An interview with

Jonas Capelli Júnior

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- Associate Professor of Orthodontics, UERJ.
- Director of the Brazilian Board of Orthodontics and Dentofacial Orthopedics (BBO).

All young people have an idol to follow, which can be a rock star or a great professor. Many people, including the greatest professors, do not realize their positive influence in their students’ education. When I started the specialization course in Orthodontics at the Rio de Janeiro State University (UERJ), I knew nothing about this specialty, dentist’s offices or teaching, and I needed orientation. Having good-hearted and altruist professors determined the path I should follow. Among such professors, I would like to highlight Prof. Jonas Capelli Jr. — the expert I present in this interview. Being from the first class of the course, he has always been a model to us. Dr. Capelli Jr. is the Director of the Brazilian Board of Orthodontics and Dentofacial Orthopedics (BBO) and has received many awards, such as the CDABO Case Report of the Year, for the best case report published during 2007 in the AJO-DO. In addition, he has had more than 60 articles published in scientific journals. Therefore, coordinating this interview could not be more rewarding and satisfactory to me. I proudly claim that it will provide us with a wide range of expertise concerning our clinical and scientific practice within our beloved field. In addition, this interview will allow us to know more about the professor who has been considered a positive and inspiring milestone in his students’ lives as well as in the history of Brazilian Orthodontics.

Sissy Maria Mendes Machado

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* Patients displayed in this interview previously approved the use of their facial and intraoral photographs.
Is there any clinical difference in the quality of smile esthetics diagnosis performed by photographs and filming? Carlos Alexandre Câmara

In Orthodontics, three methods are commonly suggested when studying the smile, namely: Qualitative, semi-quantitative and quantitative methods. The qualitative method is strictly visual; the orthodontist looks at the patient’s smile and assesses, for instance, the smile line height. In the semi-quantitative method, analysis of the smile is performed by means of photographs, while in the quantitative method, the smile line height is determined with the aid of measurement instruments and may vary from the simplest to the most sophisticated approaches.¹

Capturing the smile image through photography presents many drawbacks. Photograph standardization is difficult due to differences in camera positioning, distance control between the patient and the focal point, head angle and the impossibility of reproducing the same smile in different photography sessions.²

Capturing an image through filming, creating a video for subsequent analysis with computer software seems to be a very efficient method for the dynamic analysis of speech and smile.³

Clinically speaking, I believe that the quality of esthetic diagnosis may be well established through photography. Moreover, the orthodontist is in contact with the patient during the first appointment, which gives the specialist the opportunity to observe all variables involved in the process of diagnosis. On the other hand, with regard to researches involving smile analysis at different time intervals, in which different measures are carried out, recording video images seems to be a valuable tool. Our studies with videos in which patients are encouraged to say a sentence and then smile seem to be highly efficient for analyzing the exposure of teeth and soft tissues at different time intervals.⁴,⁵

These videos last for about 12 seconds, comprising a total of 360 frames per video. They are analyzed and split up — at rest, during speech and smile — in order to produce four static frames (corresponding to a photograph) for analysis of the least and the greatest exposure of the incisor, for example. Figure 1 demonstrates an example of this method.

What are the main esthetic parameters that guide your orthodontic treatment plan?

Carlos Alexandre Câmara

Our main parameters are listed below and illustrated in Figures 2 to 7:

1) Incisor exposure (Fig 2): Taking into account the length and elevation of the lip as well as the vertical height of the maxilla.

2) Negative lateral space or buccal corridor (Fig 3): There are many publications, comprising studies developed with digital image manipulation, which present different options of buccal corridor exposure. It seems to be common sense that minimal corridors are more attractive.²,³,⁵

3) Smile arc (Fig 4): Taking into account that, in an ideal smile arc, the curvature of the incisal edge of the maxillary incisors coincides with the margin of the lower lip when smiling (“consonant”). The lower lip may touch, not touch or slightly cover the incisal edge of the maxillary incisors.

4) Upper lip curvature (Fig 5) — Three options: upward, when the commissure is higher than the center of the lip; straight, when the commissure and the center of the lip are leveled; downward, when the commissure is lower than the center of the lip. Upward and straight curvatures are considered more esthetic than the downward curvature. The upper lip curvature is guided by the facial muscles; therefore, it cannot be changed through orthodontic treatment.

5) Smile symmetry (Fig 6): Commisures move upward and laterally when smiling, but there may be some difference in amount and direction of movement.
between the right and the left sides. Should there be any significant difference, it may be due to deficiency of muscular tonus in one of the sides of the face.

6) Frontal occlusal plane (Fig 7): Represented by a line that goes from the incisal edge of the upper right canine to the incisal edge of the upper left canine. Transversal inclination may be caused by a difference in eruption time or due to skeletal asymmetry.

Clinical examinations are essential to perform a differential diagnosis to distinguish between smile asymmetry, occlusal plane inclination and facial asymmetry. The influence of the lower teeth on the smile cannot be seen in dental cast models.

7) Dental components: taking into account the size, shape, color, alignment, angulation and midline. There are great studies which comprise such content.9
Patient’s age is another esthetic parameter which I consider essential for treatment plan. Over time, men and women present less exposure of maxillary incisors and greater exposure of mandibular incisors, due to the fact that the length of the upper lip increases, while the length of the lower lip decreases with age. It has been proven that the amount of exposure of mandibular incisors after 60 years of age is equivalent to the amount of exposure of maxillary incisors before 30 years of age.\(^{10}\)

With aging, the lips go through many changes which affect the exposure of teeth. For example, muscle atrophy that implies in decreased lip volume, changes in lip shape and increased length of the lips. Such changes highlight the importance of normative values according to age, allowing older patients to have their treatment plan objectively and precisely carried out.\(^{11}\)

After the age of 40, there is a 2 mm mean loss of muscle capacity to lift up the upper lip. This contributes to age one’s appearance, since upper anterior teeth are hidden by the upper lip at smile.\(^{11}\)

When a patient of such age comes to me complaining about dissatisfaction concerning crowding of mandibular incisors, claiming that he/she is dissatisfied with his/her appearance in photographs and that he/she has recently noticed this situation, I suppose that such crowding had already been there for a long time, but has been recently noticed.

Deepening of the nasolabial angle is another consequence of aging, causing great esthetic impact. As time goes by, there is loss of cheek prominence due to atrophy, making the skin loose. As the cheek becomes flaccid, the elevator muscles of the upper lip pull the nasolabial folds upward, resulting in a deep nasolabial angle.

When preparing the orthodontic treatment plan, the orthodontist should consider the patient’s age, due to the fact that with aging, many changes concerning the exposure of incisors occur. Generally speaking, it is better to rejuvenate the patient’s appearance than aging it. In severe overbite cases, especially in adult patients, it is more advisable to intrude mandibular incisors than maxillary incisors, in order to ensure a young and esthetic smile by the end of the treatment. Should it be necessary to intrude maxillary incisors, the orthodontist must assess not only the exposure of the incisors at rest and speech, but also the patient’s age and sex, quantifying how much intrusion will be possible without compromising esthetics. With regard to excessive gingival display, it is generally better to treat gingival smile in a less aggressive way, due to the fact that aging will naturally reduce this feature.\(^{12}\)
Our researches carried out at the Rio de Janeiro State University/Brazil (UERJ) also suggest that men are more likely to suffer the effects of aging than women. A comparative example regarding these differences is demonstrated in photographs of young and older men, as shown in Figure 8. Many factors may turn a young skin into a precociously aged skin, namely: sun exposure, smoking, stress, hormonal changes, medicines and unhealthy eating habits. The main villain has always been excessive sun exposure. Therefore, excessive sun exposure, due to sports practice or outdoor activities, without proper protection from UV radiation, may be one of the factors that influence the fact that men are more affected by the effects of aging. However, it is important to consider that smoking has been the main cause of early aging, as it directly acts upon the epithelium elastic fibers and collagen matrix.5

In the last few years, some authors have questioned how valid is to use a simple photograph to assess esthetics and determine the patient’s treatment plan. They have suggested the use of dynamic images recorded in video. In your opinion, capturing dynamic images through filming, in order to use them for the diagnosis and treatment plan in Orthodontics, is a valid method?

Sissy Mendes Machado

Smile analysis performed through standardized photographs may be used as a subsidiary method for diagnosing and planning orthodontic and surgical treatments, allowing assessments before and after the treatment. Additionally, it may be considered a reliable instrument for comparing pre and posttreatment phases. However, it is important to highlight that this technique may be considered dubious, as it does not represent a smile apex. Video recording may provide larger information for facial esthetic assessment.4,5

Dynamic analysis of speech and smile has been made possible because of technology. Current low prices and popularization of digital cameras have facilitated access to this type of equipment. Photo editing programs are available in most computers. This facilitated the identification of both positive and negative aspects of facial esthetics, enabling, for example, observation of the effects of aging in the perioral soft tissues. Videography may be used in orthodontic practice with many purposes, such as diagnosis and treatment plan, communication between specialist and patient during appointments and communication between specialists.4

Figure 8 - Exposure of upper incisor is greater in younger individuals (A, B, C) while exposure of lower incisor is greater in elder individuals (D, E, F).
There has been increasing awareness among professors, researchers and clinicians about the importance of biology for orthodontic practice and this has been reflected in the curriculum of the main Orthodontics programs in the world. Why is it important for the orthodontist’s formal education to be familiar with the biology of tooth movement? Ildeu Andrade Jr.

The postgraduate programs in Orthodontics have always favored formal education and training based on orthodontic mechanics, as all credit hours are spent with studies performed with typodont simulator. However, Orthodontic clinical practice is based in both mechanical and biological parameters. The mechanical approach is enough for treatments performed on the typodont, however, in clinical practice, knowledge of biology involved in the process is necessary. I am a die-hard fan of the mechanotransduction definition: Mechanical forces applied to teeth do not result in mechanical movement only, they also produce biological stimuli capable of promoting desirable tissue reactions in order to achieve a stable and long-lasting change in tooth position. The clinical practice of this definition lead us to question the claims concerning the types of brackets or techniques offering drastic reduction in treatment duration. Whenever I see an advertisement or a presentation stating this type of offer, I begin to think: Is this capable of promoting a differentiated biological stimulus? If not, what explains the hypothesis of reducing treatment duration?

The main orthodontic journals in the world have provided more opportunities for the publication of researches into biology of tooth movement. In your opinion, what are the benefits — for us, orthodontists and for our patients — of the increasing interaction between biological and clinical researches in Orthodontics? Ildeu Andrade Jr.

We have conducted a survey at PubMed, in March 2013, which reveals an increase in the number of publications available in the literature, when the keywords “orthodontic tooth movement” were used (data is shown in Fig 9).

There are many reasons for this increasing number of publications. First, the total amount of scientific journals has significantly increased, providing the opportunity for the publication of scientific findings. We are currently facing the dilemma of what we should read due to the great amount of information that is available. However, I believe that the main reason for this increasing number of publications is the development of researches that have as final outcome the publication of their results. Researches carried out with biomarkers aim at studying not only orthodontic tooth movement in many different situations, but also root resorption as well as accelerated and decelerated tooth movement. Such researches, which frequently involve molecular biology analysis, have contributed for a significant increase in the number of publications in the 2000s, especially in the last five years.

Our studies involving the quantification of different markers present in the gingival crevicular fluid while moving teeth aim at understanding what happens when we apply forces to induce tooth movement. As a researcher, I aim at understanding the cascade of biological events involved in tooth movement. The main benefit for the orthodontist is to understand why his patients react differently to the same mechanics, same appliances and same activations. Why do patients react differently towards the gains and sequelae of orthodontic treatment? Force modulation being the only variable used to answer that seems to be a simplistic approach towards a more complex issue.

In your opinion, what are the future prospects and the potential clinical impacts of researches on the cellular and molecular mechanisms involved in biology of tooth movement? Ildeu Andrade Jr.

Our initial studies on gingival crevicular fluid (GCF) were based on Periodontology researches which claim that the GCF flow may increase by 30 times in periodontitis, when compared to healthy sulcus. As orthodontic tooth movement has inflam-
information-dependent characteristics, we believe that the GCF volume would increase during this movement. However, we have observed that such data are not consistently expressed. The GCF volume does not seem to be a reliable biomarker used for the analysis of tissue remodeling during orthodontic treatment.18-21

With regard to periodontal patients, we based our studies upon previous evidence which claim that clinically healthy sites of patients with periodontitis have greater levels of GCF and periodontal pathogen biomarkers than clinically healthy sites of patients without periodontitis.22 In other words, periodontal patients would be considered as high-risk patients for orthodontic treatment, as pro-inflammatory markers originated from periodontal diseases have been superposed onto those markers activated by tooth movement. It is a chaotic scenario! However, a study carried out with periodontal patients undergoing tooth movement reveals that orthodontic movement of periodontally compromised teeth does not result in significant changes of matrix metalloproteinase in the GCF.23 Clinically speaking, this is a great finding as it assures us that moving periodontally compromised teeth, yet healthy, is possible.

With regard to future prospects, it is necessary to have a better understanding concerning the molecular constituents of the gingival crevicular fluid which are more sensitive to orthodontic tooth movement, the meaning of GCF as well as its biological function. Studies on GCF have enabled non-invasive monitoring of tissue remodeling and may serve as a good tool for researches on tooth movement, root resorption or dental ankylosis. The more we know about the biological mechanisms of orthodontic tooth movement, the earlier we shall develop local administration methods of medication. Local application of bioactive agents associated with conventional biomechanics may be used to facilitate or hinder tooth movement.

In clinical practice, orthodontic treatment performed in adults is different from treatment performed in adolescents, as adults are more likely to have compromised dentitions. Based on your experience with biological studies on tooth movement, what would be the most appropriate treatment plan for adult patients with bone loss and clinical attachment loss caused by jeopardizing the biological space or by previous periodontal diseases, taking into account biomechanical and functional properties?

Orthodontic treatment of patients with periodontal disease may not be faced as a common treatment. All orthodontic cases require effective diagnosis and planning. However, this practice is more difficult in periodontal patients. We must bear in mind that all types of treatment must benefit the patient. When the periodontium is compromised and the orthodontic plan is defective, the chances of harming the patient, due to an improperly performed treatment, are high. Therefore, such cases require integration between specialists. The patient should not start orthodontic tooth movement without his periodontist’s approval, and the periodontist must follow-up the periodontal situation during orthodontic treatment.25,26 Figures 10, 11 and 12 show a good example of tooth movement in a patient with little periodontal attachment.

Tooth movement should not be performed in patients with periodontal diseases for many reasons, namely: 1) It may cause periodontal abscess, especially in deep periodontal pockets; 2) After periodontal therapy, edema is eliminated and gingival collagen fibers consolidate, leading to tooth accommodation which may be favorable to tooth alignment and, thus, reduce the duration of a subsequent orthodontic treatment; 3) At the beginning of orthodontic treatment, it is important to know the height as well as the density of the bone surrounding the teeth. Such information may be observed by the periodontist during surgery and provided later on to the orthodontist.25,26

The orthodontic treatment of patients with controlled periodontal diseases is usually shorter and direct. Reduction in the periodontium generates important implications for orthodontic tooth movement. There is a direct linear relationship between the alveolar support and the localization of the center of resistance. As the alveolar bone support reduces, the center of resistance moves apically. Both the intensity and the point of force application during orthodontic treatment must be adapted in such situations. The applied forces must be lower than those applied to healthy periodontium. In order to control tooth movement — due to the fact that the center of resistance is apically located — all accessories must be bonded closer to the gingiva.
Figure 10 - Intraoral photographs and periapical radiograph taken at the beginning of the orthodontic treatment in patient with controlled periodontitis. Tooth #22, with little attachment, must be moved with low intensity forces.

Figure 11 - Tooth #22 position improves after tooth movement. However, it is important to highlight that the attachment is by long junctional epithelium; there is no new periodontal ligament attachment.
For adult patients, the orthodontic plan with ideal objectives must be reconsidered when the periodontium is compromised, when there is great tooth loss or other limiting conditions. Such patients need an objective and directed treatment in order to have their problem quickly and efficiently solved. Three factors must be taken into account at this moment, namely: 1) Simplification — seek mechanics to favor patient’s oral hygiene. 2) Goals — ponder which would be the best result taking esthetics, stability and functional occlusion into account. Patients usually seek improvements in esthetics, which does not always provide stable results. Therefore, the specialist must discuss with the patient in order to reach a
mutual agreement on the final outcome. 3) Risk-cost/benefit — talk to the patient about the benefits of the treatment. The costs involve not only the financial value, but also pain, discomfort and tooth mobility. Risks are seen as the possibility of creating problems which did not exist in the first place, such as decalcification, root resorption, mucogingival problems and even tooth loss. At this moment, the orthodontist must also notify the patient about the risks of not taking the treatment.25 Figures 13 to 16 illustrate a case with a realistic objective: the need for intrusion of left mandibular molars for prosthetic restoration of antagonist teeth.

What is your opinion about early orthosurgical treatment with esthetic and psychosocial purposes? Carlos Alexandre Câmara

When treating Class III, we have good results in patients from 7 to 10 years old with mild to moderate malocclusion and in patients from 17 to 19 years old undergoing the renowned orthosurgical treatment, or in cases with little maxillomandibular discrepancies in which we have the option of orthodontic camouflage.6 In clinical practice, I have always noticed a gap concerning the treatment of Class III patients from 12 to 14 years old with dental and facial deformities: it is too late for an interceptive approach and too early for surgery. Awaiting growth to end prior to starting orthosurgical treatment is sometimes extremely difficult for patients suffering from severe facial deformities. It is difficult to explain to them and their guardians that treatment will happen after 4 or 5 years, only. Therefore, orthosurgical treatment may be performed during the active growth phase, in cases of severe skeletal disharmonies in which patients present significant functional, esthetic or psychosocial issues7 — as shown in Figures 17 to 21. To indicate this therapy, orthodontic criteria, such as mild intramaxillary discrepancy and the possibility of preoperative preparation without major dental repositioning, must be met. A second orthosurgical treatment will probably prove necessary after growth has ended. This treatment should not be considered as routine, but rather as a therapeutic option in carefully selected cases.7,8

Figure 15 - After intrusion and placement of crowns over the implants.

Figure 16 - Study models demonstrating the performed treatment: Initial (A); after intrusion of teeth #26 and #27 (B); crowns placed over implants in the mandibular arch (C).
Figure 17 - Facial and intraoral photographs taken at the beginning of the orthodontic treatment in patient aged 13, with Class III dental and skeletal relationship.
Figure 18 - Facial and intraoral photographs after orthodontic preparation for orthognathic surgery.
Figure 19 - Facial and intraoral photographs taken at the end of treatment (surgery performed by Dr. Henrique Martins).

Figure 20 - Cephalometric radiographs at initial (A), presurgical (B) and postsurgical (C) phases.
Is there a minimum age required to indicate orthognathic surgery for growing patients? If so, what would it be concerning the different types of deformities? Carlos Jorge Vogel

The minimum age required to indicate orthognathic surgery for growing patients is directly associated with the development of dentition. Therefore, the dental development stage is decisive for surgical procedures involving all kinds of facial deformities in which early surgery is recommended — mandibular hyperplasia or hypoplasia, maxillary hypoplasia or maxillary vertical hyperplasia. The development degree of maxillary canines is important to assess the viability of maxillary surgery with no harm to the dental structure.

Mandibular advancement surgery is recommended after mandibular second molar eruption. However, the ideal would be to have the surgery performed after all permanent teeth have erupted, except for the third molars. We sometimes have to wait to perform the surgery in order to assure a greater dental development. Figures 22 to 26 show an example of a patient treated at age 12 when dental development allows all necessary surgical procedures. It is not advisable to recommend, for this or any other reason, the surgery for a Class III patient aged between 15 or 16. This does not seem to be a sensible approach. It would be correct to wait until the patient turns 18 to perform the Class III traditional orthosurgical treatment.
Is surgical treatment indicated for mandibular asymmetry cases during growth?
Carlos Jorge Vogel

The mandibular asymmetry cases in which surgery is indicated during growth are, mainly, the condylar hyperplasia ones. In this asymmetric growth process, accentuated by the age of 13, the hypothesis of high condylectomy procedure must be taken into account. Some surgical maneuvers that section the upper part of the mandibular condyle, which grows increasingly, have presented good results for a subsequent balanced mandibular growth process.

Which surgery cases are more likely to succeed: Correction of hypoplasia or hyperplasia?
Carlos Jorge Vogel

The cases of Class III patients with severe anteroposterior deformities are commonly composed of maxillary hypoplasia and mandibular hyperplasia. One may predominate over the other; however, we have always found a combination of both. Maxillary advancement surgeries have presented stable results. In addition, significant mandibular setback surgeries can cause some damage, such as narrowing of the upper airways. Although we started treating cases in which the mandibular setback surgery
alone was considered satisfactory, currently many Class III cases that are treated with an early surgical approach undergo more maxillary advancement surgeries than mandibular setback surgeries.\textsuperscript{7,24}

The Anticipated Benefit orthognathic surgery has presented many advantages, such as the reduction of about 40 to 50\% in conventional treatment estimated total time. Based on your experience, do you also see such advantage? If so, what are the causes of this reduction in time?

Sissy Maria Mendes Machado

The expression “Anticipated Benefit” was created by my colleague Dr. Jorge Faber.\textsuperscript{27} It refers to an approach towards orthosurgical treatment in which there is an inversion of stages: From Orthodontics prior to Surgery to Surgery prior to Orthodontics.

The “surgery-first” approach refers to a process in which orthognathic surgery is performed prior to orthodontic treatment, while the “Orthodontics-first” approach refers to a process in which orthodontic treatment is implemented prior to orthognathic surgery. Presurgical orthodontic treatment aims at aligning both upper and lower dental arches in order to coordinate their respective skeletal bases, eliminating dental compensations. Orthodontic treatment performed at the presurgical phase is proved very important to yield the best results with the least relapse.\textsuperscript{6,28}

The surgery-first approach treats facial esthetics prior to occlusion, while the traditional approach treats occlu-
Figure 24 - Facial and intraoral photographs taken at the end of treatment. Combined surgery was performed with 5 mm of maxillary advancement and 2 mm of mandibular setback (surgery performed by Dr. Henrique Martins).

Figure 25 - Cephalometric radiographs at initial (A) and final (B) phases.
sion prior to facial esthetics. The surgery-first approach solves, at the same time, skeletal problems despite occasional dental compensations, and a transitional occlusion is corrected after surgery. The surgery-first approach is recommended for cases with no need of significant decompensation or presurgical orthodontic alignment. Such cases include: 1) properly aligned or slightly crowded teeth; 2) mild curve of Spee and 3) incisor inclination ranging from normal to slightly buccal or retroclined.

The main reported advantages are: 1) improvement in patient’s chief complaint (dental function) and facial esthetics right at the beginning of treatment; 2) reduction in treatment total time, depending on the complexity of the orthodontic treatment; 3) reduction in complexity and duration of orthodontic treatment due to accelerated orthodontic tooth movement at the presurgical phase.

Answering your question, we presume that reduction in total treatment time can be associated with recommending the surgery-first approach for less complex cases. When comparing the average total time of the surgery-first approach with the average total time of the traditional approach, which includes all types of orthosurgical treatments, we found that the average time for the former is shorter.

However, we should also pay attention to the fact that tooth movement was faster immediately after surgery. An increase in osteoclastic activity and metabolic changes in the dentoalveolar region, with higher expression of bone activity markers — such as alkaline phosphatase (ALP) and C-terminal telopeptide (CTX-1) — are valid reasons for such accelerated bone remodeling. It is as if orthognathic surgery worked as the injury caused by the selective alveolar corticotomy. This is an interesting finding which requires further research.

During the ABOR (Brazilian Association of Orthodontics and Facial Orthopedics) congress, held in the city of Belo Horizonte/MG, the Brazilian Board of Orthodontics and Dentofacial Orthopedics (BBO) promoted the pilot project for the certification process of recent graduates and students in the last year of the post-graduation course in Orthodontics. What are your expectations towards those participating in this activity? What are the plans for the future?

Carlos Jorge Vogel

The participants in this activity should follow criteria such as: 1) minimum 12-month graduate from a post-graduation course in Orthodontics with a minimum of 2,000 credit hours; 2) student attending the last year of a post-graduation course in Orthodontics with a minimum of 2,000 credit hours; 3) member of a state-owned entity affiliated with the ABOR.

The chairman of the ABOR invited the coordinators of the courses with a minimum of 2,000 credit hours to take part in this pilot project. The 47 candidates who applied passed the pilot project examination (equivalent to Phase I). Once they have passed the examination, they have up to 10 years to sit in for Phase II of the certification exam. Should they pass it, they will become a BBO Diplomate, being approved in the “Clinical Excellence” examination.

It is highly likely that a similar exam will be held in Natal/RN (Brazil), during the next ABOR Congress. As for the BBO, our expectations obligatorily lay on our young colleagues: They shall decide the future of our specialty.

Figure 26 - Patient’s photographs taken during a photo shoot, demonstrating patient’s great self-esteem by the end of adolescence.
REFERENCES


Acknowledgments

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