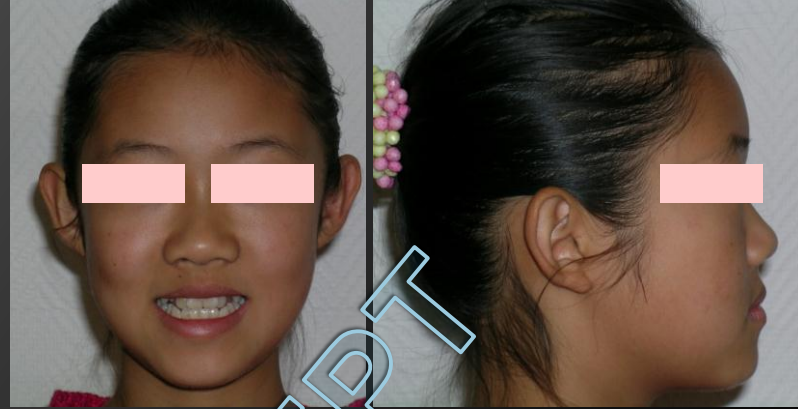


CLIII ORTHODONTIC THERAPEUTIC : COMPENSATION WITHOUT EXTRACTION AND MECHANIC WITH MINISCREWS

PRETREATMENT

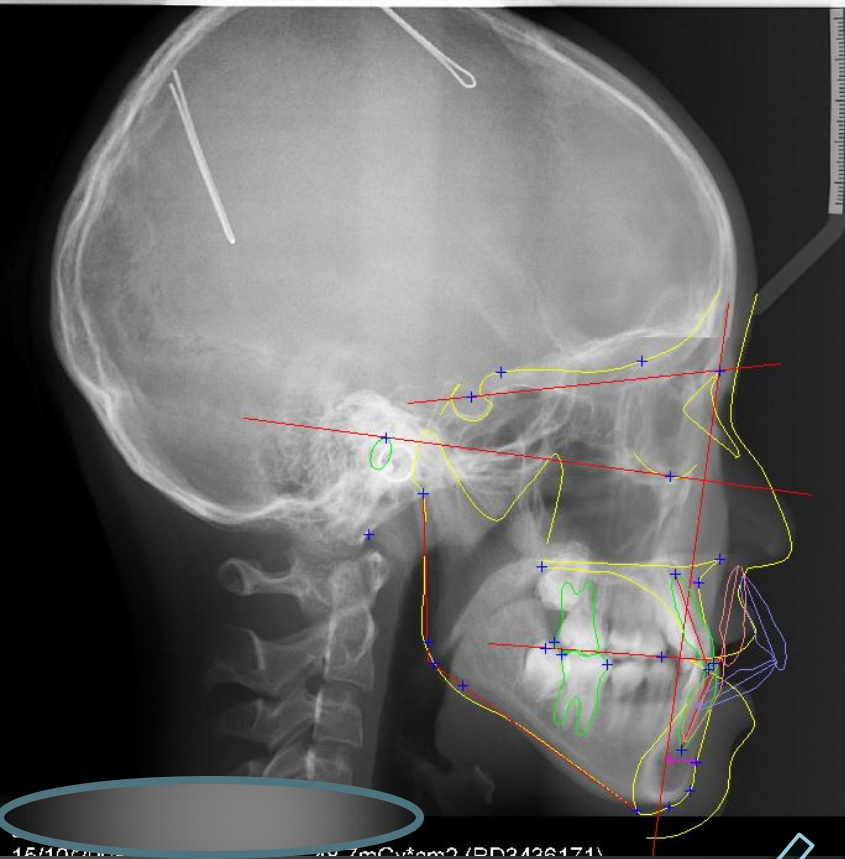
Female ,13 years old . Her primary coplaint was that her front teeth were crowded and her bite was off ! The father request a non extraction treatment approach .She exhibited CL III , incisor crossbite ,premaxilla contraction ,severe crowding in both maxillary and mandibular arches



Cephalometric DIAGNOSIS



Crowding :- 7 mm



Pretreatment ceph

tend to Mandibular incisors retrusion , skeletal long face and CLIII (11 mm skeletal discrepancy)

TREATMENT OBJECTIVES

Maxillary expansion , Small protraction of the maxillary arch retraction of mandibular arch to cure crowding with miniscrews mandibular anchorage to avoid buccal version of the lower incisors

Treatment plan

Extractions ? ; surgical solution ? Rapid maxillary Expansion?

Extractions was not option du to achieve aesthetic smile

Mesure	Evolution	Norme	11 ans 2
Analyse dentaire		Analyse dentaire	
Surplomb	0.00mm/an +/-0.70	2.60mm	-1.20mm (3.80)
Entrec. Incisif vert.	0.00mm/an +/-1.30	2.30mm	1.75mm (-0.55)
i / Mandibule	0.00°/an +/-9.00	96.00°	74.54° (-21.46)
I / FH	0.00°/an +/-7.45	112.40°	117.26° (4.86)
I/Palatin	0.33°/an +/-20.18	106.72°	111.26° (4.54)
Inter-incisif	0.00°/an +/-11.63	135.75°	140.19° (4.44)
Bord Libre Inc Sup to Stom	-0.08mm/an +/-0.50	2.82mm	1.66mm (-1.16)
Analyse osseuse verticale		- Analyse osseuse verticale -	
SN-Plan Mandibulaire	-0.33°/an +/-5.60	30.38°	41.56° (11.18)
Angle Mandibulaire	-0.83°/an +/-5.70	125.89°	127.49° (1.60)
Analyse osseuse antéro-postérieure		- Analyse osseuse antéro-postérieure -	
Déc base A'B'	-0.30mm/an +/-4.00	3.35mm	-5.88mm (-9.23)
Tendance A'B'	0.00mm/an +/-2.00	4.00mm	-5.88mm (-9.88)
Point A à Na (L FH)	-0.08mm/an +/-3.15	2.62mm	2.31mm (-0.31)
Point B à Na (L FH)	0.25mm/an +/-4.70	-0.96mm	8.19mm (9.15)
Profil Sous Naso-Mentonier	0.00°/an +/-1.10	0.00°	1.00° (1.00)

TREATMENT PLAN

STAGE 1

Rapid palatal expansion :1 week

Stage 2 maxillary alignment

Self ligating fixed appliance on maxillary arch

Wire sequence

- .018 TITANIUM ACU FORM with open coil spring on canine 23 :6 months
- 20X20 bioforce :3 month

Her maxillary transverse adaptation occurred primarily with the first two wires thanks to the acu form



TREATMENT PLAN

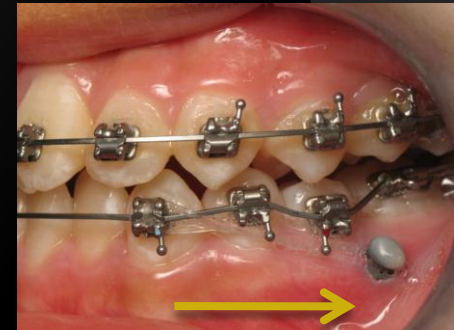
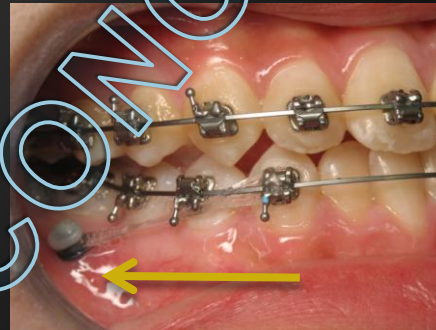
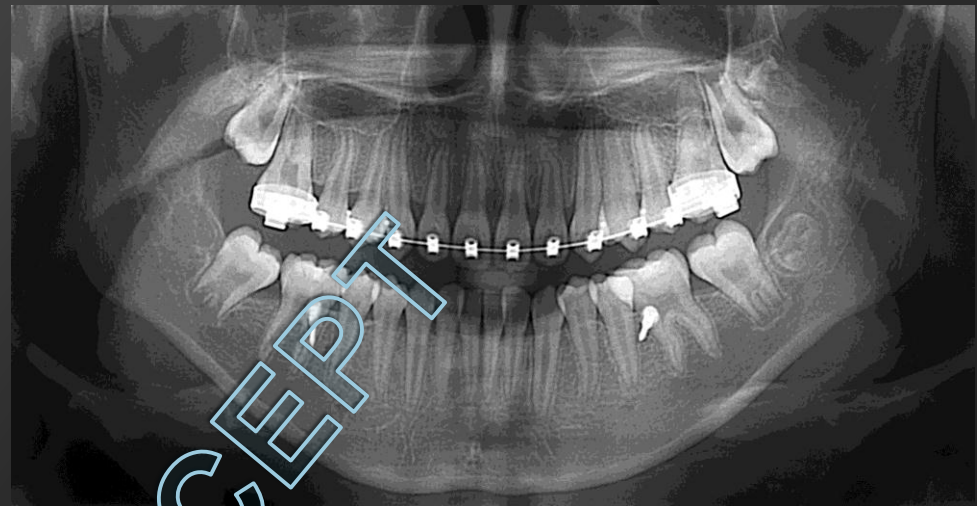
STAGE 3: Mini screws insertion

Once an appropriate position has been selected for the placement between second premolar and first molar on mandible

Stage 4 :posterior sequential brackets were bonding on mandibular arch with simultaneous retrusive action

To avoid inferior incisors buccal version with directly 20X20 bioforce wire .A small form wire was selected to contract mandibular arch while a closed chain was used to retract the posterior segment from canine to second molar !

3 months



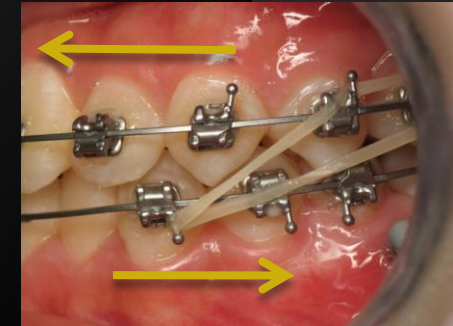
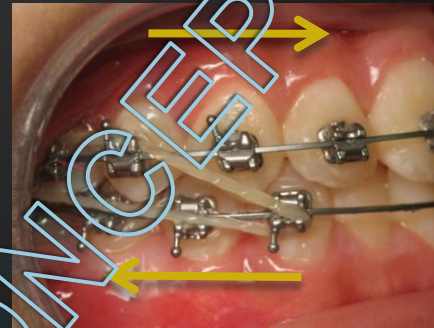
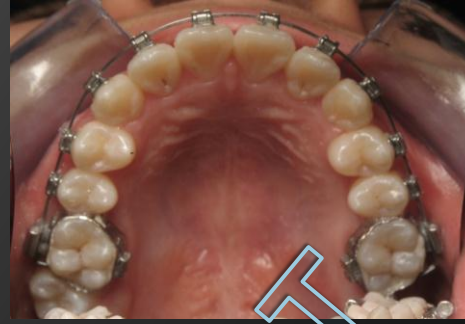
TREATMENT PLAN

- **Stage 4** : Inter maxillary elastics III to advance the maxillary arch and to retract mandibular arch . A 20X25 stainless steel was placed in the upper arch to adjust to continue bracket expression for expression incisor torque to gain full bracket engagement

3 months

- **Stage 5** : the lower incisors were bonding

With double short elastics CLIII



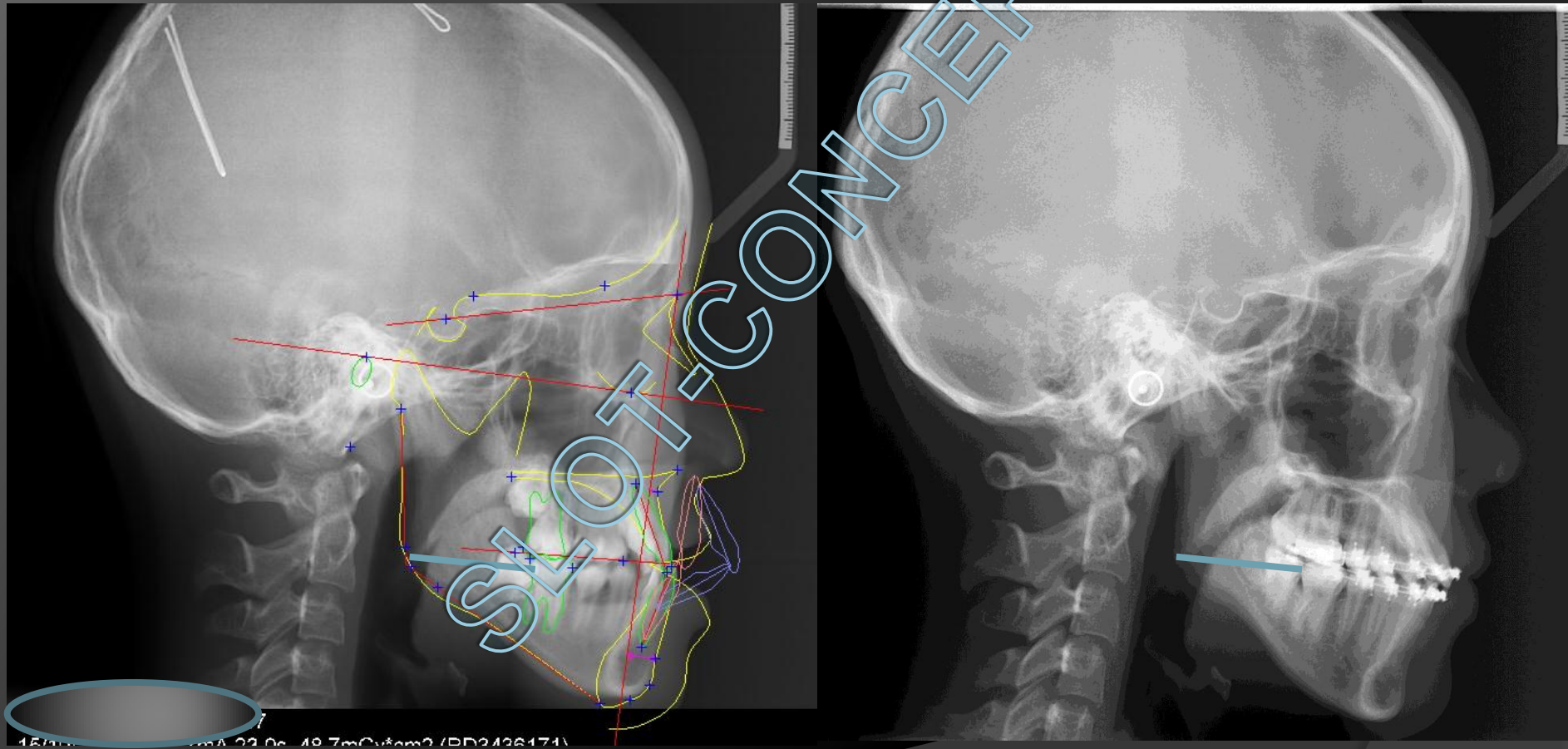
Stage 5 : control and over correction



Stage 7: lower sequence wire with 20X20 bioforce



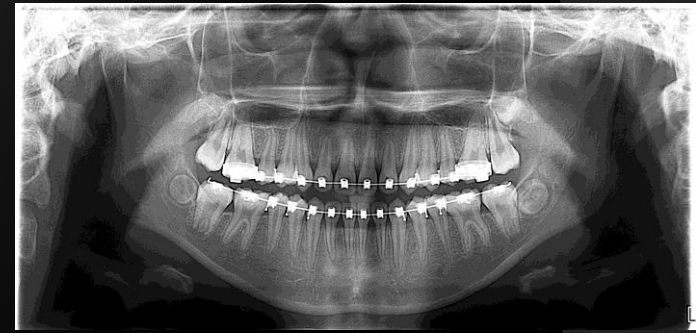
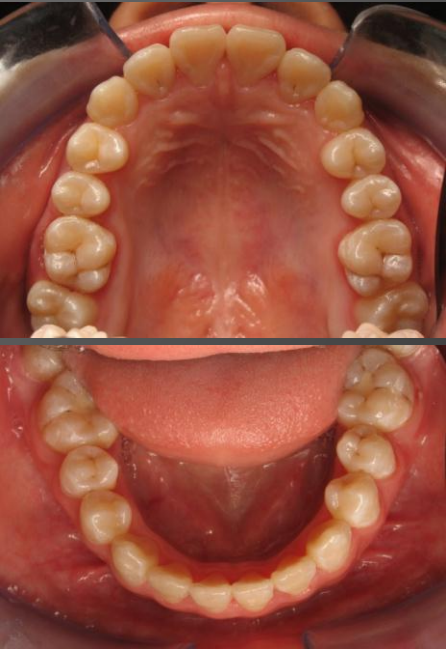
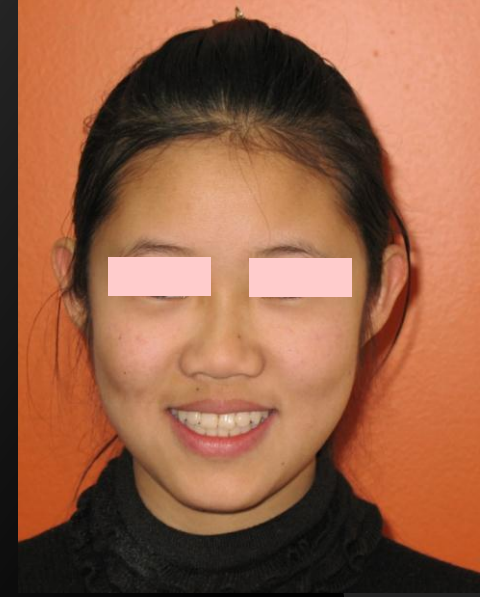
The final ceph tracing illustrate the moving back of the mandibular arch thanks to the using of miniscrew and the



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Post treatment photographs one year after debonding

Nicely balanced face and smile
Good dental result
Good stability



SLOT-CONCEPT