DHCC-HAIR TRANSPLANT SERVICE

STANDARD

Department: Clinical Affairs Document Identifier: SD/HCO/013/01

INTRODUCTION

Hair Loss (alopecia) is a common condition, has a multitude of etiologies, affects all genders and age groups, and is not dependent on the aging process. Hair Restoration can be medical, surgical, or cosmetic. The Royal College of Surgeons Professional Standards for Cosmetic Surgery defines cosmetic surgery as "the choice to undergo an operation, or invasive medical procedure, to alter one's physical appearance for aesthetic rather than medical reasons". Hair transplant surgery satisfies this criterion. Hair transplant surgery is a minimally invasive surgical procedure in which hair follicles are transferred from the permanent and thick donor area around the sides and back of the head and sometimes beard areas and even chest or in rare cases, body hair can be used as donor, to areas of thinning or balding generally found on the front, top, and crown of the head, as well as eyebrows, eyelashes and beard.

1. PU	1. PURPOSE		
1.1	This Standard defines the minimum requirements including licensing and service specifications to		
	ensure acceptable minimum levels of quality, performance, safety and reliability to provide hair		
	transplant services within Dubai Healthcare City (DHCC)		
1.2	This Standard further defines qualified personnel and facility and equipment requirements as well as		
	expected standards for patient management and the limitations on the provision of hair transplant		
	services by Licensed Healthcare Operators.		

2. SC	2. SCOPE OF APPLICATION		
2.1	2.1 This Standard applies to all Healthcare Operators and Healthcare Professionals providing or intendir		
	provide of hair transplant services within DHCC.		
2.2	This Standard applies for only hair transplant excluding the prosthetic hair fibre implantation, surgical flap		
	and hair cloning techniques.		

3. ST	3. STANDARDS		
3.1	LICENSU	IRE REQUIREMENT	
	3.1.1	Hair transplant services may be provided by DHCA Licensed Healthcare Operators holding	
		a Clinical Operating Permit for Single and Multi-Specialty Outpatient Clinics, Outpatient	
		Surgical Clinics and Hospitals in accordance with the requirements of the Standards defined	
		herein.	
	3.1.2	Only Healthcare Operators with an approved Licensure and Clinical Operating Permit for	
		Plastic Surgery, Dermatology or General Surgery may provide hair transplant services. Each	
		Healthcare Operator providing hair transplant services shall appoint appropriately qualified	
		Licensed Healthcare Professionals to deliver these services as required by this Standard, the	
		Dubai Outpatient Clinic Quality Standards or equivalent accreditation standards, and other	
		applicable DHCA regulations, standards and policies.	
	3.1.3	Physicians and all other Healthcare Professionals providing hair transplant services shall be	
		Licensed Healthcare Professionals in DHCC and permitted by DHCR to provide the service.	

	STANDARD- HAIR TRANSPLANT SERVICE
3.1.4	All licensed Healthcare Professionals shall provide hair transplant services within their scop
	of practice and standards of proficiency for their licensed category.
3.1.5	Each Healthcare Operator shall have a documented process for determining appropriat
	staffing needs for the provision of hair transplant services.
3.1.6	Prior to commencing hair transplant services, each Licensed Healthcare Operator shall hav
	in place written policies and procedures required for safe and effective practices i
	compliance with the accreditation standards of the approved accreditation agency and a
	other applicable regulations, policies and standards. Written documents, including policie
	procedures, patients' selection criteria and programs shall be managed in a consistent an
	uniform manner.
3.1.7	The Medical Director of the Licensed Healthcare Operator is responsible for th
	development and implementation of appropriate standards, policies and procedures for ha
	transplant services.
3.1.8	All medical advertisement shall comply with DHCR advertisement policy and MOHAP polic
3.2 QUALIE	IED PERSONNEL
3.2.1	The following healthcare professional categories can perform hair transplant services:
	3.2.1.1 Plastic Surgeons with:
	3.2.1.1.1 Recent Two (2) years of experience in hair transplant.
	3.2.1.1.2 Fulfilling general and Specialty licensure requirements such a
	Certificate of Good Standing (CGS) and English Proficiency.
	3.2.1.2 Dermatologists and General Surgeon who shall fulfill the below requirement:
	3.2.1.2.1 Acquire an accredited certificate in Hair Transplant/ Restoration
	Surgery from the following certifying bodies or equivalent.
	3.2.1.2.1.1 International Society of Hair Restoration Surger
	(ISHRS)
	3.2.1.2.1.2 American Board of Hair Restoration Surgery (ABHRS)
	3.2.1.2.1.3 American Hair Loss Association
	3.2.1.2.2 Recent Two (2) years of experience in hair transplant.
	3.2.1.2.3 Fulfilling general and specialty licensure requirements such a
	Certificate of Good Standing (CGS) and English Proficiency.
3.2.2	All licensed HCPs should submit a surgical logbook indicating the procedure date, name of
	procedure, where a procedure is undertaken, number of procedure performed under
	supervision along with supervisor's name, number of procedure performed independently
	and outcome of the procedure. The surgical logbook should be signed and stamped by the
	Medical Director of the facility.
3.2.3	Physicians shall be assisted by qualified Hair Transplant Technician(s) who should have:
5.2.5	3.2.3.1 A Degree/ Diploma in a Healthcare Specialty of at least three (3) years

		STANDARD- HAIR TRANSPLANT SERVICE
		3.2.3.2 Completed a minimum of six (6) months training experience in the area of
		hair transplant, with a minimum of fifty (50) surgical cases under the
		supervision of a physician.
		3.2.3.3 Recent two (2) years of experience in the related field.
	3.2.4	Fulfilling general licensure requirements such as Certificate of Good Standing (CGS) and
		English Proficiency (Please refer to Allied Healthcare Professionals Licensure
		Requirements).
	3.2.5	All Licensed Healthcare Professionals shall be currently certified in Basic Life Support
		(BLS).
	3.2.6	The Physicians have to undergo advanced/ specialized training and achieved a certain level
		of skill to safely perform hair transplant services, identify the good candidate for hair
		transplant, and be able to recognize and treat complications and side effects.
	3.2.7	Physicians performing hair transplant services shall be responsible for demonstrating
		defined experience and exposure to the discipline's cognitive and technical challenges
		including but not limited to:
		3.2.7.1 Adherence to evidence-based practice and ability to rationalize deviation
		from evidence-base.
		3.2.7.2 Understanding of epidemiology and demographics of hair loss, including
		ethnic variation.
		3.2.7.3 Basic understanding of anatomy and physiology, pathology, microbiology,
		biochemistry, pharmacology, biophysics and hygiene.
		3.2.7.4 Appropriate patient assessment with accurate identification of etiology of
		hair loss - androgenetic, non-androgenetic or a combination.
		3.2.7.5 Ability to offer treatment options for androgenetic, non-androgenetic or
		combination hair loss.
		3.2.7.6 In depth knowledge of medical and surgical management of hair loss and reconstruction techniques.
		3.2.7.7 Understanding risks and benefits of hair restoration surgery.
		3.2.7.8 Knowledge of therapies used to treat hair loss such as low level light therapy,
		platelet rich plasma and mesotherapy.
		3.2.7.9 Understanding emerging technologies such as stem cell therapy, gene
		therapy, and other future innovations.
3.3	FACILIT	Y DESIGN REQUIREMENTS
	3.3.1	Each facility shall comply with the minimal facility requirements of the most current FGI
		Guidelines for Design and Construction of Hospitals and Outpatient Facilities, and in
		accordance to its approved class.

3.3.2	Trimming, processing and sorting of follicular unit grafts must take place in a procedure
	room or operating theatre. If this occurs in a location separate to where the patient is; then
	care must be taking when transporting the follicular unit grafts between rooms.
3.3.3	The procedure room shall have a minimum floor area of eleven (11) square meters and
	shall host the procedure chair and the hair transplant equipment.
3.3.4	If more than one (1) patient is being operated in a facility then follicular unit grafts from
	different patients must not be trimmed, processed or sorted in the same room
3.3.5	Room layout general features should have the following:
	3.3.5.1 There should be a clinical chair available with a reclining, multi-positioning
	back rest and access on three sides. As patients having hair transplant
	surgery often faint, the chair must have the ability to go into the
	trendelenburg position.
	3.3.5.2 There should be adequate work surfaces to allow space for Hair Transplant
	Surgical Assistants to work ergonomically at microscopes required to provide
	magnification for follicular unit graft trimming, processing and sorting.
	3.3.5.3 Chairs for Hair Transplant Surgical Assistants to sit in should take into
	account their ergonomic needs.
	3.3.5.4 A height adjustable stool or seat should be available if necessary for the Hair
	Transplant Surgeon.
	3.3.5.5 Foot stools should be available if necessary for Hair Transplant Surgical
	Assistants to stand on when implanting grafts.
	3.3.5.6 A fridge should be available to store follicular unit grafts if there is a delay
	between donor harvesting and recipient site insertion.
	3.3.5.7 Patient privacy and dignity must be respected at all times.
	3.3.5.8 The lighting available should be sufficient.
	3.3.5.9 Hand held mirrors must be available for the patient to see himself/herself.
	3.3.5.10 Stainless steel trolleys must be available for instruments to be placed on with
	appropriate clean covers.
	3.3.5.11 A wall clock or timer should be visible.
	3.3.5.12 There should be sufficient ventilation.
	3.3.5.13 The clinic couch, trolley and surfaces must be able to be appropriately cleaned
	and disinfected between patients.
	3.3.5.14 The floor must be impervious and easy to clean.
	3.3.5.15 Dedicated handwashing facilities must be present in each room.
	3.3.5.16 Sharps and clinical waste disposal must be provided.
3.3.6	There should preferably be one (1) procedure chair per room. In case of multiple procedure
	chairs placed in a room, the procedure chairs shall be surrounded by cubicle walls to ensure
	privacy which shall have a minimum floor area of nine (9) square meters.

		STANDARD- HAIR TRANSPLANT SERVICE
	3.3.7	The procedure room shall be equipped with medication and equipment to handle clinical
		emergencies.
	3.3.8	There is a wide range of tools and equipment used in hair transplant surgery. In addition t
		standard basic surgery instruments to excise a strip of donor hair scalp, there are a
		multitude of devices to make recipient site incisions and to individually extract follicular
		unit grafts. The below equipments would be used such as but not limited to;
		3.3.8.1 Densitometer can be used to estimate the hair density from the donor area
		3.3.8.2 NeoGraft machine used for follicular unit extraction.
		3.3.8.3 Hair Transplant machine.
		3.3.8.4 Hair implanter and Hair transplant instrument (e.g. FUE Punch, Grafting
		Needle and etc.).
	3.3.9	The Healthcare operator should maintain a written preventive maintenance program for a
		medical and surgical equipment and related procedures.
	3.3.10	
		Instruments referred to as single-use by the manufacturer must not be re-used.
3.4		S OF HAIR TRANSPLANT
	3.4.1	Follicular Unit Transplantation (FUT)
	3.4.2	Follicular Unit Extraction (FUE)
	3.4.3	Ultra Refined Follicular Unit Transplantation (URFUT)
	3.4.4	Mini-Micro-grafting
3.5		SELECTION
5.5	3.5.1	In all cosmetic procedures, a successful outcome depends on proper patient selection,
	5.5.1	surgical hair restoration, age factor is also crucial. There are no medical or surgic
		advantages to transplant at an early age.
	3.5.2	Patients of the age of 25 years or older are recommended as the predictive value of futu
	5.5.2	
	3.5.3	hair loss is much lower for individuals between 15 and 25 years of age.
	5.5.5	The main factors in determining total donor reserves are donor density, hair thickness, sca
	254	laxity, and the physical size of the donor area.
	3.5.4	Patients with inadequate response to medications after one (1) year.
	3.5.5	Significant hair loss: Norwood class III or greater; In the Norwood Classification, Class
		represents a normal adolescent pattern and Class II a normal non-balding adult. Therefor
		as a minimum, patients should qualify as Class III before transplants are contemplated. Ear
	0.5.6	Class III patients will often benefit from medication alone, so this should be considered firs
	3.5.6	Patient with Diffuse Patterned Alopecia (DUPA) has been ruled out and Non-androgenet
		causes of hair loss have been ruled out (Many non-androgenetic causes of hair loss can l
		treated with hair transplantation).
	3.5.7	The caliber of the hair shaft is crucial. Those with large-caliber hair shafts (greater than 7
		microns) obtain much denser coverage than individuals with corn silk quality hair.

		STANDARD- HAIR TRANSPLANT SERVICE
	3.5.8	No medical contraindications to surgery (drug sensitivities, keloids, connective tissu
		disease).
	3.5.9	Patients should be able to tolerate being in the surgical chair for a good part of the da
		consequently, back and neck problems as well as claustrophobia can sometimes make th
		procedure problematic.
	3.5.10	Special care should be taken when evaluating patients with significant psychiatric problem
		particularly Clinical Depression, Trichotillomania, Body Dysmorphic Disorder, or seve
		Obsessive Compulsive Disorder (OCD). In such cases, a psychiatrist or psychologist shou
		participate in the decision-making process.
	3.5.11	Immunocompromised patients should be contraindicated for transplant.
3.6	CONSEN	T AND PATIENT'S PREPARATION
	3.6.1	Informed consent shall be obtained by the treating physician prior to procedure/ surge
		and/ or interventions. The treating physician should not delegate this responsibility.
	3.6.2	Consent listing details about the procedure and possible benefits, risks and complication
		should be signed by the patient. The documentation shall be maintained in the patient
		medical records.
	3.6.3	Hair Transplant professionals must give the patient the time and information they need
		reach a voluntary and informed decision about whether to go ahead with an intervention
	3.6.4	Appropriate laboratory tests and investigations must be carried out and checked prior
		transplant.
	3.6.5	The amount of time patients need for reflection and the amount and type of information
		they will need depends on several factors. These include the invasiveness, complexit
		permanence and risks of the intervention, how many intervention options the patient
		considering and how much information they have already considered about a propose
		intervention.
	3.6.6	Patient should be given health education about the hair growth progress expected after the
		transplant.
3.7	IDENTIFI	ED RISK LEVEL
	3.7.1	The risks for the patient can be from local anesthesia such as but not limited to:
		3.5.1.1 Allergic reaction
		3.5.1.2 Cardiovascular/Neurological toxicity
		3.5.1.3 Coma
	3.7.2	Hair transplant surgery may cause fainting/feeling unwell.
	3.7.3	The risks for the patient can be from Follicular Unit Extraction and Strip Follicular Ur
		Transplant donor hair harvesting such as:
		3.7.3.1 Donor site bleeding
		3.7.3.2 Infection
		3.7.3.3 Delayed wound healing
		3.7.3.4 Necrosis and scarring

		STANDARD- HAIR TRANSPLANT SERVICE
		3.7.3.5 Donor hair depletion
		3.7.3.6 Pain and dysesthesia
	3.7.4	The risks for the patient from the recipient site in all methods of hair transplant surger
		from recipient site in all methods of hair transplants surgery as:
		3.7.4.1 Recipient site bleeding
		3.7.4.2 Swelling/edema and bruising
		3.7.4.3 Infection and delayed wound healing
		3.7.4.4 Failure of hair growth
		3.7.4.5 Necrosis and scarring
		3.7.4.6 Pain and Dysesthesia
	3.7.5	Hair Transplant Surgery risks to practitioner may include:
		3.7.5.1 Bloodborne pathogen transmission risk - Hepatitis B and other vaccination
		are required for all Hair Transplant Professionals.
		3.7.5.2 Needle stick injuries
3.8	PATIENT	MANAGEMENT
	3.8.1	Hair Transplant Professionals should advise the patient to avoid products that are used $\frac{1}{2}$
		thicken the hair or that stain the scalp for three (3) days before the procedure, as the
		often take several days to completely wash out of the scalp.
	3.8.2	Hair Transplant Professionals should examine the patient, take a relevant history and asse
		needs to develop a care plan.
	3.8.3	Hair Transplant Professionals monitor and record progress against the care plan and modi
		appropriately if required.
	3.8.4	Hair Transplant Professionals should assess, evaluate and interpret risk indicators, baland
		risk against benefits and communicate potential risks and benefits to patients and others
	3.8.5	Hair Transplant Professionals should deal appropriately with sudden deterioration
		patient's physical or psychological condition or with emergency situations.
	3.8.6	Hair Transplant Professionals should recognize emotional/psychological needs
		patient/client and understanding clear pathways for providing emotional and psychologic
		support, including onward referral when necessary.
	3.8.7	Hair Transplant Professionals should be notified well in advance of the procedure da
		regarding the need to discontinue certain medications, to stop smoking and abstain fro
		alcohol before procedure.
	3.8.8	Hair Transplant Professionals should provide clear instructions for the patient prior
		procedure.
	3.8.9	The Healthcare Operator should use anesthesia medications as per the anesthes
		classification in the Clinical Operating Permit (COP) and to comply with Standards for
		Procedural Sedation and Analgesia (PSA), Standards for Outpatient Clinical Service
		Standards for Non-Surgical Cosmetic Procedures and Standards for Day Surgery (whe
		applicable).

3.8.10	Hair transplant surgery is considered a clean procedure not a sterile procedure. Non-sterile
	gloves can be used by the Hair Transplant Surgeon and Hair Transplant Surgical Assistants
	processing follicular unit grafts away from the patient. Sterile gloves can be used by the Hair
	Transplant Surgeon and Hair Transplant Surgical Assistants when harvesting hair by the
	Strip Follicular Unit Transplant or Follicular Unit Extraction methods.
3.8.11	All patients undergoing hair transplantation should be treated with universal precautions.
3.8.12	Protocols should be in place to handle emergencies such as hypersensitivity reactions or
	anaphylaxis, stroke, seizures, arrhythmias, acute myocardial infarction, and hypertensive
	crisis.
3.8.13	Patients should be encouraged to wash their hair the night before their hair transplant. The
	hair and scalp should be washed with an antiseptic solution of the hair transplant surgeon's
	choice prior to surgery.
3.8.14	The single most important instrument for FUT is the dissecting stereomicroscope. There
	should be one microscope for each member of the surgical team performing dissection.
3.8.15	Hair transplant technicians must not perform surgical steps of the procedure (including
	making Follicular Unit Extraction incisions, removing Strip Follicular Unit Transplant donor
	strip, making recipient site incisions including by use of sharp implanters.
3.8.16	Hair Transplant Technicians may perform non-surgical steps of the procedure including
	assisting the Hair Transplant Surgeon with surgical steps, removing follicular unit grafts
	that have been incised by the Hair Transplant Surgeon or Physican and processing/trimming
	follicular unit grafts.
3.8.17	Platelet-rich plasma (PRP) contains growth factors that have been shown to improve wound
	healing. PRP might be used as a way to improve graft survival, increase hair yield rate,
	increase hair density and diameter.
3.8.18	Medical therapy can be used along with hair transplant service. Only approved FDA
	medications shall be used.
3.8.19	As hair transplant procedures tend to be several hours long, attention should be given to
	pressure area protection and patients should be kept hydrated and snacks/meals provided
3.8.20	Infection control measures shall be used in the health facility to prevent or reduce the
	potential for disease transmission, measures shall include but, not limited to the following:
	3.8.22.1 Hand hygiene
	3.8.22.2 Personal Protective Equipment (PPE)
	3.8.22.3 Sterilization and disinfection of patient care items
	3.8.22.4 Environmental infection control
	3.8.22.5 Medical waste management
3.8.21	Sharps must be handled appropriately and should be disposed of in a designated sharps bin.
3.8.22	Hair transplant surgery results can take up to eighteen (18) months to fully develop. Follow
	up should occur during this period to ensure continuity of care.

STANDARD- HAIR TRANSPLANT SERVICE 3.8.23 All patients should be informed and educated about the complications and what signs an symptoms to look for including discomfort/pain, swelling, bleeding, infection (folliculitis at cellulitis), and wound healing problems. 3.8.24 Any guidance documents should use either accurate diagrams or real patient photograp and not models. Software should not be employed to modify or enhance the image to mait misleading. 3.8.25 Where power-assisted follicular unit extraction devices and robotic devices are employed the manufacturer's guidelines must be followed for use. 3.9 HEALTH INFORMATION MANAGEMENT 3.9.1 Each Healthcare Operator providing hair transplant services shall ensure the confidential of patient health information as per the provisions of the DHCA Health Data Protection. Regulation No. (7) of 2013. 3.9.2 When necessary only standardized diagnosis codes, procedure codes, symbol abbreviations, and definitions must be used. 3.9.3 Medical records must be kept confidential and held securely whether in paper or electror format.
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3.9.4 Each Healthcare Operator providing hair transplant services must ensure that all patie
health information should be documented on official forms with the Healthcare Operato
name.
3.9.5 The date and time of the procedure should be documented along with the patient's name
3.9.6 Doses, routes and times of all medications administered should be documented and t
name of the prescriber should be documented. Lot numbers and expirations dates
medications should be documented when applicable.
3.9.7 The number of follicular unit grafts transplanted should be documented. The numbers
hairs per graft should be documented. For Follicular Unit Extraction (FUE) cases the part
graft transection rate and the total graft transection rate should be documented.
3.9.8 The area transplanted should be identified on the operating/ procedure notes.
3.9.9 The names of all assistants involved in the procedure should be documented.
3.9.10 After obtaining the consent, patients having hair transplant surgery should have appropria
pre and post-operative photographs.
3.9.11 Each Healthcare Operator providing hair transplant services shall maintain a filing syste
so that diagnostic records and patient-related findings can be easily accessed. The enti
patient record, including the raw diagnostic data, is to be stored for a period that is
accordance with applicable DHCA Medical Record Policies.
3.9.12 Each Healthcare Operator providing hair transplant services shall report clinical and
managerial performance measures to monitor and improve patient care and outcomes
defined by the Clinical Affairs Department of DHCR.

4. COMMUNICATION: (check all that apply)

\boxtimes	Announcement	
	Awareness	
	Training	
\boxtimes	Other specify, website	

5. DI	EFINITIONS
5.1	Alopecia: The medical term for baldness.
5.2	Androgenetic Alopecia: The most typical pattern of balding whereby the balding pattern is controlled
	by hormones and passed along via heredity.
5.3	Clinical Affairs Department (CAD): Means the department set up within DHCR to monitor and improve
	the quality of healthcare services within DHCC, and to oversee the accreditation processes of healthcare
	institutions within DHCC.
5.4	DHCC: Dubai Healthcare City.
5.5	DHCR: Dubai Health City Authority – Regulatory.
5.6	Donor area: The area containing healthy and permanent hair follicles which in androgenic alopecia
	usually coinciding with the fringe above the ears and around the back of the head where hair follicles
	are genetically programmed to remain intact and grow throughout life.
5.7	Follicular unit: A follicular unit is a naturally occurring grouping of one, two, or three (and rarely, four)
	hair follicles found in the skin. The average follicular unit contains about 2.4 hairs.
5.8	Follicular unit transplantation (FUT): a method of hair restoration surgery that relocates hair in
	follicular units, its naturally occurring groupings. The small size of the units allows for tremendous
	versatility in their placement, the creation of hair patterns that closely mimic nature and the
	transplantation of a large enough number of grafts so that a full restoration can often be achieved in
	just one or two sessions.
5.9	The Norwood classification: is the most widely used classification for hair loss in men and it defines
	two major patterns and several less common types.
5.10	Follicular unit extraction (FUE): is a method of extracting single follicular units, one at a time, from the
	donor site by using a tiny punch excision. A punch used to extract single follicular units is typically 1mm
	diameter or less.
5.11	Follicular unit micro-grafting: A method by which large numbers of follicular units are harvested from
	the donor site (usually in a long strip or ellipse) and then microscopically dissected into grafts containing
	single follicular units.
5.12	Micrograft: A graft containing 1 or 2 hairs, obtained from the donor area with a micro punch or sliced
	off from a round graft. A micrograft is typically placed into holes made in the scalp with a microneedle
	or punch.

5.13	Minigraft: A graft containing 3 or 4 hairs (small minigraft) or 5 or 6 hairs (large minigraft). There are						
	many variations of minigrafts derived from round grafts.						
5.14	MOHAP: Ministry Of Health And Prevention.						
5.15	Recipient area: Area where hair loss has occurred and hair follicles will be implanted during a hair						
	transplant procedure.						
5.16	Vertex area: The area in the top/back portion of the head which contains a swirl or spiral pattern of						
	hair growth. Also called the 'crown,' it may be the first area where male pattern baldness is noticed.						

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REVISION HISTORY

S No	Summary	Amend Type*	Page	Issue No	Issue Date
1	New document developed and technically	New	All	1	
	reviewed				
2					
3					

*Amend Type – New/Add / Modify / Cancel