



# labline

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MITSUTAKA  
FUKUSHIMA

**COLOR  
MATCHING,  
MY HOBBY**





Rafael Santrich

# SCOOP TECHNIQUE!!!





### **RAFAEL SANTRICH**

Born in Cali, Colombia.

Owner of his dental laboratory in Aventura, Florida.

Specialized in: all fixed restorations and custom cosmetics, expert in CAD/CAM

#### **Achievements:**

- Ivoclar at the LVI Institute and Nobel Rondo by Nobel Biocare Press Technology: Certifications of E-Max and Empress by.
- 2005–2006: GC America: Key Opinion Leader
- 2007: Nobel Rondo (Nobel Biocare): Instructor with Ernst Hegenbarth, MDT.
- 2010: Florida Dental Laboratory Association: E-max lecture in Spanish, USA
- 2011: Florida Dental Laboratory Association: IPS Inline lecture
- Pikos Institute: Technical Instructor in two programs given by Dr. Michael A. Pikos of "CT Diagnosis and Treatment Planning with Interactive CT Software"
- Currently: consultant for Sirona and the only Latin offering certified courses in Spanish for Ivoclar Vivadent in U.S.
- Completed Several Digital photography courses organized by Dr. Ed McLaren, Claude Sieber MDT, Felix Pages CDT.
- 2012: Ivoclar USA: Course on The Implant Esthetics Center Of Excellence, Sarasota, Florida

Currently he is a member of American College of Prosthodontics and a member of the Colombian Academy Honorary of Osseointegration.

#### **Publications:**

- Book: Case publication "Soft Tissue and Esthetic Consideration in Implant Therapy" written by Dr. Anthony Sclar. 2009:
- Realities Implants Volume 1, 2009 of ITI.
- 2011: IDT (Inside Dental Technology) in January and April editions  
LMT (Lab Management Today) in November edition
- 2012: "Scoop technique" in the JDT (Journal Dental Technology) and Oral Health in Canada for First Edition. June/July: "The Finesse Of The Pink & The Power Of IPS e.max" in the JDT USA
- 2013: "The Finesse Of The Pink & The Power Of IPS e.max" in Germany

Scoop Technique means creating concavity in lingual incisal to create translucency. It will be popular in dentistry. During the ingot selection you must be careful to choose the one suitable for the situation.

I developed this technique because I found that some technicians have a problem with matching single centrals. They drop the value or miss matching the shape. It looks easy but we need to be careful with the ingot selection and the amount of grinding to get the right translucency.





### CASE DESCRIPTION

A 29-year-old woman with beautiful dentition but with endodontic treatment in tooth #21. To avoid future problems, the doctor decided to prepare the tooth and create a full coverage restoration.



### Color Selection

Taking pictures from different angles and lights to evaluate the shade and characteristics of the natural tooth. At this point we need to start thinking about what kind of ingot we need to choose (LT-HT-MO-HO-VALUE-OPAL). It's the advantage of working with e.max that you also have a lot of possibilities to restore. However, you need to pick the right one.

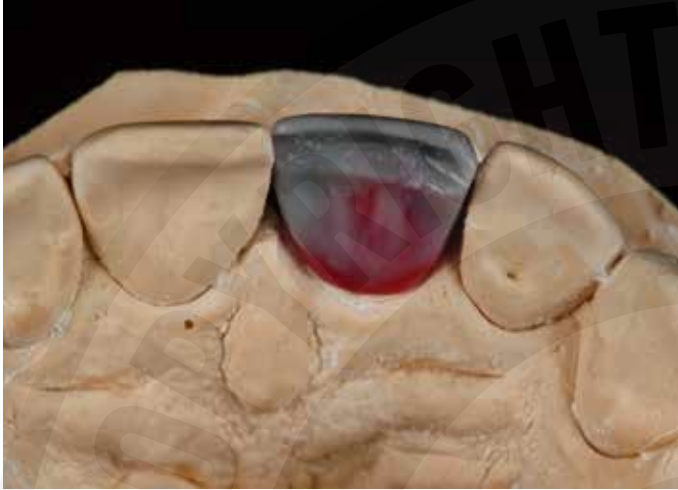




To pick the stump color is really important. You can't avoid this step now that this is part of your color information. You always need to work considering three important things: 1st, stump shade, 2nd, ingot selection, 3rd, final color. If you miss the stump color; sometimes it's a lottery to get a nice result.



Fabrication of temporary restoration.



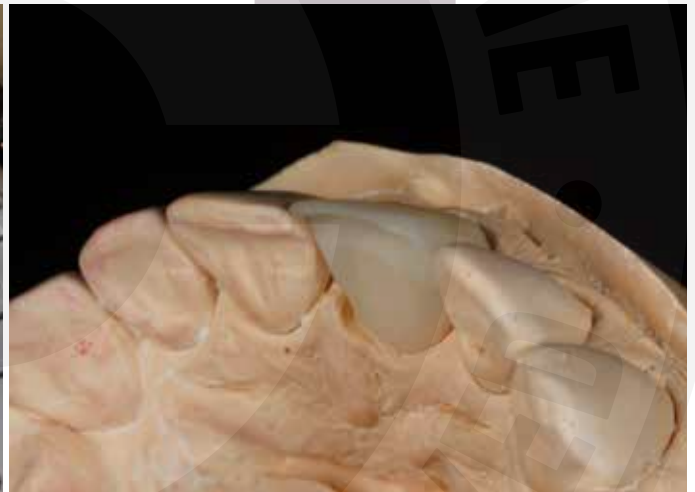
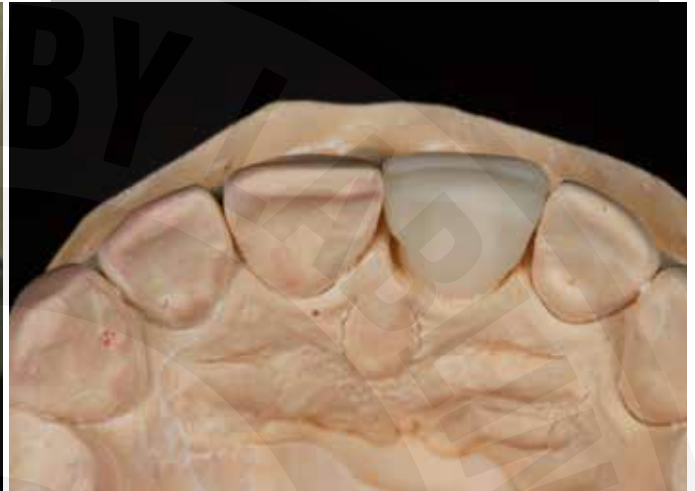
**12-14**

You can observe our finish Bucal Contour and the Lingual Incisal edge already in the correct position. It's enough to create the ideal translucency to match tooth #11.



**15-16**

We can already see translucency.



**17-21**

This is a Blue e.max Block, that we will mill in our Cerec Milling Machine. This is another option to develop the same technique using CAD-CAM Technology, the beauty of which is that we can create the same lingual scoop at 3 tenths of a millimeter. I need to say, for the first cases it's better to press or mill the full countour crown and later on, little by little, start adjusting the lingual incisal edge until you get the translucency you want.

**22-24**

We press or crystallize the crowns that we design and proceed to reshape and finish the Buccal and the rest of your crown like a regular stain and a glaze crown. We need to consider that this is a double technique: one is external stain but at the same time it is an internal stain technique for the scoop portion, because we need to create the effects of the tooth #11.





We need to consider the double character of this technique. One is external stain, when you need to create the external characteristics of the other tooth. At the same time, it is an internal stain technique for the scoop portion where you create the effects of tooth 11. This step was created with some essence stains for the e.max system like (fluo glaze, vanilla, profundo, ocean and withe ) and baked them at 810°C. For this specific case we covered the internal effects with some enamel of the e. max Ceramic system like (T1 1. OE 1. and interincisal white-blue) that enamels are bake at 750°C.





Try in.

The crown in place from the different angles.

**ACKNOWLEDGEMENT**

I did the case in collaboration with doctor Joel Gale.  
Thanks so much.