

CLASS III SKELETAL
80% RETROGNATHIC MAXILLA
NORMAL MANDIBLE
CONCAVE PROFILE

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TREATMENT PLAN
TANDEM APPLIANCE
FORWARD PULL HEADGEAR
(FACEMASK)

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SKELETAL CLASS III
80% MIDFACE DEFICIENCY
RETROGNATHIC MAXILLA
NORMAL MANDIBLE
CLASS III CUSPID CLASS III
MOLAR
TREATMENT
TANDEM APPLIANCE PATIENT
CANNOT BITE END TO END

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SKELETAL CLASS III
20% NORMAL MAXILLA
PROGNATHIC MANDIBLE
TREATMENT
ORTHOGNATHIC SURGERY
RETRACT MANDIBLE

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DENTAL CLASS III
ANTERIOR CROSSBITE
VERTICAL UPPER INCISORS
CLASS I CUSPID CLASS I MOLAR
TREATMENT
REMOVABLE ANTERIOR
SAGITTAL

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FUNCTIONAL CLASS III
ANTERIOR CROSSBITE
VERTICAL UPPER INCISORS
PATIENT CAN BITE END TO
END
TREATMENT
REMOVABLE ANTERIOR
SAGITTAL

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**ETIOLOGY CLASS III
SKELETAL MALOCCLUSION
HEREDITARY**

**CHECK TO SEE IF RELATIVES
HAVE CLASS III SKELETAL
MALOCCLUSIONS**

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**ENVIRONMENTAL FACTORS
CLASS III SKELETAL
MALOCCLUSION**

- ENLARGED TONSILS
- MOUTHBREATHING
- DISEASE OF PITUITARY GLAND
- HABIT OF PROTRUDING MANDIBLE
- IRREGULAR ERUPTION OF INCISORS
- PROBLEM WITH NASAL BREATHING

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TREATMENT PLAN

**ORTHOGNATHIC SURGERY
POSSIBLE NERVE DAMAGE
AGE 17
2 YEARS ORTHODONTIC
TREATMENT**

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**ORTHOGNATHIC SURGERY
RETRACTION OF MANDIBLE
RETRACTION OF TONGUE
REDUCES PHARYNGEAL
AIRWAY
INCREASE RISK SLEEP
APNEA**

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TREATMENT PLAN

**TANDEM APPLIANCE
FORWARD PULL HEADGEAR
(FACEMASK)**

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**INDICATIONS
TANDEM APPLIANCE
HORIZONTAL GROWER
DEEP OVERBITE
ANTERIOR CROSSBITE
SHORT OR NORMAL LOWER FACE
HEIGHT
MIDFACE DEFICIENCY**

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CONTRA INDICATIONS TANDEM APPLIANCE

- VERTICAL GROWER
- LONG LOWER FACE HEIGHT
- PROGNATHIC MANDIBLE

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EXPANSION OF MAXILLA DISRUPTS
CIRCUMMAXILLARY SUTURE SYSTEM
PRIOR TO FORWARD PULL OF
CLASS III ELASTICS

EXPAND MAXILLA 3-4 mm PRIOR TO
CLASS III ELASTICS
FACILITATES PROTRACTION OF
MAXILLA

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UPPER BUCCAL ARM TANDEM APPLIANCE

20° DOWNWARD
PASSES THROUGH CENTRE OF
RESISTANCE OF MAXILLA

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TANDEM APPLIANCE CLASS III ELASTICS NIGHT PULL DOWN 20°



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IMPROVEMENTS WITH TANDEM APPLIANCE

- CORRECTION ANTERIOR CROSSBITE
- INCREASE VERTICAL MANDIBLE
ROTATES DOWNWARDS AND
BACKWARD
- PROTRACTION OF MAXILLA
- IMPROVES FULLNESS UPPER LIP

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IMPROVEMENTS WITH TANDEM APPLIANCE

- HIGHER ACCEPTANCE THAN FACEMASK
- STRAIGHT PROFILE
- B POINT MOVES BACKWARD
- A POINT MOVES FORWARD

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IMPROVEMENTS WITH TANDEM APPLIANCE

- INCREASES CHILD'S SELF ESTEEM
- REDUCES TREATMENT TIME FULL BRACES

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IMPROVEMENTS WITH TANDEM APPLIANCE

- EARLY CORRECTION SKELETAL CLASS III MALOCCLUSION
- REESTABLISH DEEP OVERBITE RESTRICTS FORWARD GROWTH OF MANDIBLE
- NORMAL OVERJET
- CORRECTION ANTERIOR CROSSBITE

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OVERCORRECTION CLASS III MALOCCLUSION

- MANDIBLE GROWS MORE THAN MAXILA IN MIXED DENTITION
- CREATE DEEP OVERBITE RESTRICTS FORWARD GROWTH OF MANDIBLE

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RETENTION CLASS III MALOCCLUSION



- CLASS III SILENT NITE
- MOUTH OPENS
- MANDIBLE GOES POSTERIORLY

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