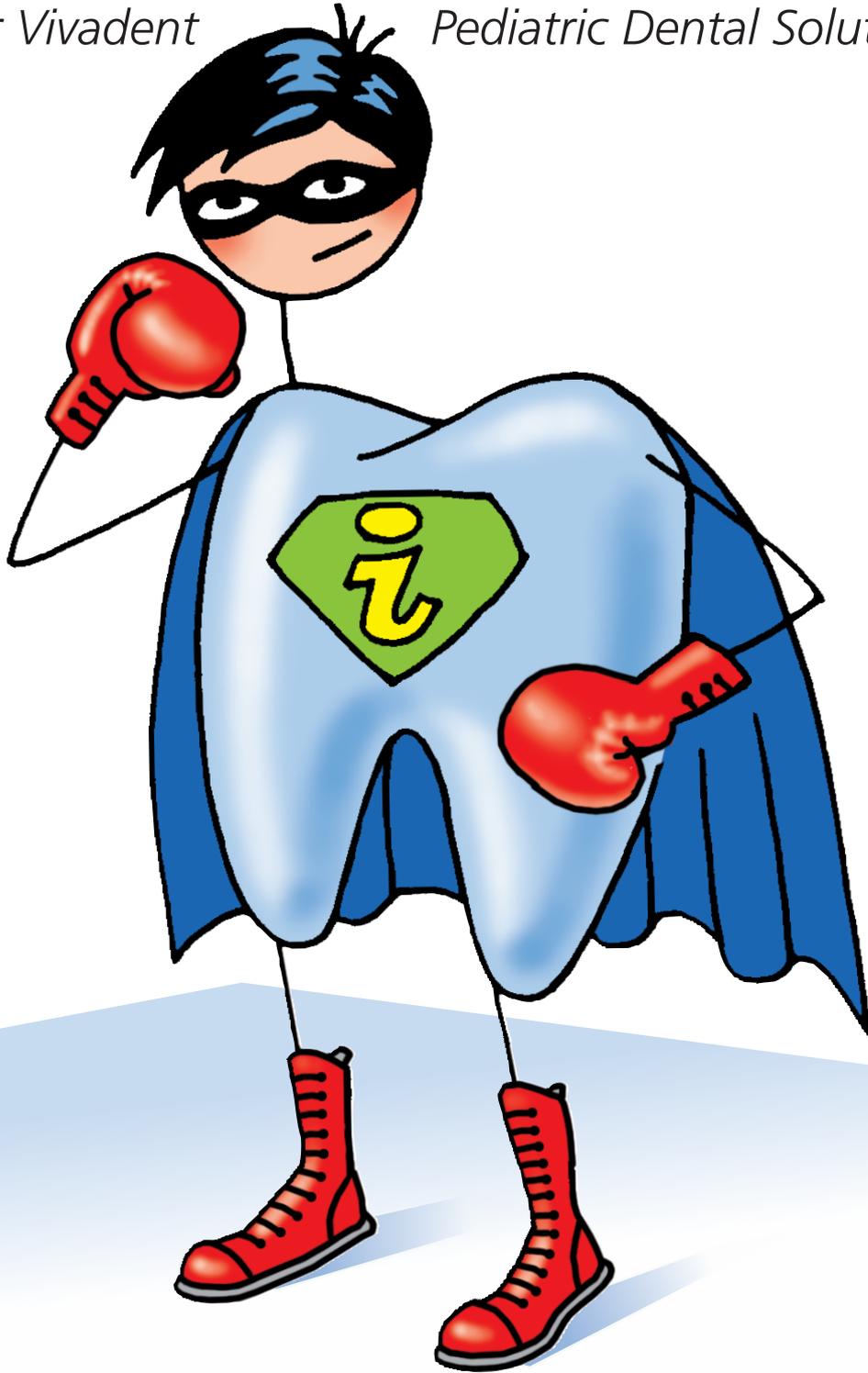


i-Kids[®]



Ivoclar Vivadent

Pediatric Dental Solutions



ivoclar
vivadent[®]
passion vision innovation

Ivoclar Vivadent

i-Kids® | Pediatric Dental Solutions



Healthy teeth, healthy gums and a healthy mouth are very important for the overall health of a child and thus for their personal development.

A system of professional solutions

Life-long, beautiful teeth and healthy gums. This is your goal as a dentist and practice team. This is the wish of parents. Healthy teeth should stay healthy and restored teeth should receive the care they need.

That is why you need professional solutions to offer children and adolescents of different ages customized oral health management.

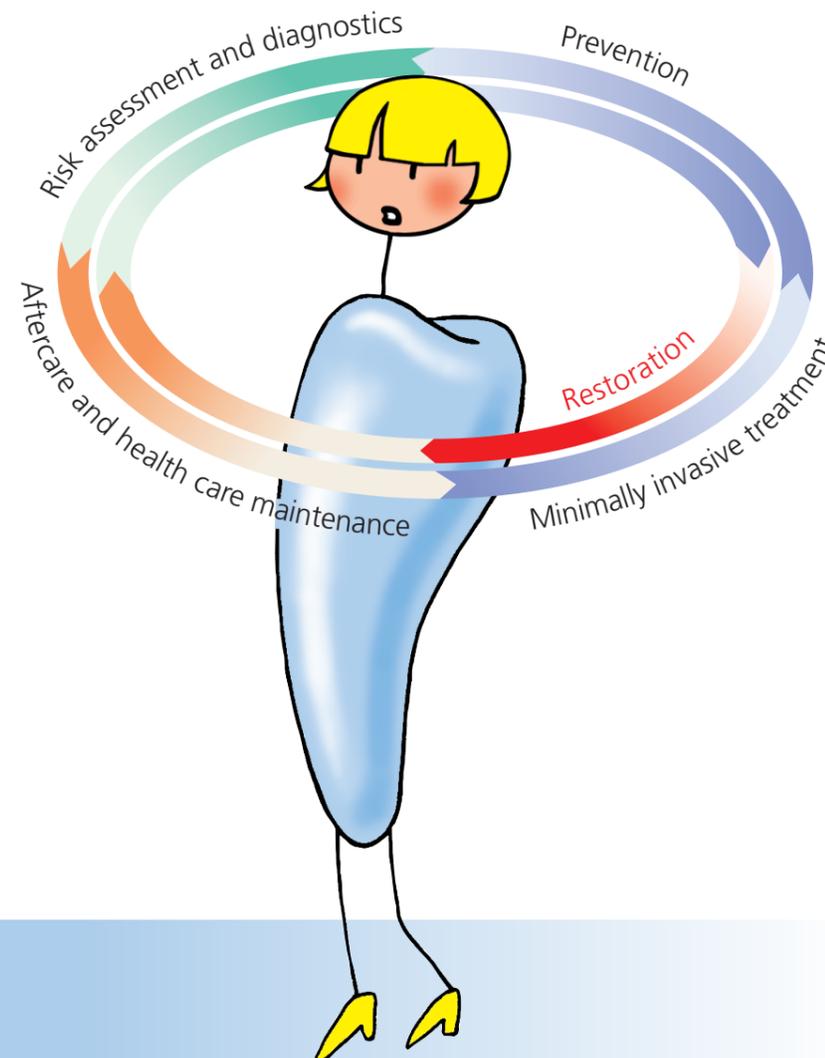
i-Kids® program

The special program offers quality products and services which allow you to treat children and adolescents successfully, efficiently and effectively.

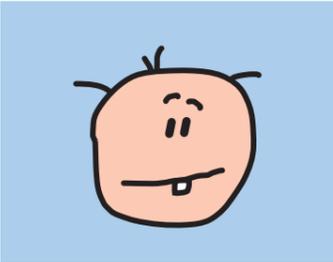
A coordinated product range composed of strong individual products enables you to offer individualized oral health management. The i-Kids range comprises products for prevention, minimally invasive treatment, restoration and dental health care.

These products help you to maintain all teeth, be they natural or restored, in good condition. All the products have shown their effectiveness in international studies and in clinical use. The products meet the specific requirements for the treatment of children and adolescents.

i-Kids® from Ivoclar Vivadent helps you to make every dental visit a positive experience.



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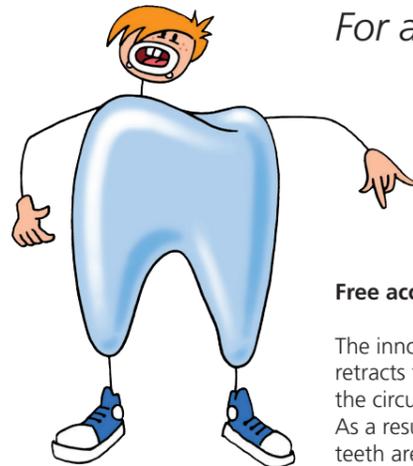


Consultation in the practice



OptraGate® Junior

For a full view



Children must be treated as quickly as possible. Nevertheless, the demands on the quality of the treatment are high. The treatment can be carried out more efficiently if the working field is easily accessible. It also

Free access to the treatment field

The innovative OptraGate® Junior retracts the lips and cheeks around the circumference of the mouth. As a result, the oral cavity and the teeth are easy to reach, which speeds up the treatment procedures.

Comfortable for young patients

The latex-free auxiliary aid is flexible in all directions and therefore allows unimpeded movement of the jaw. Keeping the mouth open, even during long treatment sessions, is easy with OptraGate Junior in place. OptraGate Junior is designed to fulfil the special needs of children. Soft pads and recesses for the frenulum of the upper lip help to make the lip and cheek retractor comfortable to wear. The colour variations of pink and blue increase the motivation and compliance of children during the treatment.



Special tip

- ▶ With OptraGate Junior in place the fluoride varnish Fluor Protector S can be applied with even more efficiency.

Benefits for the practice team

- ▶ Improved access to the treatment field
- ▶ Efficient treatment
- ▶ Broad range of applications

Benefits for young patients

- ▶ Latex-free
- ▶ Comfortable retraction of the lips and cheeks
- ▶ Fast treatment

Practical evidence

- ▶ OptraGate Junior eases the treatment for both the patient and the dental team. It is an efficient auxiliary aid in pediatric dentistry (Huseinbegovic et al. 2007).



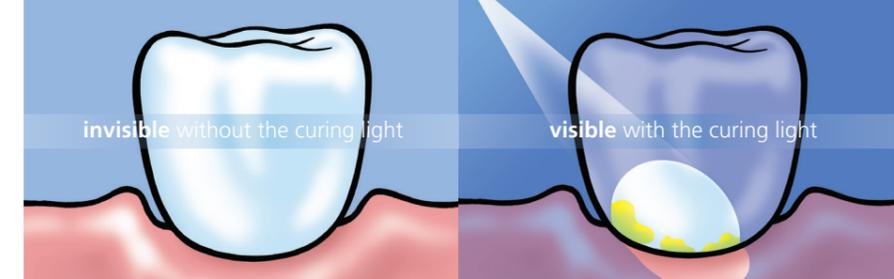
OptraGate® Junior – The comfortable lip and cheek retractor

Advantages	Benefits
Retracts lips and cheeks	Free access to the treatment field; efficient treatment
Three-dimensional flexibility	Assists in keeping the mouth open
Recesses for the frenulum of the lips	Comfortable to wear for children

increases safety. For this purpose, an auxiliary aid that retracts the lips and cheeks, but is also comfortable for young patients to wear, is desirable.

Plaque Test

Makes biofilm visible



Bacterial biofilm promotes the development of caries and periodontal diseases. The risk can be selectively minimized by using assessment and education measures that are suitable for children. The methods of choice are those that make the topic of oral health care



Plaque Test is fluorescent under curing lights e.g. Bluephase®. Picture courtesy of Dr N. Bartling, Switzerland

exciting and provide sound information for establishing a reliable diagnosis.

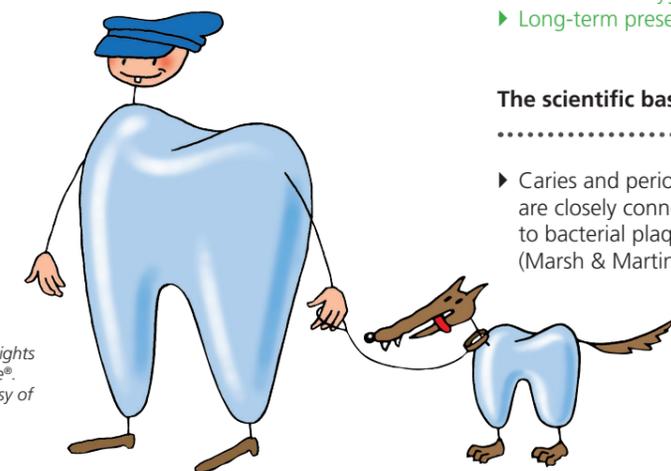


Making plaque visible. By making plaque visible, you can show your young patients where the problem is and advise them accordingly.

Problem areas

Children and adolescents require instruction and guidance in carrying out oral health care measures. Parents need help in identifying problem areas. Bacterial biofilm accumulates in areas that are difficult to clean. This problem is not easy to detect for the untrained eye. Nevertheless, it represents a threat to the teeth and gums. Maintaining good oral hygiene is particularly challenging during orthodontic treatment, because orthodontic appliances provide additional retention niches.

Parents and children who have been well informed by their dental professionals will be able to keep their teeth and gums healthy.



Plaque Test – Fluorescent disclosing liquid

Advantages	Benefits
Fluorescent under all curing lights	Easily integrated into daily routines
Clear examination results of the problem areas	Targeted patient education
Only biofilm glows	Clear examination of the situation

Special tip

- ▶ Plaque can be selectively and gently removed with Proxyl® prophylaxis pastes.

Benefits for the practice team

- ▶ Immediate visibility of the problem areas
- ▶ Easy to explain
- ▶ Individualized recall intervals

Benefits for young patients

- ▶ Interesting learning experience
- ▶ Motivational hygiene measure
- ▶ Long-term preservation of teeth

The scientific basis

- ▶ Caries and periodontal disease are closely connected to bacterial plaque (Marsh & Martin 2003).

Proxyt®

Removal of bacterial biofilm



OptraGate® Junior simplifies professional tooth cleaning.



Systematic professional cleaning and polishing of teeth and restorations is essential in the prevention of caries and periodontal disease. Regular professional tooth cleaning and dental hygiene measures play an important part during orthodontic treatment. Parents recognize the benefits of professional tooth cleaning as a supplement to at-home measures.

Gentle removal of plaque

Proxyt® prophylaxis pastes clean teeth effectively and gently. Unnecessary wear of tooth structure or roughening of restoration surfaces is avoided with Proxyt, as it is available in three different abrasion values.

with fluoride Proxyt fine



Proxyt medium



Proxyt coarse



fluoride-free Proxyt medium



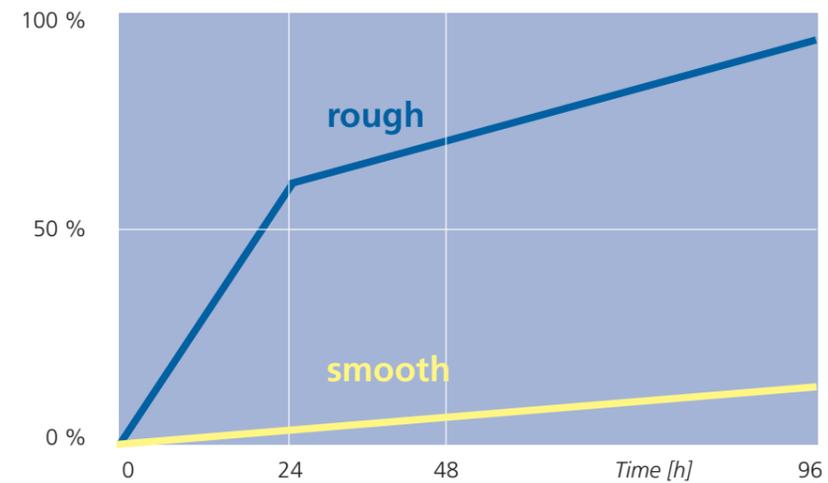
Professional tooth cleaning with Proxyt®



Smooth polish

Polishing with the fine Proxyt paste produces a shiny and smooth natural-looking surface. Children and adolescents learn to appreciate the good feeling of clean teeth at an early stage.

Tooth surfaces covered with plaque [%]



Smooth tooth surfaces limit the growth of plaque (Quirynen et al. 1988).

Special tip

- ▶ The fine Proxyt paste, which does not contain pumice, allows you to treat sensitive tooth surfaces as gently as possible.

Benefits for the practice team

- ▶ Established method
- ▶ Painless treatment
- ▶ Regular recalls

Benefits for young patients

- ▶ Perceptibly clean, smooth teeth
- ▶ Painless treatment
- ▶ Long-term beautiful teeth

The scientific basis

- ▶ Professional tooth cleaning plays a significant role in the effective prevention of caries and periodontal disease in children and adolescents (Axelsson 2006).

Proxyt® – The prophylaxis pastes

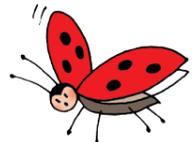
Advantages	Benefits
Defined RDA values	Needs-oriented cleaning and polishing
Xylitol	Interruption of the bacterial metabolism
High cleaning power	Perceptibly clean, smooth teeth

Fluor Protector

Improved protection against caries and erosion



In order to stay healthy, teeth need to be supplied with small amounts of fluoride throughout their lifetime. The administration of fluoride through brushing with toothpaste must often be supplemented. Different dental organizations recommend the professional application of a fluoride varnish.



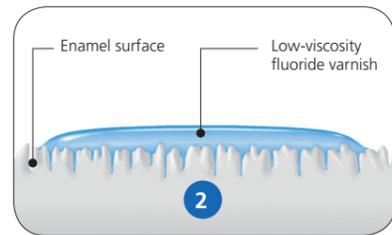
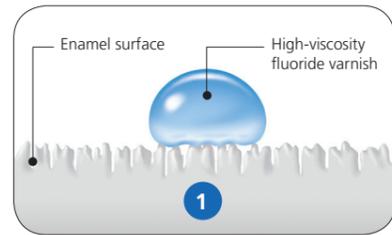
Comprehensive protection

The fluoride varnishes Fluor Protector and Fluor Protector S offer professional protection against:

- ▶ hypersensitive teeth
- ▶ caries
- ▶ dental erosion

Protection of at-risk areas

The low viscosity of Fluor Protector and Fluor Protector S ensures good flow and wetting properties. The varnishes spread easily and they readily flow into complex surface structures.



1 A high-viscosity fluoride varnish sits on the surface.

2 The low-viscosity fluoride varnish Fluor Protector S spreads easily and penetrates into porous surfaces.

For many different age groups

Fluor Protector and Fluor Protector S are suitable for treating children and adolescents. Given their low fluoride content, they are even suitable for treating pre-schoolers. The varnishes have been practically tested under field conditions.

For individual needs

Fluor Protector and Fluor Protector S differ in their composition, fluoride concentration and delivery form. They are designed to fulfil different treatment needs.



Picture courtesy of Dr B. Monse, Philippines

Fluor Protector – The fluoride varnish with decades of experience

Advantages	Benefits
1,000 ppm fluoride in a homogeneous solution; fluoride source: Difluor silane	For many different age groups
Decades of experience	Clinically proven for many years
Clear, colourless	Optimum esthetics

Fluor Protector S – The fluoride varnish in a dispensing tube

Advantages	Benefits
7,700 ppm fluoride in a homogenous solution; fluoride source: Ammonium fluoride	Ready for immediate use and targeted fluoride application
Mild taste and smell	High acceptance by children
Easy application	Fast treatment

Fluor Protector Gel – The intensive care gel

Advantages	Benefits
Calcium plus 1,450 ppm fluoride plus phosphate	Comprehensive protection for teeth
Fluoride source; Potassium fluoride	
Xylitol	Interruption of the bacterial metabolism
Mild mint taste	Good feeling in the mouth

Special tip

- ▶ The disclosing agent Plaque Test makes selected problem areas clearly visible.

Benefits for the practice team

- ▶ Highly effective fluoride varnishes and intensive care gel
- ▶ The solution for individual needs
- ▶ Fast treatment

Benefits for young patients

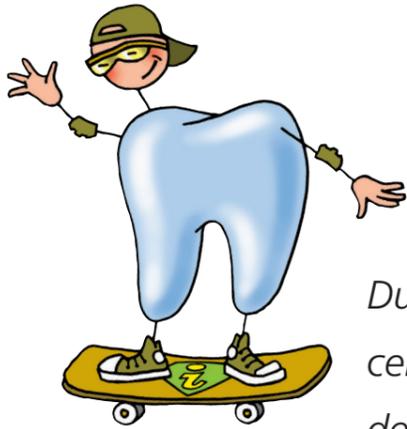
- ▶ Fast, comfortable treatment
- ▶ Clinically proven method
- ▶ Long-term beautiful teeth

The scientific basis

- ▶ Repeated application of a fluoride varnish has a positive effect on the remineralization of initial carious lesions in adolescents (Tranaeus et al. 2001).



Cervitec®



During certain development

phases the ability of children and adolescents to practice adequate dental hygiene. Carious bacteria have the opportunity to proliferate, making a targeted reduction of harmful microorganisms necessary. In addition the gingiva and mucous membrane require professional care.

Individualized protection for at-risk areas

Individualized solutions

The chlorhexidine-containing Cervitec® products offer individualized in-office and at-home solutions, in terms of the active-ingredient concentration, the delivery form and the application method:

- ▶ Cervitec F, the protective varnish
- ▶ Cervitec Gel, the oral health care gel
- ▶ Cervitec Liquid, the mouth rinse

Children and adolescents benefit from the easy application and the ingredient concentration which perfectly matches their needs.

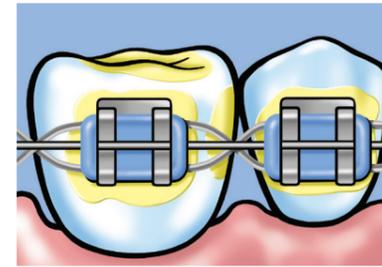
Mild taste

Another advantage: All Cervitec products distinguish themselves through a mild taste which increases the acceptance and compliance by children and adolescents.

Fast basic protection

The protective varnish Cervitec F provides fast basic protection for:

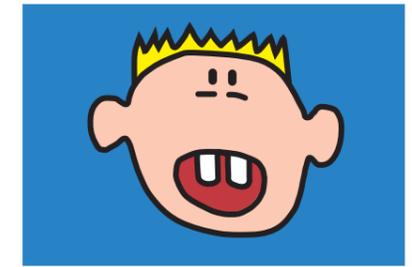
- ▶ erupting teeth
- ▶ fissures
- ▶ proximal surfaces
- ▶ areas around brackets and bands



Cervitec® F is effective where it is needed.



Protection for erupting teeth
Picture courtesy of Dr T. Repetto-Bauchhage, Ivoclar Vivadent AG, Liechtenstein



Cervitec® F – The protective varnish

Advantages	Benefits
1,400 ppm fluoride plus 0.3% chlorhexidine plus 0.5% CPC (cetylpyridinium chloride)	Only one working step: fluoridation and germ control
High moisture tolerance	Easy and fast application
Professional varnish application	Targeted protection of risk areas

Cervitec® Gel – The oral health care gel

Advantages	Benefits
0.2% chlorhexidine plus 900 ppm fluoride Fluoride source: Sodium fluoride	Combined strength
Smooth consistency	Fast dispersion on the teeth and gums
Easy application: using a tooth brush, interdental brush or directly to the gums and mucous membrane	Age-appropriate care for mouth and teeth

Cervitec® Liquid – The mouth rinse

Advantages	Benefits
Xylitol, provitamin D-panthenol plus 0.1% chlorhexidine	Care for gingiva and mucosa
Alcohol-free	Suitable for children (older than 6 years) and adolescents
Mild mint taste	High level of patient compliance

Special tip

- ▶ The at-home application of Cervitec Gel enhances the effect of professionally applied Cervitec F.

Benefits for the practice team

- ▶ Customized solutions
- ▶ Easy to integrate into the practice routine
- ▶ Clinically proven products

Benefits for young patients

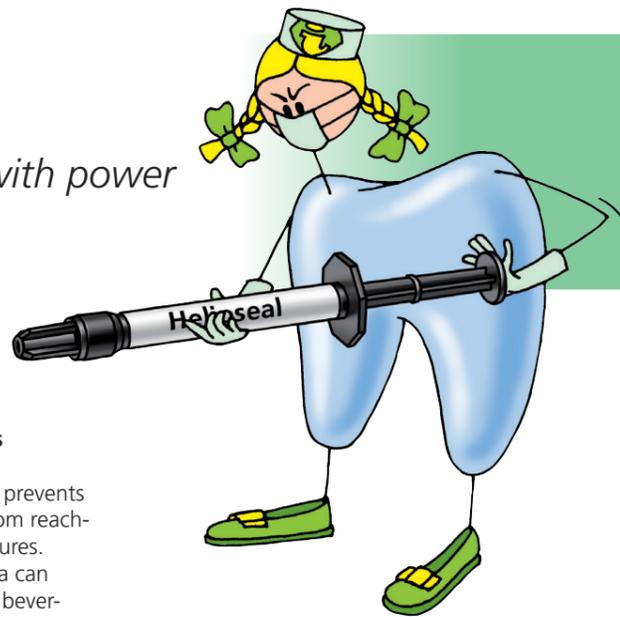
- ▶ Painless treatment
- ▶ Early risk control
- ▶ Long-term beautiful teeth

The scientific basis

- ▶ Protective varnishes containing chlorhexidine significantly reduce the mutans streptococci count in fissures in vivo (Lipták et al. 2016).

Helioseal®

Fissure sealants with power



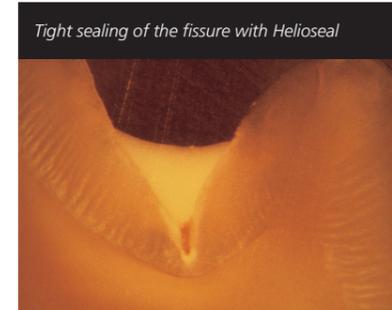
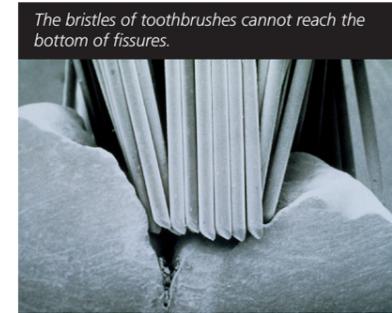
Permanent molar before and after the application of Helioseal® F Plus.

Pits and fissures are exposed to a high caries risk. Because of their complex shape, even the most thorough dental hygiene practices are very often inadequately effective in these areas. Tight sealing protects these highly susceptible surfaces.

No chance for toothbrushes

The intricate profile of fissures prevents the bristles of toothbrushes from reaching the bottom of these structures. Consequently, harmful bacteria can colonize these sites. Food and beverages provide a constant supply of carbohydrates. As a result, caries can develop unchecked.

Picture courtesy of Prof. Dr S. Zimmer, Germany



Targeted defence through sealing of fissures

Sealing with Helioseal® protects these highly susceptible tooth surfaces. Helioseal seals pits and fissures with an impenetrable coating. The sealant closes up the retention niches where bacteria live and cuts off the carbohydrate supply that sustains them. Another advantage: The smooth surfaces that are created in the process facilitate cleaning.

Sealants for highest clinical demands

Three light-curing resin-based Helioseal sealants are available to fulfil the different sealing needs. The sealants differ from one another in terms of their delivery form and their viscosity, colour and fluoride content. However, they all show the same high clinical performance.

- ▶ Helioseal – the classic sealant
- ▶ Helioseal F Plus - the efficient sealant
- ▶ Helioseal Clear – the clear sealant

Helioseal® – The proven fissure sealants

Advantages	Benefits
Clinically proven in deciduous and permanent teeth	High level of product safety
Optimum flow properties	Easy and precise application
Excellent retention	Effective protection against caries



Special tip

- ▶ The enamel areas adjacent to the sealed surfaces can be protected with the fluoride-containing varnish Fluor Protector S.

Benefits for the practice team

- ▶ Successfully used in clinical situations for many years
- ▶ Child-friendly treatment
- ▶ Effective protection against caries

Benefits for young patients

- ▶ Protection against caries
- ▶ Painless treatment
- ▶ Long-term beautiful teeth

The scientific basis

- ▶ Sealing of pits and fissures in deciduous and permanent teeth offers an effective method of preventing and arresting caries (Cvikl et al. 2018)

Helioseal	Helioseal F Plus	Helioseal Clear
Pigmented	Pigmented	Transparent, clear
Without fluoride	With fluoride	Without fluoride
Without fillers, low viscosity	With fillers, higher viscosity	Without fillers, low viscosity

Tetric EvoFlow® Bulk Fill and ...

Efficient filling materials

Time and again, small children with carious deciduous teeth present to the dental office. They need fast and uncomplicated restorative treatment.

Ideal for deciduous teeth

The fast filling

Thanks to the patented light initiator Ivocerin®, Tetric EvoFlow® Bulk Fill can now be applied in layers of up to 4 mm. Its flowable consistency simplifies the placement. Both features help streamline the treatment procedure. Tetric EvoFlow Bulk Fill is available in three universal shades (IV A, IV B, IV W). The restoration of defective deciduous teeth using Tetric EvoFlow Bulk Fill does not require an additional covering layer of a packable composite.

High caries risk

Compoglass® F combines the benefits of glass ionomers and those of composites in one material with its special composition of a polymer matrix and fillers. Compoglass F with a high fluoride release is recommended for areas where caries and secondary caries are likely to develop. The compomer is particularly suitable for restoring deciduous teeth, since it is easy and fast to mould. Compoglass F is also available in flowable form as Compoglass Flow.



Tetric EvoFlow® Bulk Fill



Compoglass® F in Cavifils



Tetric EvoCeram® Bulk Fill

Tetric EvoCeram® Bulk Fill is suitable for light children's teeth.



Ideal for permanent teeth in children

High efficiency

Tetric EvoCeram® Bulk Fill is especially suitable for permanent teeth in children. Ivocerin allows layer thicknesses of up to 4 mm to be placed also with Tetric EvoCeram Bulk Fill. The composite is easy to mould and shows a smooth consistency. Tetric EvoCeram Bulk Fill is available in the universal shades IV A, IV B, IV W. Carious lesions can therefore be restored quickly and easily.

Special tip

▶ The one-step diamond polishing system OptraPol® allows you to smooth out the surfaces of compomer or composite restorations and to polish them to a high gloss.

Benefits for the practice team

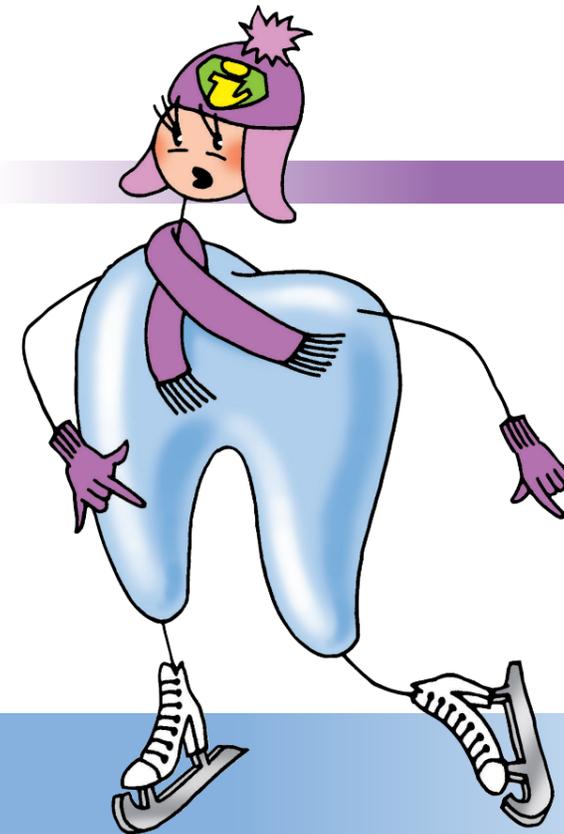
- ▶ Restoration suitable for children
- ▶ Customized solutions for individual needs
- ▶ Clinically proven

Benefits for young patients

- ▶ Fast and easy treatment
- ▶ Clinically proven products
- ▶ High quality restorations

The scientific basis

▶ Neither postoperative sensitivities nor secondary caries were recorded 24 months after the restoration of deciduous teeth with Compoglass F (Trummler 2002).



Tetric EvoCeram® Bulk Fill

Compoglass® F – The compomer

Advantages	Benefits
Smooth consistency	Easy to mould
High fluoride release	Reduced risk of secondary caries
Application with Cavifil	Easy and fast treatment

Tetric EvoCeram® Bulk Fill – The mouldable composite

Advantages	Benefits
One layer of up to 4 mm	Efficient placing of fillings
Smooth consistency	Optimum adaptation
Bright colour IV W	Ideal for light deciduous teeth

Tetric EvoFlow® Bulk Fill – The flowable composite

Advantages	Benefits
One layer of up to 4 mm	Efficient placing of a filling
Flowable consistency	Easy and economical application
Bright colour IV W	Suitable for light children's teeth

Adhese® Universal and...

Universal adhesive and curing light

A filling material suitable for deciduous teeth together with a matching adhesive and a curing device form an effective unit. The coordinated combination of these components streamlines the treatment procedure.

Optimum bond

The single-component, light-cured adhesive Adhese® Universal for the direct and indirect filling therapy can be ideally combined with Tetric EvoFlow Bulk Fill, Tetric EvoCeram Bulk Fill or Compoglass F. It ensures an optimum bond on dentin and enamel. The VivaPen® delivery form allows direct and efficient application – a huge advantage in the treatment of children. Young patients like its innovative design.

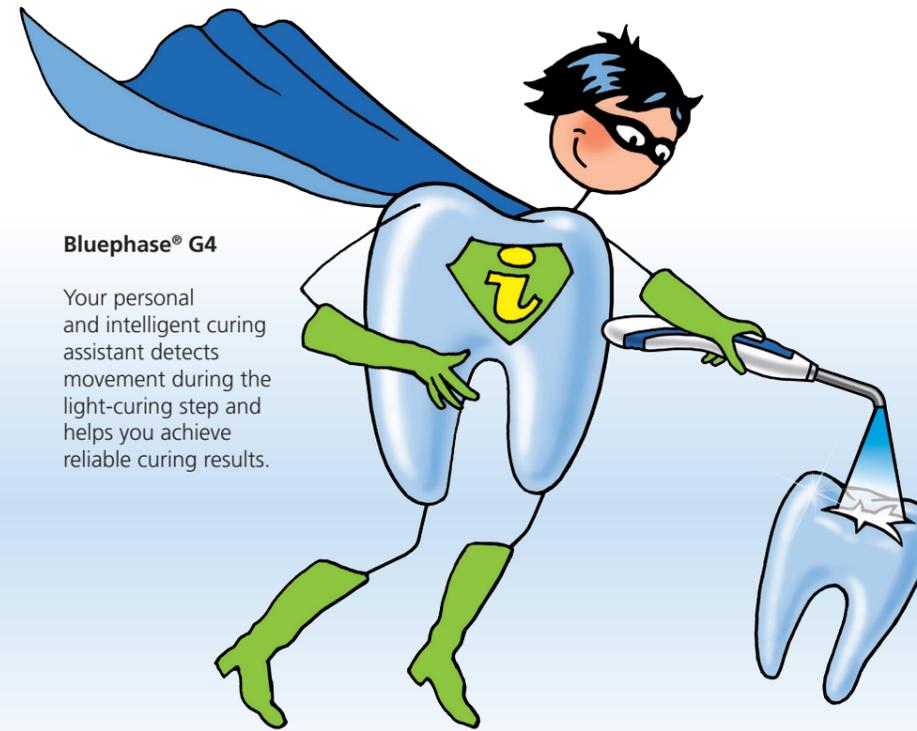
Polymerization in the child's mouth

The proprietary Polywave® LED covers the entire wavelength spectrum between 385 and 515 nm. Therefore, the curing light Bluephase® G4 is suitable for polymerizing most photoinitiators and dental materials such as adhesives, filling materials and fissure sealants. The parallel light guide ensures homogeneous light distribution and therefore an even cure. The shortened light guide which can be rotated 360 degrees, enables easy access to all tooth surfaces within a child's mouth.

Adhese® Universal – The universal adhesive

Advantages	Benefits
Single-component, light-cured adhesive	Ideal combination of composites and compomers
Universal application	For direct and indirect restorations and all etching techniques
VivaPen	Fast and direct application

Bluephase® G4



Bluephase® G4

Your personal and intelligent curing assistant detects movement during the light-curing step and helps you achieve reliable curing results.

Bluephase® G4 – For every use

Advantages	Benefits
Polywave LED	For most fissure sealants and filling materials
Shortened, rotatable light guide	Access to all tooth surfaces in the child's mouth
Ergonomic	Comfortable to fit every hand



Even difficult-to-reach areas can be accessed with the shortened, rotatable light guide of Bluephase® G4. Picture: Ivoclar Vivadent AG

Special tip

- ▶ The lip and cheek retractor OptraGate® Junior ensures free access to the working field in the child's mouth.

Benefits for the practice team

- ▶ Coordinated product system
- ▶ Optimum application in the child's mouth
- ▶ Fast and easy filling therapy

Benefits for young patients

- ▶ Comfortable, fast treatment
- ▶ Interesting delivery forms
- ▶ Long-lasting restorations

The scientific basis

- ▶ Adhese Universal achieved consistently high shear bond strength on dentin after different surface treatments (moist, dry, desiccated) (Singhal et al. 2014).



Fast and direct application of Adhese® Universal



Ivoclar Vivadent

i-Kids® | Pediatric Dental Solutions

i-Kids Pediatric Dental Solutions from Ivoclar Vivadent offers a system of professional solutions.



Dental practice

Evaluation		Low caries risk	High caries risk
Plaque accretion	Plaque Test		✓
Targeted recording of case history			✓
Check-ups		✓ 2x/a	✓ 4-6x/a
Bitewing X-ray for the early detection of proximal caries		✓	✓
Restoration of carious lesions	Tetric EvoCeram	✓	✓
	Adhese Universal	✓	✓
	Bluephase	✓	✓
Reconstruction	Crown for children	✓	✓
	Variolink II	✓	✓
Removal of plaque retention sites		✓	✓
Sealing of fissures	Helioseal F Plus		✓
Topical fluoride application	Fluor Protector S	✓ 2x/a	✓ 4-6x/a
Motivation and instruction for oral hygiene improvement		✓	✓
Professional tooth cleaning	Proxyl,	✓	✓
	OptraGate Junior	✓	✓
Topical application of chlorhexidine	Cervitec F		✓
	Cervitec Gel		✓
Nutrition counselling for parents and children			✓

At home

Measures		Low caries risk	High caries risk
Dentifrice containing fluoride		✓	✓
Cleaning of interdental spaces		✓	✓
Preparations with fluoride	Fluor Protector Gel		✓
Preparations with chlorhexidine	Cervitec Gel		✓
Preparations with bicarbonate			✓
Balanced diet		✓	✓
Hard-to-chew food			✓
Sweets and chewing gum with sugar substitute	Wrigley's EXTRA		✓
	sugarfree gum		✓

Note: Recommendations have to be adjusted to the age of children and adolescents.

In cooperation with the Center for Dentistry and Oral Medicine, University Clinic Jena, Friedrich-Schiller-University of Jena, Germany

Service

Products | Full service | i-Kids® world



Just another service we offer you and your patients: We are happy to assist you!

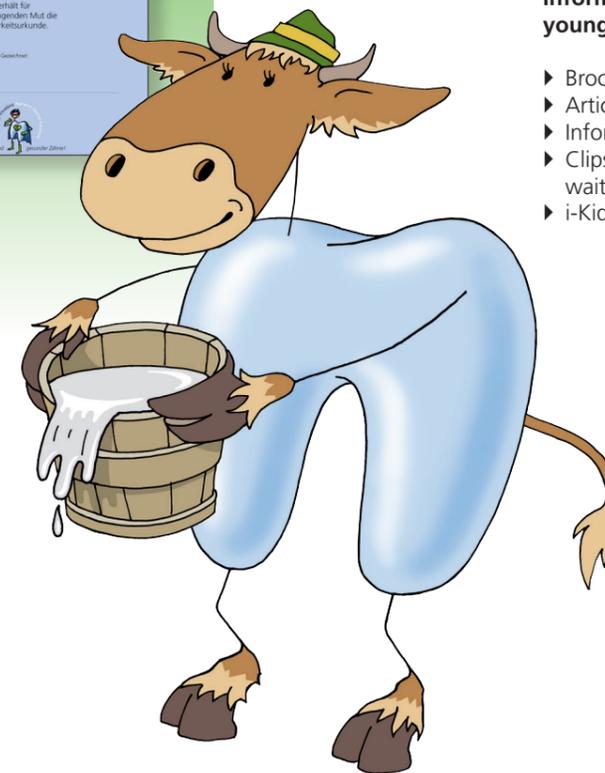
The i-Kids range which includes diagnostic, preventive, therapeutic, restorative and care products will support you in building up a long-lasting relationship with your patients and their parents. A wide array of services back up the i-Kids product range from Ivoclar Vivadent.

Information for the dental office

- ▶ Brochures
- ▶ Flow charts
- ▶ Study results
- ▶ Documentation
- ▶ Articles
- ▶ Videos
- ▶ Presentations

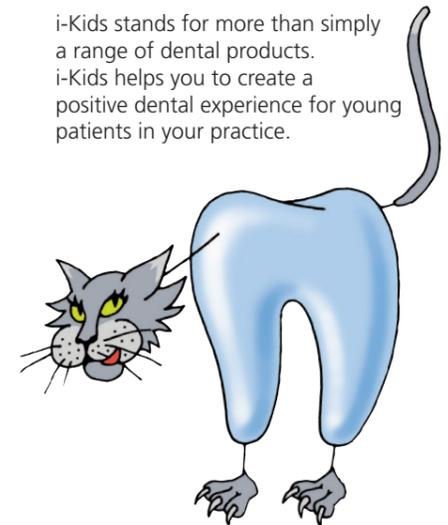
Information for young patients

- ▶ Brochures and stands
- ▶ Articles
- ▶ Information cards
- ▶ Clips for the waiting room
- ▶ i-Kids materials



i-Kids® world A positive dental experience The adventure of healthy teeth

i-Kids stands for more than simply a range of dental products. i-Kids helps you to create a positive dental experience for young patients in your practice.



Everything you need for small adventurers

- ▶ i-Kids certificate of bravery
- ▶ i-Kids bags
- ▶ i-kids colouring pads
- ▶ i-Kids-i-Kids puzzle pads
- ▶ i-Kids buttons
- ▶ i-Kids stickers

Special tip

Pay us a visit on the Ivoclar Vivadent website. www.ivoclarvivadent.com/de You will find information on the Ivoclar Vivadent products and product systems.

All the video tutorials of Ivoclar Vivadent can be found on videotutorials.ivoclarvivadent.com/en

Ivoclar Vivadent

i-Kids® | For a bright and healthy smile



The teeth and mouth require effective professional oral health management strategies starting from early child-

hood to keep them functioning properly and looking good.

Ivoclar Vivadent is there to assist you. *i-Kids* products for prevention, treatment, restoration and care enable you to enhance the service of your practice in anticipation of the future.

To benefit you and your young patients.



Production and distribution:
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