A Specialist's Perspective on CBCT 3D Imaging, Computer-Guided Implant Dentistry and Referral Relationships
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Why I invested in CBCT - 2008
Implants
NobleGuide/ SimPlant (“bigger” “complex”)  
Sent out about 8 - 10 scans/ month  
Out-of-town patients/ lost consults  
12 x $250 = $3000

Why I Bought GALILEOS
Best image quality @ lowest radiation dose
Support
One company (Sirona/SICAT)
...

GALILEOS in my Practice
Patient consultation
Patient education
Case acceptance
Referral communication
Optimal patient care
GALILEOS
Pathology
TMJ
Orthognathic Surgery
Perio/Endo lesions
Impacted Teeth
Implants

Pathology
Lisa
Healthy 50 y.o. female
Pain, swelling left maxilla x 1 wk

My job as a Specialist
Evaluate the pathology
Determine treatment options
Calm patient’s anxieties, fears, answer questions
To do that...
We need accurate information
We need to be able to educate and inform the patient

GALILEOS enables me to do those things

Microscopic Diagnosis
Dentigerous Cyst
No further treatment needed
GALILEOS

Can lead to a more accurate diagnosis
Prevent a delay in appropriate treatment

How GALILEOS changes the game...

- Undiagnosed therapeutic misadventure
- Pain for over 1 year
- Apical surgery - not appropriate
- Delay in correct diagnosis/ treatment

Patient Consultations 3rds

- Proximity to sinus, mandibular nerve
- Abnormal orientation/ position
- Reduces patients’ fear of surgery (esp. paresthesia risk)
- 2nd/3rd Opinions
Margaret

- 65 year old woman
- 2 years of recurrent pain and swelling in #17 area
- 3rd consult

16 Year Old Male - 3rd Consult
Sarah
Healthy 23 year old woman
Referred by GP for 3rd molars
Chronic left sinus congestion

CBCT-Guided Implantology
How I was trained to do Implants

• Panoramic-based planning
• Study models (maybe)
• Model based surgical guides (maybe)

Issues with “traditional” Implant Surgery

• Implant placed where there was bone
• Restoration was often an afterthought

Why don’t you do guided surgery?

• “I’ve been doing implants for over 20 years”
• “I’m good at it!”
• “Why should I learn a new way of doing implant surgery?”

Model-Based Surgical Guide

Using a CBCT for planning and a model-based surgical guide is not a guarantee of success.
Here’s a great example...
49 year old man
Healthy
Perio- #12, 13, 14
How “good” are we?
Overall: 10 - 15%
Anterior esthetic zone: 20%

*We can do better!!*

Why do we place implants?

**TO REPLACE MISSING TEETH!**

Implantology Concepts
Surgically-Driven Implant Placement

Implantology Concepts
Prosthetically-Driven Implant Placement
“Prosthetically-Driven”
Start with the ideal prosthetic restoration
Work backwards from there

Immediate Provisional
GALILEOS enhances referral relationships...

- 62 y.o. man
- NIDDM, HTN
- #30- pain
- Previous RCT (3y)
- Endodontist→ fracture
- Extract, ridge preservation

CEREC-GALILEOS Integration

Great opportunity for GP-Specialist interaction
J.B.

Failing #15 --> loss of bridge
Atrophic posterior mandible
**J.B.**

- Extract #15, RPG
- Maxillary L Ridge Split; Implants @ 12, 13, 14
- Mandibular Implants @ 19, 20, 21, 28, 29, 30; FDBG

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**GALILEOS- Helps educate patients to make better treatment choices**

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**Kathy B.**

- 45 y.o. female
- Healthy
- Smoker
- MVA 2005
- Lost #9 --> Implant
Practice Benefits

“Time is Money!”

<table>
<thead>
<tr>
<th>Procedure</th>
<th>“Traditional” Surgery</th>
<th>“Guided” Surgery</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Implants</td>
<td>1 Hour</td>
<td>30 Minutes</td>
</tr>
<tr>
<td>6 Implants</td>
<td>2 Hours</td>
<td>1 Hour</td>
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</tbody>
</table>

K.S.

58 year old male
HTN, Cozaar, Klonidine, HCTZ
NKDA
Bridge: 7-10, failing
Treatment Plan

Extract # 7, 10

Ridge expansion 7-10

Implants: 7, 8, 9, 10

GALILEOS Guided Surgery
Why I do Guided Implant Surgery

- Prosthetically driven treatment plan
- Implants placed accurately, precisely and consistently
- Easier to restore, higher success rate
- Immediate implants/provisionals - see at consultation if possible, rather than in surgery

Allow me to provide the best treatment plan and care to my patients
**GALILEOS**

**Image Improvement**

Updates every 6 - 12 months

MARS

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**GALILEOS ComfortPLUS W/ INTEGRATED FACESCAN**

The FaceScan plots the patient’s facial surfaces at the same time the x-ray image is taken.

**INTEGRATED IMPLANTOLOGY**

Implants with a final prosthesis in fewer visits with CEREC Integration.

**DOLPHIN INTEGRATION**

Dolphin Integration allows for the automatic alignment and superimposition of the FaceScan and 3D x-ray for a more seamless integration.
Dr. Carmen

Healthy 53 year old female dentist

RCT #19, P&C/PFM 25 years prior

Pain x 3d

Assistant took periapical
Thank You!