

VITA Zahnfabrik H. Rauter GmbH & Co. KG Spitalgasse 3 79713 Bad Säckingen Germany 004/06.2024

The following SSCP (Summary of Safety and Clinical Performance) is applicable to the following product(s):

VITA CAD-Temp® IS

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Revision History

Version	Changes
001	Initial version
002	Annual update
003	New version of Clinical Evaluation
004	Annual update



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Identification of the device



Device trade name	VITA CAD-Temp® IS	
Manufacturer	VITA Zahnfabrik H. Rauter GmbH & Co. KG Spitalgasse	
	3 D-79713 Bad Säckingen	
Manufacturers SRN	DE-MF-000005906	
BASIC-UDI-DI	++J017CD3Q5 (VITA CAD Temp IS)	
	++J017KK2RY (Mixed assortments CAD/CAM)	
Medical device	Q010699 - MATERIALS FOR THE PREPARATION OF	
nomenclature (EMDN)	CUSTOM-MADE DENTAL DEVICES – OTHER	
Class of device	lla	
Year of first CE	2014	
certificate		
Notified Body including	DEKRA Certification GmbH, identification no.: 0124	
identification no.		

Indications, Intended Purpose and Target populations

Intended purpose	VITA CAD Temp produtcs are polymer based crown/bridge temporaries for dental treatments.
Indication	VITA CAD-Temp IMPLANT SOLUTIONS is indicated for the CAD/CAM fabrication of temporary single-tooth abutment crowns for anterior and posterior restorations on titanium bases for a clinical wearing period of up to one year Requirements for this indication:



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Contraindication	 A reliable adhesive bond between the VITA CADTemp abutment crown and the titanium base: Appropriate titanium base geometry (diameter, height) Avoidance of sharp margins and edges Cervical support of the abutment crown on the titanium base: Chamfer or rectangular shoulder with a rounded inner angle and min. width of 0.6 mm. Note: The processing instructions for the titanium bases are general recommendations that are not subject to a guarantee. In the event of questions regarding which titanium base is suitable for the indication in question, please contact your implant manufacturer. Strict compliance with the processing instructions provided by the manufacturer for the recommended bonding materials is crucial to clinical success. Superstructures with a highly asymmetric design and elongated extensions are contraindicated for reasons of structural stability. Permanent restorations
	- In patients who are allergic to PMMA
Intended user	Dental technician, Dentist, Professional User, Rx only



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Device description

a) Description of the medical device(s)

VITA CAD-Temp and VITA CAD-Temp IS are machinable milling blanks for the fabrications of provisional restorations. Temporary restorations have –

- prophylactic functions: avoiding the movement of abutment teeth and protection of the tooth substance against bacterial, toxic and thermal effects
- diagnostic and esthetic functions: checking of occlusion, phonetics, vertical dimension and the esthetic result
- therapeutic functions (gingival forming for controlled papillary growth for the implemented all-ceramic restorations later on, restoring implants during the healing phase, correction of temporomandibular joint disorders and correction of the occlusal plane.

Provisional restorations are worn only for a transitional period until the final denture is completed or can be inserted. Then, the provisional restoration is removed . The dentist prepares the respective defective tooth/teeth in the dentition which need replacement. The first step of the CAD/CAM technology is the intraoral acquisition of digital information on the geometry of the respective area in the dentition and the jaws, e.g. prepared tooth/teeth, neighboring teeth, opposing jaw. Alternatively, a dental model is extra-orally digitized. The CAD software processes the acquired data and enables the dental technician to design the desired restoration and a temporary restoration (crowns or bridges). The final data set is transformed into machine language. The milling machine is driven by the CAD data. It precisely mills the final dental restoration and the temporary restoration from polymer blanks, such as VITA CAD-Temp and VITA CAD-Temp IS. In the next steps the lug is cut off, the surface is polished and the temporary restoration is carefully fitted on the model. For esthetic reasons, the temporary restoration can be shaded, individualized and characterized. Finally, the temporary denture is implemented via adhesive bonding.

b) Previous generations of the medical device(s)

Machinable polymers in CAD/CAM have been around for decades. There is no special predecessor product of VITA CAD-Temp IS in this sense.

 Accessories / other products which are intended to be used with the medical device(s)

The following products can, but do not have to be used with the product. For a detailed description of how to use the products in combination, please refer to the product's instructions for use.



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Name of accessory (manufacturer)	Short description
VITA VM LC VITA VM LC flow	Light-curing, microparticle composite for extraoral use with fixed and removable restorations – VITA CAD Temp can be individualized with the light-curing VITA VM LC and VITA VM LC flow.
VITA AKZENT LC	For characterizing, different VITA AKZENT LC EFFECT STAINS are available for this purpose.
VITA ADIVA SELF ADHESIVE (Harvard Dental)	The self-adhesive luting system with perfectly matched components for conditioning the restorative material
VITA ADIVA TE-CEM (Harvard Dental)	VITA ADIVA TE-CEM is a dual- hardening composite cement for temporary bonding.
SR Connect (Ivoclar Vivadent	Bondig agent for VITA CAD-Temp
Monobond Plus (Ivoclar Vivadent)	Bonding agent / primer for titanium base
Multilink Hybrid Abutment (Ivoclar Vivadent)	Adhesive composite for VITA CAD- Temp and VITA ENAMIC on a titanium base



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Possible therapeutic or diagnostic alternatives

Diagnostic/therapeutic alternative with conditions of use

Therapeutic alternatives to a restoration made of CAD-Temp IS would be analogous constructions made of lithium silicate reinforced with zirconium dioxide, lithium silicate, zirconium dioxide or hybrid ceramics (e.g. VITA ENAMIC IS). Furthermore, a design made of gold casting or a non-precious metal casting can be used.

Possible benefit/advantage and possible risks/disadvantages as far as known

Risks of these therapeutic alternatives could be allergic reactions to the NEM - or gold alloy. Allergy to the adhesive cementation (or the residual monomer content present in it) may occur in restorations made of hybrid ceramics, composite, or feldspar ceramics, where this type of cementation is necessary.

Gold, non-precious metal, zirconium dioxide can be conventionally cemented. Lithium disilicate and zirconium dioxide-reinforced lithium silicate can also be cemented, although adhesive cementation is recommended here for stability reasons. With conventional zinc phosphate cement, chemical noxae from phosphoric acid can cause pulp damage and the roughness of the cement can lead to local gingivitis due to increased plaque accumulation. Due to its acid components, conventional glass ionomer cement should not be used in the immediate vicinity of the pulp or the pulp should be covered in advance to protect it.



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Reference to harmonized standards and CS applied

Common specifications are not used for the product VITA CAD-Temp IS. The following standards are applied for these products at VITA:

- MDCG 2021-3 Custom-Made Devices Guideline
- ASTM D4332-22 Standard Practice for Conditioning Containers, Packages, or Packaging Components for Testing
- ASTM D5276-19 Standardt Test Method for drop Test of Loaded Containers by Free Fall
- DIN EN 1641 10:2009 Dentistry Medical devices for dentistry Materials;
- DIN EN 22248 02:1993 Packaging Complete filled transport packages, Vertical impact test by droppinig
- DIN EN 62366 08:2021 Medical devices Application 01 usability engineering to medical devices
- DIN EN ISO 10477 02:2021 Dentistry

 Polymer-based crown and veneering materials
- DIN EN ISO 10993-1 05:2021 Biological evaluation of medical devices Part 1: Evaluation and testing within a risk management system
- DIN EN ISO 10993-10 04:2023 Biological evaluation of medical devices Part 10: Tests for skin sensitization
- DIN EN ISO 10993-11 09:2018 Biological evaluation of medical devices— Part 11: Tests for systemic toxicity
- DIN EN ISO 10993-12 08:2021 Biological evaluation of medical devices Part 12: Sample preparation and reference materials
- DIN EN ISO 10993-13 11:2010 Biological evaluation of medical devices Part 13:
 Identification and quantification of degradation products from polymeric medical devices
- DIN EN ISO 10993-14 08:2009 Biological evaluation of medical devices Part 14:
 Identification and quantification of degradation products from ceramics
- DIN EN ISO 10993-16 02:2018 Biological evaluation of medical devices Part 16:
 Toxicokinetic study design for degradation products and leachables
- DIN EN ISO 10993-17 02:2024 Biological evaluation of medical devices Part 17: Establishment of allowable limits for leachable substances (
- DIN EN ISO 10993-18 11:2023 Biological evaluation of medical devices Part 18: Chemical characterization of materials
- DIN EN ISO 10993-2 2:2023 Biological evaluation of medical devices Part 2: Animal welfare requirements
- DIN EN ISO 10993-3 02:2015 Biological evaluation of medical devices Part 3: Tests for genotoxicity, carcinogenicity and reproductive toxicity
- DIN EN ISO 10993-4 12: 2017 Biological evaluation of medical devices— Part 4: Selection of tests for interactions with blood
- DIN EN ISO 10993-5 10:2009 Biological evaluation of medical devices Part 5: Tests for in vitro cytotoxicity
- DIN EN ISO 10993-6 09:2017 Biological evaluation of medical devices Part 6:
 Tests for local effects after implantation
- DIN EN ISO 10993-9 03:2022 Biological evaluation of medical devices Part 9: Framework for identification and quantification of potential degradation products
- DIN EN ISO 13485 12:2021 Medical devices Quality management systems
 Requirements for regulatory purposes
- DIN EN ISO 14971 04:2022 Medical devices Application of risk management to medical devices
- DIN EN ISO 15223-1 02:2022 Medical devices Symbols to be used with information to be supplied by the manufacturer Part 1: General requirements
- DIN EN ISO 17664-1 11:2021 Processing of health care products Information to be provided by the medical device



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manufacturer for the processing of medical devices

Part 1: Critical and semi-critical medical devices

- DIN EN ISO 17665-1 11:2006 Sterilization of health care products Moist heatPart 1: Requirements for the development, validation and routine control of a sterilization process for medical devices
- DIN EN ISO 20417 03:2022 Information to be supplied by the manufacturer of medical devices:
- DIN EN ISO 4180 03:2020 Packaging Complete filled tranport packages- Gerneral rules for compilation of performance test schedules
- DIN EN ISO 7405 03:2019 Dentistry Evaluation of biocompatibility of medical devices used in dentistry
- ISO 10993-1 10:2018 Biological evaluation of medical devices Part 1: Evaluation and testing within a risk management process
- ISO 13485 03:2016 Medical devices Quality management systems Requirements for regulatory purposes
- ISO 14801 11:2016 Dentistry Implants Dynamic loading test for endosseous dental implants
- ISO 2206 04:1987 Packaging Complete filled transport packages-Identification of parts when testing
- ISO 7405 10:2018 Dentistry Evaluation of biocompatibility of medical devices used in dentistry
- ISO TR 24971 06:2020 Medical devices Guidance on the application of ISO 14971
- ISO-109931-Devices-Guidance_FDA 2020
- MDCG 2018-1 Rev.4 Guidance on BASIC-UDI and changes to UDI-DI
- MDCG 2019-16 Guidance on Cybersecurity for medical devices
- MDCG 2019-4 Timelines for registration of device data elements in EUDAMED
- MDCG 2019-5 Registration of Legacy Devices in EUDAMED
- MDCG 2019-7 Guidance on Article 15 MDR-IVDR Person responsible for Regulatory Compliance
- MDCG 2019-9 Summary of safety and clinical performance
- MDCG 2020:6 Guidance_sufficient_clinical_evidence_en
- MDCG 2020-3 Guidance on significant changes
- MDCG 2020-7 Guidance on PMCF Plan Template
- MDCG 2020-8 Guidance on PMCF Evaluation Report Template
- MDCG 2021-1 Rev.1 Guidance solution until EUDAMED is fully functional
- MDCG 2021-19 Guidance note integration of the UDI within an organisation's quality management system
- MDCG 2021-25 application of MDR requirements to 'legacy devices' and to devices placed on the market prior to 26 May 2021
- MDCG 2022-4 Rev. 2 on appropriate surveillance regarding the transitional provisions under Article 120 of the MDR with regard to devices covered by certificates according to the MDD or the AIMDD
- MEDDEV 2_7_1_rev4_en 06:2016
- Recommendation-NB-MED-2_5 2_Rec2_Reporting_of_design_changes_and_changes_of_the_quality



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Summary of clinical data

a) Clinical studies of the medical device(s)

According to Article 61 European Medical Device Regulation, (EU) 2017/745 (MDR) the requirement to perform clinical investigations pursuant to paragraph 4 shall not apply to implantable devices and class III devices:

- which have been lawfully placed on the market or put into service in accordance with Directive 90/385/EEC or Directive 93/42/EEC and for which the clinical evaluation is based on sufficient clinical data, and
- is in compliance with the relevant product-specific CS for the clinical evaluation of that kind of device, where such a CS is available; or
- that are sutures, staples, dental fillings, dental braces, tooth crowns, screws, wedges, plates, wires, pins, clips or connectors for which the clinical evaluation is based on sufficient clinical data and is in compliance with the relevant product-specific CS, where such a CS is available.

The products under evaluation have been lawfully placed on the market and put into service in accordance with Directive 93/42/EEC and the clinical evaluation of these products is based on sufficient clinical data, and is in compliance with the relevant product-specific CS for the clinical evaluation of that kind of device. Therefore, clinical investigations are not necessary to proof clinical safety and clinical evaluation is performed.

b) Clinical evaluation

Extract from the final summary of the clinical evaluation "VITA CAD-Temp and VITA CAD-Temp IS VITA Zahnfabrik" at novineon CRO GmbH January 2024/Rev. 03: "[...] Based on the documentation provided by VITA, we conclude that the potential risks of VITA CAD-Temp and VITA CAD-Temp IS are acceptable residual risks for the patient and the user.

The main risks are described in detail in the scientific literature. Thus, we conclude that the risks of the use of dental machinable polymer blanks are well-documented in the published literature, thus being known to dentists or adequately trained staff (chapter 7.5.3). When complying with all warnings and precautions, the devices under evaluation have an acceptable benefit-risk profile.. [...]"

c) Post market clinical follow-up

PMCF studies may not be required when the medium/long-term safety and clinical performance are already known from previous use of the device or where other appropriate post-market surveillance activities would provide sufficient data to address the risks.

The indication and treatments of VITA dental medical devices are well-known clinical



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procedures. The basic principles of using dental material are the same since the beginning of the 20th century. The compliance to the DIN EN ISO 10477 applicable for polymer-based crown – and bridge material ensures the safe use of the products also in the clinical aspect.

The VITA post market monitoring collects clinically relevant data to an extent that fulfills the requirements of the European Medical Device Regulation, (EU) 2017/745 (MDR) in order to adequately assess and confirm the safety of medical devices. Therefore, no PMCF studies are required for VITA CAD-Temp® IS and therefore, also not part of this SSCP.

d) Conclusion of clinical performance and safety of the medical device(s)

VITA always ensures the clinical safety of its products, even after they have been placed on the market, by constantly updating the clinical evaluation of its medical products and monitoring them on the market in accordance with the requirements of the European Medical Device Regulation, (EU) 2017/745 (MDR) and according to MEDDEV 2.7/1 revision 4.

For VITA CAD-Temp® IS it can be said that the clinical evaluation of the products clearly states the clinical safety and performance. There is no doubt about the safety and reliability of the products. They can be used safely in the manner communicated by VITA with regard to indications, contraindications, compliance with safety instructions and residual risks.



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Suggested profile and training of users

VITA dental products are designed for use by professional users. This specification is made clear by the labeling of VITA products with the symbol "Rx only". The specialist users are dentists and dental technicians who have excellent prior knowledge in the use of our products due to their many years professional training and/or university education. Follow-up training is the responsibility of the expert users and is offered by VITA specifically for VITA products. This guarantees safe handling of VITA products at every point in the application process.

Information on residual risks, undesirable effects and warnings and precautions

a) Residual Risks

Information on product-specific residual risks can be found on the VITA homepage at Downloadcenter. Produktsicherheit (vita-zahnfabrik.com)

Please be aware, that these are possible complications and residual risks of the dental product group in general, and not specific to VITA materials.

These risks must be communicated to the patient by trained personnel (e.g., dental professionals).

b) Undesirable effects

There are no known undesirable effects for the products.

- c) Warnings and precautions
- While work is in progress, wear suitable safety goggles/face protection, gloves and safety clothing. In case of formation of dust, use an extraction system or wear a face mask.









