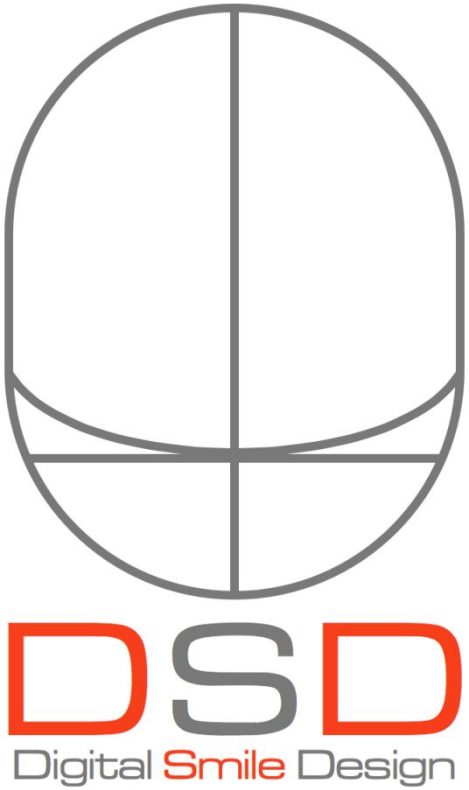
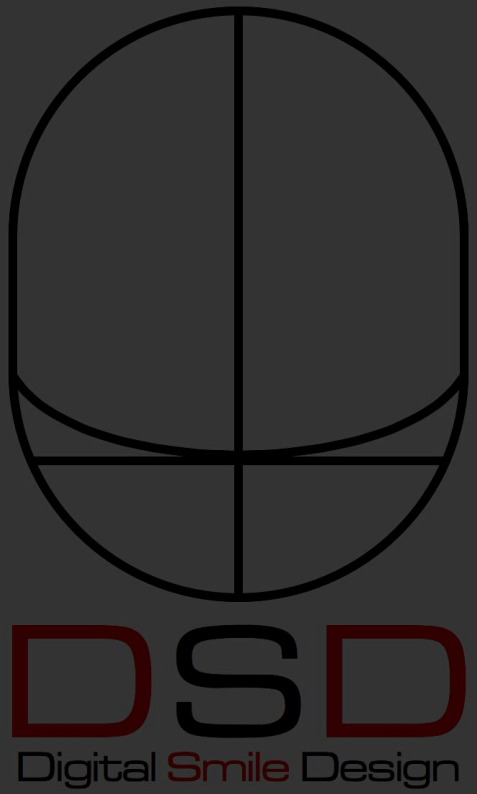

DSD
Digital Smile Design


DSD
Digital Smile Design

DSD

Digital Smile Design

Dr.

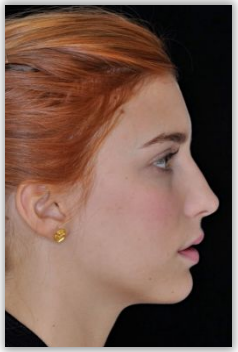
Paciente:

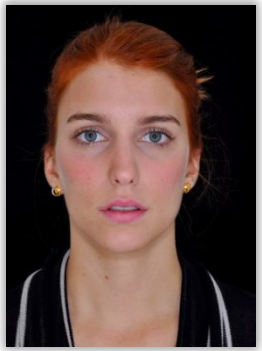
DSD
Digital Smile Design

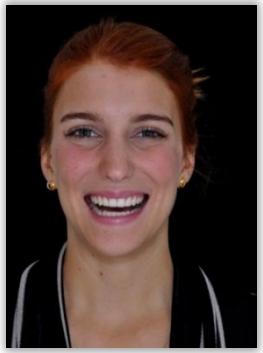
Dr(a).

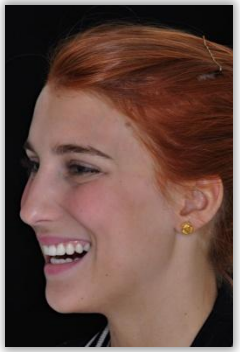
Paciente:

photo











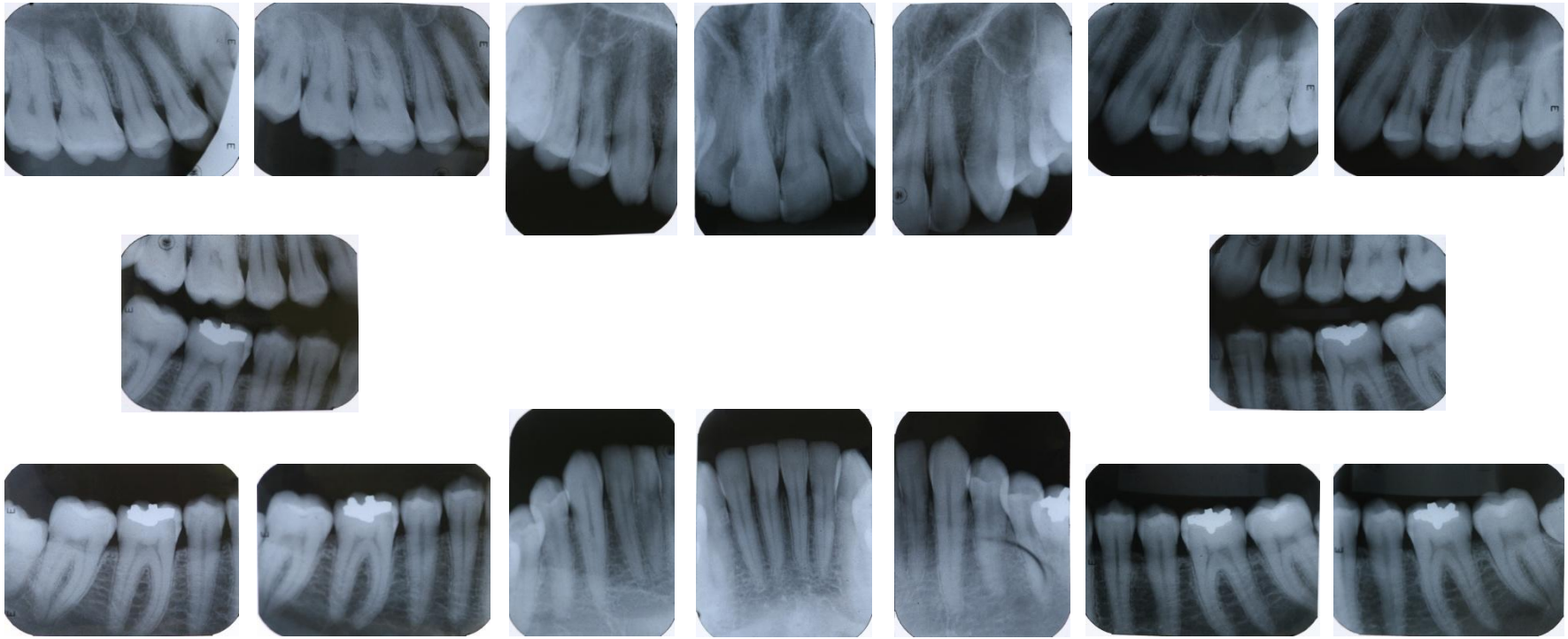




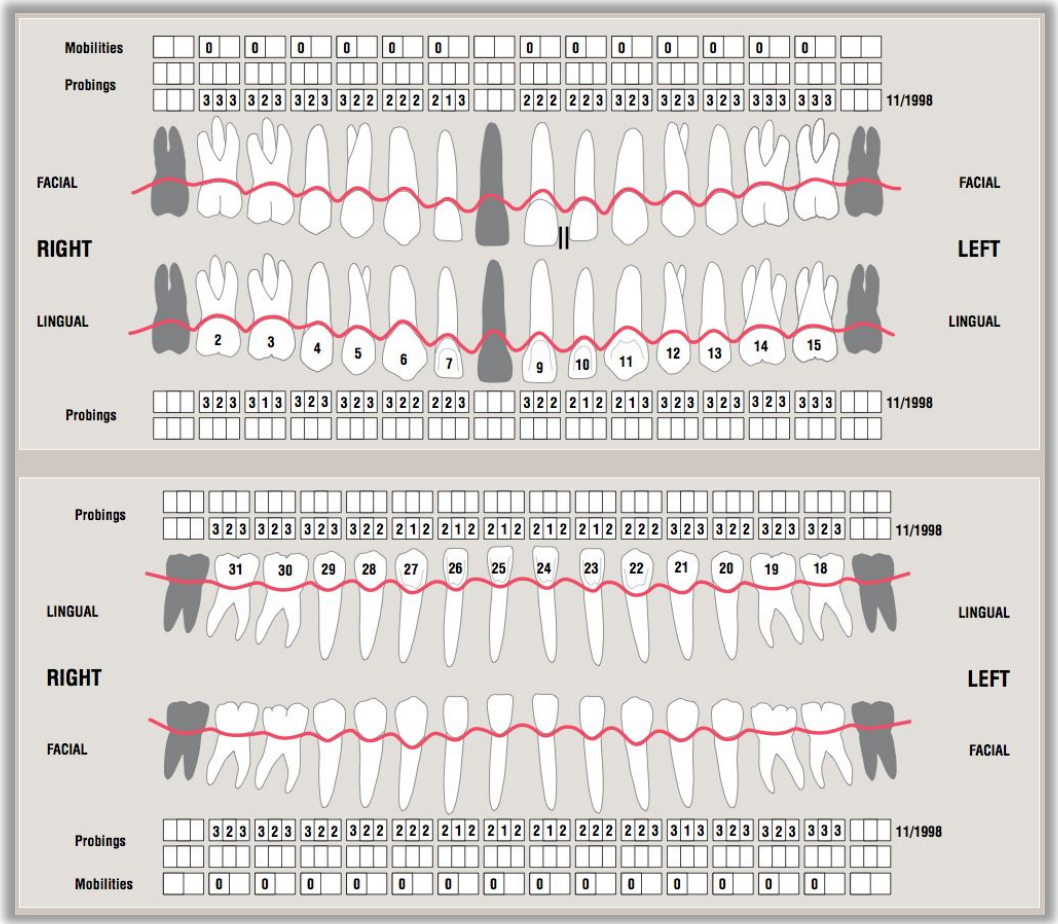


V

X



perio chart


Mobilities
Probings
11/1998
FACIAL
RIGHT
LEFT
LINGUAL
2 3 4 5 6 7 9 10 11 12 13 14 15
31 30 29 28 27 26 25 24 23 22 21 20 19 18

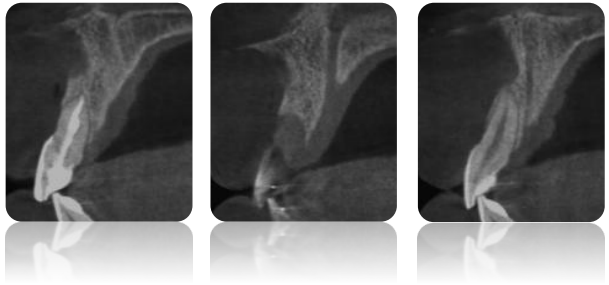
p

c

i


NobelProcera


NobelProcera

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1.8 cm
8 [mA]
85 [kVp]
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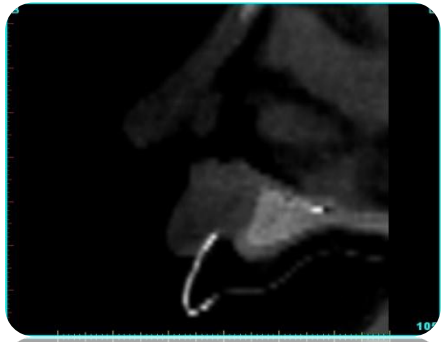
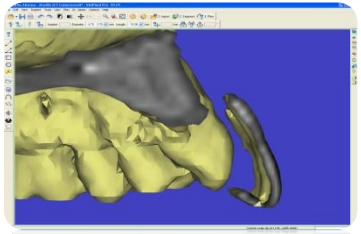
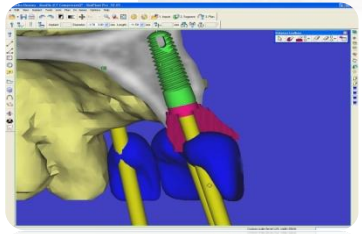


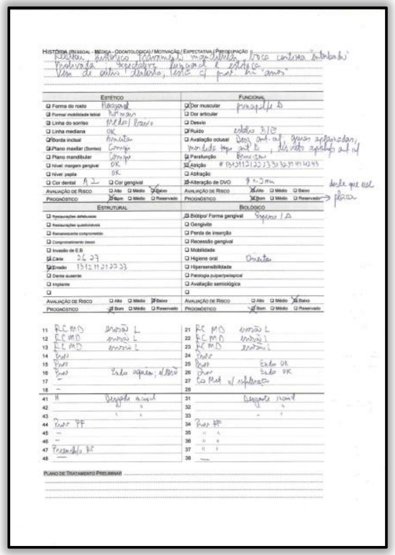




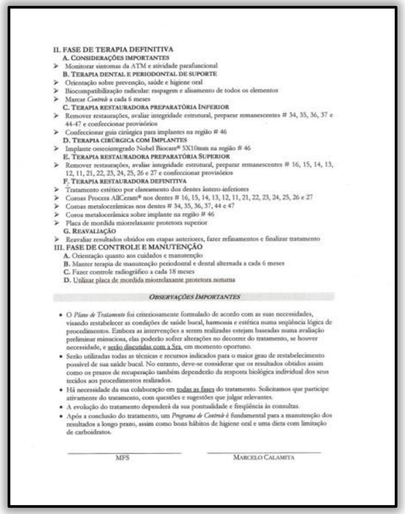
m

h

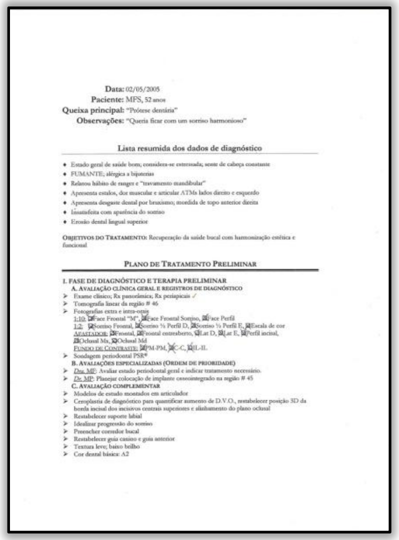
Nome MFS
Nascimento 20,10,1952
Endereço
Bairro
CEP
Tels: Res
Com
Cel
Cidade
Profissão
Estado civil
CPF
RG
e-mail
A quem poderíamos agradecer pela indicação
ESTADO DE SAÚDE GERAL
Motivo pelo qual procurou tratamento Prótese dentária
Declaro-me responsável pelas informações aqui prestadas.
São Paulo, 20, 4, 2005
MFS
Assinatura



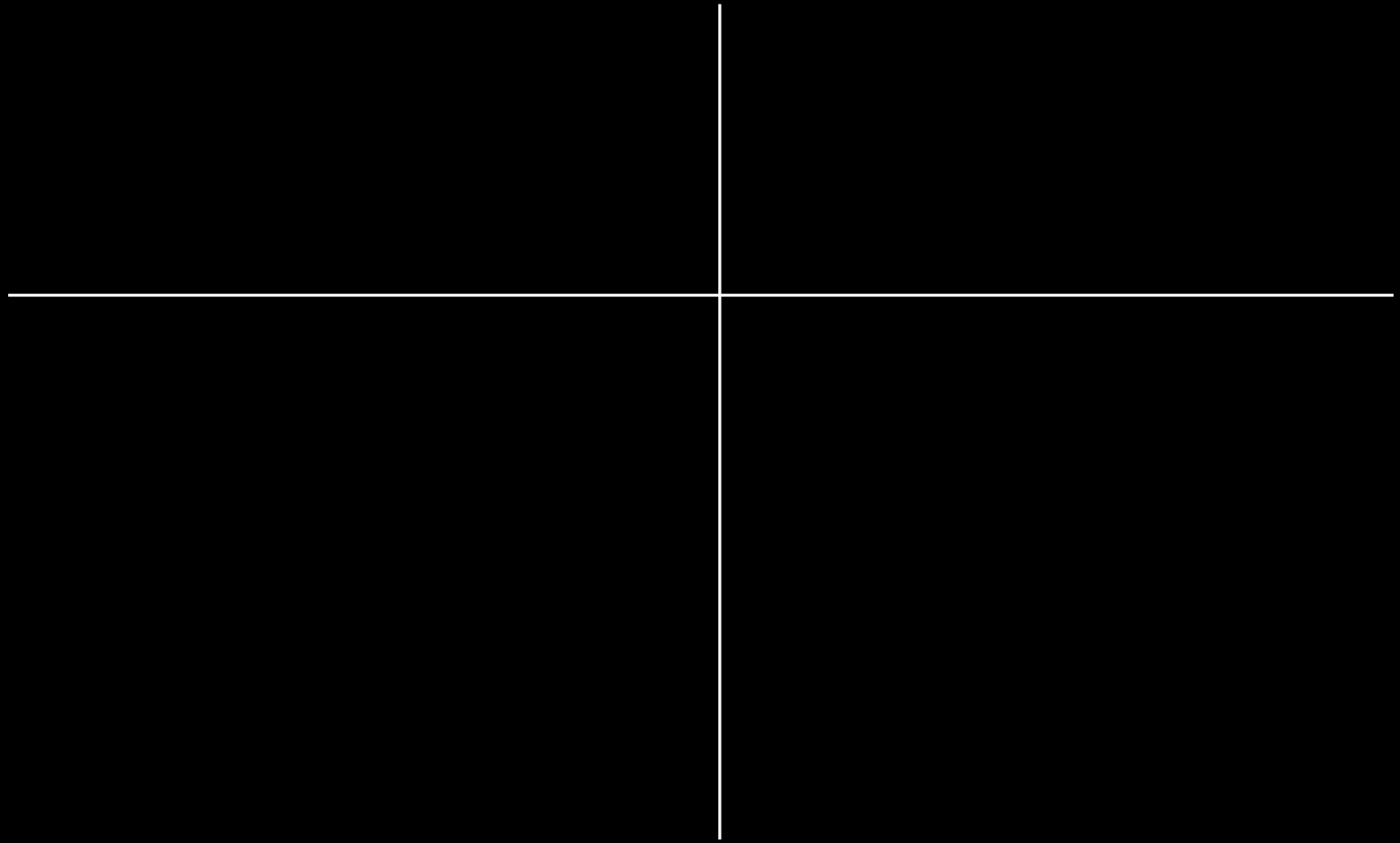
ESTÉTICO
FUNCIONAL
ESTRUTURAL
BIOLÓGICO
AVALIAÇÃO DE RISCO
PROGNÓSTICO
PLANO DE TRATAMENTO PRELIMINAR

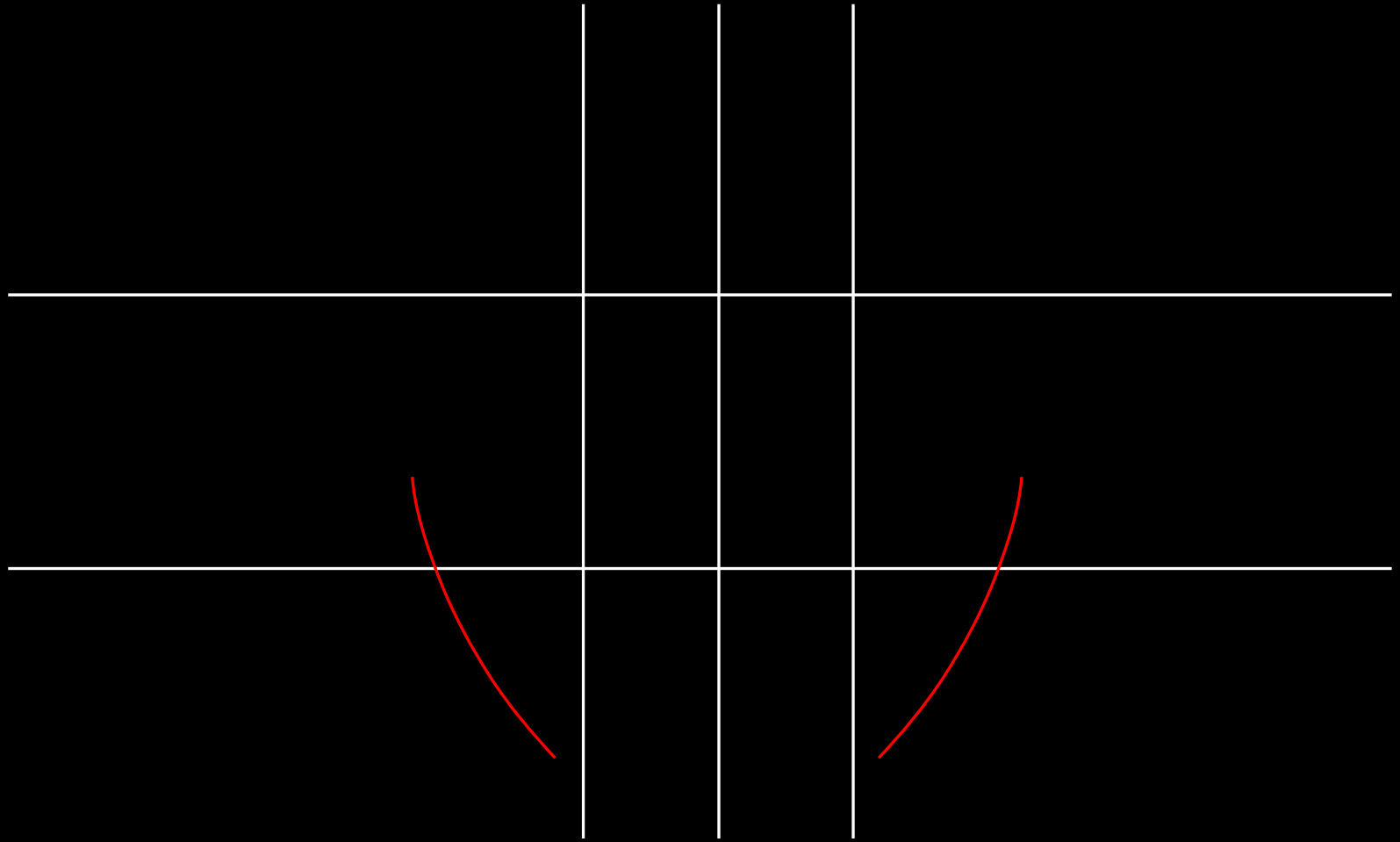


II. FASE DE TERAPIA DEFINITIVA
A. CONSIDERAÇÕES IMPORTANTES
Monitorar sintomas da ATM e atividade parafuncional
B. TERAPIA DENTAL E PERIODONTAL DE SUPORTE
Orientação sobre prevenção, saúde e higiene oral
Biocompatibilização radicular: raspagem e alisamento de todos os elementos
Marcar Controle a cada 6 meses
C. TERAPIA RESTAURADORA PREPARATÓRIA INFERIOR
Remover restaurações, avaliar integridade estrutural, preparar remanescentes # 34, 35, 36, 37 e 44-47 e confeccionar provisórios
Confeccionar guia cirúrgica para implantes na região # 46
D. TERAPIA CIRÚRGICA COM IMPLANTES
Implante osseointegrado Nobel Biocare® 5X10mm na região # 46
E. TERAPIA RESTAURADORA PREPARATÓRIA SUPERIOR
Remover restaurações, avaliar integridade estrutural, preparar remanescentes # 16, 15, 14, 13, 12, 11, 21, 22, 23, 24, 25, 26 e 27 e confeccionar provisórios
F. TERAPIA RESTAURADORA DEFINITIVA
Tratamento estético por clareamento dos dentes ântero-inferiores
Coroas Procera AllCeram® nos dentes # 16, 15, 14, 13, 12, 11, 21, 22, 23, 24, 25, 26 e 27
Coroas metalocerâmicas nos dentes # 34, 35, 36, 37, 44 e 47
Coroa metalocerâmica sobre implante na região # 46
Placa de mordida miorrelaxante protetora superior
G. REAVALIAÇÃO
Reavaliar resultados obtidos em etapas anteriores, fazer refinamentos e finalizar tratamento
III. FASE DE CONTROLE E MANUTENÇÃO
A. Orientação quanto aos cuidados e manutenção
B. Manter terapia de manutenção periodontal e dental alternada a cada 6 meses
C. Fazer controle radiográfico a cada 18 meses
D. Utilizar placa de mordida miorrelaxante protetora noturna
OBSERVAÇÕES IMPORTANTES
O Plano de Tratamento foi criteriosamente formulado de acordo com as suas necessidades, visando restabelecer as condições de saúde bucal, harmonia e estética numa seqüência lógica de procedimentos. Embora as intervenções a serem realizadas estejam baseadas numa avaliação preliminar minuciosa, elas poderão sofrer alterações no decorrer do tratamento, se houver necessidade, e serão discutidas com a Sra. em momento oportuno.
Serão utilizadas todas as técnicas e recursos indicados para o maior grau de restabelecimento possível de sua saúde bucal. No entanto, deve-se considerar que os resultados obtidos assim como os prazos de recuperação também dependerão da resposta biológica individual dos seus tecidos aos procedimentos realizados.
Há necessidade da sua colaboração em todas as fases do tratamento. Solicitamos que participe ativamente do tratamento, com questões e sugestões que julgar relevantes.
A evolução do tratamento dependerá da sua pontualidade e freqüência às consultas.
Após a conclusão do tratamento, um Programa de Controle é fundamental para a manutenção dos resultados a longo prazo, assim como bons hábitos de higiene oral e uma dieta com limitação de carboidratos.
MFS
MARCELO CALAMITA

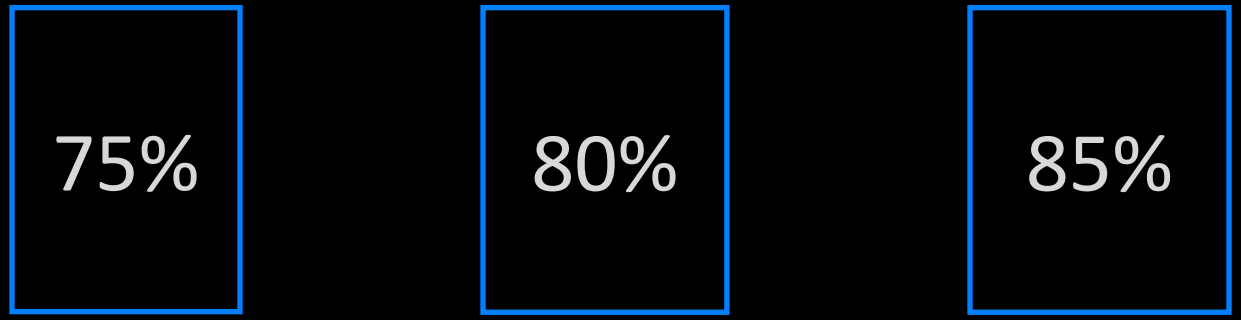


Data: 02/05/2005
Paciente: MFS, 52 anos
Queixa principal: "Prótese dentária"
Observações: "Queria ficar com um sorriso harmonioso"
Lista resumida dos dados de diagnóstico
Estado geral de saúde bom; considera-se estressada; sente dor de cabeça constante
FUMANTE; alérgica a bijuterias
Relatou hábito de ranger e "travamento mandibular"
Apresenta estalos, dor muscular e articular ATMs lados direito e esquerdo
Apresenta desgaste dental por bruxismo; mordida de topo anterior direita
Insatisfeita com aparência do sorriso
Erosão dental lingual superior
OBJETIVOS DO TRATAMENTO: Recuperação da saúde bucal com harmonização estética e funcional
PLANO DE TRATAMENTO PRELIMINAR
I. FASE DE DIAGNÓSTICO E TERAPIA PRELIMINAR
A. AVALIAÇÃO CLÍNICA GERAL E REGISTROS DE DIAGNÓSTICO
Exame clínico; Rx panorâmica; Rx periapicais
Tomografia linear da região # 46
Fotografias extra e intra-orais
1:10: Face Frontal "M", Face Frontal Sorriso, Face Perfil
1:2: Sorriso Frontal, Sorriso ½ Perfil D, Sorriso ½ Perfil E, Escala de cor
AFASTADOR: Frontal, Frontal entreaberto, Lat D, Lat E, Perfil incisal, Oclusal Mx, Oclusal Md
FUNDO DE CONTRASTE: PM-PM, C-C, IL-IL
Sondagem periodontal PSR®
B. AVALIAÇÕES ESPECIALIZADAS (ORDEM DE PRIORIDADE)
Dra. MF: Avaliar estado periodontal geral e indicar tratamento necessário.
Dr. MP: Planejar colocação de implante osseointegrado na região # 45
C. AVALIAÇÃO COMPLEMENTAR
Modelos de estudo montados em articulador
Ceroplastia de diagnóstico para quantificar aumento de D.V.O., restabelecer posição 3D da borda incisal dos incisivos centrais superiores e alinhamento do plano oclusal
Restabelecer suporte labial
Idealizar progressão do sorriso
Preencher corredor bucal
Restabelecer guia canino e guia anterior
Textura leve; baixo brilho
Cor dental básica: A2

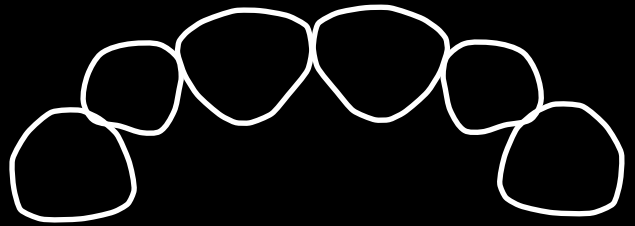


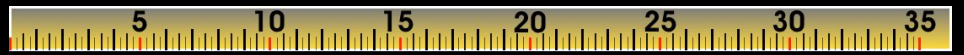


DSD – Tooth Proportion Guides



DSD – Database Elements





Choose 1st and 2nd most compatible characteristics (move green card and blue card)

A

Organized
Perfectionist
Artistic
Abstractive
Timid
Reserved

B

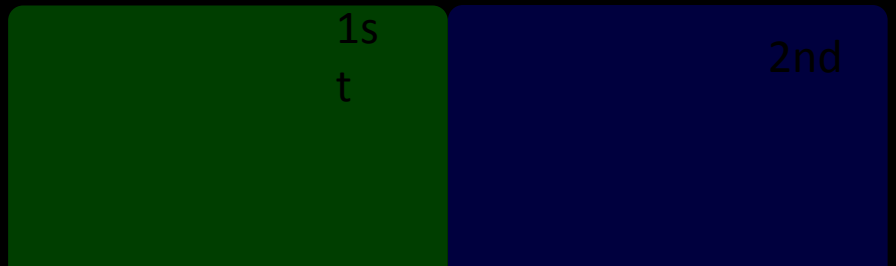
Extroverted
Communicative
enthusiastic
Dynamic
Impulsive

C

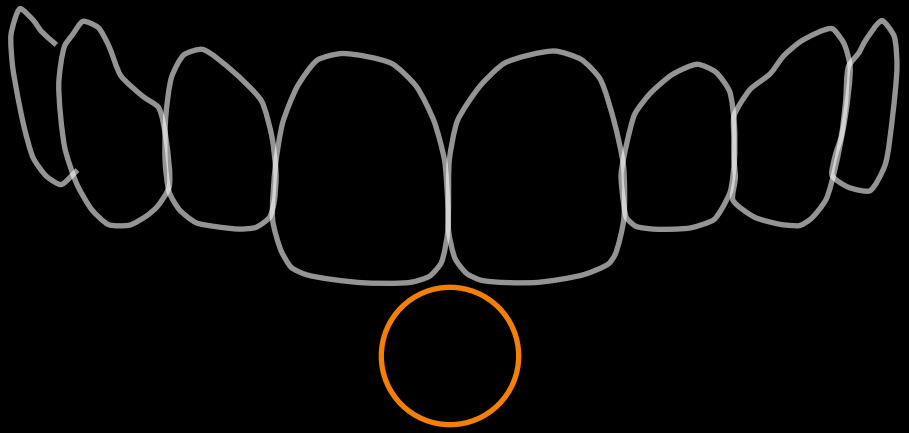
Determined
Objective
Explosive
Intense
entrepreneur
Passionate

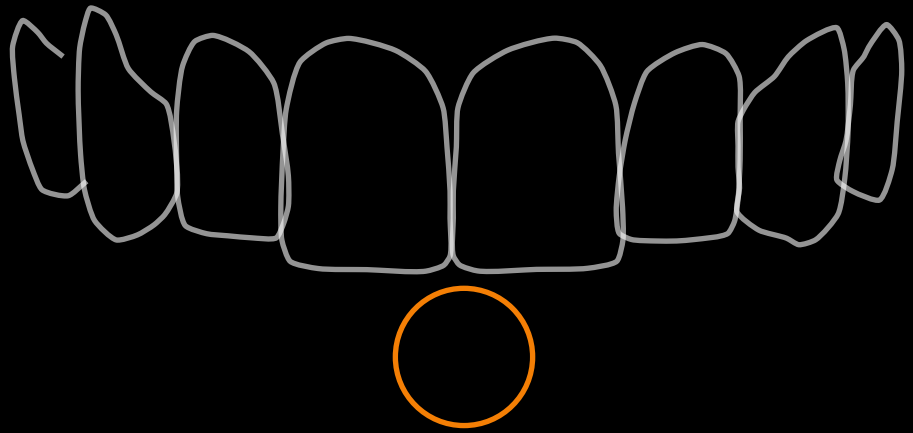
D

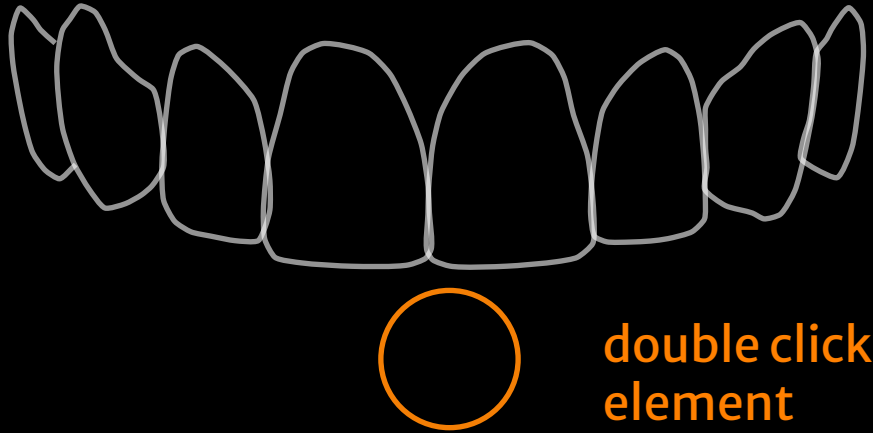
Diplomatic
Pacific
Mystic
spiritualized
Conformist
Discreet

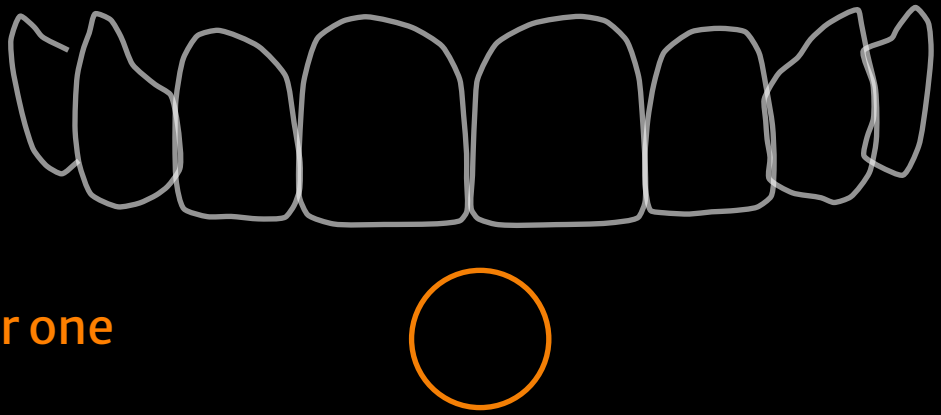


DSD – Smile Database





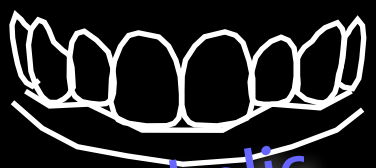




double click for one element

Morpho psychology – Visagism

Sensible

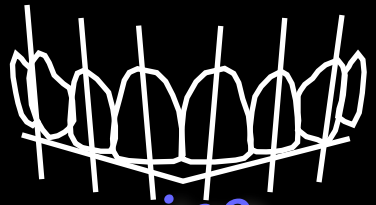


Melancholic

Oval

Organized
Perfectionist
Artistic
Abstractive
Timid
Reserved

Dynamic

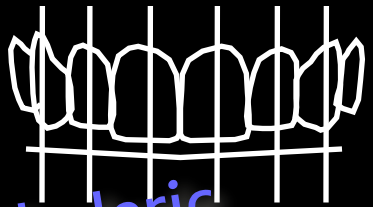


Sanguine

Triangular

Extroverted
Communicative
enthusiastic
Dynamic
Impulsive

Strong

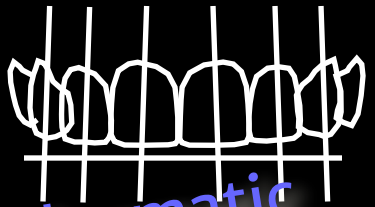


Choleric

Rectangular

Determined
Objective
Explosive
Intense
entrepreneur
Passionate

Calm

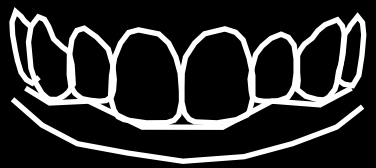


Phlegmatic

Square

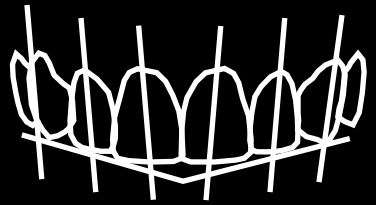
Diplomatic
Pacific
Mystic
spiritualized
Conformist
Discreet

Morpho psychology – Visagism



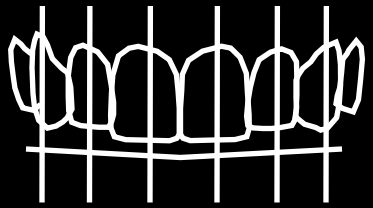
Oval

Dominant Centrals
Rounded cusps
Delicate laterals
Round Arch



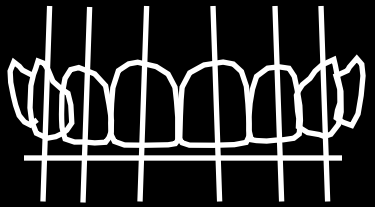
Triangular

Ascendant Smile Line
Converging Axis
Incline cusps



Rectangular

Dominant Centrals
Flat incisal edge
Aggressive Cusps
Vertical Axis



Square

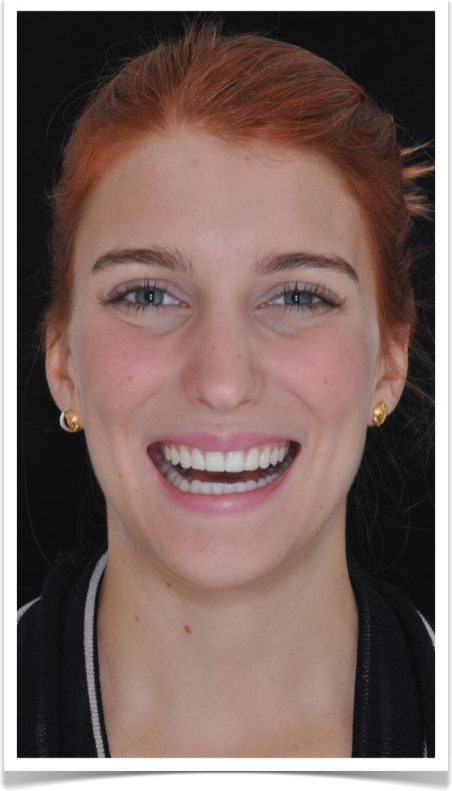
Lack of Dominance
Diverging Axis
Horizontal arrangement

Morpho psychology – Visagism

Visagism Interview

What do you want to express with your smile?

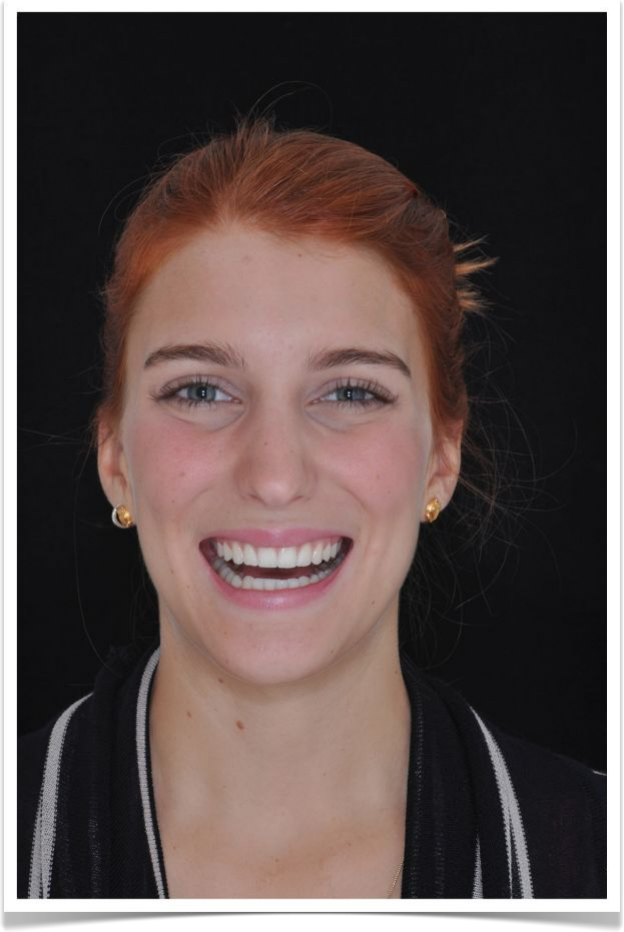
What aspects of your personality do you want to highlight and which ones you would like to soften?



Initial Conversation

Video Interview

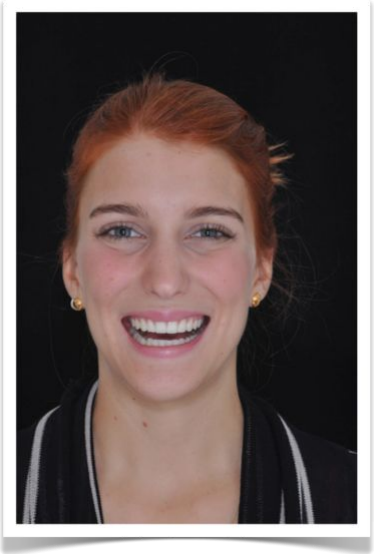
- What is your main concern ?
- What is wrong with your smile ?
- Form, Color, Overall esthetics ?
- (Give the mirror) - What else ?
- When was the last time you have been to a dentist ?
- What was the reason for your last visit ?
- How do you see yourself ? (esthetically speaking)
- Tell me/us about you (character, personality)
- Any hobbies ?
- Travels ? Where did you go last time ?
- What is your job ?
- Do you like it ?

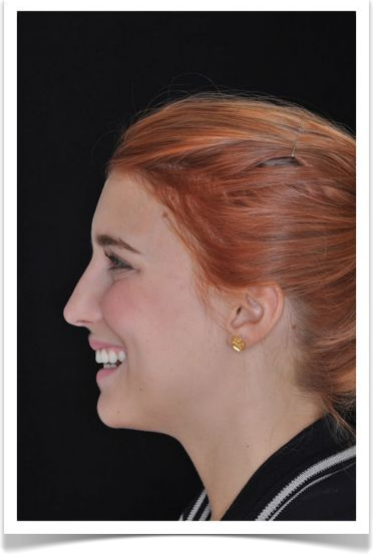


Video Interview

Technical Recording

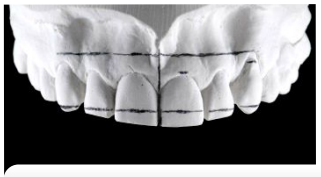
- Counting 10-1 (front face shot)
- Counting 10-1 (close-up shot)
- Counting 5-1 (profile close-up shot) x 2 if needed
- Counting 5-1 (front close-up shot)
- Counting 5-1 (profile close-up) x 2 if needed

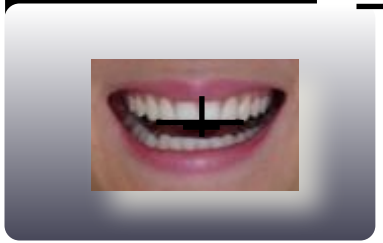


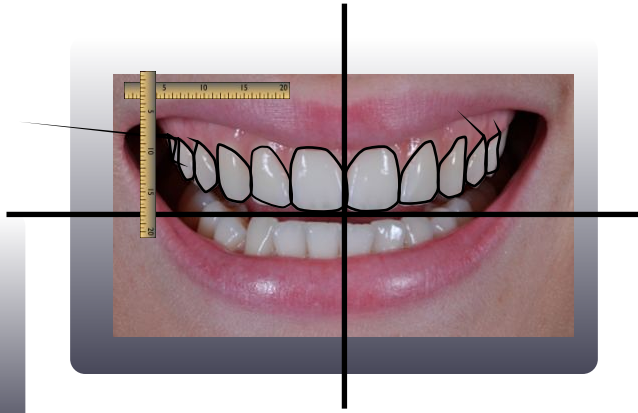


DSD – Digital Smile Design

Basic Step-by-Step

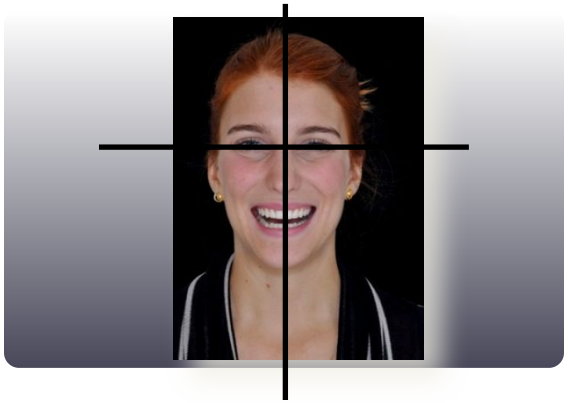






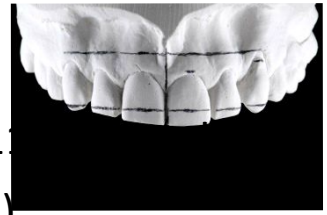
DSD – Step 1 – Digital Facebow

- bring face photo on to the cross slide of your template
- adjust the size of the photo so it is inside the slide limits
- move to “back” position, behind the cross lines
- center the photo on the screen
- move the horizontal line to the eye area
- fine move so it crosses the middle of one pupila
- click on the photo
- on the inspector menu, click the metrics (ruler) icon
- rotate using the arrows of the angle option for precise degree by degree rotation
- line up both pupillas to the horizontal line the most accurate as possible
- (adjust the average horizontal photo position if the bi-pupillar line is not the only reference)
- move the horizontal line so it crosses the teeth (any position)
- click on the photo and move it with the arrows of the keyboard (rigth and left)
- position the photo finding the best face midline (filtrum, glabela, mento)

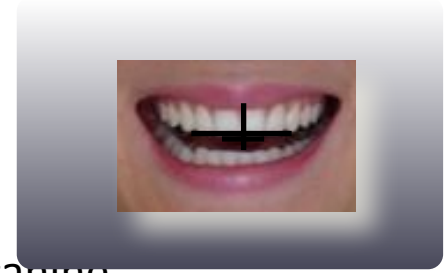


DSD Step 2 – Model Transferring

- mask the photo reducing its size focusing the mouth area
- reduce the lines so they fit the cropped picture
- select the photo + horizontal line + vertical line and group them
- enlarge the group so it takes most of the slide
- re-position if needed the horizontal line so it crosses the anterior teeth
- make sure the line is above the incisal edges of the anterior teeth
- bring the 20mm ruler image to the slide and get your digital caliper
- measure on the patient or on the model the distance between the distal (1
- draw 2 lines crossing exactly the position that you used to measure (distals)
- position the zero value of the ruler on one of the lines
- adjust by distorting the ruler image to the exact measurement lining up to the second line
- your ruler is calibrated now
- rotate the ruler vertically (use the shift key) and position on the incisal of 3 selected teeth
- check the numbers that the line crosses the ruler
- transfer the 3 distances by marking the model with your caliper and connect them

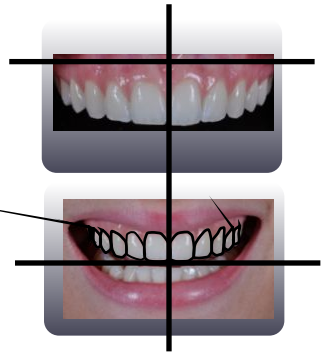


DSD – Step 3 – Transferring the High Res Intraoral Image



- duplicate the slide, save the presentation
- ungroup if needed, erase all lines and all rulers
- we will design now 3 transferring lines
- draw the first line from the tip of the canine to the tip of the other canine
- draw a second line from the middle of the central to the middle of the other central
- draw a third line exaclty on the mid line of both centrals
- select the photo and erase
- bring the intraoral high res photo with retractors and black background
- adjust its size and rotation to match the 1st line (canine to canine)
- erase the first line (canine to canine)
- move the picture so it matches the best average between the 2nd and 3rd lines
- erase the 2nd and 3rd transferring lines
- your picture now is transferred and has the same size, rotation, x position and y position

DSD – Step 4 – Smile Design from our Database



- copy and paste from any previous slide the horizontal and vertical lines
- copy the curve from our database slide and adjust to the patient's smile
- bring the desired proportion guide (75%, 80% or 85%) and position on 11 or 21
- start adjusting the curve respecting the proportion guide limits
- find the patient's proportion if desired and leave one slide with this annotation
- move the proportion guide rectangle to start finding the best possible central position
- find the central's incisal edge limit by looking the bottom line of the rectangle
- define the "meeting point" by placing the horizontal line and the curve's lowest point
- perform the visagism exercise if desired to find the best shape together with the patient
- bring the best shape, adjust its height and width to fit the rectangle proportion
- make any modification by modifying its drawing points (double click on the tooth line)
- from the existing central, duplicate, flip horizontally, position the other central
- with both centrals, repeat the steps to design the other teeth
- bring the calibrated ruler and measure the modifications to send the design to the lab
- use the measurements to also communicate with your surgeon