosphate to the teeth. If the saliva is compromised, it loses its buffering capacity, and the oral environment shifts to one favoring oral disease.
FREQUENTLY ASKED QUESTIONS

How fast does MI Paste/MI Paste Plus work?
The speed of their effectiveness depends on each individual’s situation and specific clinical usage. For example, in a simple after-whitening procedure, relief should be possible within two minutes after application.

Can MI Paste/MI Paste Plus be used as a toothpaste substitute?
No. MI Paste/MI Paste Plus should be used in addition to regular brushing with toothpaste.

Is MI Paste/MI Paste Plus safe for people with lactose intolerance and milk allergies?
The active ingredient, RECALDENT™ (CPP-ACP), is a milk-derived protein and should not be used by anyone with milk protein allergies. MI Paste/MI Paste Plus have a lactose content less than 0.01%.

Is MI Varnish gluten free?
Yes, MI Varnish is gluten free.

Are Fluoride Varnishes suitable for pre-school children?
Fluoride Varnish is the only in-office topical fluoride recommended for pre-school children.^

Can MI Varnish be used on patients with crowns and veneers?
MI Varnish can be applied to the margin area of the crown or veneers.

Is prophylaxis (cleaning) required before the application of MI Varnish?
MI Varnish does not require a prophylaxis treatment before application.

^Policy from the AAPD: http://www.aapd.org/media/Policies_Guidelines/P_FluorideUse.pdf
THE COMPLETE PREVENTIVE SYSTEM

IN OFFICE

AT HOME
### MI Paste™
Contains: 10 tubes (40g each)
- 004505 Strawberry
- 003679 Mint
- 002265 Assorted (2 each: Vanilla, Strawberry, Mint, Melon and Tutti-Frutti)

### MI Paste Plus™
Contains: 10 tubes (40g each)
- 002888 Vanilla
- 002886 Strawberry
- 002621 Mint
- 002614 Assorted (2 each: Vanilla, Strawberry, Mint, Melon and Tutti-Frutti)

### MI Varnish™
Contains: 50 MI Varnish Unit-Doses (0.55g each) and 50 disposable applicators
- 004274 Fresh Strawberry
- 005265 Fresh Mint

### GC Dry Mouth Gel™
Contains: 10 tubes (40g each), 2 tubes each: Fruit Salad, Lemon, Mint, Orange, and Raspberry
- 002526

### GC Tri Plaque ID Gel™
Contains: 1 GC Tri Plaque ID Gel Tube (40g)
- 004273

### GC Fuji TRIAGE® Starter Package
Contains: 50 Capsules (powder 0.30g, liquid 0.15g/0.12 mL per capsule), 1 GC Capsule Applier, 1 GC CAVITY CONDITIONER and 1 GC Fuji COAT™ LC
- 439991 White
- 439990 Pink

### GC Fuji TRIAGE® 50 Capsule Refill
Contains: 50 Capsules (powder 0.30g, liquid 0.15g/0.12 mL per capsule)
- 001946 Pink
- 002269 White

### Saliva-Check MUTANS
Contains: 10 Test Kits
- 004504 (1 Mutans Testing Device, 1 Paraffin Gum, 1 Pipette, 1 Mixing Container, 1 2mL Bottle of Reagent #1, 1 4mL Bottle of Reagent #2)

### Saliva-Check BUFFER
Contains:
- 900200 20 In Vitro Strips pH 5.0-8.0, 20 Saliva Collection Cups, 20 Wax Gum Pieces for Saliva Stimulation, 20 Saliva Dispensing Pipettes, and 20 Buffer Test Strips