

CHAPTER 07:

Documentation

Software Database



Documentation & Communication in Interdisciplinary Dentistry

Adopting a software for functional evaluation

„Without a standardized documentation and diagnosis, any invasive therapy is hazardous.“

R. Slavicek

What is a Medical Record?





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A medical record, health record, or **medical chart** is a **systematic documentation** of a patient's medical history and care.

Purpose

The information contained in the medical record allows health care providers to provide continuity of care to **individual** patients. The medical record also serves as a **basis for planning patient** care, documenting **communication** between the health care provider and any other health professional contributing to the patient's care, assisting in **protecting the legal interest** of the patient and the health care providers responsible for the patient's care, and documenting the care and services provided to the patient. In addition, the medical record may serve as a **document to educate medical students**/resident physicians, to provide data for internal hospital auditing and **quality assurance**, and to provide **data for medical research**. Personal health records combine many of the above features with portability, thus allowing a patient to share medical records across providers and health care systems.



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Therefore, a dental documentation should...

- a. Be systematic
- b. Be individual to the patient
- c. Be individual to the practitioner
- d. Serve as the basis of case planning
- e. Serve as the basis of communication
- f. Protect legal interest
- g. Increase the quality of dental work
- h. Provide data for research
- i. Provide data for education



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Systematic Documentation

- Planned
- Comprehensive
- Logical
- Standardized
- Traceable
- Reliable

Individual Adaptable

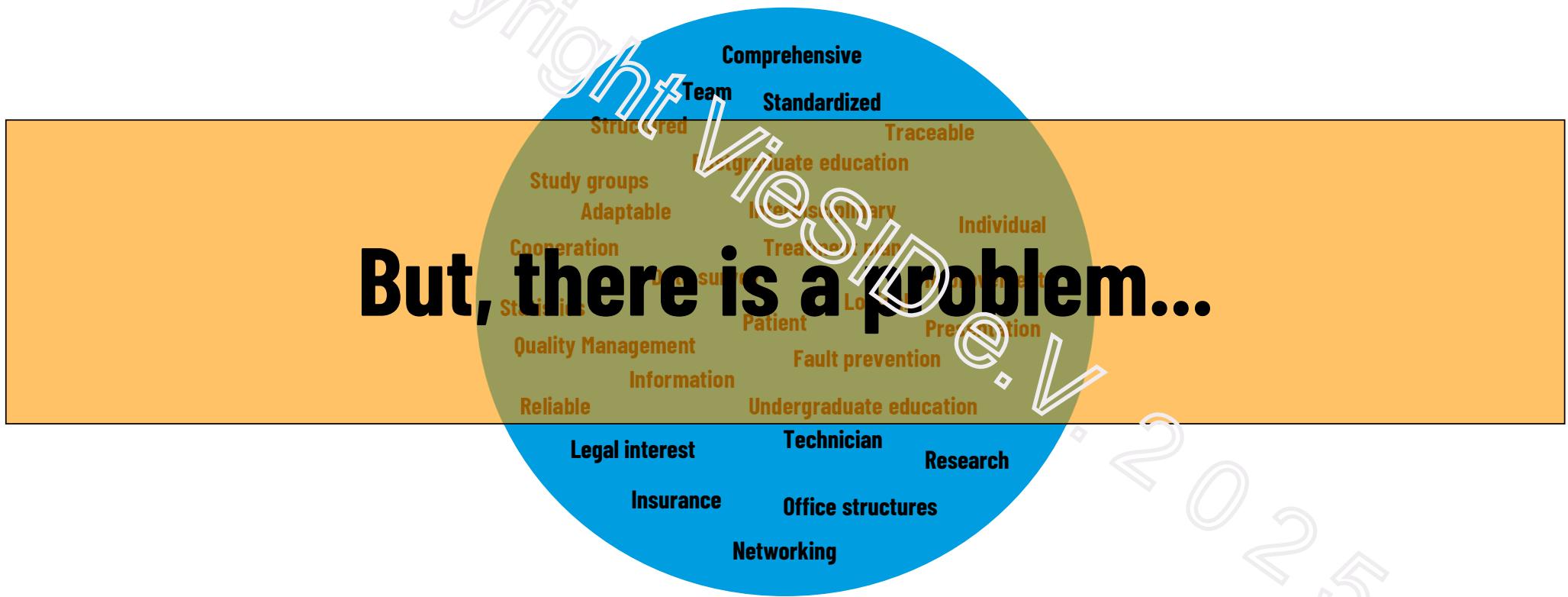
- Flexible in modification for individual needs
- Flexible to adapt to office structures
- Flexible to adapt to patient collective
- Flexible to adapt to needs of individual dental/medical disciplines

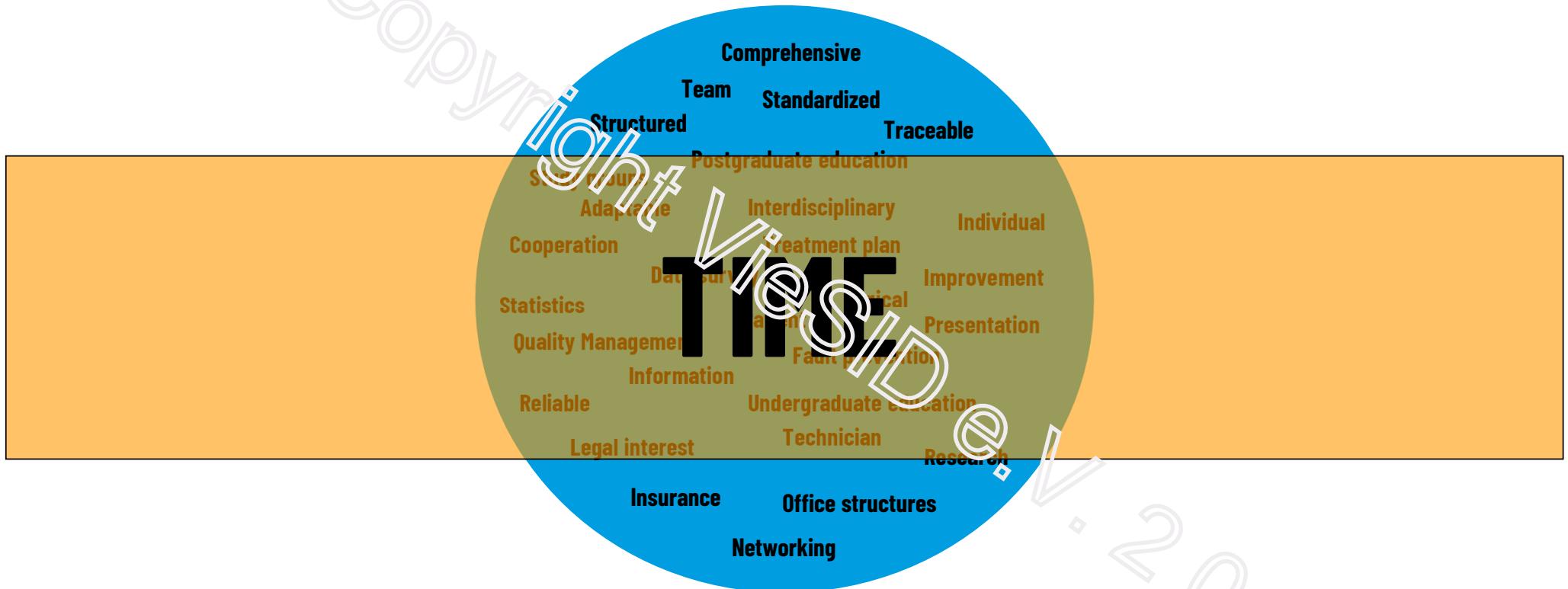
Documentation = Communication

- Patient
- Team
- Dental Technician
- Information exchange in interdisciplinary cooperation
- Education
- Research
- Legal issues
- Insurance companies
- Quality Management

Summary of Functions & Attributes of the Dental Documentation Task

But, there is a problem...





Diagnostic Data Collection

(According to the VieSID Student Case Presentations)

- Patient main concern (1)
- Medical Analysis (12)
- Dental History Analysis (19)
- Occlusal Index (1)
- Muscle Diagnosis (15)
- Preliminary Brainstem Nerve Analysis (12)
- Chronic Pain Analysis (8)
- Photos from the face (6)
- Intraoral photos (6)
- Model photos RCP (6)
- Model photos ICP (6)
- Anterior guidance photos and calculation (4)
- Mechanic CPM Evaluation (4)
- Occlusogram ICP (1)
- Occlusogram Bruxing (1)
- Brux-Checker max. (1)
- Brux-Checker mand. (1)
- Panoramic Xray (1)
- Lateral Ceph (1)
- Lateral Tracing Slavicek (1)
- Lateral Tracing Sato (1)
- Verbal Analysis Slavicek (1)
- Numerical Analysis Slavicek (1)
- Numerical Analysis Sato (1)
- Condylography
 - - Protrusion (1)
 - - Medio Right (1)
 - - Medio Left (1)
 - - Open/Close (1)
 - - Bruxing (1)
 - - Chewing (1)
 - - Speech (1)
 - - ECPM (1)
- Articulator Programming (1)
- Cusp Coordinates (1)
- Wax-Up Table (1)
- Incisal Table Calculation (1)

Problem of...



The solution within VieSID

GAMMA Document Browser

The main focus of this software is case documentation, data survey and data presentation.

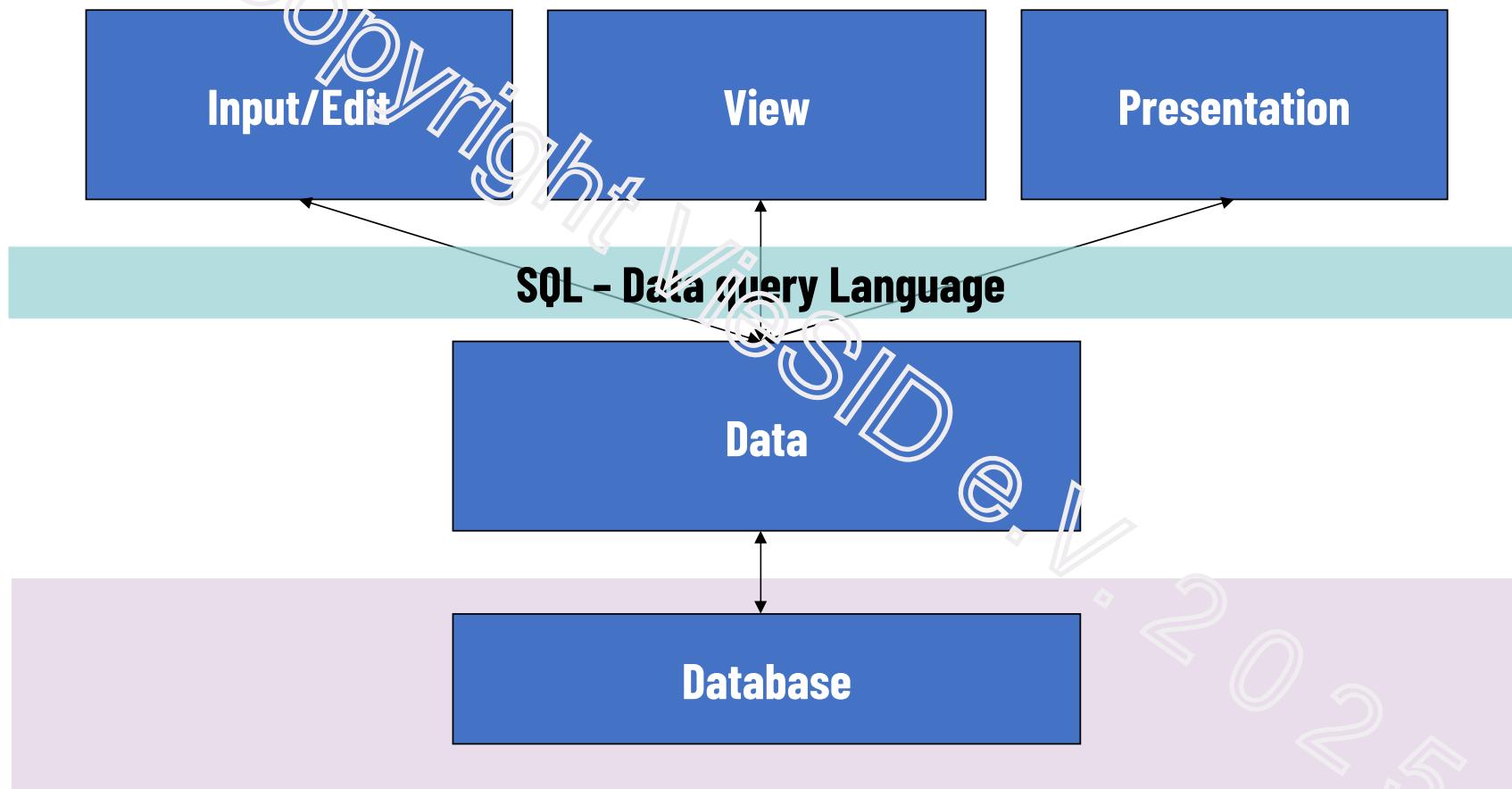
GAMMA Document Browser

Powerful & flexible database

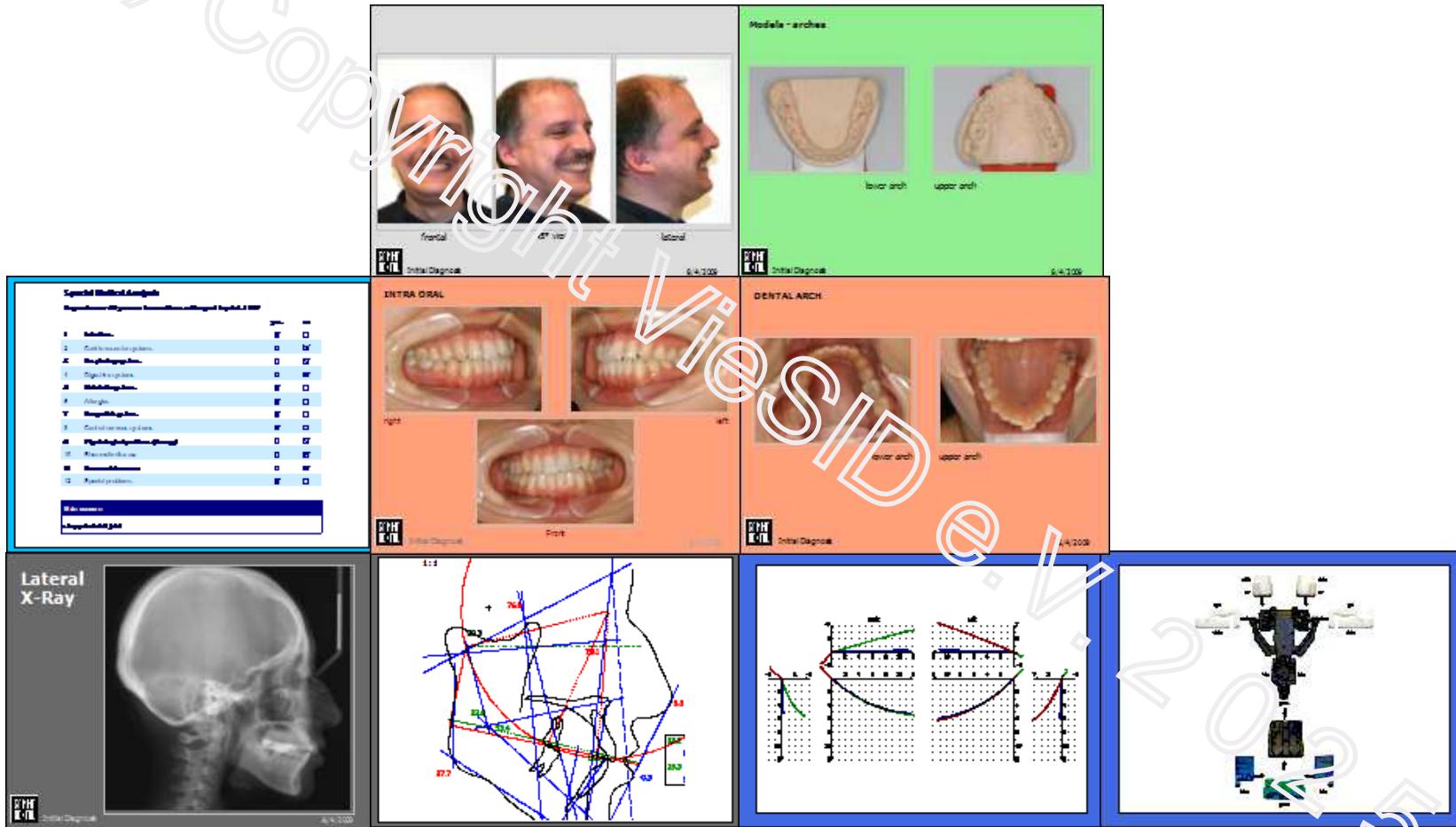


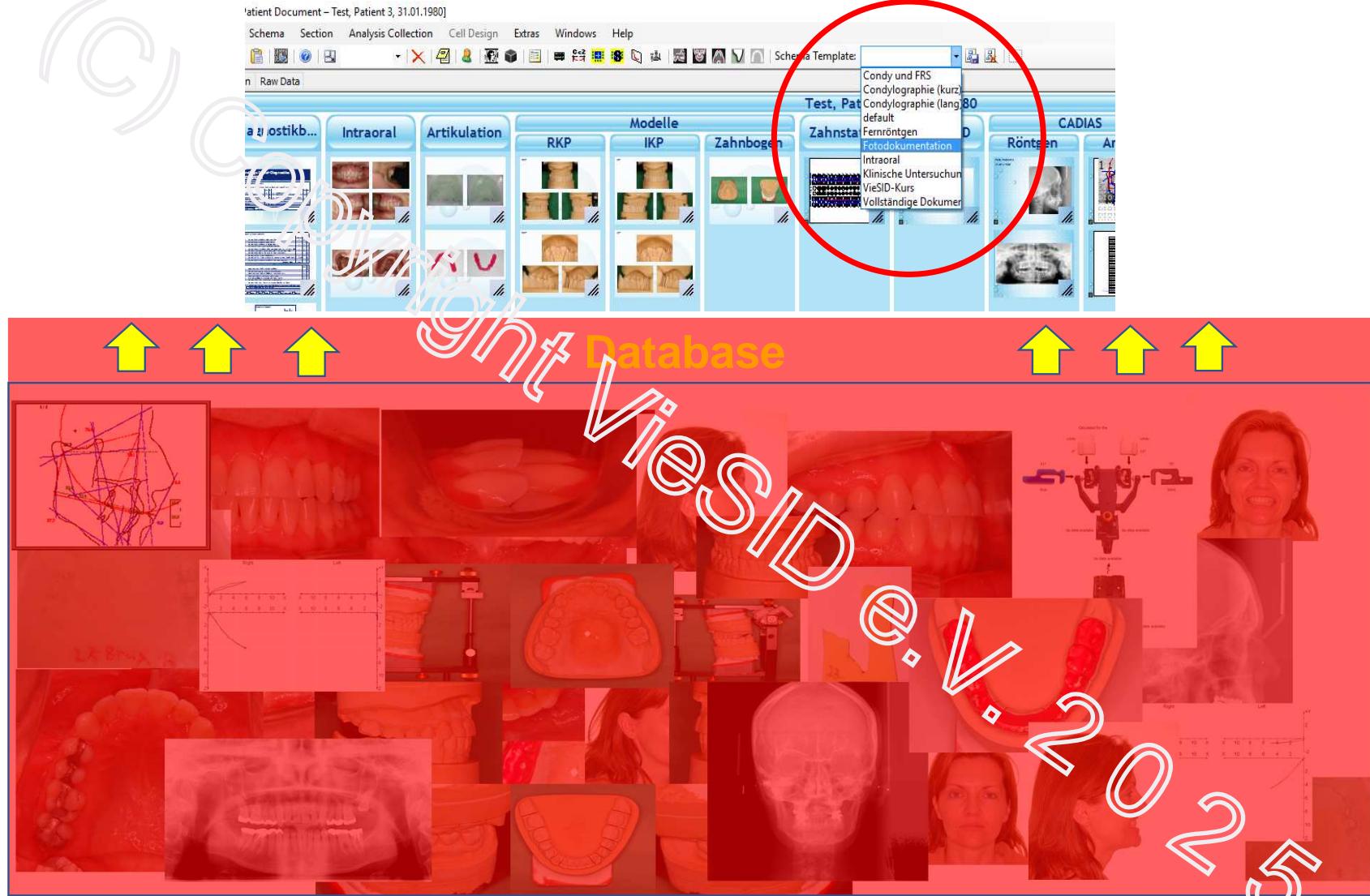
Individual and immediate presentation of data

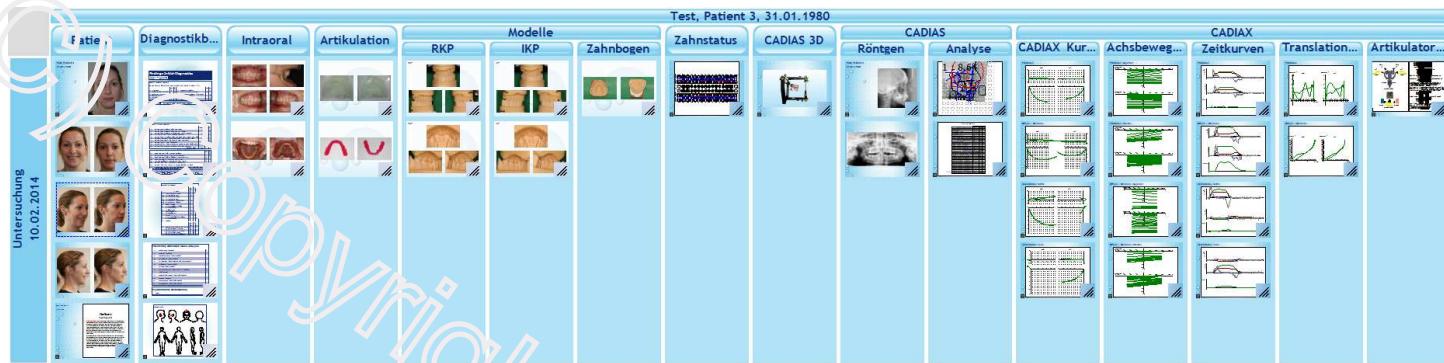
Software was developed in a multi-layer design

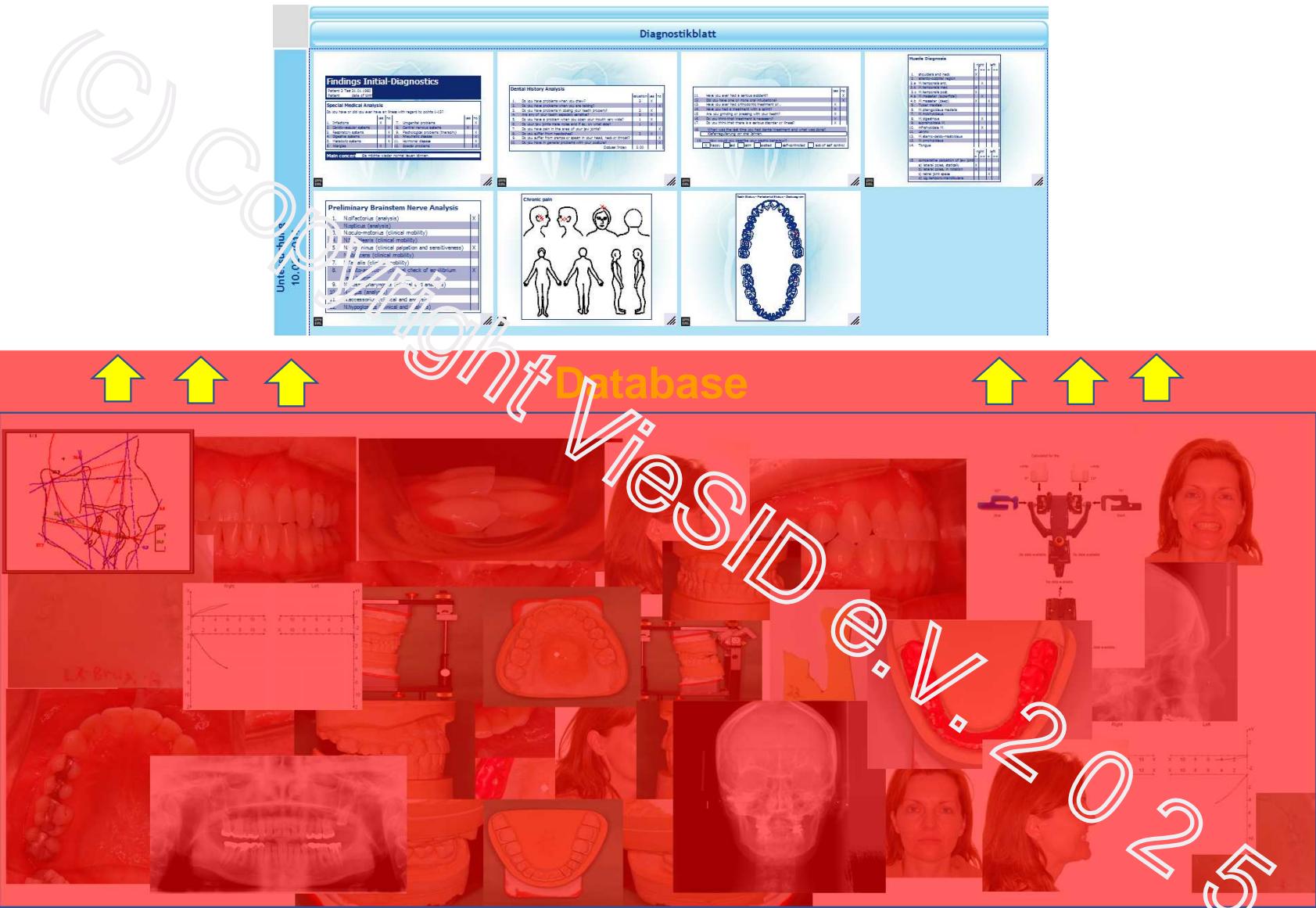


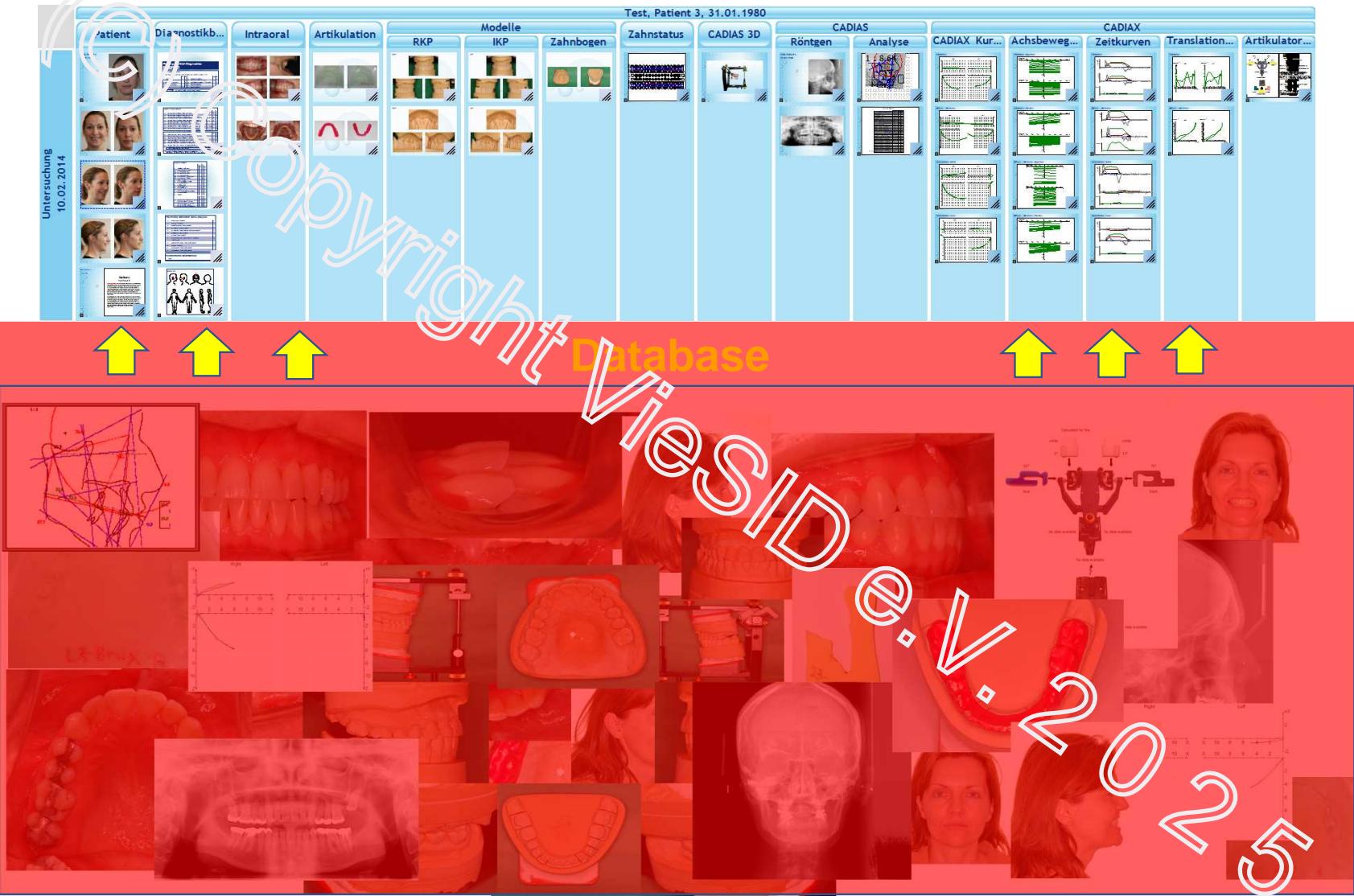
Once the data is classified and stored it can be accessed by the view and presentation layer: **THE ORGANIZED VIEW**



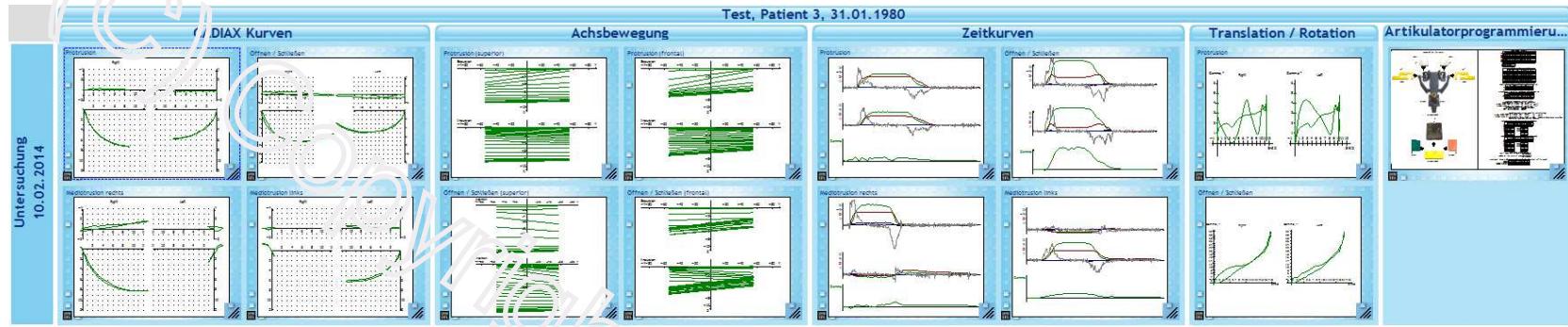












The smallest unit of a view is a Cell

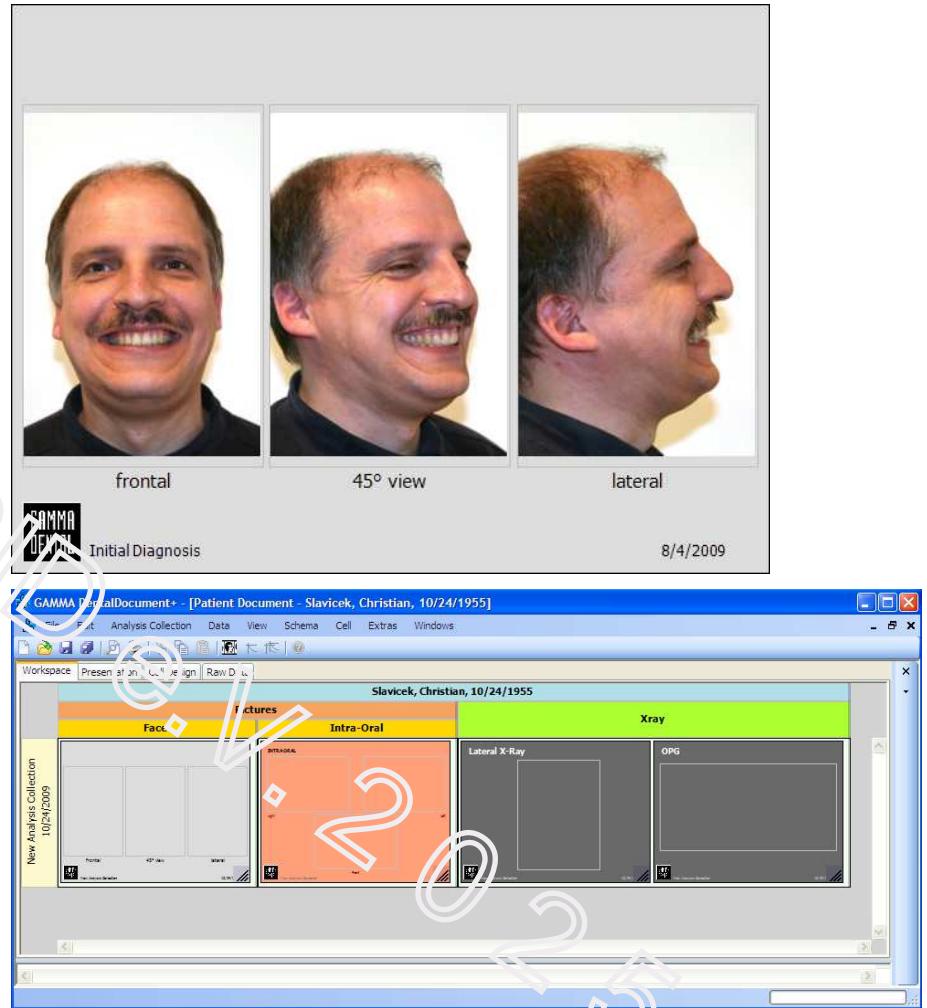
- o Data elements
- o System elements
- o Text elements
- o Design elements



Cells are displayed in an individual order in so-called diagnostic sections. The sum of all these section is the schema. The schema is the view (or workspace) of details of the actual patient.

Sections have a hierarchical order in order to structure the records of a patient:

Patient	Pictures	Face Intra-Oral
	X-Rays	Lateral Ceph OPG





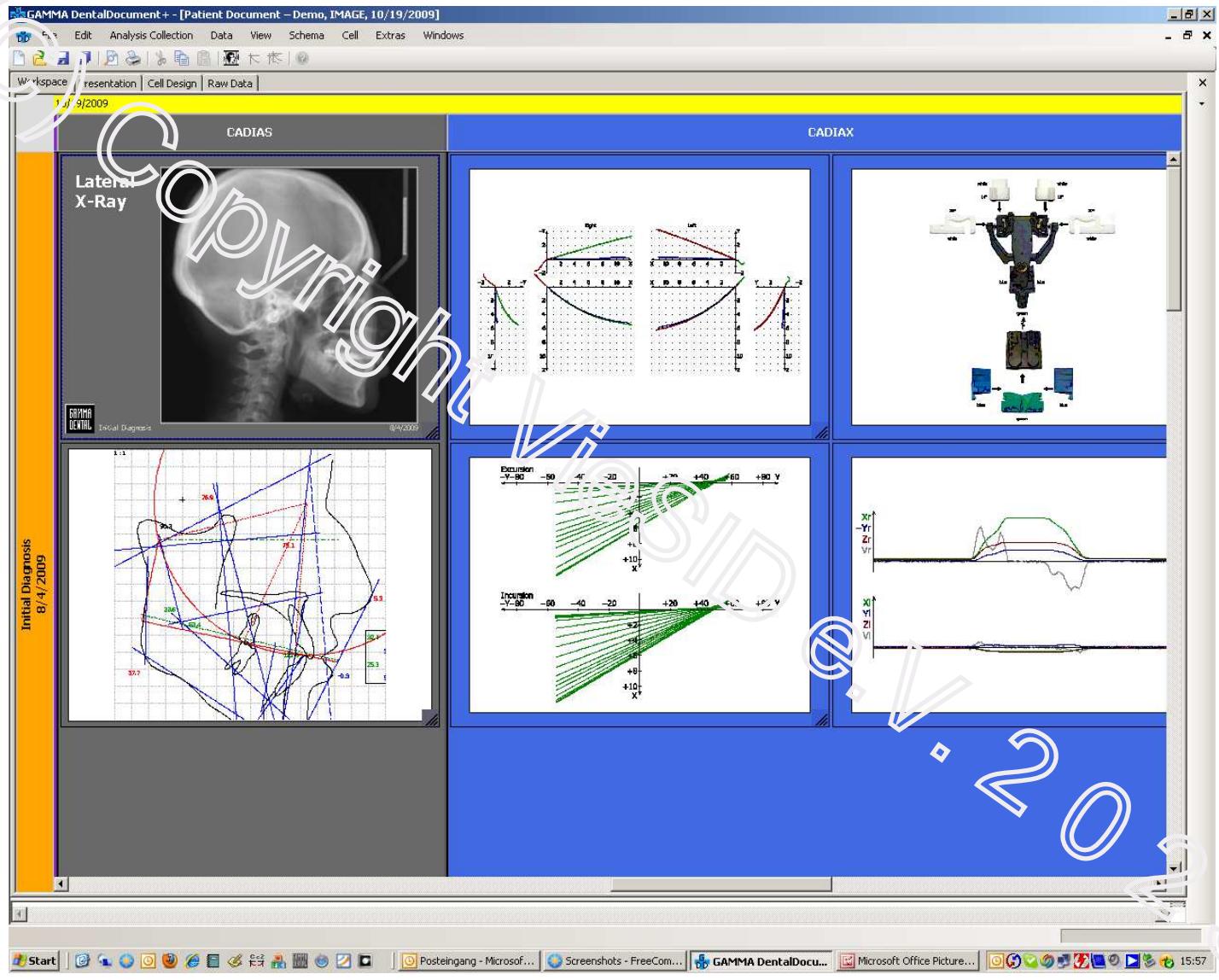
There can be a 'unlimited' number of sections and sub-sections.

The total schema (including cells) is to be defined by the user and can be stored in a list of template views in order to apply the same view as standard to all New patient records.

Any templates can be shared among the user of the software.



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GAMMA DentalDocument+ - [Patient Document – Demo, IMAGE, 10/13/2009]

File Analysis Collection Data View Schema Cell File Extras Windows

Workspace | Presentation | Cell Design | Raw Data |

Medical history

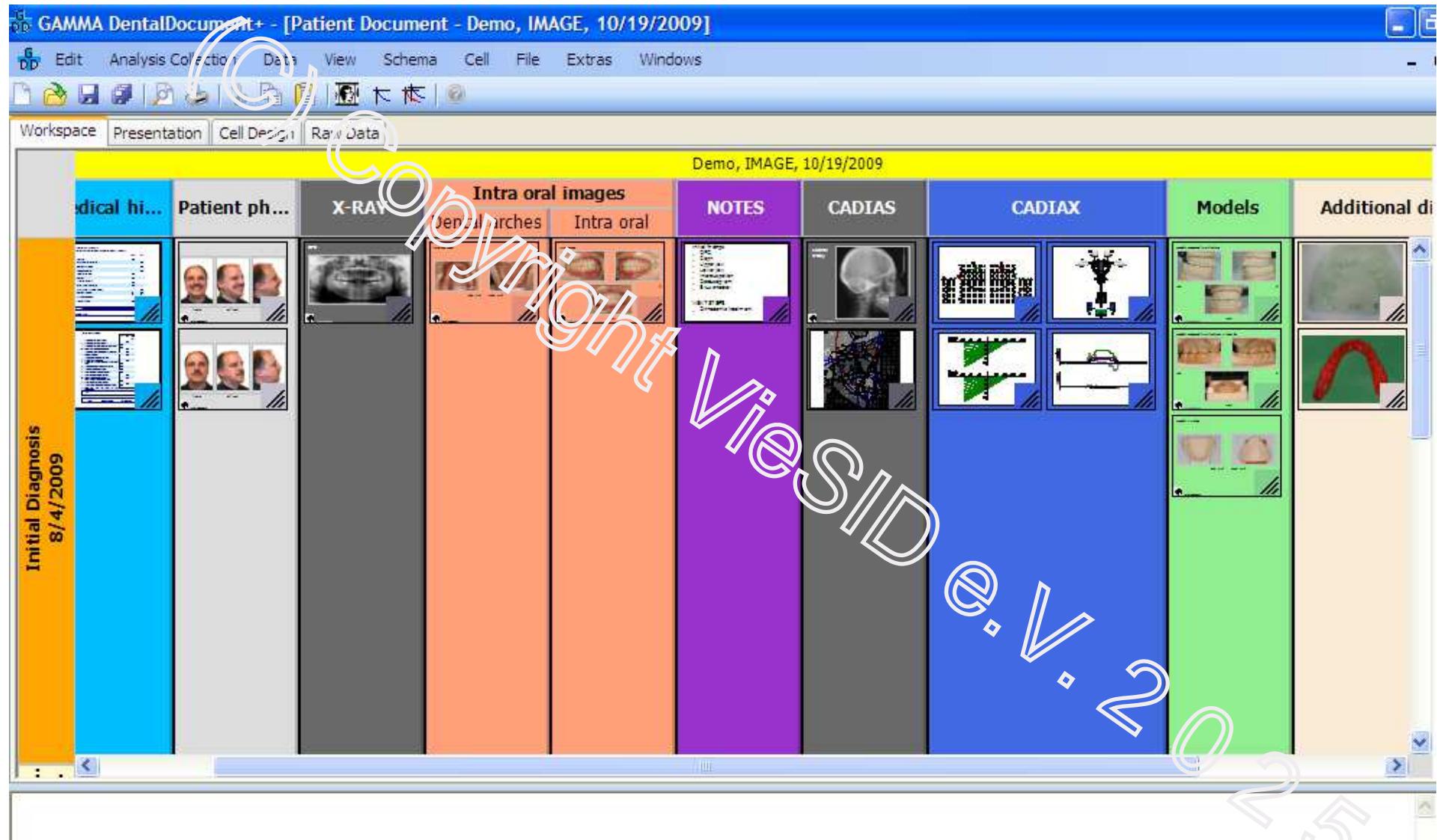
Dental History Analysis

Initial Diagnosis 10/13/2009

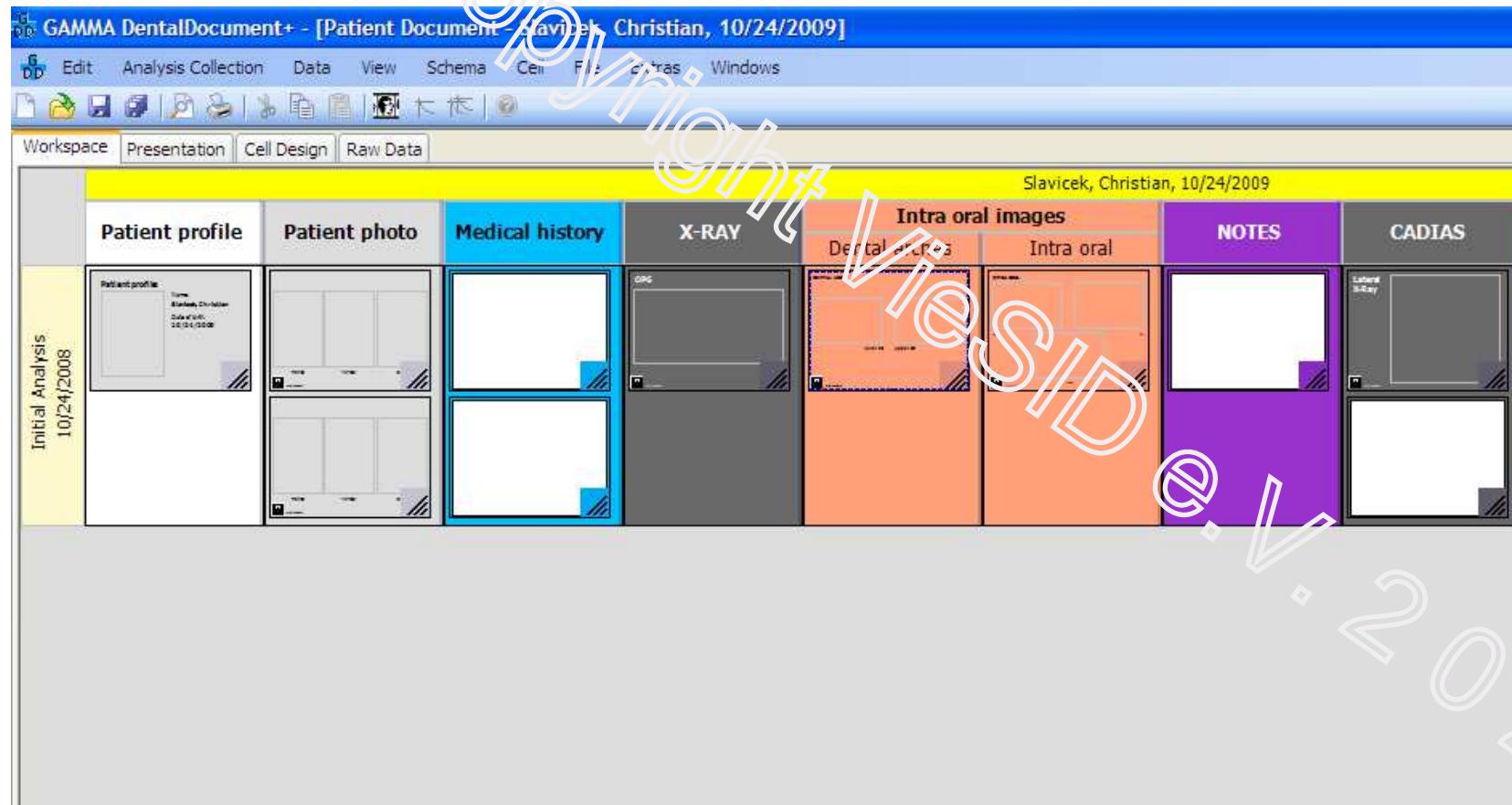
	no	yes	Grade (1 – 3)
1 Do you have problems when chewing?	<input type="checkbox"/>	<input type="checkbox"/>	
2 Do you have problems when talking?	<input type="checkbox"/>	<input type="checkbox"/>	
3 Do you have problems when closing your teeth properly?	<input type="checkbox"/>	<input type="checkbox"/>	
4 Are any of your teeth especially sensitive?	<input type="checkbox"/>	<input type="checkbox"/>	
5 Do you have a problem when opening your mouth wide?	<input type="checkbox"/>	<input type="checkbox"/>	
6 Make you joint noise?	<input type="checkbox"/>	<input type="checkbox"/>	
7 Do you have pain in the area of the joints?	<input type="checkbox"/>	<input type="checkbox"/>	
8 Do you suffer from headaches?	<input type="checkbox"/>	<input type="checkbox"/>	
9 Do you suffer from cramps or spasms in your head, neck or throat?	<input type="checkbox"/>	<input type="checkbox"/>	
10 Do you have general problems with your posture?	<input type="checkbox"/>	<input type="checkbox"/>	
11 Do you ever have a serious accident?	<input type="checkbox"/>	<input type="checkbox"/>	
12 Did you have one or more oral intubations?	<input type="checkbox"/>	<input type="checkbox"/>	
13 Did you ever have orthodontic treatment?	<input type="checkbox"/>	<input type="checkbox"/>	
14 Have you had a treatment with a splint?	<input type="checkbox"/>	<input type="checkbox"/>	
15 Are you grinding or pressing with your teeth?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
16 Do you think that treatment is necessary?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
17 Do you Think that there is a serious disorder or illness?	<input type="checkbox"/>	<input type="checkbox"/>	
18 What was the last time you had dental treatment? What was done?			
19 How would you describe your psychic behaviour?			
<input type="checkbox"/> : happy	<input type="checkbox"/> : sad	<input type="checkbox"/> : calm	
<input type="checkbox"/> : exited	<input type="checkbox"/> : self-controlled	<input type="checkbox"/> : lack of self control	

Outlook Heute - Micros... Screenshots - FreeCom... GAMMA DentalDocu... Microsoft Office Picture... 10:54

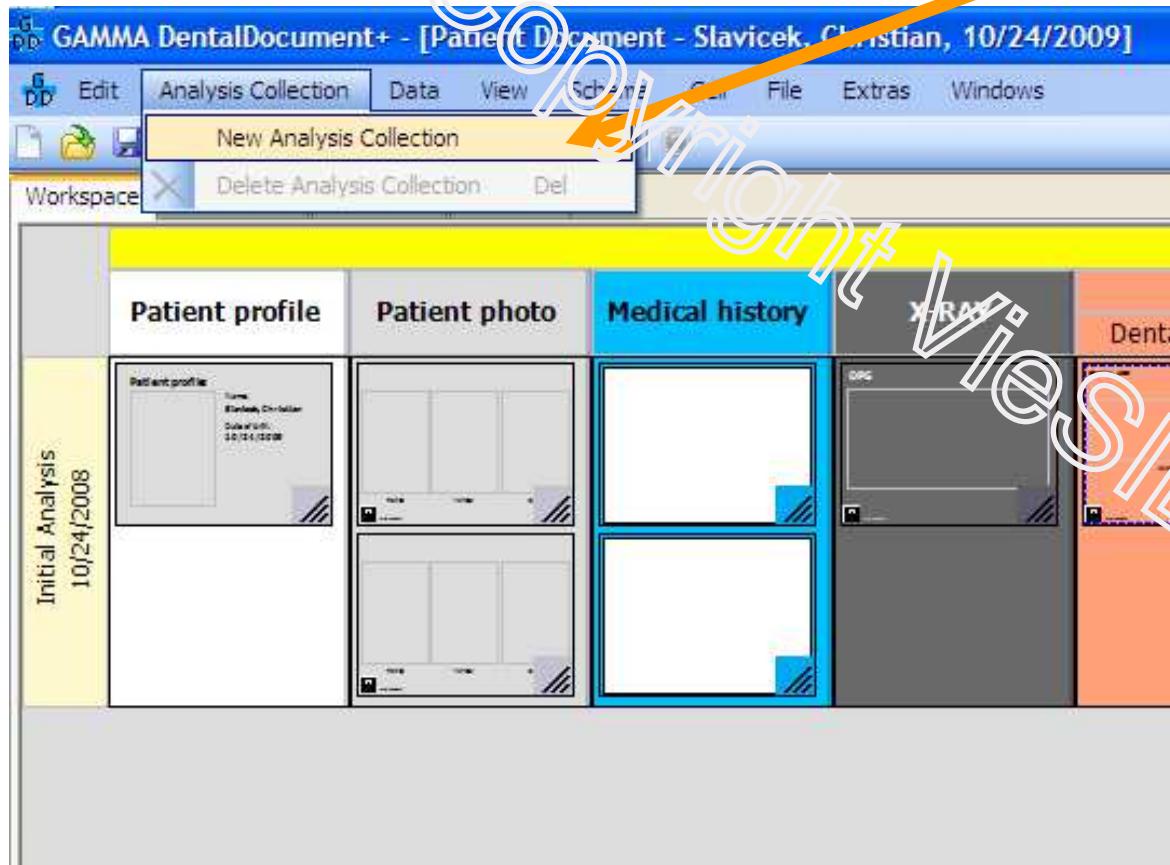
- Patient main concern (1)
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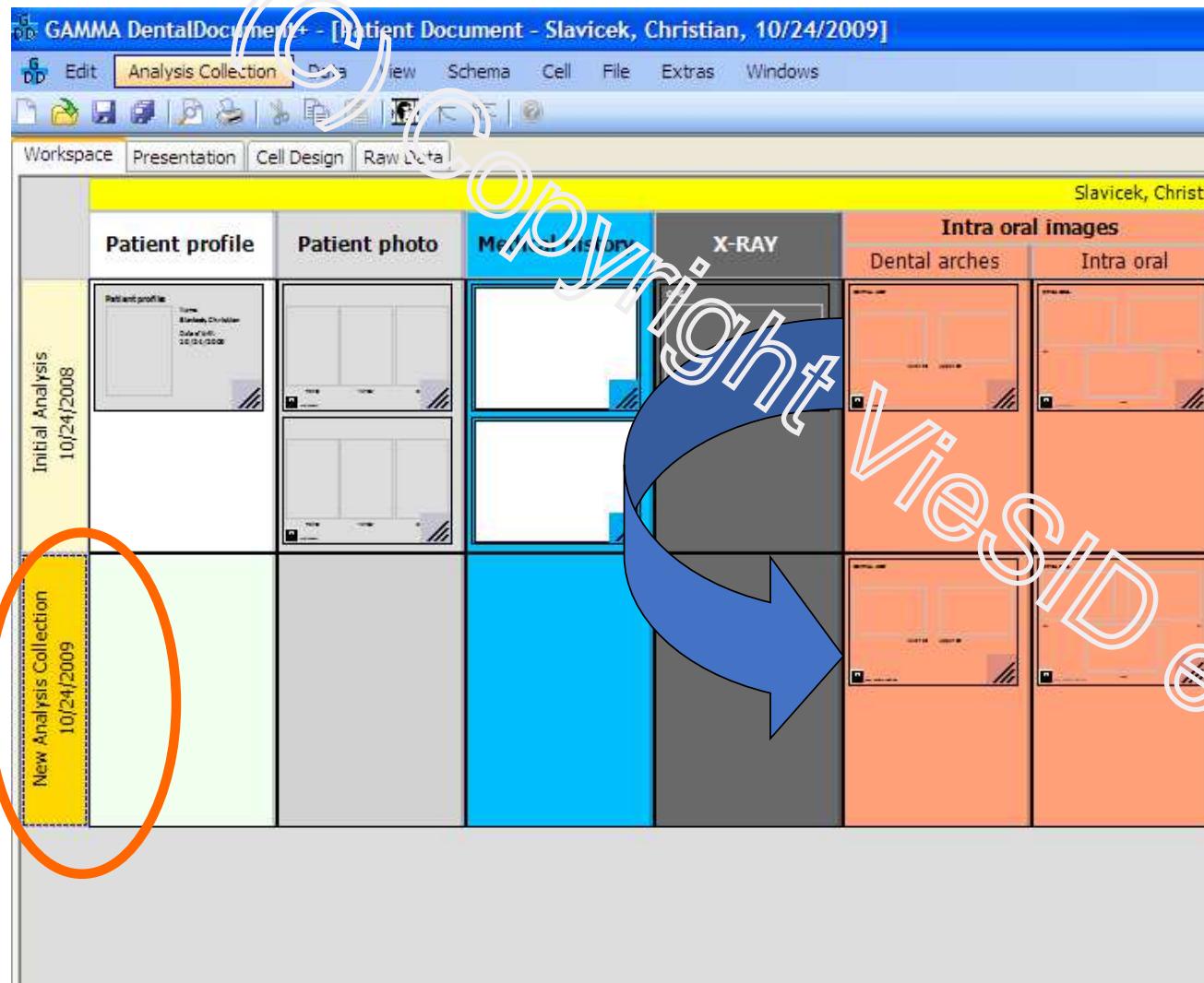


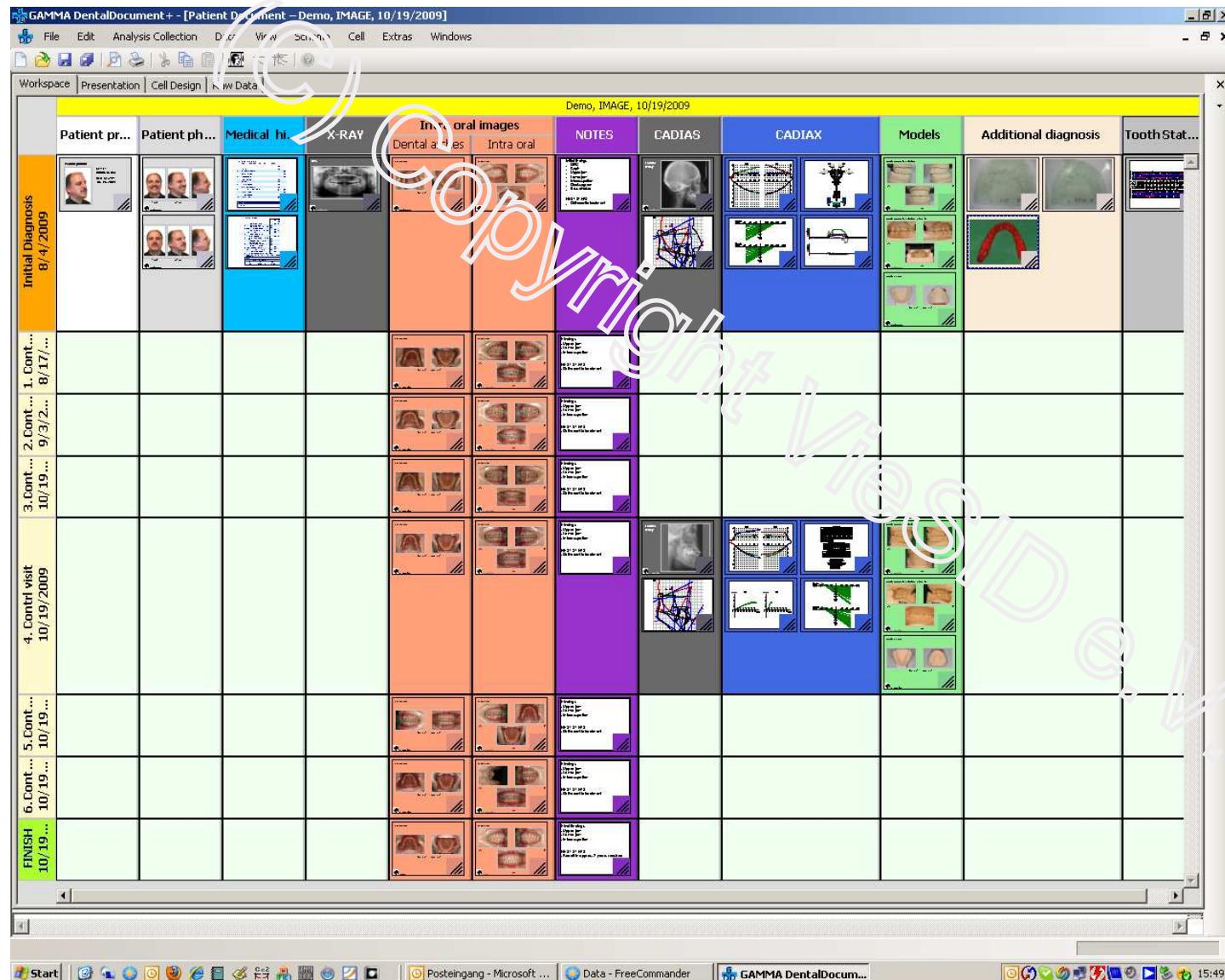
Multiple Analysis



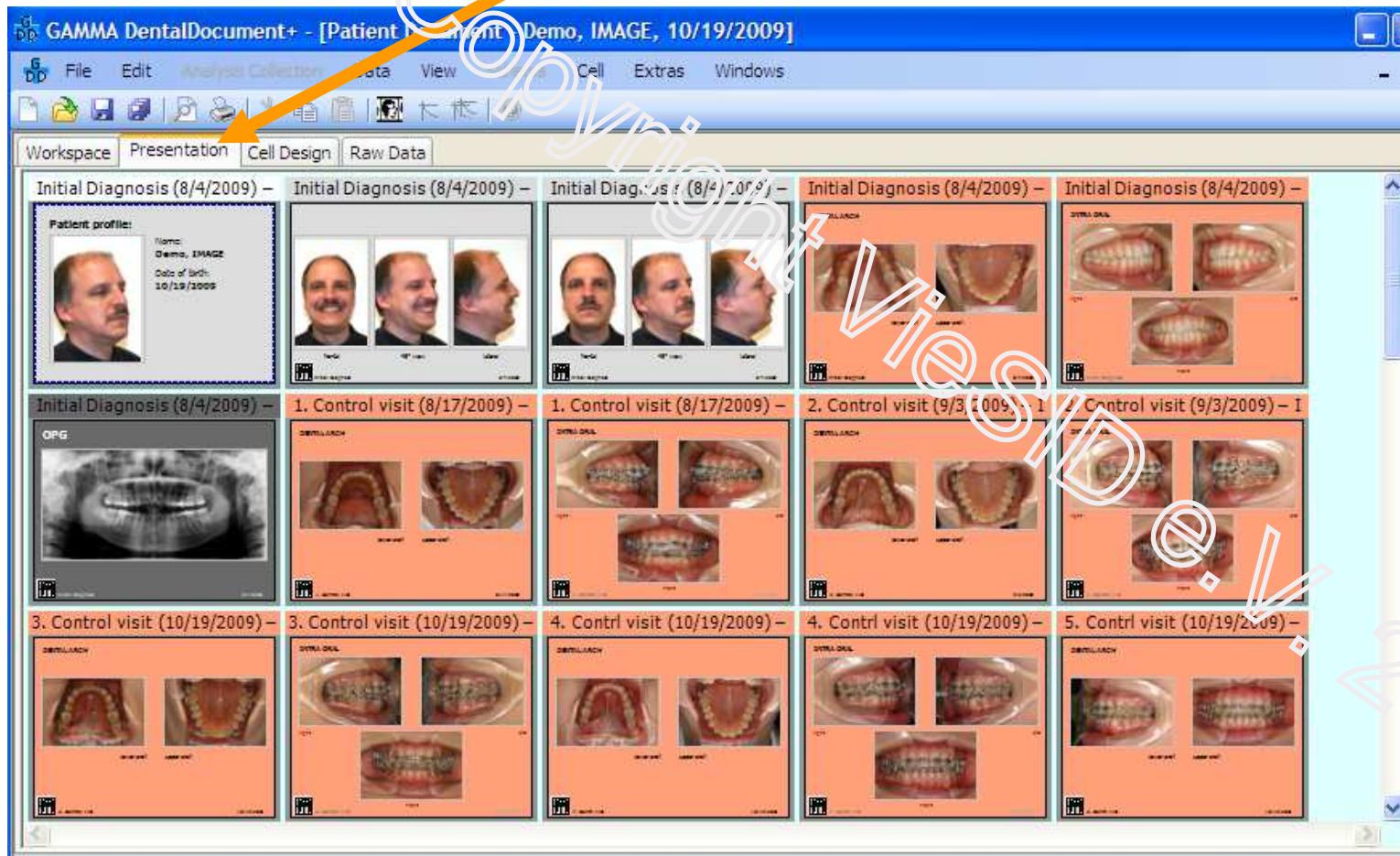
Add New Analysis



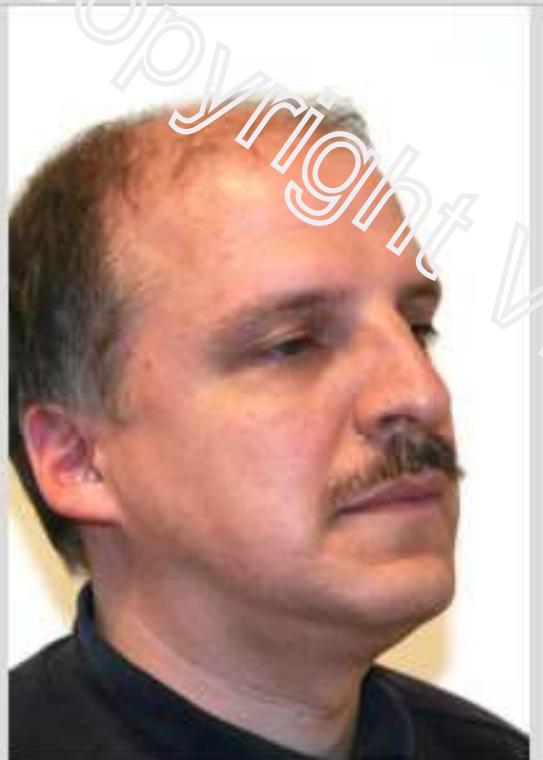




Data Presentation



Patient profile:



Name:

Demo, IMAGE

Date of birth:

10/19/2009



frontal

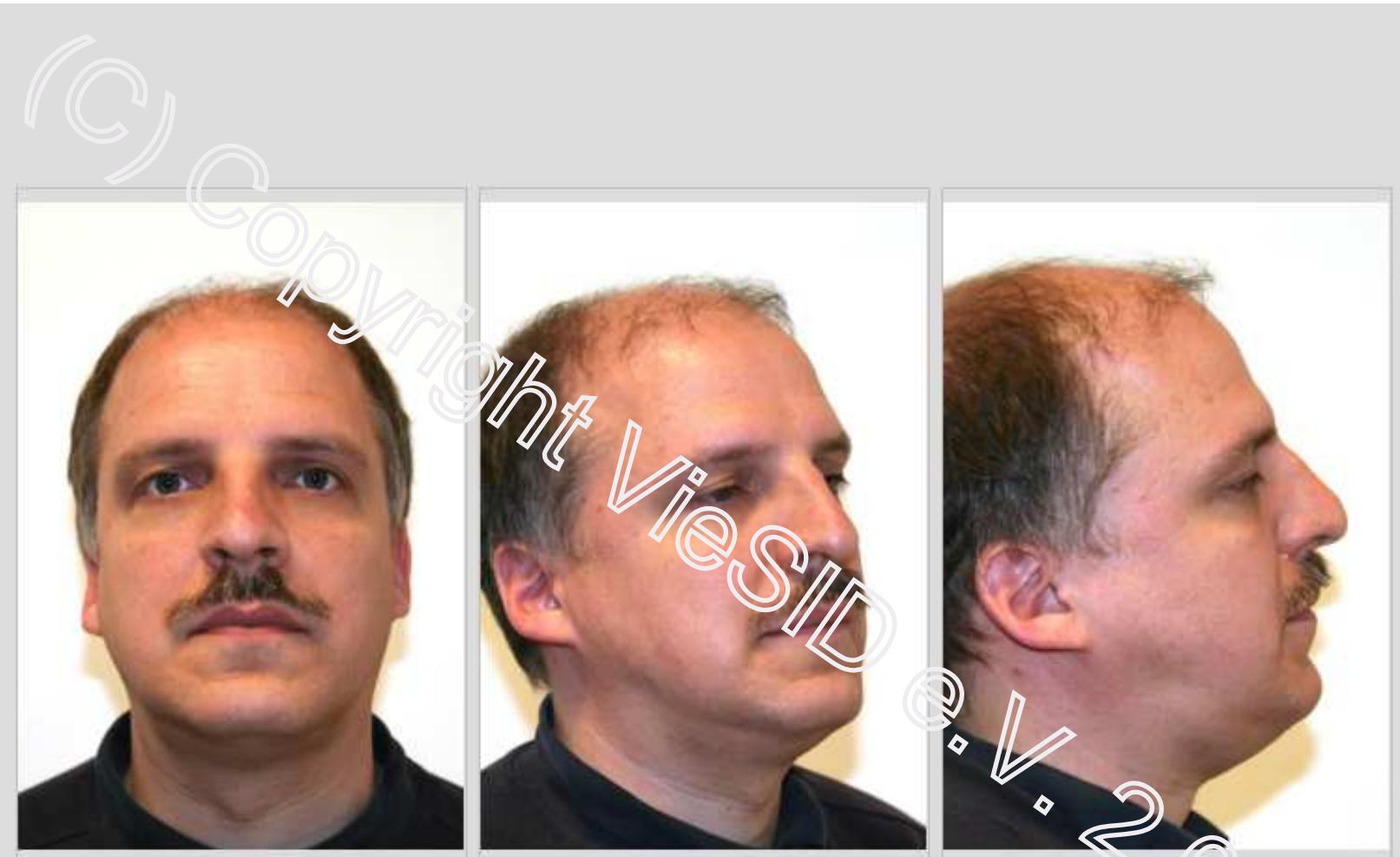
45° view

lateral



Initial Diagnosis

8/4/2005



frontal

45° view

lateral

GRAMMA
DENTAL

Initial Diagnosis

8/4/2009

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EXTRA ORAL



right



left



Front

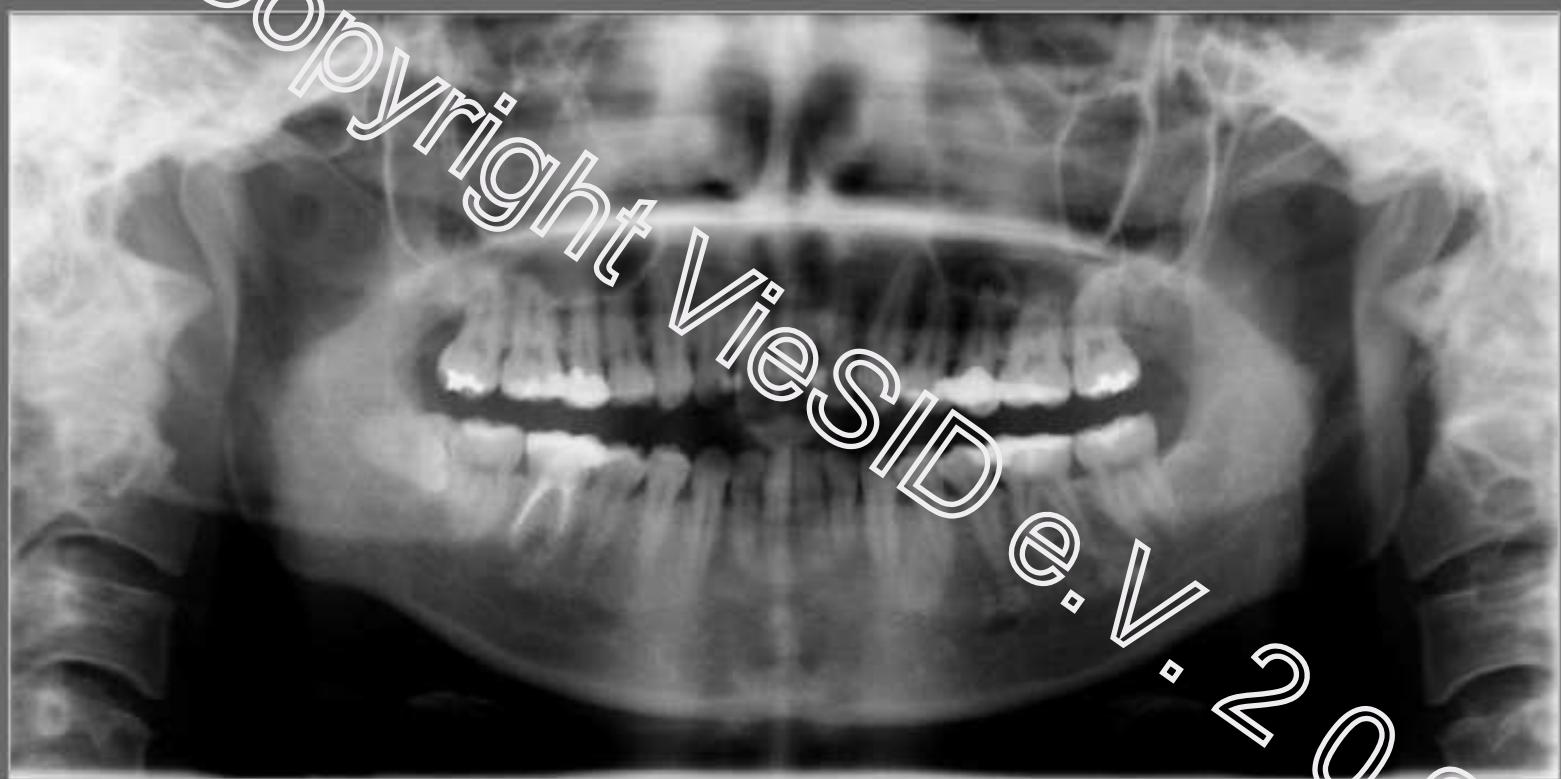
GAMMA
DENTAL

Initial Diagnosis

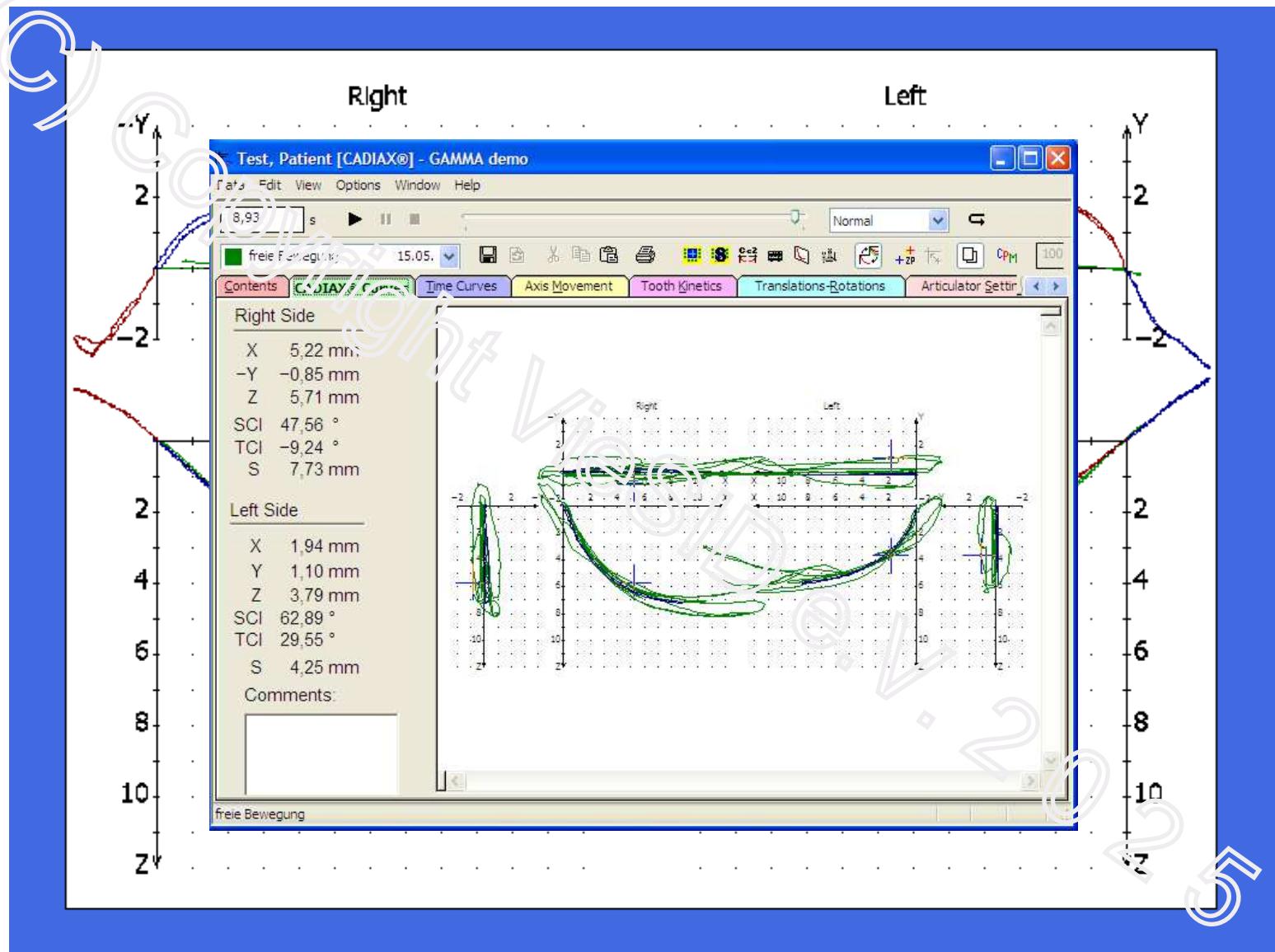
8/4/2009

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Optional, cells from *Gamma Dental Document+* can be copied and pasted into Microsoft PowerPoint.

The format of all graphs are automatically converted.

Summary

DentalDocument+ is a application software that helps the dental/medical professionals to document cases, specially also in the field of functional evaluations.

Without neglecting the singular individuality, *DentalDocument+* assists the dentist in:

- Systematic and standardized data survey
- Data organization and storage
- Data views and summaries
- Presentations

Summary

During all phases of development, ergonomic considerations of the usage of the program had high priority.

We believe, that *DentalDocument+* can save time and efforts and still may delivery consisted better comprehensive documentation.

As a target user group, we do not only see dentist and dental technicians in their daily practice, but also study groups, organizations of special interest, Academies and Universities.

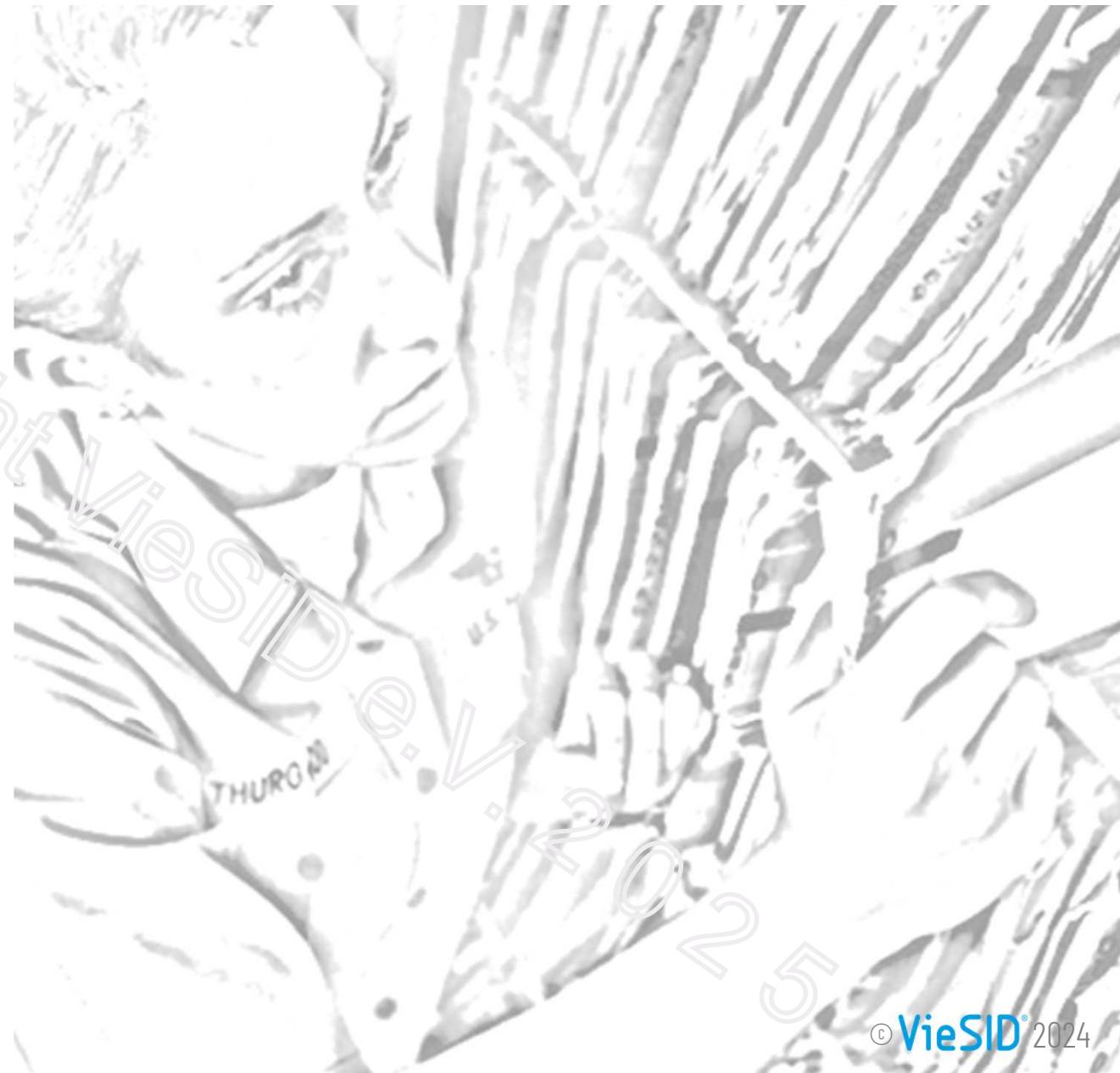
VieSID®

Vienna School of
Interdisciplinary Dentistry

Education in Occlusion Medicine

End of Presentation

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