



IPS E.MAX® GUIDED VENEER TREATMENT BY TRIOCLEAR®360

Guidet præparation & placering i én aftale – uden provisorier.

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CLEAR

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Modern Dental Group

IPS e.max® Guided Veneer Treatment by TrioClear®360

Guidet præparation og placering i én aftale. Uden provisorier.



ET TRIN-FOR-TRIN GUIDET WORKFLOW TIL FACADER

fra digitalt smiledesign til endelig placering.



**Live patient-
behandling**



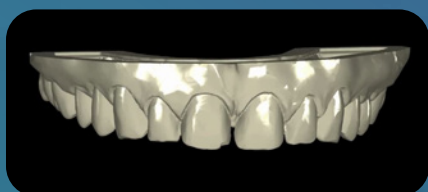
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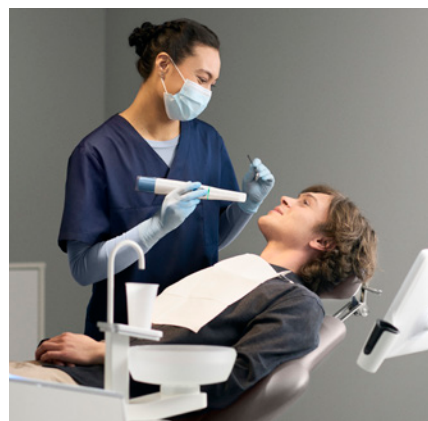
HVAD ER IPS E.MAX® GUIDED VENEER TREATMENT BY TRIOCLEAR®360?

Ét digitalt design. Guidet fra start til slut.

IPS e.max® Guided Veneer Treatment by TrioClear®360 er et komplet digitalt behandlingskoncept, der samler **integreret smiledesign, guidet klinisk udførelse og IPS e.max®-restaureringer** i ét sammenhængende workflow.

I stedet for at basere behandlingen på konventionelle frihåndsteknikker planlægges hvert klinisk trin, før behandlingen påbegyndes. Det godkendte smiledesign fungerer som den digitale plan for præparation og placering, så alle behandlingens faser følger den samme forudsigelige behandlingsplan.

Resultatet er et minimalt invasivt, effektivt og meget forudsigeligt workflow, der hjælper med at bevare mest mulig sund tand og samtidig opnå ensartede, naturlige og æstetiske behandlingsresultater.



Samlet
TrioClear®360
workflow

Integreret
tilgang til
smiledesign

Guidet
præparation

Guidet
placering

Minimalt
invasiv

IPS e.max-
æstetik

ÉT SAMLET DIGITALT WORKFLOW

- ✓ Integreret smiledesign
- ✓ Klinisk fotografering og intraoral scanning
- ✓ Digital behandlingsplanlægning
- ✓ Guidet præparation
- ✓ Guidet placering og cementering
- ✓ IPS e.max®-restaureringer

DERFOR ER DET VIGTIGT

- Planlæg, før du præparerer
- Bevar sund emalje
- Skab større ensartethed i den kliniske udførelse
- Øg behandlingseffektiviteten
- Opnå forudsigelige, æstetiske behandlingsresultater

GUIDET PRÆPARATION & PLACERING I ÉN AFTALE – UDEN PROVISORIER.



TRIOCLEAR®360

Én samlet løsning til hele den æstetiske behandling

Planlæg ud fra det ønskede resultat

Integreret smiledesign tager udgangspunkt i det ønskede funktionelle og æstetiske slutresultat og planlægger behandlingen som en helhed. På den baggrund vælger du det rette TrioClear®360-behandlingsforløb: tandregulering, restaurering, beskyttelse eller en kombination.

TrioClear®360 samler design, tandregulering, restaurering og beskyttelse i ét sammenhængende behandlingssystem og gør det muligt at sammensætte det rette behandlingsforløb til den enkelte patient.

Digitalt fra start

Uanset om behandlingen starter med en intraoral scanning eller et konventionelt aftryk, samles hele casen i ét digitalt workflow. Det skaber sammenhæng fra planlægning og behandling til kommunikation og opfølgning.

“Det rette behandlingsforløb til den enkelte patient.”

Alt-i-ét behandlingssystem:

Én patient. Én samlet case. Ét sammenhængende workflow.

TRIO
CLEAR | 360

TRIOCLEAR® DESIGN

Integreret smiledesign, der forbinder diagnostik, planlægning og behandlingsresultater.

TRIOCLEAR® ALIGN

Et progressivt alignersystem til forudsigelig ortodontisk behandling.

TRIOCLEAR® RESTORE

Restorative løsninger, herunder IPS e.max® Guided Veneer Treatment, F.I.T.-facader og ZirNEER.

TRIOCLEAR® PROTECT & RETAIN

Løsninger til beskyttelse og langsigtet stabilitet.

Caseoprettelse | Behandlingsdata | Samarbejde | Kontinuitet

DET KOMPLETTE GUIDEDE WORKFLOW

Én patient. Flere behandlingsmuligheder. Ét samlet behandlingssystem.

TrioClear®360 gør det muligt for behandleren at kombinere netop de behandlingstrin, den enkelte patient har behov for, fra smiledesign og tandregulering til restaurerende behandling og langsigtet beskyttelse. Digital tandpleje har ændret måden, vi diagnosticerer, planlægger og udfører restaurerende behandlinger på. Patienterne forventer **æstetiske resultater, minimalt invasive behandlinger og kortere behandlingstid**, mens behandleren har brug for workflows, der gør behandlingen enklere uden at gå på kompromis med kvaliteten.

IPS e.max® Guided Veneer Treatment by TrioClear®360

kombinerer digital planlægning med guidet klinisk behandling i ét sammenhængende workflow. I stedet for at tilpasse restaureringen til præparationen, planlægger du præparationen digitalt ud fra den optimale restaurering. Med udgangspunkt i det ønskede slutresultat planlægger du behandlingen, så hvert trin understøtter et præcist, forudsigeligt og æstetisk resultat. Kliniske oplysninger, fotos, scanning og godkendelser samles gennem hele forløbet og skaber et fælles grundlag for et effektivt samarbejde mellem behandler, laboratorium og behandlingsteam.

1. AFTALE



Patientregistrering

Kliniske fotos og intraoral scanning dokumenterer patientens udgangspunkt. Upload materialet til TrioClear®360-plattformen.

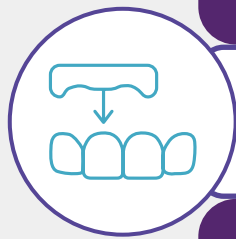
2. AFTALE



Biofunktional mock-up

Fysisk indprøvning til vurdering af æstetik, funktion, fonetik og læbestøtte.

3. AFTALE



Guidet placering og cementering

Placeringsskinnen sikrer, at IPS e.max®-facaderne placeres præcist og cementeres effektivt.



Godkendt integreret smiledesign på TrioClear®360-plattformen

Det godkendte design danner grundlag for den optimale og nødvendige plads til restaureringen.



Guidet præparation

Individuelt fremstillede præparationsguides sikrer en minimalt invasiv og præcis reduktion af tandsubstansen.



Forudsigeligt slutresultat

Slutresultatet afspejler præcist den oprindelige digitale behandlingsplan.

GUIDET KLINISK BEHANDLING

Fra digitalt design til et forudsigeligt resultat

Når det integrerede smiledesign er godkendt, danner det grundlag for den videre behandling. Individuelt fremstillede præparationsguides sikrer en præcis og skånsom præparation, hvor mest mulig sund emalje bevares, samtidig med at der skabes den nødvendige plads til **IPS e.max®-facaderne**. Præparationen tager udgangspunkt i den endelige restaurering, som allerede er planlagt digitalt. Det giver større præcision og ensartethed end ved præparation i frihånd. Den samme digitale tilgang fortsætter ved placeringen af facaderne. Digitalt designede placeringsskinner understøtter præcis påsætning og forenkler den adhæsive cementering, så det godkendte smiledesign effektivt kan overføres fra den digitale plan til patienten.

VIGTIGSTE FORDELE

- ✓ **Minimalt invasiv behandling**
Guidet præparation bevarer mest mulig sund emalje.
- ✓ **Høj præcision**
Både præparation og placering følger det godkendte digitale design.
- ✓ **Større effektivitet**
Kortere behandlingstid i stolen og færre kliniske justeringer.
- ✓ **Ensartet workflow**
Standardiseret præparation og placering af hver enkelt facade.
- ✓ **Bedre kommunikation mellem klinik og lab**
Restaureringerne fremstilles på baggrund af den præcise digitale behandlingsplan.
- ✓ **Forudsigelige resultater**
Slutresultatet afspejler det godkendte integrerede smiledesign.



HVORFOR VÆLGE EN GUIDET FACADEBEHANDLING?

Traditionelt vs guidet behandlingsforløb

	TRADITIONELT WORKFLOW	IPS E.MAX® GUIDED VENEER TREATMENT
Forventet behandlingstid	5 – 8+ timer	90 min
Præparation og cementering i én aftale	✗	✓
Enkel, præcis og guidet behandling	✗	✓
Præcis visualisering af det forventede resultat	✗	✓
Intet behov for provisorier	✗	✓
Maksimal bevaring af tandsubstans	✗	✓
Høj patienttilfredshed	✗	✓
Resultat	Varierende	Forudsigelig æstetik

FORDELE FOR TANDLÆGEN

- ✓ **Større præcision**
Hvert klinisk trin tager udgangspunkt i den godkendte digitale behandlingsplan.
- ✓ **Højere effektivitet**
Kortere behandlingstid i stolen og færre kliniske justeringer.
- ✓ **Minimalt invasiv behandling**
Kontrolleret præparation bevarer mest mulig sund emalje.
- ✓ **Bedre samarbejde**
Tandlæge og laboratorium arbejder ud fra det samme digitale design.
- ✓ **Større sikkerhed**
Et standardiseret workflow reducerer variationen fra case til case.

FORDELE FOR PATIENTEN

- ✓ **Se resultatet før behandlingen**
Patienten kan se og godkende sit kommende resultat, inden præparationen påbegyndes.
- ✓ **Skånsom behandling**
Kun den nødvendige tandsubstans fjernes.
- ✓ **Færre aftaler**
Et effektivt og sammenhængende behandlingsforløb reducerer den samlede behandlingstid.
- ✓ **Naturligt æstetisk resultat**
Den endelige restaurering afspejler det godkendte smiledesign.

Esthetic integration area concept in digitally guided veneer rehabilitation: A dental technique

Patricia Elias-Ortiz, DDS,^a Juan Ruiz-de-Gopegui, DDS, MS,^b Carlos Eduardo Toro-Chacón, DDS, MS,^c Nicolás Veneri-Rodríguez, DDS, MS,^d Carlos Oteo-Morilla, DDS, MS, PhD,^e and Wenceslao Piedra-Cascón, DDS, MS^f

Adequate treatment planning from a diagnostic waxing is essential for successful esthetic restorations.^{1–6} Through the advancement of intraoral scanners (IOSs), computer-aided design (CAD) software programs, and computer-aided manufacturing (CAM), an accurate digital workflow for diagnostic treatment planning has become available.^{7–26} Despite advances in the digital workflow, the most widespread guided treatments have been surgical,^{27–29} with fewer solutions for guided preparations to receive tooth-supported prostheses. In a conventional approach for veneer preparations, tooth preparations have been controlled by the use of silicone indices.³⁰ However, the conventional method has constraints, depending on the technical ability of the clinician, resulting in an unregulated determination of the restorative space, potentially leading to overcontoured restorations as specified by the esthetic integration area (EIA) concept.³¹ The EIA concept is based on restorations that do not exceed the maximum buccal volume of the soft tissues nor the maximum volume of the papillae interproximally.³¹ The present article describes a step-by-step digital protocol to plan, design, and additively manufacture 3 dimensional (3D) templates for fully guided maxillary ceramic veneers from dental preparation to cementation in the same clinical appointment.

ABSTRACT

Computer-aided design and computer-aided manufacturing (CAD-CAM) technologies have been integrated into the dental digital workflow. However, pretreatment virtual veneer preparations and the digital design and manufacturing of guided preparation and cementation templates has not yet been incorporated into the clinical routine. This article presents a novel protocol for digitally guided veneer rehabilitation by following the esthetic integration area concept, facilitating precise control over tooth structure removal and obviating the need for interim restorations. (J Prosthet Dent xxxx;xxx:xxx-xxx)

TECHNIQUE

A 25-year-old woman was referred to a private practice for prosthodontic treatment. Her chief complaint was poor esthetics.

Step 1. Clinical Procedure. First Appointment

1. Make 2 digital photographs of the patient's face with a digital single-lens reflex camera (EOS 750D; Canon), 1 smiling and 1 with cheek retractors (Fig. 1).
2. Make an intraoral digital scan of the patient's dentition with an IOS (Itero Element 5D; Align Technology) under 1000 lux ambient lighting measured by using a luxometer (LXB1033B; Dr. Meter). Once the digital scans are completed and processed, export them as a standard tessellation language (STL) file: STL₁ (maxillary) and STL₂ (mandibular).



The authors declare the following financial or non-financial interests which may be considered as potential conflicts of interest: The following authors have commercial interests with FirstFit Technologies: P.E-O., N.V-R., and C.E.T-C.

^a Private practice, Madrid, Spain.

^b Affiliate Faculty Graduate, Esthetic Dentistry Program, Complutense University of Madrid (UCM), Madrid, Spain; and Private practice, Madrid, Spain.

^c Private practice, Madrid, Spain.

^d Private practice, Madrid, Spain.

^e Affiliate Faculty Graduate, Esthetic Dentistry Program, Complutense University of Madrid (UCM), Madrid, Spain; and Private practice, Madrid, Spain.

^f Doctoral student, Doctoral Program in Dental Science, Stomatology Area, Department of Surgery and Medical-Surgery Specialties, University of Santiago de Compostela (USC), Santiago de Compostela, Spain; and Affiliate Faculty, Esthetic Dentistry Program, Complutense University of Madrid (UCM), Madrid, Spain; Private practice, Oviedo, Spain; and Researcher, MovumTech, Madrid, Spain.

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Dental Technique

Step 2. Computer-aided Design

3. Import STL₁ and STL₂ into a dental CAD software program (exocad DentalCAD; exocad GmbH) to perform a virtual diagnostic waxing of the teeth (Fig. 2A, B). Export the waxed STL file (STL₃) and 3D print it from a cast material (Nextdent Model 2.0; Nextdent) using an SLA-DLP 3D printer (Nextdent 5100; Nextdent) with a 50-µm-layer thickness.
4. Make a silicone index using polyvinyl siloxane putty and light-body materials (Virtual Putty, Virtual Light Body; Ivoclar AG).

Step 3. Clinical Procedure. Second Appointment

5. Use an autopolymerizing bis-acryl interim resin (Voco Structur 2 SC, Bleach; Voco GmbH) to evaluate trial restorations. After polymerization, remove the silicone index (Fig. 2C).
6. Reshape the interproximal and cervical areas if needed to obtain a natural emergence profile before definitive preparation.³¹ Make a scan of the reshaped teeth by following the same protocol described in step 1.2. Export the STL file as STL₄ and send it to the dental laboratory technician.



Figure 2. A, Superimposition of smile position photograph with initial maxillary STL file. B, Digital diagnostic waxing facially driven. C, Trial restorations made from bis-acrylic resin. STL, standard tessellation language.

Step 4. Laboratory Procedures

7. Import STL₃ and STL₄ into a specific CAD software program (FirstFit; Viax Dental Technologies) to perform digital veneer preparations (Fig. 3A). Export the STL file as STL₅.
8. Design the 3D rigid tooth preparation guides based on STL₅ (FirstFit; Viax Dental Technologies) (Fig. 3B). Export them in an STL file and use a material jetting polymer 3D printer (ProJet MJP 2500 IC; 3D Systems) and polymer material (Visijet M2R-CL; 3D Systems).
9. Import STL₅ into a dental CAD software program (exocad DentalCAD; exocad GmbH) to digitally design the veneers. Combine the designed restorations and the cast and export it as STL₆. Manufacture the ceramic veneers in lithium disilicate monolithic material (e.max; Ivoclar AG).
10. Import STL₆ into a CAD software program (exocad DentalCAD; exocad GmbH) and design and 3D print the maxillary tray (Max 2; ASIGA) using a specific polymer resin (Imprimo LC IBT; Scheu-Group) (Fig. 3C).



Figure 3. Digital data set. A, Virtual simulation of veneers preparation based on diagnostic waxing. B, Digital design of preparation guides. C, Digital design cementation guide.

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Dental Technique

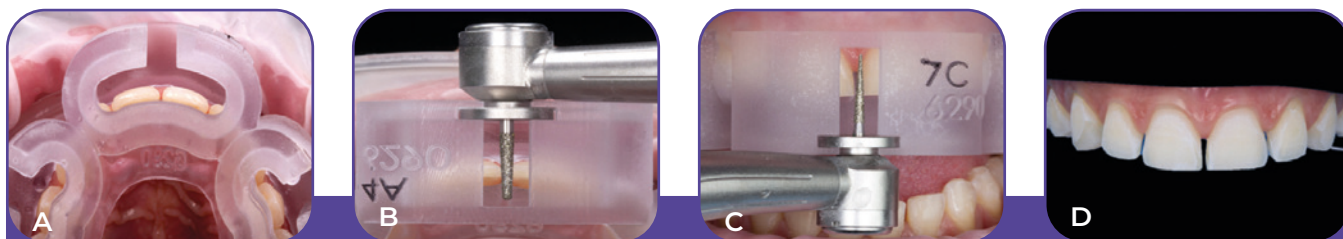


Figure 4. Veneer preparation phase. A, 3D printed guide placed in mouth. B, Specific dental handpiece and calibrated diamond rotary instrument for incisal reduction. C, Guided facial preparations on maxillary central incisors. D, Teeth prepared for ceramic veneers.

Step 5. Clinical Procedure. Third Appointment

11. Place the rigid 3D preparation guides and prepare the teeth using a special handpiece (FirstFit; Viax Dental Technologies) and specific diamond rotary instruments (Shape A B; Hager-Meisinger GmbH) (Fig. 4).
12. Evaluate each veneer individually for marginal fit and proximal contacts. Seat the veneers in the 3D printed cast and bond them provisionally into a semirigid 3D printed positioning tray (Fig. 5A).



Figure 5. Veneer cementation. A, Veneers placed in cementation guide. B, Veneers delivered. C, Frontal view.

13. Prepare the ceramic restorations by following the manufacturer's recommendations. Then, etch the tooth surfaces with phosphoric acid (Total Etch; Ivoclar AG) for 30 seconds. Rinse, dry, and apply a universal adhesive (Adhese Univeral Vivapen; Ivoclar AG) followed by a light-polymerization resin cement (Variolink Esthetic LC; Ivoclar AG) placed in the veneers.
 14. After 3 months, re-evaluate the veneers and soft tissues by following the EIA concept (Fig. 6).
- Seat all veneers at the same time (Fig. 5B). Spot-polymerize each veneer for 3 seconds (Bluephase G4 pin-point 2 mm; Ivoclar AG). Remove the semirigid cementation guide and remove excess cement. Polish the margins (Optra Fine; Ivoclar AG). Evaluate function.



Figure 6. Three months after treatment. A, Frontal view. B, Emergence profile view. C, Evaluation of esthetic integration area.

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Dental Technique

DISCUSSION

The incorporation of a 3D CAD software program enables the superimposition of the digital scans on 2-dimensional facial smile photographs to determine the functional and esthetic parameters of the oral rehabilitation. This approach improves communication between dental laboratory technicians and clinicians. If modifications to the diagnostic waxing are needed, the clinicians should modify it intraorally during the trial restoration step and make a new digital scan for the dental laboratory technician to consider in the definitive restorations. The technique presented in this article enables the required tooth reduction to be determined to assess the adequate available space for guided veneer preparations. This is achieved through the EIA concept, avoiding overcontoured restorations or excessive tooth preparation.

The technique described has advantages that include the accuracy of the tooth preparation, enabling the digital calculation of an ideal insertion path for the veneers and ensuring uniform tooth preparations. Additionally, interim restorations are not required with the presented technique. Furthermore, fewer and shorter clinical appointments are possible, as the methodology enables tooth preparation and cementation of the definitive restorations at the same clinical appointment. Once the learning curve is overcome, the total time needed to prepare and cement 10 veneers is about 1 hour.

The preparation and cementation guides are made with a multijet printing additive manufacturing technology that allows for 3D printing without support structures. The technology minimizes deformation of the guided surfaces,³² ensuring accuracy in the dental procedures presented. Limitations of the presented technique include the need for the patented handpiece with the use of specific calibrated diamond rotary instruments and the need for interproximal preparations in the reshape phase before the design of the guided preparation templates. When comparing digital guided and free-hand tooth preparations, there is a notable increase in direct costs attributed to the fabrication of preparation guides. However, these costs are mitigated by a reduction in the number of required clinical appointments and the accuracy obtained. However, in vitro and in vivo studies are necessary to assess the accuracy of the digital workflow for the veneer preparations provided in the presented technique.

SUMMARY

The application of a specialized digital workflow for digital veneer preparation enables precise control over tooth structure removal, ensuring uniform teeth preparations. This approach also results in a cost-effective workflow as the need for interim restorations can be eliminated.

PATIENT CONSENT

Informed patient consent has been obtained.

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CORRESPONDING AUTHOR:

Dr Wenceslao Piedra-Cascón
Department of Surgery and Medical-Surgery Specialties
University of Santiago de Compostela (USC)
Rua Entreprerios s/n
Santiago de Compostela, 15782
SPAIN
Email: wpiedra@mouvumtech.com

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OBLIGATORISK EN-DAGS CERTIFICERINGSKURSUS

Lær på én dag. Behandl dagen efter.

Bliv fortrolig med hele **IPS e.max® Guided Veneer Treatment by TrioClear®360**-workflowet på én intensiv kursusdag. Gennem faglige oplæg, live patientbehandling og hands-on træning får du den viden, der skal til for at tage guidet facadebehandling i brug i klinikken.

OVERORDNET MÅL

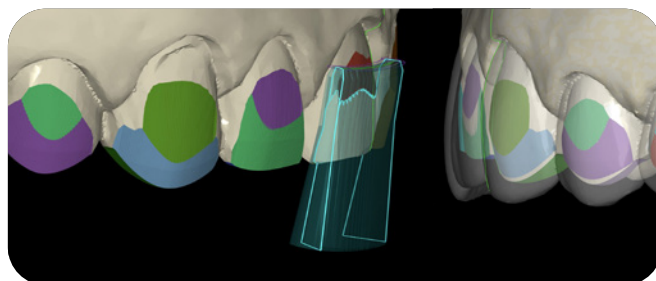
- At certificere deltagerne i behandling af patienter med **IPS e.max® Guided Veneer Treatment by TrioClear®360**.

SPECIFIKKE LÆRINGSMÅL

- Forstå og gennemføre de enkelte faser i behandlingsforløbet.
- Anvende præparationsguides til IPS e.max® Guided Veneer Treatment by TrioClear®360.
- Forstå EIA-konceptet (Esthetic Integration Area) og dets betydning for det samlede forløb.
- Gennemføre hands-on træning i konventionel cervikal tilpasning i overensstemmelse med kravene i EIA-konceptet.
- Følge den kliniske anvendelse af IPS e.max® Guided Veneer Treatment by TrioClear®360 gennem en live patientbehandling.

INKLUDERET

- ✓ Live patientbehandling
- ✓ Hands-on træning
- ✓ Officiel 1-dags certificering
- ✓ Kursusmateriale

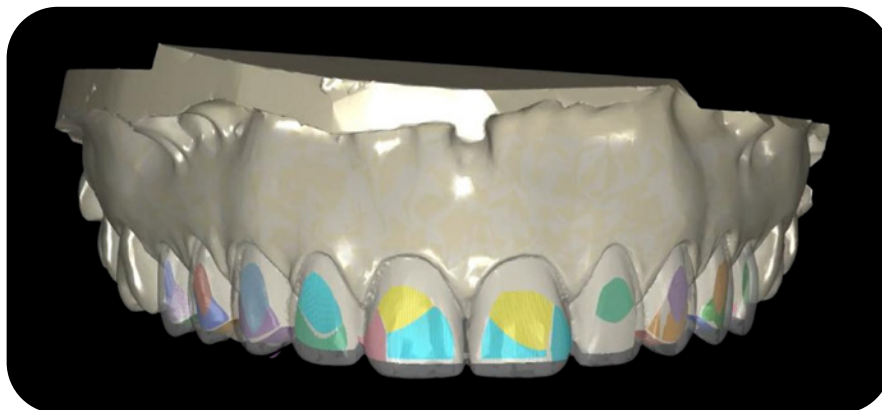


FØR

EFTER

FÅ STYR PÅ HELE IPS E.MAX® GUIDED VENEER TREATMENT-BEHANDLINGSFORLØBET

Lær. Træn. Skab resultater.

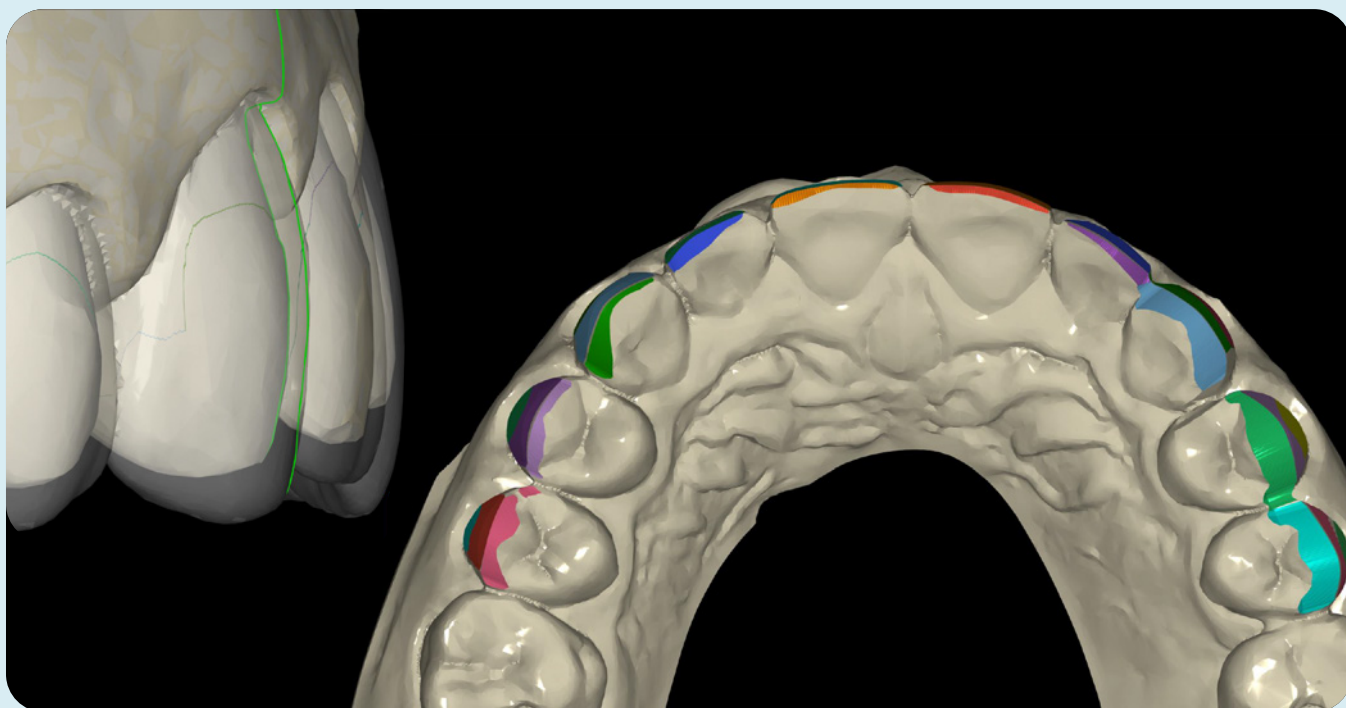


HVORFOR DELTAGE?

- Få styr på de typiske udfordringer ved facadebehandling.
- Lær teknikkerne bag guidet præparation og cementering af facader.
- Få praktisk hands-on træning med den nyeste teknologi og faglig vejledning.
- Oplev en live patientbehandling.

HVEM BØR DELTAGE?

- Tandlæger, der ønsker at arbejde med facadebehandling på en mere præcis og effektiv måde, med fokus på et højt fagligt og æstetisk niveau.



IPS E.MAX® GUIDED VENEER TREATMENT CERTIFICERINGSKURSUS

Program

VELKOMST OG REGISTRERING 8:30 - 9:00

9:00 - 10:30

IPS e.max® Guided Veneer Treatment by TrioClear®360

- Hvad er IPS e.max® Guided Veneer Treatment by TrioClear®360?
- Æstetik i tandbehandling
- Præparationsprotokoller til facadebehandling
- Vigtige kliniske faktorer
- CAD/CAM-materialer

10:30 - 11:30

Guidet præparation og cementering ved facadebehandling

- Klinisk gennemgang af live patientcase
- Nøgleprincipper for guidet præparation og guidet cementering
- Klinisk anvendelse ved andre indikationer

PAUSE 11:30 - 12:00

12:00 - 12:30

Guidet workflow til facader

- Trin-for-trin
- Protokol for klinisk fotografering
- Aftryk eller scan
- Digitalt workflow
- Webplatform

12:30 - 13:30

Hands-on træning i guidet facadepræparation

- Guidet præparation trin-for-trin
- Tips og gode råd til guidet præparation
- Sådan vurderer du, hvornår præparationerne er færdige
- Polering af præparationerne
- Indprøvning af facader med placeringsskinne

13:40 - 14:30

Ivoclar cementeringsworkflow & quiz

- Ivoclar cementeringsworkflow
- Tips til at fjerne overskydende cement
- Tack-cure-teknik med Bluephase® Pin-Point Tip
- Quiz

FROKOST 14:30 - 15:30

15:30 - 16:00

TrioClear®360

- TrioClear®360-konceptet
- Digitalt behandlingsworkflow
- Indsendelse af case
- Sådan bestiller du

17:30 - 18:00

Hands-on træning i biofunktionel mock-up og cervikal tilpasning

- In vitro-træning i biofunktionel mock-up
- In vitro-træning i cervikal tilpasning
- Tips til proceduren
- Demonstration af guidet cervikal tilpasning

18:00 - 18:30

Komplekse cases – quiz

- Forøgelse af den vertikale dimension af okklusion (VDO)
- Guidet IPR med alignere
- Klinisk diskussion
- Spørgsmål og svar
- Quiz

UDDELING AF KURSUSBEVISER 18:30

Eksklusivt tilbud til kursusedtagere

Når du har gennemført 1-dags certificeringskurset, kan du købe airrotor og Ivoclar Starter Kit til en særlig kursusprijs.

Airrotor

Normalpris: €950,-

Tilbudspris til kursusedtagere: €800,-

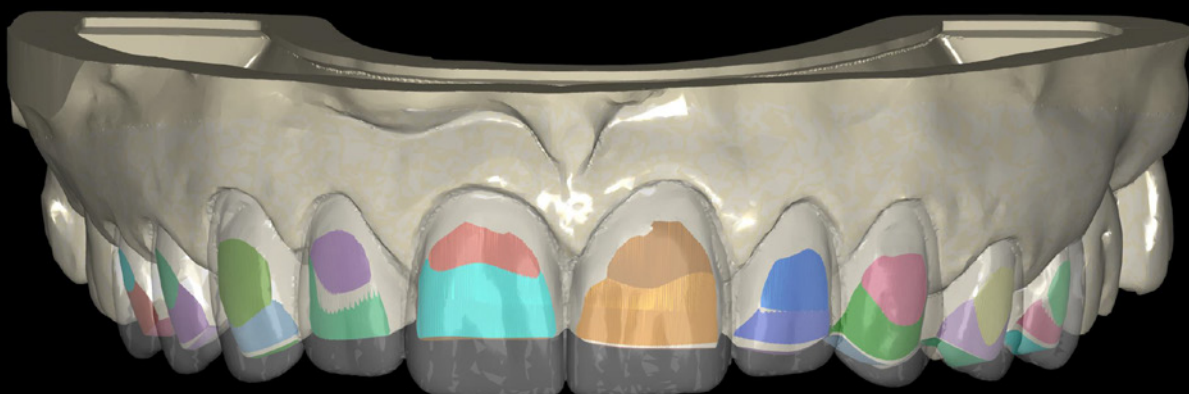
Ivoclar Starter Kit

OptraSculpt Kit, Variolink Esthetic Try-In, Total Etch, Variolink Esthetic Light Cure, Monobond Plus, Liquid Strip, Vivadent Polishing Paste Fine, Vivadent Protecting Gel, Vivapad/Mixing Plate, Multilink Applicator, OptraGate 2, Adhese 2 Light Cure VivaPen og Ivoclean.

Normalpris: €700,-

Tilbudspris til kursusedtagere: €550,-





LÆR SAMMEN. BEHANDL BEDRE.

Tag din klinikassistent med (anbefalet)

Tandlæger, der deltager sammen med deres klinikassistent, implementerer typisk workflowet hurtigere og mere effektivt. Din klinikassistent lærer at:

- Assistere ved guidet præparation og placering af facader
- Understøtte patientkommunikation og case-præsentation
- Bidrage til et effektivt og forudsigeligt guidet workflow til facader i klinikken

Deltagelse for klinikassistent: €150,- (ekskl. lokal moms*)

Se ledige datoer og book din plads nu – € 950,-*

LÆR PÅ ÉN DAG. BEHANDL DAGEN EFTER.

Scan for at tilmelde dig vores obligatoriske en-dags certificeringskursus.

<https://elysee-dental.dk/educaties/one-day-certification-course/>



*Gældende lokale momssatser afhænger af eventets placering.

