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PROLINK
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Asst. Prof. Julija Zarkova Atanasova

Heron™ IOS

OVO

3DISC Taking Digital Beyond

TRANSFORMING SMILES: A JOURNEY INTO DIGITAL DENTISTRY

Asst. Prof. Julija Zarkova Atanasova

St. Regis Hotel, Dubai,2024

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DentiMax Dental Office

Our team

Meet the team that will create your smile at an enviable level.

Christian Tashkovski

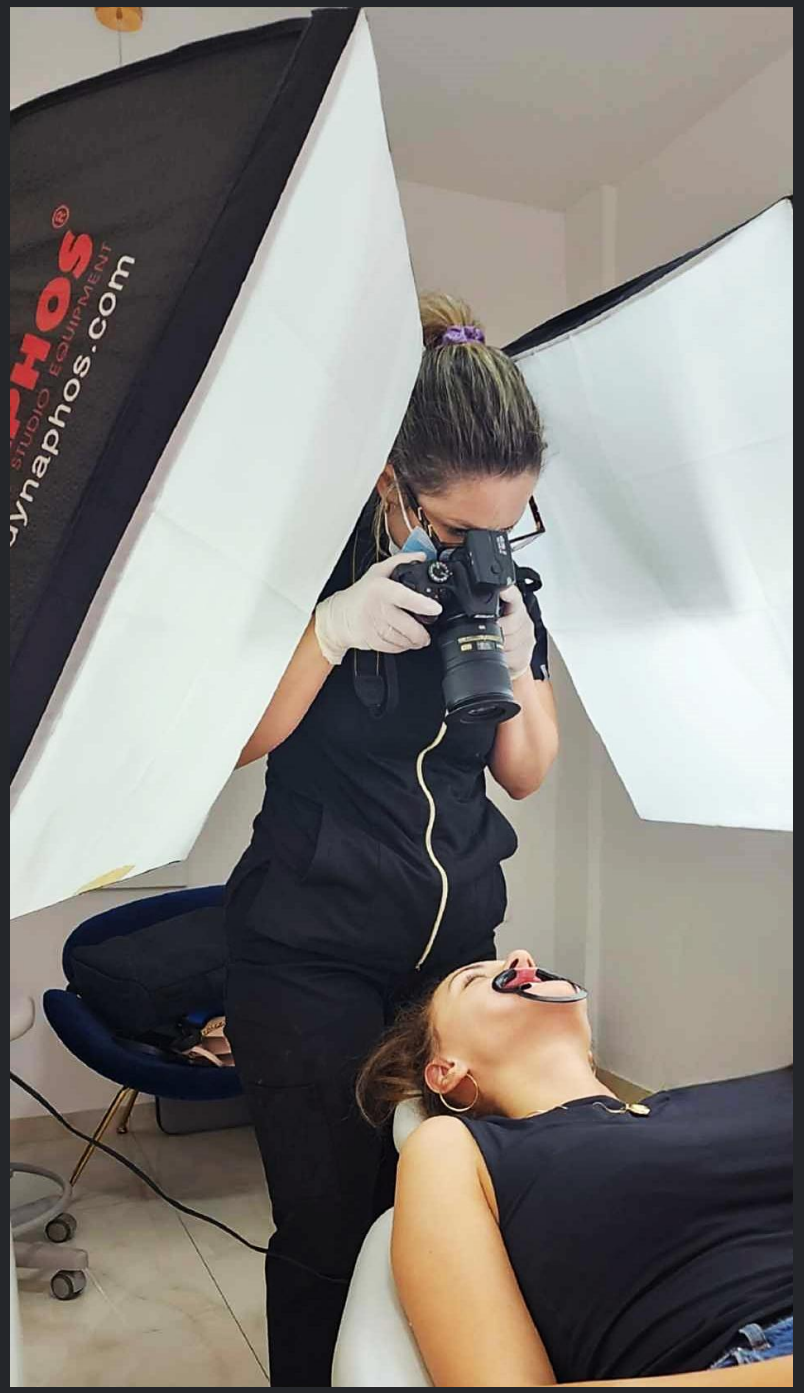
Specialist in orthodontics

Creative, detail oriented, always focused.

Julia Zarkova Atanasova

Specialist in dental prosthetics

Experienced, ambitious, ready to meet all challenges.


STUDIO EQUIPMENT
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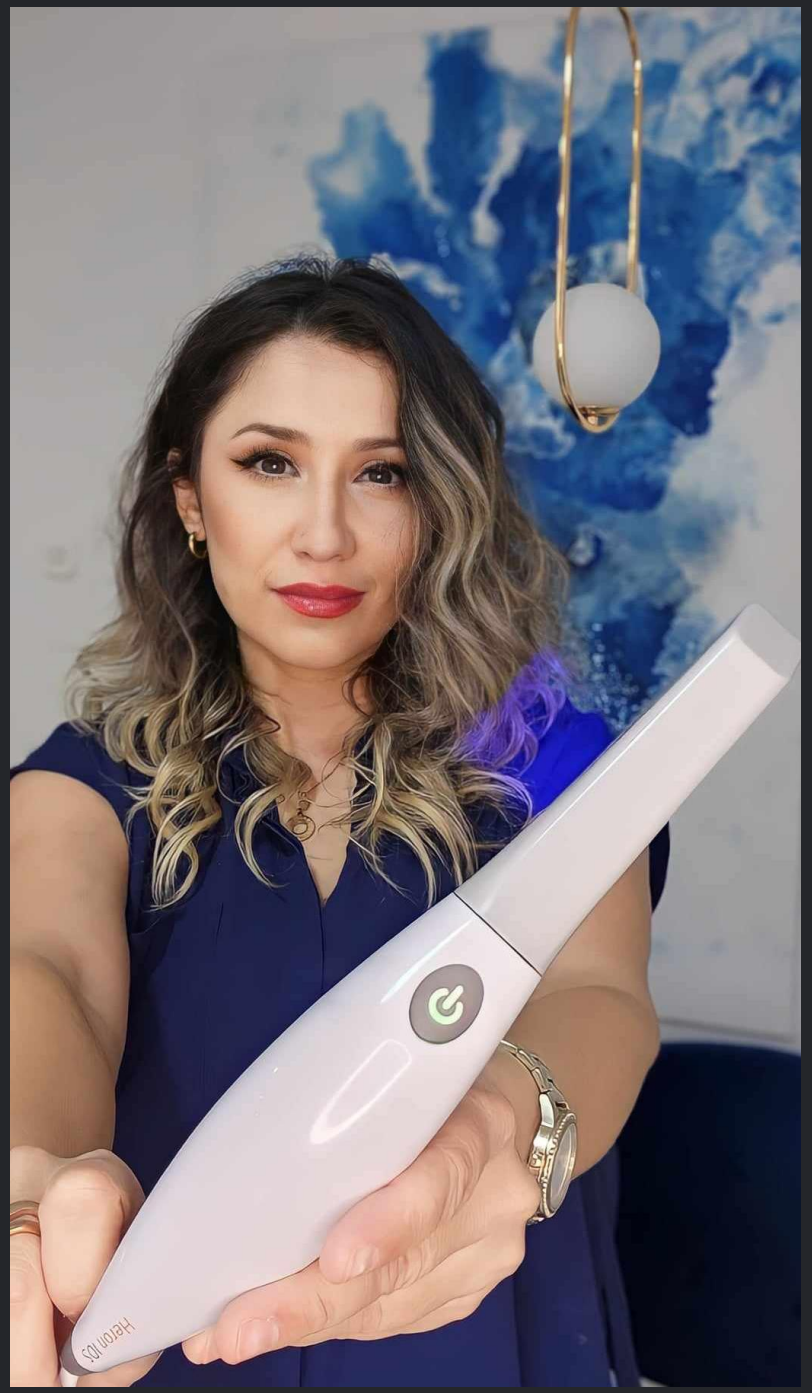
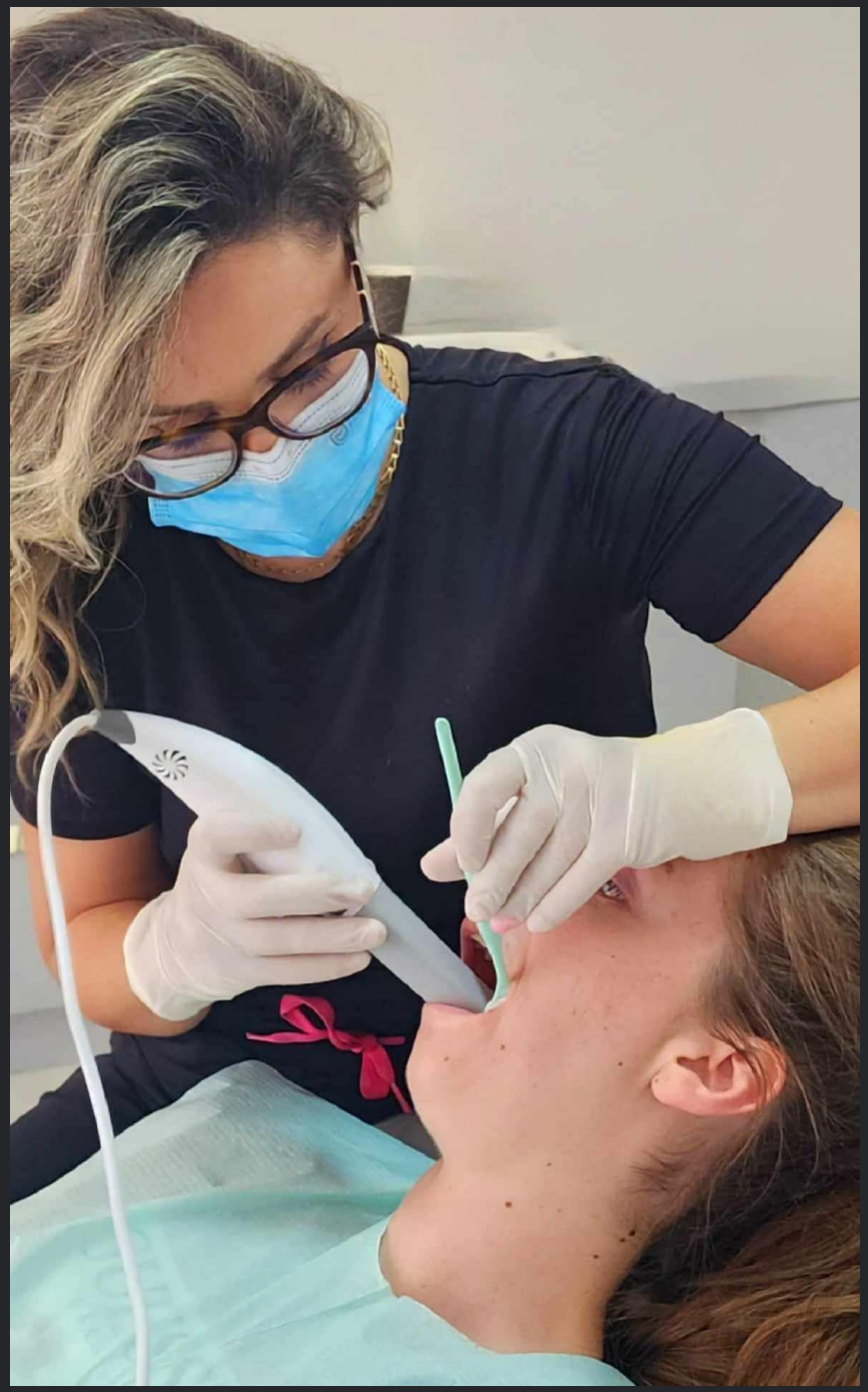

Heron Bs

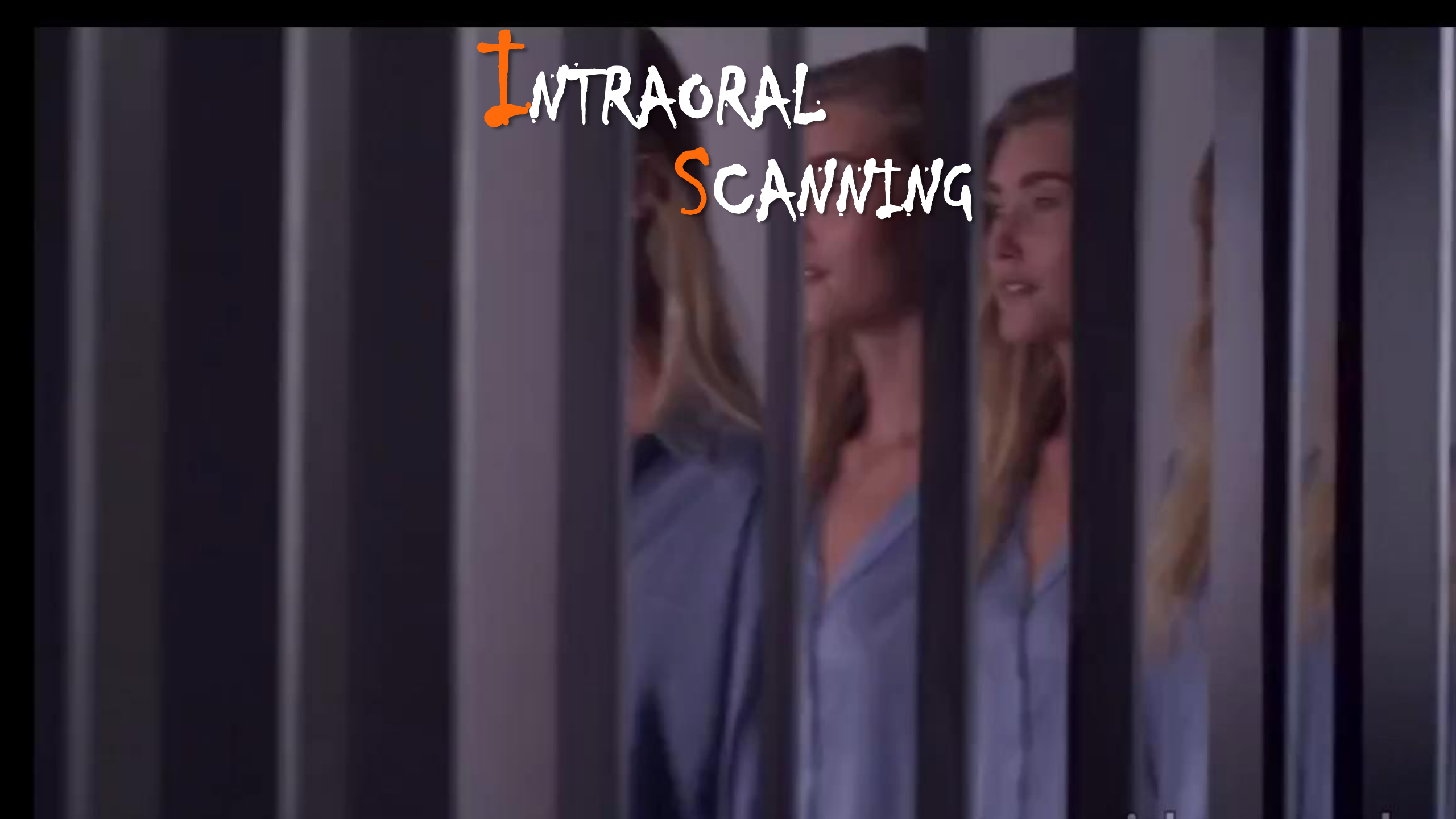


2012

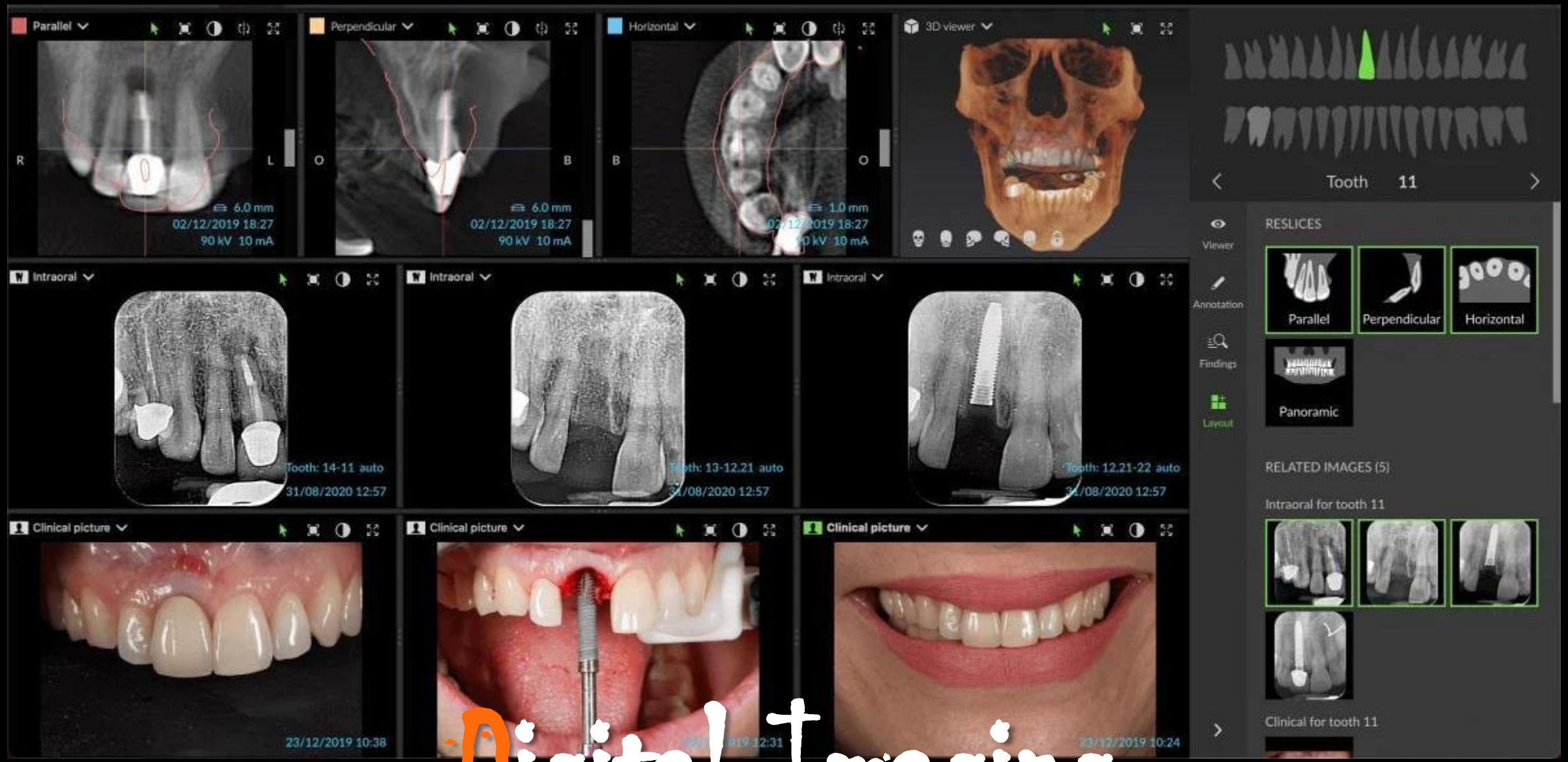
STRATING THE JOURNEY

INTO DIGITAL DENTISTRY

Digital dentistry

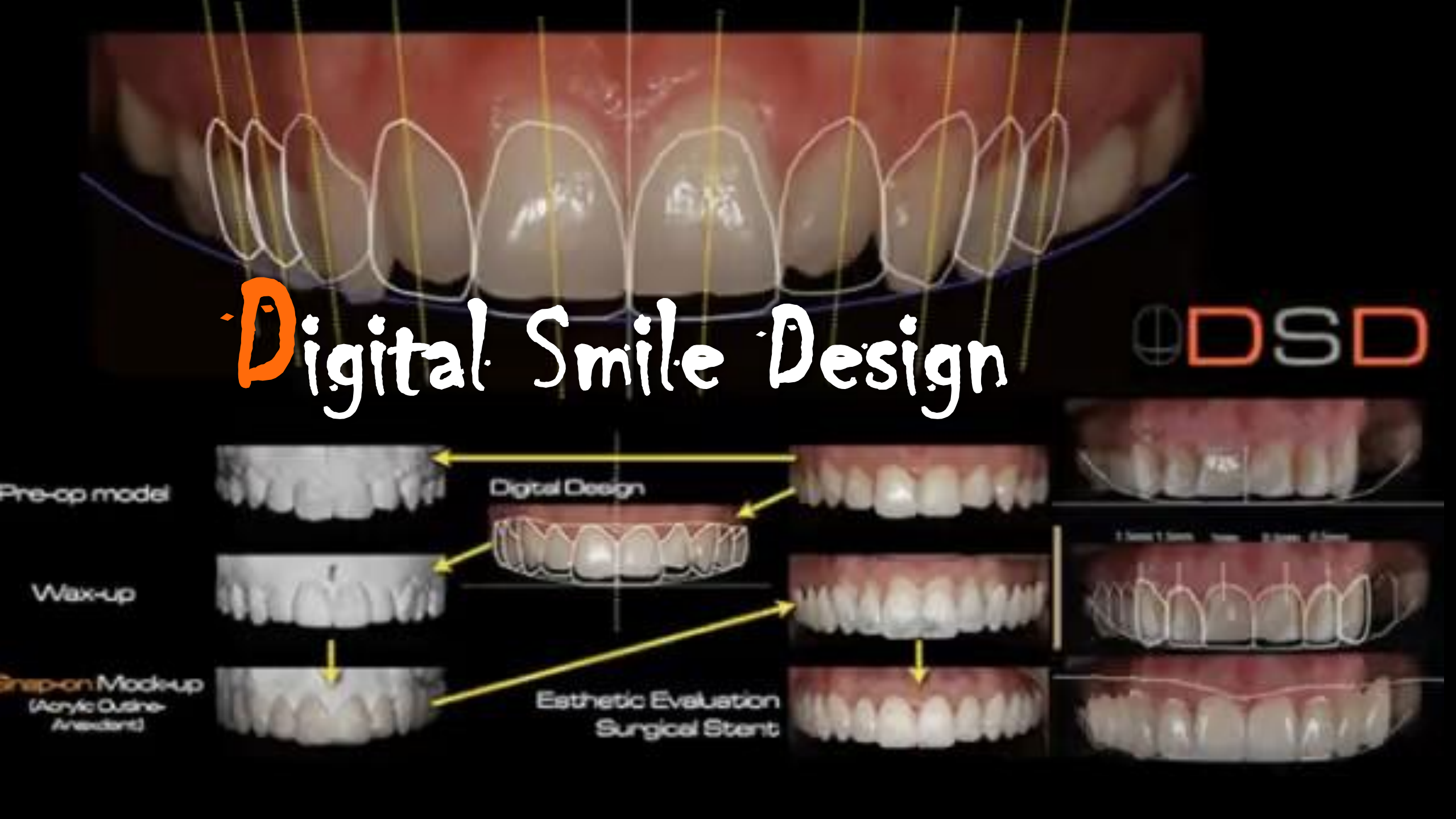

INTRAORAL
SCANNING

3D Printing



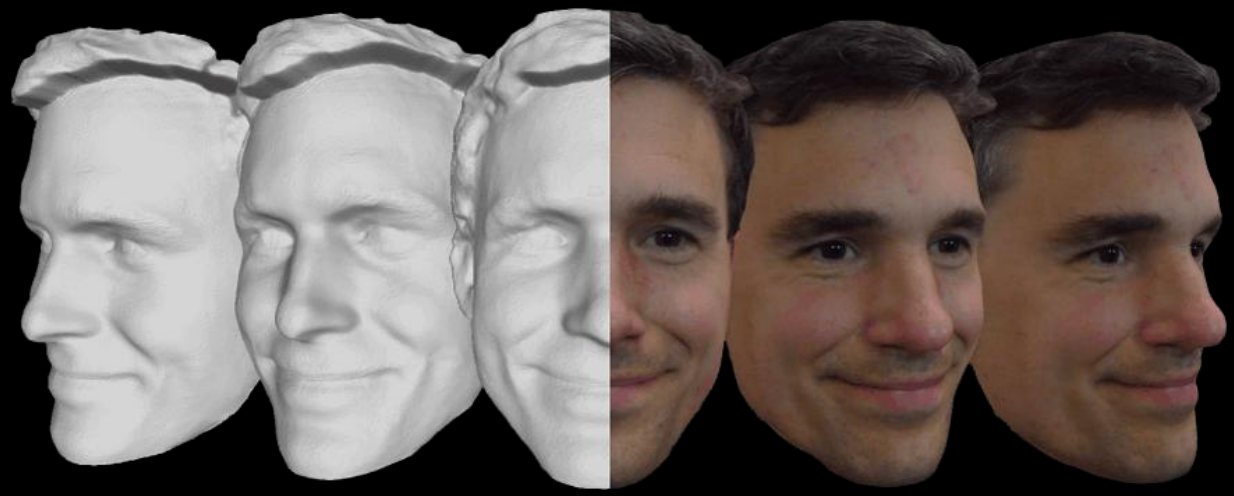
Digital Imaging

Digital Smile Design



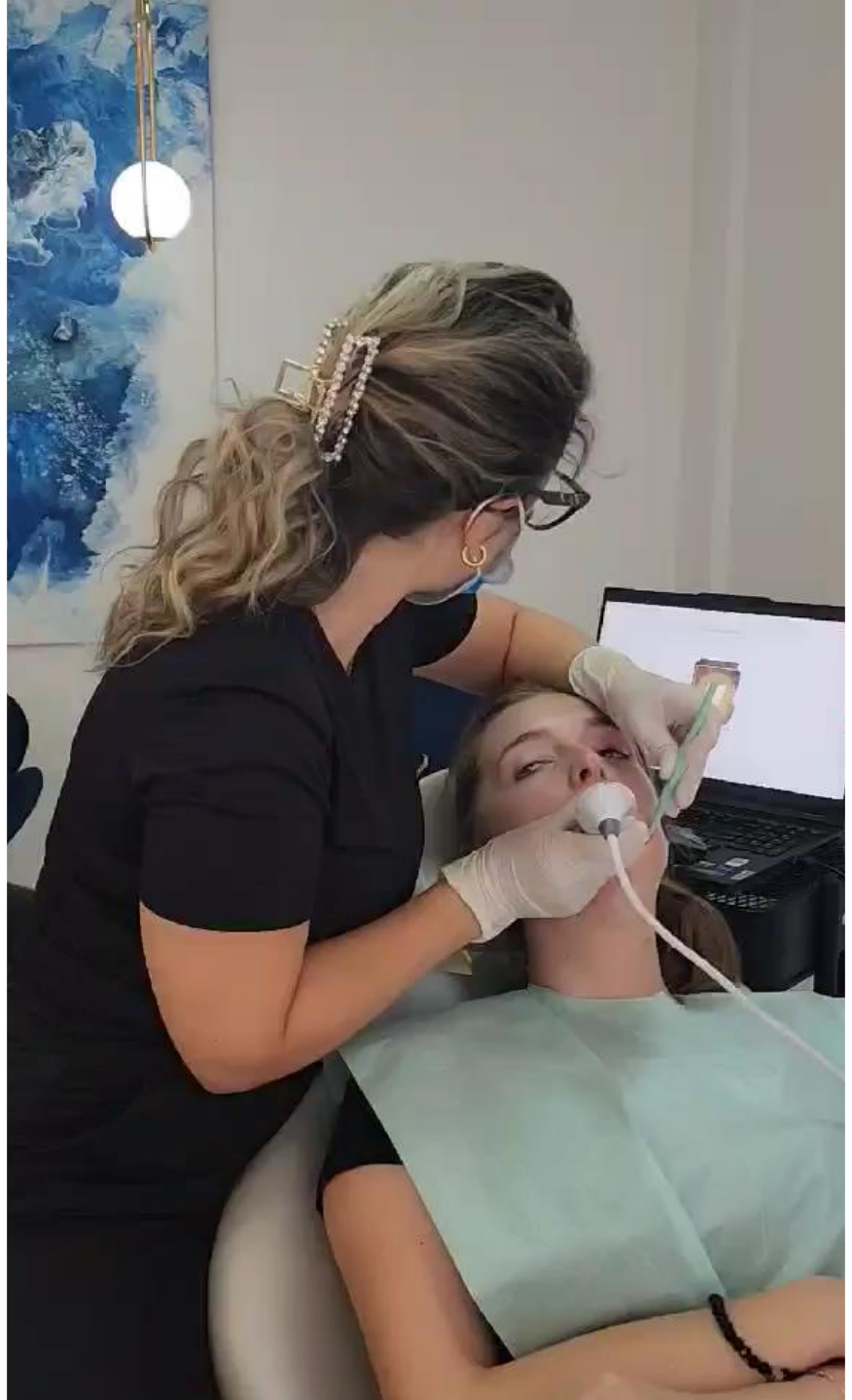
Artificial intelligence and virtual reality

3D face scans




Digital articulator

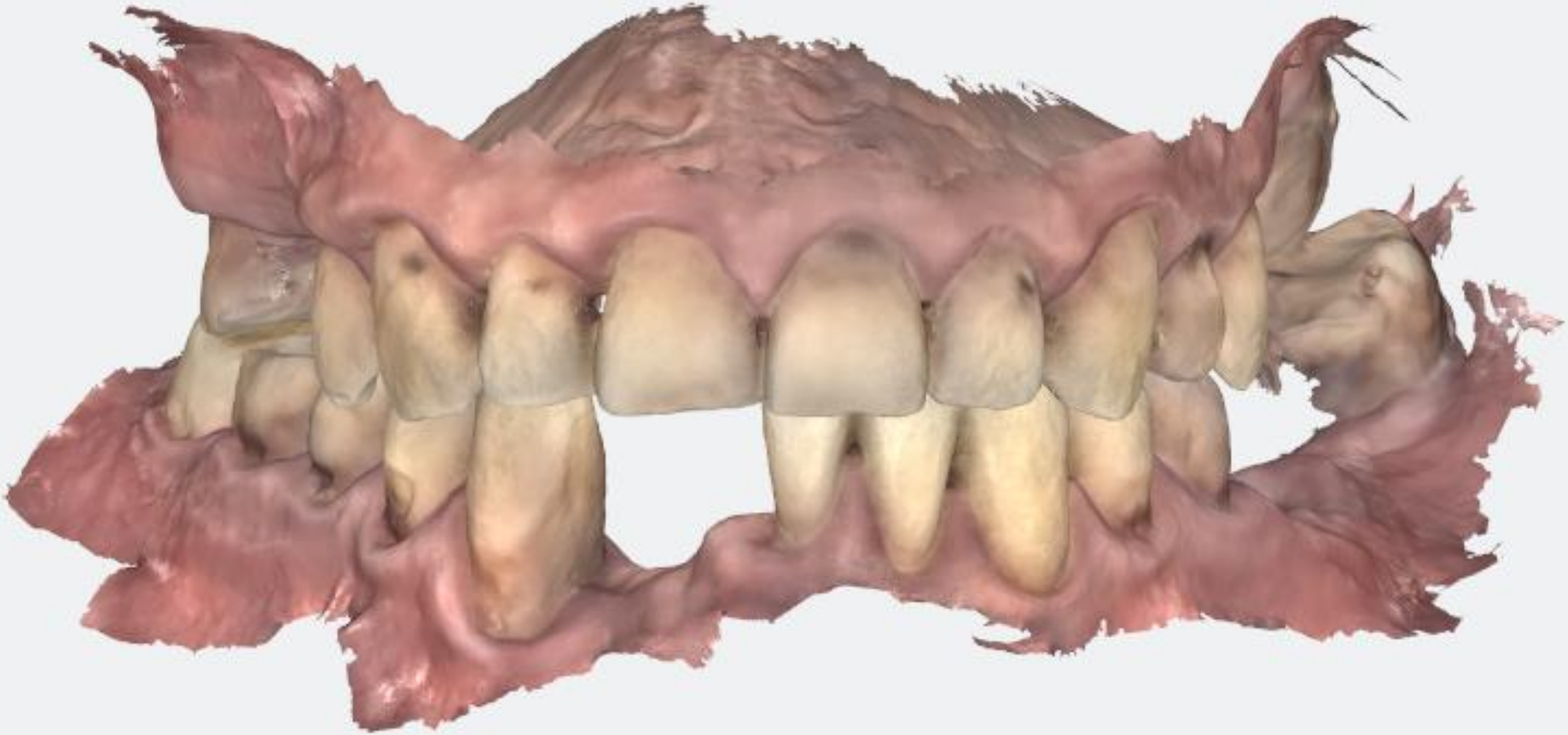
Photogrammetry

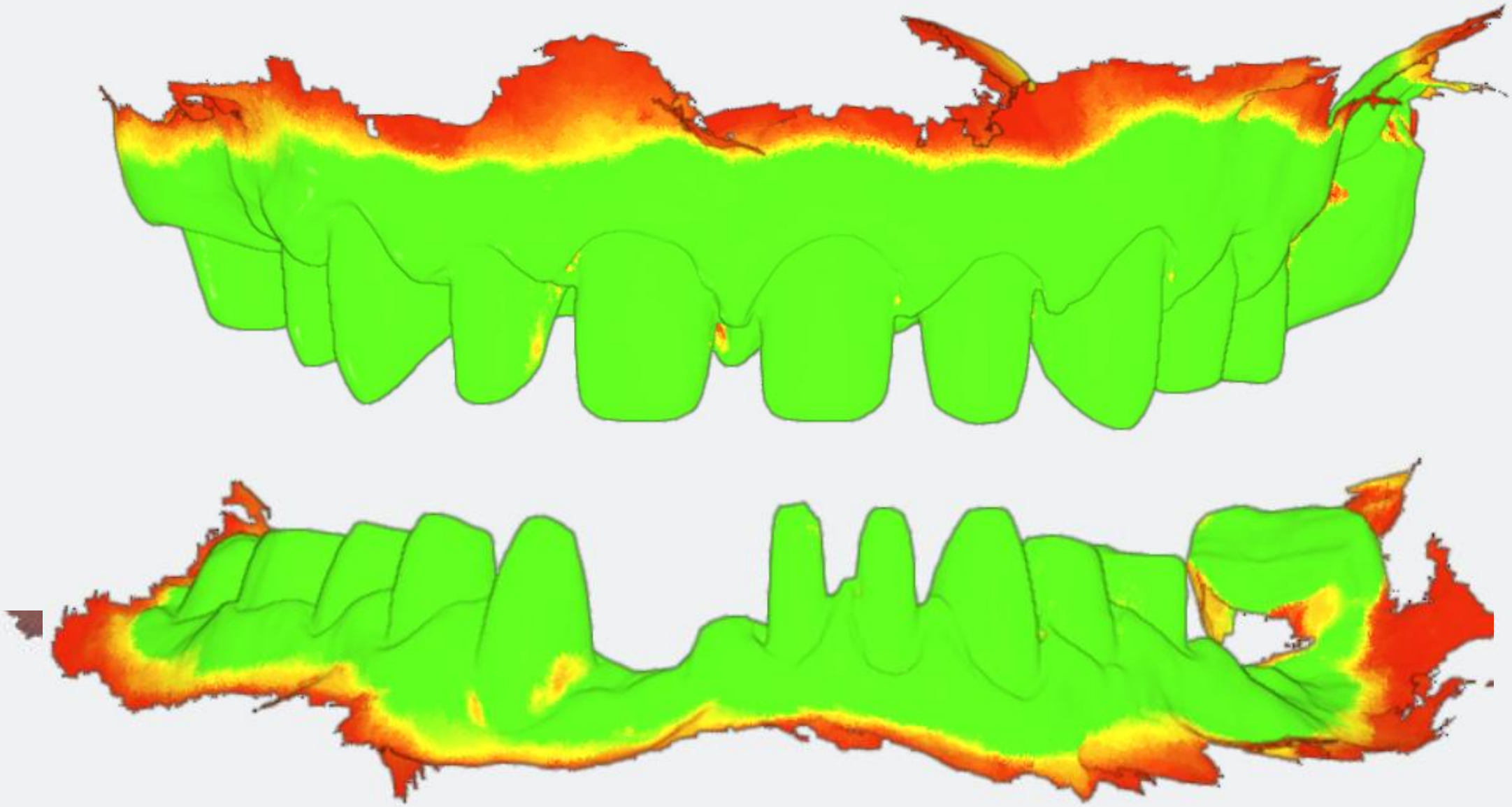


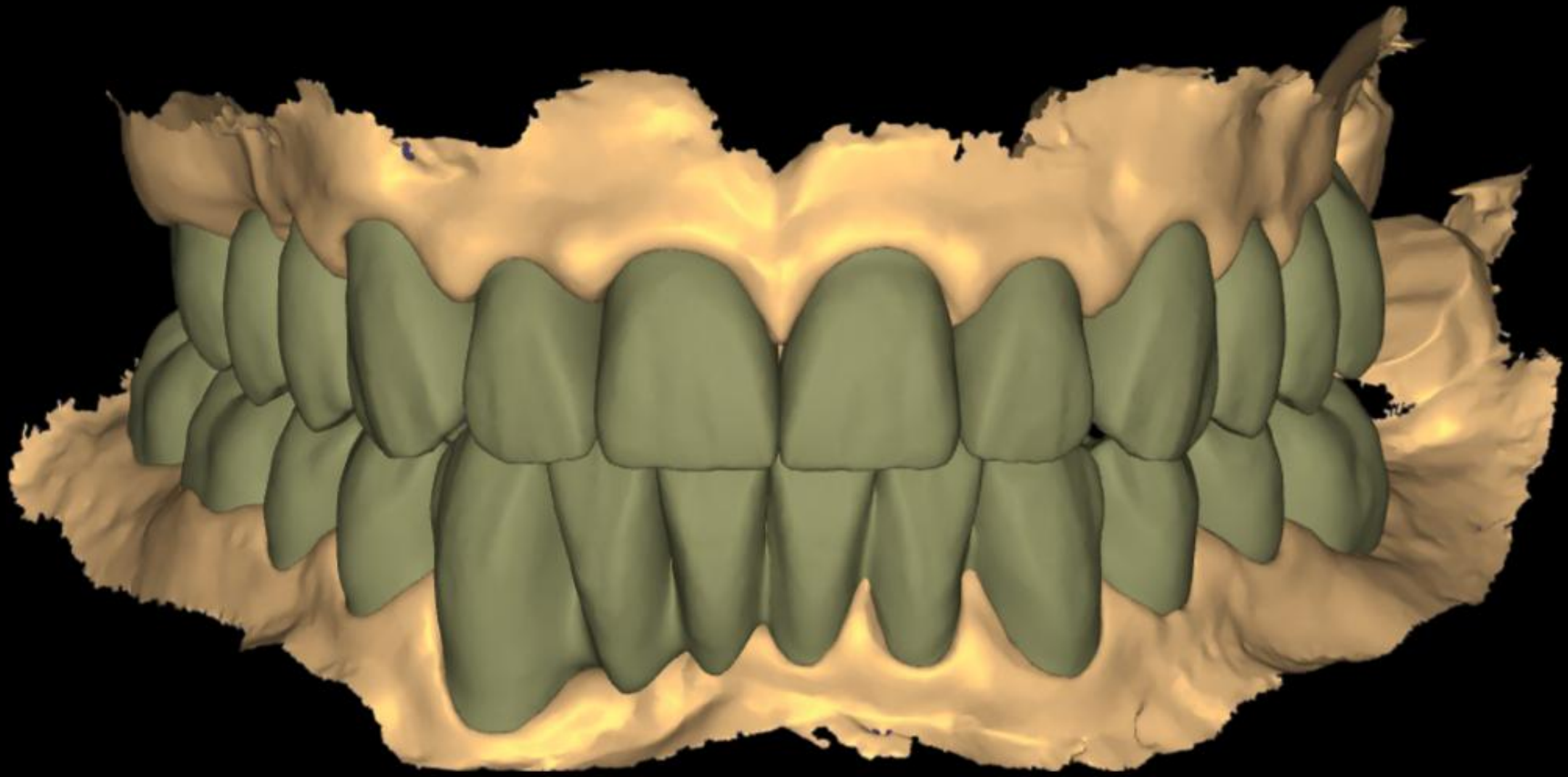

Esthetics

45 y old, male

Panoramic Xray







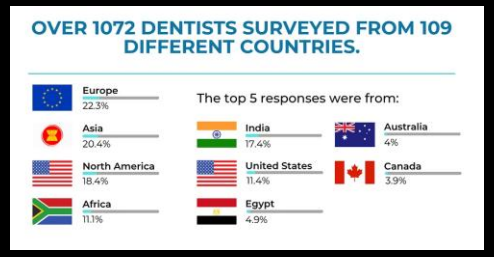
To be continued...

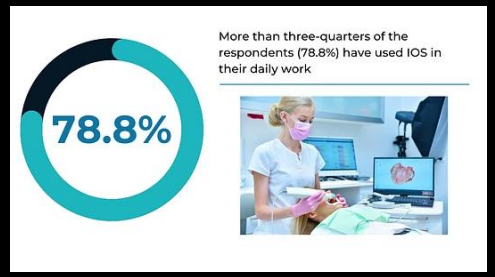
Advantages

- ✓ Time saving and efficiency
- ✓ Pleasant for patient no gag reflex or bad taste of materials
- ✓ Predictability and treatment plans
- ✓ No silicone impressions', no waste, ecological
- ✓ Easy communication with lab even a far away one
- ✓ Better patient communication and treatment plan acceptance
- ✓ Accuracy of impressions
- ✓ Save storage space and transport
- ✓ Segmental impressions, deleting part and rescan, start, stop ang go whenever you want, do everything you can't with analog impressions.

Literature data

1072 analyzed answers from 109 countries





The respondents also identified the **main disadvantages** of their **chosen devices**, with **price** being the **most commonly mentioned** (**29.8%**, n=333), followed by scan speed (13.9%, n=155), software quality (10.3%, n=115), support service (8%, n=89), and the training course provided (7.1%, n=80).

INTERNATIONAL DENTAL JOURNAL 73 (2023) 754–759

Scientific Research Report

User Experience of Intraoral Scanners in Dentistry: Transnational Questionnaire Study

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ARTICLE INFO

Article history:
Received 25 January 2023
Received in revised form
30 March 2023
Accepted 1 April 2023
Available online 5 May 2023

Key words:
Digital dentistry
Intraoral scanner
Survey
User experience

ABSTRACT

Introduction: Intraoral scanners (IOS) are continuing to gain popularity in clinical dentistry, replacing the traditional impression-taking and related technology. Despite their increasing importance, there are few data on the utility and usage of IOS amongst dentists. This study investigates the user experience of IOS technology as well as the perceived quality of a variety of IOS used by dental clinicians worldwide.

Methods: An online survey of 1072 dentists was conducted to elicit data on the number of individual IOS used, their accessibility, the maintenance fees, and the programmes used. The first part of the questionnaire included demographic data and related questions, whilst the second part focussed on the specific IOS used by the respondents and the satisfaction with their scanners.

Results: We surveyed 1072 respondents from 109 different countries. More than three-quarters of the survey cohort (78.8%) use IOS in their daily work, whilst 21.17% do not. The average number of scanners owned by the respondents was 1.5 (±0.9), and in total, the cohort used 36 different types of IOS. More than one-third (38.6%) of the respondents used computer-aided design (CAD) software as well. As for the frequency of IOS usage, 51.5% used the system on a daily basis, 28.2% did so 2 to 3 times a week, and 10.0% did so once a week. Overall, the top 3 IOS used by the cohort were Medit i700 followed by wireless Medit i700 and Dentsply Sirona Primescan.

Conclusions: This study describes, for the first time, the IOS user experience in an international cohort. More than 75% of the respondents used IOS on a daily basis in their practice, whilst Medit and Dentsply Sirona brands were the most popular scanners amongst the group. It appears that digital impression-taking technology is universal, and digital workflow in dentistry will continue to grow.

Introduction

Computer-aided design/computer-aided manufacturing (CAD/CAM) technology was introduced to dentistry in the 1970s.[1] Prior to that, dental professionals mainly used traditional manual techniques for various dental procedures such as impression-taking and fabrication of prostheses. These procedures are labourious, cumbersome, and relatively inaccurate compared with the newer technologies.[2]

Intraoral scanning (IOS) is a newer technology widely used with CAD/CAM for milling machines (subtractive technology) and 3D printers (additive technology). Using these tools, the

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[1] Ahmad Al-Hassiny and Dániel Végh are shared first authors.
https://doi.org/10.1016/j.identj.2023.04.002

Conclusion

Dedication Discipline Commitment

AFTER THIS, THERE IS NO TURNING BACK

THANK YOU FOR YOUR ATTENTION !!!

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