# **EXPERT OPINION**

# Non-Surgical Medical Aesthetic Treatment Algorithm for General Practitioners in Malaysia

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## Abstract

The aesthetic patient is different from medical patients in many ways. From patient history taking, assessment and treatment method depends on several factors. Initially, USBC (Ungku Shahrin Beauty Concept) explained how we could assess aesthetic patient structurally. Moving forward, USATA (Ungku Shahrin Aesthetic Treatment Algorithm) will enlighten medical aesthetic practitioners on how to treat aesthetic patients in a well-organized manner. With varieties of treatment modalities offered in this field, it is paramount for medical aesthetic practitioners to choose the right treatment for suitable patients and use the right devices. Among factors need to be considered, such as skin type, psychological motivation, financial support, regulation issues, etc. This article will give an overview of the aesthetic practitioners.

#### **Keywords:**

Aesthetic Medical Practice, Aesthetic Medicine, Aesthetic Treatment Algorithm, Non-Surgical, Minimally Invasive Treatment, Non-Invasive Treatment

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People generally believe that more attractive people are more competent, likeable, and, in general, "better" than less attractive people: a "beauty-is-good" stereotype. Those physically or facially attractive appear to foster positive expectations and impressions and gain various interpersonal advantages (Alley & Hildebrandt, 1988). Patients frequently wish for more significant overall improvement, anticipating a more cheerful, relaxed, or less tired appearance following treatment (de Maio, 2021). The ability to differentiate between patient complaints and requests are crucial. One is clinically presented, i.e., pigmentary disorder, acne, cellulite, and the latter is to satisfy the patient's goals, i.e., increase the nasal bridge height, thicker lip. They may also present with both complaints and requests at the same time. There are difficulties in prescribing a standard treatment algorithm by medical aesthetic practitioners. It is influenced by the aetiology, underlying medical or psychiatric comorbidities (hypochondriac, body dysmorphic availability syndrome), of treatment, practitioners' skills, patient financial capabilities and complications from treatment. External factors such as specific regulations of the country governing bodies, insurance coverage and medical indemnity need consideration.

There have been no well-designed clinical trials examining the pan facial (i.e., global) approach to aesthetic treatment that employs a combination of treatment modalities (Kalashnikova et al., 2021). Although individualized combination therapy impacts modern aesthetic practice-in 2014, nearly half of all cosmetic patients in the United States seeking noninvasive or minimally invasive interventions received multiple cosmetic procedures at the same time. There are no guidelines for a combination approach that have been published (Carruthers et al., 2016). Most aesthetic treatment algorithms or approaches are being segmented into different parts, such as facial areas or bodies, and mostly, they are limited to specific treatment modalities. A previous study by de Maio M (2021) on the methodological approach to facial aesthetic treatment only suggested the usage of injectables hyaluronic acid (HA) dermal fillers. Another study by (Narurkar et al., 2016) provide helpful guidance for a multimodal approach to facial aesthetic treatment; however, this study focusses on subjects who received onabotulinum toxin A for glabellar lines and crow's feet lines, and dermal fillers for nasolabial folds, oral commissures, marionette lines, perioral lines, or radial cheek lines.

In Malaysia, the treatment modalities are divided into three categories, i.e., Noninvasive, minimally invasive and invasive, whereby noninvasive and minimally invasive are considered non-surgical medical aesthetic procedures (Aesthetic Medical Practice Guidelines MOH Malaysia, 2013). However, the guidelines do not provide any treatment algorithm to Malaysian medical aesthetic practitioners, leaving the practitioners with a myriad of treatment options without a standardized treatment approach. This article aims to suggest the best and effective medical aesthetic treatment algorithm using allowable non-surgical treatment modalities by the Ministry of Health, Malaysia.

# Areas covered

# Consideration in the treatment algorithm

1. Underlying medical illness and conservative treatment approach

Like other medical fields, history taking, clinical assessment and investigation are crucial in aesthetic medical practice. In utilizing the algorithm, practitioners must eliminate any underlying diseases that may portray as an aesthetic concern. For example, excessive facial hair could be due to untreated polycystic ovarian syndrome, and melanoma can easily be misdiagnosed with Nevus of Ito. According to a retrospective study conducted at the University Hospital of Zurich in 2010, a misdiagnosed pigmentary lesion can cause the possibility of melanoma induction by laser treatment. Based on the observations, together with published information, biologically relevant delay in melanoma diagnosis due to laser treatment may retard appropriate staging and therapy (Zipser et al., 2010). It is vital to start the treatment conservatively before moving to more advanced medical aesthetic modalities.

### 2. Aesthetic patient assessment concept

Treatment options in medical aesthetics are often based on meticulous judgement by the practitioners after considering patients complaints and requests. The treatment algorithm approach in this article is based on Ungku Shahrin Beauty Concept (USBC)<sup>TM</sup> aesthetic patient assessment. According to USBC, beauty can be divided into two major components: face and body beauty. Both categories are subdivided into complexion and structure (Mohd Shahrin U, 2020). For example, the perfect complexion for face beauty is those without pimples/acne or blemishes due to pigmentary disorder.

On the other hand, idyllic structural face beauty is when your face nicely contours according to the liking of the patient (i.e., oval shape, high nasal bridge, double eyelid). Like body beauty, the complexion element should not have a stretch mark, striae, or noticeable scar. For body structure, it would be preferably shaped (i.e., Waist and Hip ratio < 0.85 for males and 0.75 for females) (Mohd Shahrin U, 2020)(*fig. 1*).

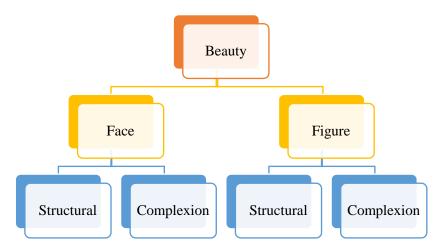


Figure 1: Ungku Shahrin Beauty Concept (USBC)

# 3. In accordance with Malaysia Aesthetic Medical Practice Guidelines

There have been allegations of severe consequences such as deformity and even death in Malaysia due to cosmetic operations performed by unskilled medical and non-medical practitioners. Because safety is of the utmost significance, this activity must be controlled by developing a set of current and appropriate rules. A guideline was created by gathering expert views from many stakeholders in the Ministry of Health, universities, professional organisations, and private practice. It would serve as the national aesthetic medical practice guidelines for general practitioners, medical specialists, and surgical specialists (Aesthetic Medical Practice Guidelines MOH Malaysia, 2013). Even though there is a vast option for non-surgical medical aesthetic treatment globally, the development of this algorithm is only based on medical aesthetic procedures approved by the Ministry of Health Malaysia.

4. All patients are assumed to be in a healthy mental state

Numerous studies have been conducted to investigate the psychological functioning of cosmetic surgery patients. Sarwer and colleagues have suggested that these studies were



designed with two primary goals in mind: (1) to identify psychological characteristics or traits that would contraindicate cosmetic surgery and (2) to assess postoperative psychological changes (Fedok et al., 2003). A study by Crerand et al. shows that 7% to 15% of people appearing for aesthetic procedures may have Body Dysmorphic Disorder (BDD) (Crerand et al., 2006). To obtain better outcomes in individuals undergoing cosmetic surgery with psychiatric problems, it is helpful to prioritise psychiatric care first rather than going straight for surgical treatment. Preoperative mental assessment should be standard practice in cosmetic surgery (Kazuhiro Hayashi, 2007). This algorithm is applicable for the patient with normal psychology and psychiatric mental status.

5. Well trained and certified medical aesthetic practitioners

There is a need for the medical profession to adopt guiding principles for the practice of aesthetic medicine. The best method is undoubtedly evidence-based practice. Before conducting any treatment on a patient, doctors must ensure that they are competent and sufficiently trained. He or she should stay current on medical information and maintain clinical and technical skills (Goh, 2009). Aesthetic medicine emphasises form and function, and both learning and practising medicine involves formal and content elements (Bleakley et al., 2006). In Malaysia, any doctor who wishes to embark in this field must have a Letter of Credentialing and Privileging (LCP) for the aesthetic procedure(s) he/she intends to perform. Upon recommendation by the Main Credentialing and Privileging Committee of Aesthetic Medical Practice, the LCP shall be issued to the doctors by the Medical Practice Division, Ministry of Health Malaysia. With the LCP, they are eligible for registration with the National Registry of Registered Medical Practitioners Practicing Aesthetic Medical Practice (Aesthetic Medical Practice Guidelines MOH Malaysia, 2013).

Research conducted in 1985 shows that only 15% of physician judgments were based on data from verified clinical trials. This disparity prompted the notion of formally approving EBM and teaching physicians how to utilise it-that is, how to participate in "the conscious, explicit, and prudent use of current best evidence in making choices regarding the care of individual patients" (Nahai, 2011). Although the aesthetic medical practice has not been recognised as a medical speciality in Malaysia, it is scientific in its and approach practice(Aesthetic Medical Practice Guidelines MOH Malaysia, 2013). In preparing the algorithm, references are made from various journals and aesthetic medicine related books to ensure it aligns with evidencebased medicine.

7. Marketing hype and baseless claims by the manufacturer

It is well known that an established manufacturer will spend up to 60% of their annual budget on marketing, and they are not afraid to use every available platform to creatively promote their product, such as magazines, television, social media platform, billboard. Sadly, few decent manufacturers can back it up with scientific evidence (Mohd Shahrin U, 2020). This algorithm will only use the generic term is describing treatment modalities and refrain from proposing baseless, non-scientific treatment claims.

# Medical aesthetic treatment algorithm

The spectrum of facial aesthetics is constantly evolving as we better understand facial anatomy and discover new and refined applications for various aesthetic tools, thus acknowledging that combination treatments are necessary to address aesthetic concerns (Fabi et al., 2017). Apart from all the considerations discussed earlier, the algorithm is not limited to a single approach modality. Practitioners can perform multiple treatment approaches to achieve patients' goals according to their sound judgement.

### 6. Scientific approach



#### A) Face area - Structural

While most of the structural improvements for facial structure are suitable for surgical intervention, the non-surgical treatment approach can help achieve structural improvement with realistic expectations. Restricted with the Malaysia Aesthetic Medical Practice Guidelines, treatment modalities are limited to the application of Botulinum toxin, dermal fillers, Radiofrequency (RF) and High-Intensity Focus Ultrasound (HIFU) (*tab. 1*).

| Complaints / Requests  | <b>Treatment Options</b>  | Notes   |
|--|---|---|
| 1. Overdeveloped masseter<br>muscle, Achieve V-Shape<br>jawline  | BTA injection   | Injecting masseter muscle to relax and<br>eventually reduce muscle size and give the<br>slimmer jawline shape (Chan et al., 2019),<br>(Kwon et al., 2019).  |
| 2. Deep tear trough, hollow<br>cheek/temple, concave<br>forehead, NFL / Marionette<br>line, scar, thin lips, "static"<br>rhytids | Dermal Fillers, i.e., HA<br>fillers, depending on the<br>viscosity and concentration                    | To "fill-up" depleting soft tissue, typically at<br>dermal, subdermal layer or supra-ostium<br>with a clinical tightening impact on the<br>dermis (Percec et al., 2020).  |
| 3. Enhance Chin length, nasal<br>bridge/nasal tip, thicker lips/<br>enhance vermillion line,<br>philrum                          | Dermal Fillers, i.e., HA<br>fillers, depending on the<br>viscosity and concentration                    | Volumizing using dermal fillers according<br>to requirement and suggestion. The safest<br>method may be to use a large diameter<br>cannula and inject the filler into the pre-<br>periosteal layer with a careful approach<br>(Lee et al., 2019).   |
| 4. "Dynamic" rhytids<br>(forehead, crow feet, glabellar,<br>bunny line)  | BTA injection on specific<br>facial muscles, e.g.,<br>Orbicularis Oculi, Frontalis,<br>Corrugator etc.) | BTA reduce expression muscles contraction<br>capabilities that produce the "dynamic"<br>rhytids It is a safe and effective therapy that<br>temporarily improves face wrinkles and<br>dynamic rhytids in specific anatomic areas<br>(Niamtu, 2003).  |
| 5. Droopy Brow/Eye   | BTA injection on<br>supralateral portion of<br>Orbicularis Oculi muscle                                 | Applications of 6U BTX-A to the<br>superolateral portion of orbicularis oculi<br>provide brow elevation and increased<br>interpalpebral distance and upper eyelid<br>distance (Uygur et al., 2013)  |
|  | Periorbital RF treatment  | <i>RF</i> will produce new collagen to give the<br>lifting effect for loose skin around eye area<br>with a statistically significant increase in<br>the mean of collagen types I and III, as well<br>as freshly produced collagen, compared to<br>the baseline (El-Domyati et al., 2011). |
| 6. "Chubby" face, Double Chin  | HIFU  | HIFU target the subdermal fat layer to<br>lipolyse adipose tissue. This is due to<br>cavitation bubbles that increase in size and<br>oscillate until they finally collapse (Mohd<br>Shahrin U, 2019).   |
| 7. Eye bags  | RF or HIFU  | HIFU penetration depth should be below<br>1.5mm to target superficial skin layer<br>(Mohd Shahrin U, 2019). RF will only  |



|                              |                              | target superficial skin and promote neo-<br>collagenases (Rousseaux, 2015). |
|------------------------------|------------------------------|---|
| o <b>x</b> 1/1 <b>o</b> 1111 |                              |   |
| 8. Jowl / loose facial skin  | RF or HIFU                   | HIFU and RF with specific thermal injury                                    |
|                              |                              | zone (TIZ) will initiate wound healing                                      |
|                              |                              | process that eventually promote neo-  |
|                              |                              | collagenases (Mohd Shahrin U, 2019;   |
|                              |                              | Rousseaux, 2015)  |
|                              | Fractional Laser, e.g., CO2, | Non-ablative laser creating a micro-column                                  |
|                              | Erbium Yar                   | wound, promoting neo-collagenases   |
|                              |                              | (Preissig et al., 2012).  |
|                              | Long pulse laser, e.g., Nd   | Longer pulse duration cause heat  |
|                              | Yag, Alexandrite             | generation to coagulate the dermal layer,                                   |
|                              | -                            | promote neo-collagenases (Polnikorn et al.                                  |
|                              |                              | 2016).  |

### B) Face area- Complexion

Most non-surgical medical aesthetic treatment focuses on skin complexion complaints or requests such as pigmentary disorder, vascular lesion, acne lesion etc. Understanding patient skin colour, aetiology, physics principles, mechanism of action, endpoint and biological changes of the aesthetic problem are essential to ensure safe and effective treatment. The application of the face complexion treatment algorithm should be supported by rigorous training and experience in performing the procedures (*tab. 2*).

#### Table 2: Medical Aesthetic Treatment Algorithm for Face Complexion

| Complaints /Requests             | <b>Treatment Options</b>       | Notes                                      |
|----------------------------------|--------------------------------|--|
| 1. Epidermal pigmentary          | Skin type I – III: Argon       | Choose a shorter wavelength with a         |
| disorder: Lentigines, Ephelides, | (488nm), Ruby (694nm),         | higher affinity to melanin (Anderson et    |
| Café au lait, Seborrheic         | Alexandrite (755nm), *KTP      | al., 1989; Welch et al., 1989).            |
| keratoses etc.                   | (532nm)                        | *Use cautiously due to competing           |
|                                  | Skin type IV – V: Nd Yag       | chromophores                               |
|                                  | (1064nm), Diode (810nm)        |  |
|                                  | Superficial and Medium         | Inhibit melanin production, exfoliate      |
|                                  | Chemical Peels: AHA, BHA       | superficial skin (Ds et al., 2009).        |
|                                  | peels with suitable            |  |
|                                  | concentration and pH           |  |
| 2. Dermal/Mixed pigmentary       | Skin type I – III: Alexandrite | Choose longer wavelength for deeper        |
| disorder: Melanocytic nevi,      | (755nm)                        | penetration with affinity to melanin.      |
| Nevus of Ota, Hori's nevus,      | Skin type IV – V: Nd Yag       | (Kim et al., 2016; Polnikorn et al., 2016; |
| Melasma, PIH, Tattoo etc.        | (1064nm), Diode (810nm)        | Sarkar et al., 2012)                       |
|                                  | Superficial and Medium         | Inhibit melanin production, exfoliate      |
|                                  | Chemical Peels: AHA, BHA       | superficial skin. Deeper peels yielding    |
|                                  | peels with suitable            | more dramatic outcomes but with a          |
|                                  | concentration and pH           | higher risk of complications (Nikalji et   |
|                                  |                                | al., 2012).                                |
| 3. Vascular lesion:              | KTP (532nm), Pulse Dye         | Longer pulsed duration to dissipate heat   |
| Hemangiomas, Port Wine Stain,    | (585nm), Alexandrite           | to vessel wall. Use laser with multi       |
| Telangiectasis etc.              | (755nm), Nd Yag (1064nm)       | pulses with delay time > epidermal TRT     |



|                                 |   | ( <i>1ms</i> ) for darker skin (Adamič et al.,<br>2015; Kumaresan & Srinivas, 2011;<br>Wall, 2007)   |
|---------------------------------|---|--|
|                                 | IPL   | Use >700nm filter, IPL suitable for<br>vascular lesion treatment due to the long<br>pulse nature of the device (Angermeier,<br>1999; Kalil et al., 2017)   |
| 4. Acne                         | IPL   | <i>Reduce sebum production and</i><br><i>inflammation, destroy P.Acnes</i> (Hi et al.,<br>2021)  |
|                                 | Superficial and Medium<br>Chemical Peels: AHA, BHA<br>peels with suitable<br>concentration and pH       | Reduce sebum production and<br>inflammation<br>(Castillo & Keri, 2018)   |
|                                 | Laser, e.g., Nd Yag (1064nm)  | Using long pulse duration laser to<br>reduce sebum production and<br>inflammation (Mohd Shahrin, 2019)   |
| 5. Large pores, Scar, Acne Scar | Superficial and Medium<br>Chemical Peels: e.g., AHA,<br>BHA peels with suitable<br>concentration and pH | <i>Exfoliate epidermal/dermal layer,</i><br><i>promote collagen production</i> (Ds et al.,<br>2009; Nikalji et al., 2012)  |
|                                 | Fractional laser, e.g., CO2,<br>Erbium Yag  | Non-ablative laser removing epidermal<br>layer for neo-collagenases (Kang et al.,<br>2009)   |
| 6. Hair removal                 | Long pulsed laser, e.g., Nd<br>Yag  | Long pulse duration ensure heat destroy<br>hair stem cell (Alster et al., 2001; Welch<br>et al., 1989)   |
|                                 | IPL   | Use >700nm filter, Suitable for hair<br>removal due to the long pulse nature of<br>the device (Babilas et al., 2010; Dieter<br>Manstein, Mehran Pourshagh &<br>Altshuler, R. Rox Anderson Ilya<br>Yaroslavsky, n.d.; Goldberg, 2012) |
| 7. Rejuvenation                 | Superficial and Medium<br>Chemical Peels: e.g., AHA,<br>BHA peels with suitable<br>concentration and pH | <i>Exfoliate epidermal/dermal layer,</i><br><i>promote collagen production</i> (Ds et al., 2009; Nikalji et al., 2012)   |
|                                 | Microdermabrasion   | <i>Exfoliate stratum corneum, hasten skin cycle</i> (Karimipour et al., 2010)  |
|                                 | Fractional laser, e.g., CO2,<br>Erbium Yag  | Non-ablative laser removing epidermal<br>layer for neo-collagenases (Lecocq et al.<br>2013; Preissig et al., 2012)   |

## C) Body area- Structure

Body structure treatments are the least available in this algorithm. Even though the manufacturer made several attempts, they have the least scientific evidence to justify their claims. Treatment modalities only focused on Radiofrequency (RF), High-Intensity Focus



Ultrasound (HIFU) and fat freezing technologies (*tab. 3*).

| Complaints /Requests           | Treatment Options | Notes   |
|--------------------------------|-------------------|---|
| 1. Localise fat                | HIFU              | HIFU can target the subcutaneous fat  |
|                                |                   | layer causing the lysis of adipose  |
|                                |                   | cells(Jewell et al., 2012; Shek et al., 2009;                                   |
|                                |                   | SousH et al., n.d.).  |
|                                | Fat Freezing      | Freezing the pocket of the fat layer can  |
|                                |                   | cause apoptosis of the adipose cells  |
|                                |                   | (Avram & Harry, 2009; Putra et al.,   |
|                                |                   | 2019).  |
| 2. Skin redundancy, Loose skin | RF or HIFU        | Tighten superficial skin, promote neo-<br>collagenases (Access, 2002; Slayton & |
|                                |                   | Gliklich, 2007)   |

 Table 3: Medical Aesthetic Treatment Algorithm for Body Structure

D) Body area- Complexion

Similar to face complexion, complaints and requests by the patients commonly on the pigmentary disorder, vascular lesion, acne of their body, scar, unwanted tattoo, striae and stretchmark. Body hair removal also becoming popular with the introduction of a long-pulsed laser to the market (*tab. 4*).

Table 4: Medical Aesthetic Treatment Algorithm for Body Complexion

| Complaints /Requests             | <b>Treatment Options</b>       | Notes  |
|----------------------------------|--------------------------------|--|
| 1. Epidermal pigmentary          | Skin type I – III: Argon       | Choose a shorter wavelength with a           |
| disorder: Lentigines, Seborrheic | (488nm), Ruby (694nm),         | higher affinity to melanin (Anderson et      |
| keratoses etc.                   | Alexandrite (755nm), *KTP      | al., 1989; Welch et al., 1989).              |
|                                  | (532nm). Skin type IV – V:     | *Use cautiously due to competing             |
|                                  | Nd Yag (1064nm), Diode         | chromophores                                 |
|                                  | (810nm)                        |  |
|                                  | Superficial and Medium         | Inhibit melanin production, exfoliate        |
|                                  | Chemical Peels: AHA, BHA       | superficial skin (Ds et al., 2009).          |
|                                  | peels with suitable pH         |  |
| 2. Dermal/Mixed pigmentary       | Skin type I – III: Alexandrite | Choose longer wavelength for deeper          |
| disorder: Melanocytic nevi,      | (755nm)                        | penetration with affinity to melanin. (Kim   |
| PIH, Tattoo etc.                 | Skin type IV – V: Nd Yag       | et al., 2016; Polnikorn et al., 2016; Sarkar |
|                                  | (1064nm), Diode (810nm)        | et al., 2012)                                |
|                                  | Superficial and Medium         | Inhibit melanin production, exfoliate        |
|                                  | Chemical Peels: AHA, BHA       | superficial skin. Deeper peels yielding      |
|                                  | peels with suitable            | more dramatic outcomes but with a            |
|                                  | concentration and pH           | higher risk of complications (Nikalji et     |
|                                  |                                | al., 2012).                                  |
| 3. Vascular lesion:              | KTP (532nm), Pulse Dye         | Longer pulsed duration to dissipate heat     |
| Hemangiomas, Telangiectasis      | (585nm), Alexandrite           | to vessel wall. Use laser with multi pulses  |
| etc.                             | (755nm), Nd Yag (1064nm)       | with delay time > epidermal TRT (1ms)        |



|                      | IPL   | for darker skin (Adamič et al., 2015;<br>Kumaresan & Srinivas, 2011; Wall, 2007)<br>Use >700nm filter, IPL suitable for<br>vascular lesion treatment due to the long<br>pulse nature of the device (Angermeier,<br>1999; Kalil et al., 2017) |
|----------------------|---|--|
| 4. Acne              | IPL   | Reduce sebum production and<br>inflammation, destroy P.Acnes (Hi et al.,<br>2021)  |
|                      | Superficial and Medium<br>Chemical Peels: AHA, BHA<br>peels with suitable<br>concentration and pH       | Reduce sebum production and<br>inflammation<br>(Castillo & Keri, 2018)   |
|                      | Laser, e.g., Nd Yag (1064nm)  | Using long pulse duration laser to reduce<br>sebum production and inflammation<br>(Mohd Shahrin, 2019)   |
| 5. Scar, Stretchmark | Superficial and Medium<br>Chemical Peels: e.g., AHA,<br>BHA peels with suitable<br>concentration and pH | <i>Exfoliate epidermal/dermal layer, promote collagen production</i> (Ds et al., 2009; Nikalji et al., 2012)   |
|                      | Fractional laser, e.g., CO2,<br>Erbium Yag  | Non-ablative laser removing epidermal<br>layer for neo-collagenases (Kang et al.,<br>2009)   |
| 6. Hair removal      | Long pulsed laser, e.g., Nd<br>Yag  | Long pulse duration ensure heat destroy<br>hair stem cell (Alster et al., 2001; Welch<br>et al., 1989)   |
|                      | IPL   | Use >700nm filter, Suitable for hair<br>removal due to the long pulse nature of<br>the device (Babilas et al., 2010; Dieter<br>Manstein, Mehran Pourshagh &<br>Altshuler, R. Rox Anderson1 Ilya<br>Yaroslavsky, n.d.; Goldberg, 2012)        |

### Conclusion

Developing a treatment algorithm is a rigorous task, especially when the aesthetic medical field evolves significantly. Challenges lie in various factors (not limited to) such as patients' unrealistic complaints or requests, regulation restriction, beauty trend, marketing hype, treatment availability, and practitioners' capabilities. This algorithm will cover all aspects of allowable treatment modalities by Malaysian governing bodies and hopefully can become a guide to all general practitioners who provide aesthetic medical services in their clinics. However, in the future, more treatment options can be included to have a holistic approach to treating patients for Malaysian and throughout the world.

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