Software for Orthognathic Surgery and Orthodontics:
Diagnosis and Treatment Protocols

NemoFAB is a leading software solution used worldwide for Orthodontics and Orthognathic Surgery designed by Dr. G William Arnett. NemoFAB software is a complete tool for the diagnosis and treatment of the facial, airway, and bite (FAB) deformities. The FAB methods and protocols are based on 40 years of surgical and orthodontic experience. With FAB software the doctor is able to provide the best care for the patient. FAB software includes the following modules - FAB forms, photo analysis, records generation, volume orientation, osteotomy design, 2D diagnosis and treatment, 3D cephalometric diagnosis/treatment, and splint design/exports.

Dr Arnett

BENEFITS

Total Surgeon Control
The surgeon runs the software with as much or little help as desired. Surgeon control is the key to excellent care.

Reduced times
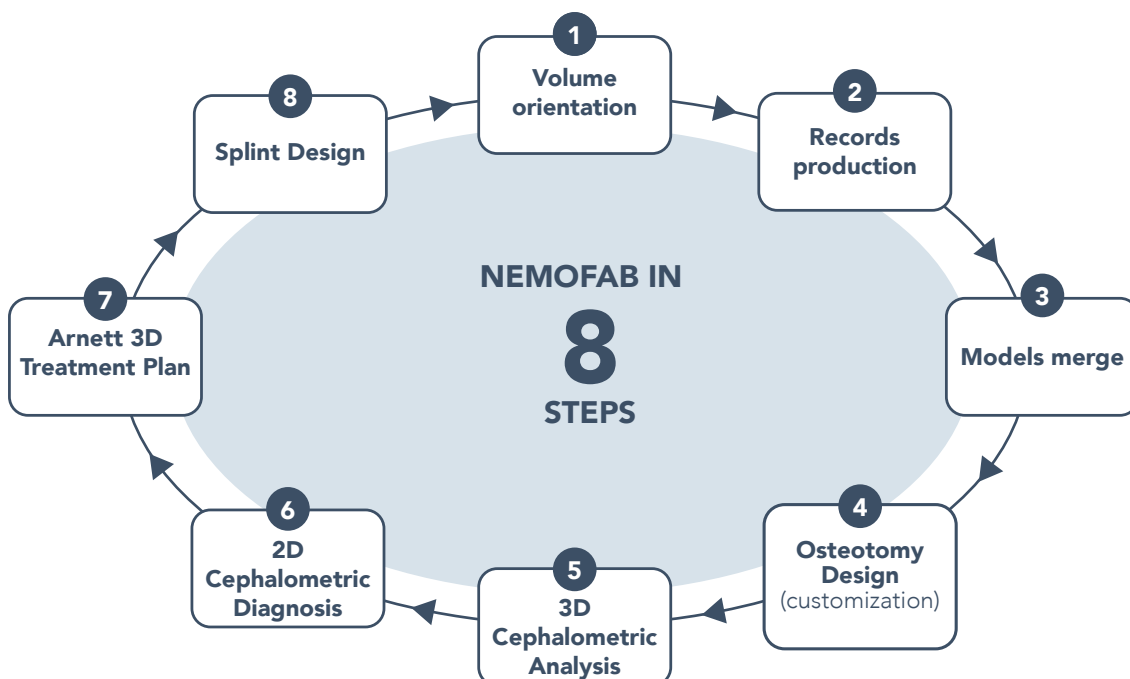Reduces diagnosis, treatment planning and design of the surgical splint times.

Precise and Complete Protocol
Software tested by international experts.

3D **Appropriate communication**
Acts as an excellent communication tool with the patient and referring doctors in all the phases: diagnosis and treatment planning in Orthognathic.

NEMOFAB IN 8 STEPS

1 Volume orientation
2 Records production
3 Models merge
4 Osteotomy Design (customization)
5 3D Cephalometric Analysis
6 2D Cephalometric Diagnosis
7 Arnett 3D Treatment Plan
8 Splint Design

1	**Volume Orientation:** The orientation of the volume is automatically achieved with the introduction of clinically significant measurements. The deviation of the maxillary midline, levels, yaw and distance to true vertical line.
2	**Records:** During this process, frontal, lateral and panoramic radiographs, TMJ slices are produced and the airway analysis is performed. These records are stored conveniently in the image library for later viewing and analysis.
3	**Model Merge:** in this step the CBCT and models are rapidly and automatically merged as one, to allow diagnosis and treatment planning to follow. This step is not required in orthodontic diagnosis and treatment planning.
4	**Osteotomy Design:** According to customization possibilities, the surgeon designs the osteotomies to reflect exactly his or her preference for anatomical design. The customization of the osteotomies produces a preview of what will be seen in the operating room.
5	**3D Cephalometric Analysis:** The surgeon, having the CBCT digitized volume with great precision, automatically obtains "key landmarks" which lead to consistent and superior results.
6	**2D Cephalometric Analysis:** Soft tissue cephalometric treatment planning and cephalometric profile corrections are achieved in step 6. Cephalometric treatment planning is then utilized to correct problems of the profile, the airway and the occlusion.
7	**3D Treatment Planning:** 3D frontal and lateral planning allow us to make corrections of the face, the airway and the occlusion. The frontal corrections are based on the results obtained in step 1 - volume orientation. The correction of the profile made in step 6 is automatically imported into the 3D scene.
8	**Splint Design:** In the final step the doctor is able to design the splint to his or her specifications. The splint can then be made where ever for the doctors convenience.

CHARACTERISTICS (FEATURES)

- Clinical forms based on Dr. Arnett's protocol
- Accurate volume orientation from photographs or manually. Includes Dr. Arnett's protocol of the CBCT based on the clinical patient
- Tracing of airway meshes and condyles, generation of RX (frontal, lateral and panoramic)
- Automatic segmentation of jaws
- Design of customizable osteotomies
- Incorporation of different cephalometric analyses in 3D. Possibility of customization

- Implementation of 2D surgical treatment planning from 2D cephalometry and transfer to 3D surgical treatment planning
- Implementation of surgical treatment planning. Includes Dr. Arnett's surgical protocol
- Analysis of occlusion with virtual articulator
- Generation of final and intermediate SPLINTS
- Creation of cephalometric analyses reports, treatment plans.
- Multidisciplinary integration with any of the NemoStudio's Suite Modules by Nemotec

Discover and request an online demo of NemoFAB software by calling:

+34 91 433 52 22

or send an email to **info@nemotec.com**

ABOUT NEMOTEC

Unique
multidisciplinary digital platform

10,000
doctors trust in Nemotec

Customized
technical support

Opinion Leaders
value Nemotec

60
countries across the world