



**LARVA THERAPY
CERTIFICATION
TRAINING
PROGRAM**

STANDARDS FOR LARVA THERAPY CERTIFICATION TRAINING PROGRAM

1. NAME OF TRAINING

Larva Therapy Certification Training Program

2. AIM OF TRAINING

The aim of this training program is to gain the physicians who will practice larva therapy the qualifications that will allow them to efficiently practice larva therapy.

3. LEGAL BASIS FOR TRAINING

The following legislation is taken as a basis for the implementation of this training program.

1. Decree Law No. 663
2. "Regulation on Certification Training of the Ministry of Health" published in the Official Gazette dated February 4, 2014 and numbered 28903.
3. "Regulation on Traditional and Complementary Medicine Practices" published in the Official Gazette dated October 27, 2014 and numbered 29158.

4. DEFINITIONS

Larva Therapy; It is a practice in which *Lucilia sericata* (*Phanecia sericata*) sterile larvae are used in chronic wounds with biodebridement purposes.

Practice Center: It is a center which is established within the body of health application and research center of the faculties of medicine to perform the practices specified in relevant Regulation under the responsibility of a physician who holds a certificate on the relevant field and which can provide

training if authorized by the Ministry.

Distance Learning: It is a way of learning in which students are separated by time and physical location from instructors and both the transfer of course contents and the interaction are ensured using information and communication technologies.

Asynchronous Learning: It is a way of learning-training which occurs asynchronously at different times and locations.

Synchronous Learning: It is a way of learning-training which occurs synchronously.

5. PROCEDURES AND PRINCIPLES TO IMPLEMENT THIS TRAINING PROGRAM

The training program shall be implemented based on the procedures and principles listed below:

1. The training program shall be carried out both in theory and in practice. The theoretical part of the training may be taught face-to-face classes and/or a maximum of 80% of the same theoretical part may be taught as distance learning courses.
2. It shall be ensured, in distance learning, that the participants have synchronous and asynchronous access to interactive practices on-line through the infrastructure provided by the server -on condition that at least 50% of the distance learning courses are synchronous- and that interactive live courses are taught at certain hours in a certain place/

hall within the bounds of live curriculum.

3. Participants need to practice larva therapy on at least 5 (seven) cases during the training.
4. The contents of the courses shall be designated in the beginning of the training program; the participants shall be given references or provided with lecture notes.
5. Theoretical and practical courses shall last for 8 (eight) hours a day at most. The period of a course shall be 45 (forty five) minutes.
6. A maximum of 50 (fifty) participants for distance learning courses and a maximum of 25 (twenty five) participants for face-to-face classes can be accepted in one training period/term except for 2 (two) participants who will be assigned by the Ministry.
7. The participants to be assigned by the Ministry will be a physician who does not have any public service liability and whose training in this program is of importance for his/her services in the institution she/he works. These participants will not pay any training fee. The participants cannot be made work in any other field/unit/center or in any other job position during the training program.
8. Continuous attendance is essential for the training, and the practical training requires compulsory attendance. The participants who cannot attend 10% (ten percent) of the practical training at most due to a legal excuse shall not be allowed to take the certification exam unless they complete the hours they miss. A maximum of 10% (ten percent)

absence due to a legal excuse is acceptable for the theoretical training.

9. The following teaching and learning strategies, methods and techniques shall be applied in the training program:
 - Verbal lecture
 - Video-based teaching
 - Small group discussion
 - Demonstrative teaching
 - Question & Answer method
 - Engaged scientific activities
 - Clinical practice (case studies)
 - Model test
10. The practical training includes bed-side larva therapy practices performed individually or in small groups in practice centers or units, and it consists of “observing”, “doing under supervision” and “doing independently” stages respectively.
11. The relevant unit for this certification training program is the Department of Traditional and Complementary Medicine Practices of the General Directorate of Health Services of the Ministry.

6. PARTICIPANTS AND THEIR QUALIFICATIONS

Physicians can participate in this certification training program.

7. TRAINING CURRICULUM

7.1. Learning Objectives and Subjects in Training Courses

Table 1 shows the learning objectives and subjects included in the theoretical section of the Training Program as well as the duration of each subject.

Table 1: Subjects to be included in the Theoretical and Practice Sections of the Training Program and Learning Objectives and Duration of Each Subject

SUBJECTS	LEARNING OBJECTIVES	DURATION (Hours)
	Participant successfully completing this training program:	
Larva therapy, its history and importance	Describes larva therapy. Tells the history of larva therapy. Discusses the importance of larva therapy.	1
Entomology-Fly biology, metabolism, life cycle, sterilization etc.	Describes the biology of the fly (<i>Lucilia sericata</i>). Describes the metabolism of the fly (<i>Lucilia sericata</i>). Describes the life cycle of the fly (<i>Lucilia sericata</i>). Describes the sterilization of the fly (<i>Lucilia sericata</i>).	2
Terminology of larva therapy	Explains terms related to the larva therapy.	1
Wound (etiology, pathogenesis, process, etc.)	1. Explains the wound etiology, 2. Explains the wound pathogenesis, 3. Explains the wound process	1
Methods used in wound care	Names the methods used in wound care. Describes each method.	1
General overview of scientific study methodology and larva therapy studies	1. Describes scientific study methodology. 2. Describes scientific study methodology in larva therapy. 3. Explains the principles of larva therapy.	2
Principles of larva therapy		
Contraindication and complications in larva therapy	Describes the contraindications in larva therapy. Describes the complications in larva therapy.	1
Patient consent, ethical and legal obligations	Describes the legislation on patient consent in larva therapy. Describes ethical and legal obligations in larva therapy.	1
Techniques in larva therapy	Describes the techniques in larva therapy.	4
Cases considered for Indication		
Wounds	Explains how to practice larva therapy in wounds.	2
Case presentations	Names potential cases related to the larva therapy. Discusses each case.	4
TOTAL		20

7.2. Training Materials and Their Features

Materials to be used in the training are as follows:

1. Written training materials including subjects in the training content (books, slides, training guidelines, scientific journals etc.)
2. Audiovisual training materials (compact discs, video films, pictures, etc.)
3. Training contents, discussions (forums and virtual class sessions), presentations, case studies, videos, voice records, etc. developed in a context-specific perspective for training and transferred into digital environment.
4. All tools and equipment that are supposed to be in a Larva Therapy practice center as per the relevant legislation.
5. All kinds of devices and materials at the place where the training will take place will be considered as training material.

7.3. Duration of Training

The duration of the Larva Therapy Certification Training Program is given in the table below.

TYPE OF TRAINING	TOTAL DURATION (Hours)
Theoretical Training	20
Practical/Field Training	40
TOTAL	60

7.4. Evaluation of Training (Exam Procedure, Achievement Criteria, Extra Exam Right, etc.)

The training will be evaluated according to the following procedures and principles.

1. Participants who do not fulfill the requirement of compulsory attendance shall not be allowed to participate in the exam.
2. Theoretical and practice exams shall be conducted at the end of the training program.
3. Theoretical exam questions shall be prepared by the exam committee, composed of minimum three trainers, under the chairmanship of the program officer in a way to cover all the subjects included in the training content.
4. Participants are supposed to succeed both in theoretical and practice exam separately.
5. Those who score 70 (seventy) points or more out of 100 (one hundred) in the exam shall be deemed successful. Those who cannot pass the theoretical exam shall not be allowed to take the practice exam.
6. Participants who fail to score this minimum point in the theoretical exam shall be allowed to take the exam 2 (two) more times at maximum; those who cannot pass the exam are supposed to apply to the Larva Therapy Certification Training Program again.
7. The practice exam shall be conducted by using Larva Therapy Practice Training Evaluation Form (Annex 1). Each subject included in the form will be rated as Highly Satisfactory (4), Satisfactory (3), Moderately

Satisfactory (2), Unsatisfactory (1) or Not Evaluated (0). Points obtained from each subject will be totaled. This total will be divided by the number of subjects evaluated and the average is determined. The average will be multiplied by 25 (twenty five) and it will be calculated out of 100 (one hundred). Those who score 70 (seventy) points or more out of 100 (one hundred) in the practice exam shall be deemed successful.

8. The practice exam shall be conducted by practicing on a patient and/or on a model.
9. In the practice exam;
 - a. Treatment planning,
 - b. Practicing larva therapy,
 - c. Pre- and post-treatment follow-up practices shall be evaluated.
10. For certification, the success point of a participant shall be determined by calculating the arithmetic mean of the points obtained in the theoretical and practice exams.
11. Participants who fail in the practice exam shall be allowed to take the exam 2 (two) more times at maximum. Those who cannot pass the exam are supposed to apply to the Larva Therapy Certification Training Program again.
12. The objections of the participants who object to the results of their theoretical and practice exams conducted at the end of the larva therapy certification training program shall be evaluated and concluded by the certification training providers in 5 (five) days at the latest.
13. Participants who pass the theoretical and practice exams shall be awarded their certificates.
14. The certificate shall be registered by the Ministry of Health to become valid.
15. The validity period of the certificate is seven years. At the end of seven years, the certificates of those who satisfy the requirements listed in the certificate renewal criteria shall be directly renewed. The certificates of those who do not meet the requirements shall be renewed only if they succeed in the exam to be conducted.
16. In the case of a legally-acceptable excuse; the personnel trained shall complete their training by adding the duration of training which they are unable to participate in to the training program. If a participant fails to participate in training or s/he discontinues it, her/his training shall be cancelled and she/he shall be deemed unsuccessful.

8. PROGRAM OFFICER AND HER/HIS QUALIFICATIONS

Physicians and academicians holding an academic title in the relevant field are the program officers of the Larva Therapy Certification Training Program.

9. TRAINERS AND THEIR QUALIFICATIONS

Those who have at least one of the following qualifications are assigned as trainers in this training program.

1. Physicians who hold a Larva Therapy Certificate,
2. Physicians or academicians specializing in the subjects of the theoretical lessons in larva therapy,

3. Physicians who have at least two national/international scientific publications on larva therapy,
 4. Those who are foreign national and document that they have actively practiced their profession and received larva therapy training in an institution accredited on international platform and who are deemed to be qualified by the committee established by the relevant unit of the Ministry,
 5. The citizen physicians of the Republic of Turkey who document that they have actively practiced their profession abroad and received larva therapy training in an institution accredited on international platform and who are deemed to be qualified by the committee established by the relevant unit of the Ministry,
- c. have a server and infrastructure architecture in parallel with the capacity of the trainees,
 - d. ensure that video conferencing software and infrastructures are integrated into the system so as to provide simultaneous trainings,
2. have a training hall which has sufficient equipment and where the participants can receive interactive training,
 3. have a training hall which is warm and bright enough as well as being spacious, where a modular system can be used, which has a capacity in the number of the participants to be trained, and which can be divided into two separate training halls when necessary,

NOTE: The Practice Centers are obliged to notify the Ministry of Health about the qualifications and names of the trainers.

10. PROPERTIES OF THE TRAINING PLACE

The institutions/organizations which have a "Practice Center" and have the authority to provide training can organize the Larva Therapy Certification Training Program. The place where the training will be provided shall:

1. For distance learning;
 - a. have Learning Management System (LMS) software compliant with international learning content standards (Scorm, AICC, etc.) have a Learning Management System (LMS) Management panel,
 - b. have a Learning Management System (LMS) Management panel
4. have adequate number of chairs and desks for participants,
5. have a server and infrastructure architecture in parallel with the capacity of the trainees for distance learning,
6. ensure that video conferencing software and infrastructures are integrated into the system so as to provide simultaneous trainings,
7. be a Center for Traditional and Complementary Medicine Practices approved by the Ministry,
8. have computer and audiovisual devices which will allow for carrying out the training using appropriate technology; practice models; a blackboard; a printer, xerox machine and paper support systems ensuring that participants are provided with training objectives, subjects and contents/presentations; preferably an internet access enabling

that online and visual animations/ training materials are used.

11. VALIDITY PERIOD OF THE CERTIFICATE

The validity period of the certificate is 7 (seven) years.

12. CERTIFICATE RENEWAL CRITERIA

The renewal of the certificate shall be carried out in line with the criteria below.

1. At the end of the validity period of the certificates, among the certificate-holders, those who document that they meet at least one of the following criteria:
 - a. Having attended national/international trainings or scientific meetings on larva therapy at least 1 (one) time,
 - b. Having published an article on larva therapy in 1 (one) national/international peer-reviewed journals,
 - c. Having actively worked in this field for 6 (six) months, shall be awarded a certificate renewal (the validity period of their certificates are extended for another 7 years). The certificate-holders shall submit their documentation related to these criteria during the certificate renewal application to the certification training providers that awarded the certificate to them.
2. Participants who do not fulfil at least one of the criteria in the first paragraph need to take the certificate renewal exam and pass the exam.
3. The renewal exam shall be conducted as a theoretical exam consisting of multiple-choice questions prepared in line with the recent developments in the field and the subjects in larva therapy certification training program by the implementers of larva therapy certification training program under the coordination of the relevant unit of the Ministry.
4. Participants who score 70 (seventy) or more points in the renewal exam shall be deemed successful and the duration of their certificates shall be extended for another 5 (five) years.
5. The certificates of the certificate-holders shall be valid until the certificate renewal exam process is completed.
6. The certificates of those who fail to attend the certificate renewal exam twice in a row shall be deemed invalid, except in cases of legally acceptable excuses. Following the end of the legally acceptable excuse, they shall be tested as soon as possible.
7. In cases when the training activities of the entity with the authorization to provide certification training program are stopped or its certification training provision authorization documents are cancelled for any reason or in cases of shut-down and transfer, the certificate renewal exams shall be conducted by the relevant unit of the Ministry.
8. The objections of the certificate-holders, who fail in the certificate renewal exam to the renewal exam results, shall be evaluated and concluded in maximum 5 (five) working days by the certificate renewal exam committee.

13. EQUIVALENCE APPLICATION AND PROCEDURES AND PRINCIPLES OF EQUIVALENCE PROCESSES

13.1. Equivalence Application

Equivalence shall be requested by using the equivalence application form (Appendix-2) prepared by the Ministry in line with the provisions of the Regulation on Certification Training of the Ministry of Health. It is mandatory to submit all the documents specified in this form. Each section specified in this form shall be filled in detail, the original copies of the below-listed documents approved by the institution/organization which provides the training and the translation of the documents into Turkish by a certified translator if the training is received abroad shall be submitted as attachment to the form.

13.2. Documents to be attached to the Application Form:

1. A certified copy of the certificate.
2. A certified copy of the Faculty of Medicine diploma.
3. A certified copy of postgraduate education certificate, if available.
4. A copy of Turkish Identification Card/certified copy of Foreign Identification Card and 2 (two) photographs.
5. All information and documentation related to the Training Curriculum specified in the 4th paragraph of the Application Form (the original of the document in the language of the training and the document and its translation into Turkish).
6. Document proving that s/he received at least 60 hours of theoret-

ical and practical training, and the Training Curriculum.

7. The applicant will be requested to submit a document which is received from the official health authority of the country of training or the head of mission of Turkey and shows that the Institution/Organization/Private Law Legal Entity/Natural Person who/which provided the training and who/which is included in the 3rd paragraph of the Application Form is authorized to provide training.
8. The applicant will be requested to document that s/he resided in the country in which s/he received training for as long as the training duration with his/her passport or other official documents and the formally-commissioned officials will be requested to provide documentation proving that they were off duty in the said period.

13.3. How to carry out the Equivalence Procedures

1. The application files of those who apply for certificate equivalence shall be examined in line with the Larva Therapy Certification Training Standards by a Scientific Committee to be set up by the relevant unit.
2. Applicants whose files are deemed suitable and sufficient shall be tested with theoretical and practice exam.
3. Applicants who score 70 (seventy) points or more out of 100 (one hundred) in the theoretical exam shall be deemed successful. Those who fail to score this minimum point in the theoretical exam shall be allowed to take the exam 2 (two)

more times at maximum; those who cannot pass the exam are supposed to apply to the Larva Therapy Certification Training Program.

4. Applicants who cannot pass the theoretical exam shall not be allowed to take the practice exam.
5. Participants who score 70 (seventy) points or more out of 100 (one hundred) in the practice exam shall be deemed successful. Those who fail to score this minimum point in the practice exam shall be allowed to take the exam 2 (two) more times at maximum; those who cannot pass the exam are supposed to apply to the Larva Therapy Certification Training Program.
6. Certificate Equivalency Document shall be drawn up for applicants who pass the theoretical and practice exams.
7. Certificate Equivalency Document shall be registered by the Ministry of Health.

14. PROVISIONAL CLAUSE

Those who meet the criteria below and who apply to the Ministry within 6 (six) months after the publication of this standard and who are deemed suitable by the committee to be established by the relevant unit of the Ministry are awarded a Osteopathy Certification equivalence without being tested for one time only.

1. Having published at least 2 (two) articles on the subject in a national/international indexed journal,
2. Having at least 1 (one) chapter in a book or a book on the subject,
3. Having conducted a postgraduate thesis study on the subject,
4. Having worked as a researcher or executive in a scientific project supported by either a university or TUBITAK on the subject,
5. Having worked as a postgraduate thesis supervisor on the subject.

