



ORIGINAL RESEARCH ARTICLE

Author's Professional System for Organizing Lash Specialist Work Based on Diagnostic Protocols and Load Prediction

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ABSTRACT

This article presents the author's professional system for organizing the work of a lash specialist based on diagnostic protocols, growth phase analysis, and predictive load management. The proposed system does not focus on a specific extension technique, but rather on the structured decision-making process that ensures safe, clean, and predictable results in eyelash extension practice.

The article demonstrates how professional lash work can be transformed from an intuitive cosmetic procedure into a structured methodological system that includes natural lash diagnostics, growth phase differentiation, load prediction, directional control, and zonal architectural planning. A practical example from professional practice illustrates the effectiveness of this system in maintaining aesthetic quality while preserving the long-term integrity of natural lashes.

Keywords: lash diagnostics, predictive load, professional algorithm, lash architecture, decision-making system, applied cosmetology.

Introduction

In everyday professional practice, repeated observations reveal the long-term consequences of improper eyelash extension, including thinning of natural lashes, fragility, uneven density, premature shedding, disruption of growth direction, and weakening of the follicular structure. In most cases, these issues arise from ignoring

lash growth phases and the absence of individualized load selection. These observations are consistent with existing literature on eyelash follicle biology, hair growth cycles, traction-related hair damage, and ocular complications associated with eyelash enhancement procedures. Previous studies emphasize that eyelashes have specific anatomical and physiological characteristics, including growth-phase differences

and limited tolerance to external mechanical stress. Therefore, professional eyelash extension should take into account follicular integrity, lash growth stage, structural compatibility, and potential risks associated with excessive traction or improper load distribution.

These practical observations became the foundation for developing the author's professional system, which transforms eyelash extension from an intuitive cosmetic procedure into a structured diagnostic and decision-making process aimed not only at aesthetic results, but primarily at the safe integration of artificial lashes into the natural lash line.

Aim of the study

The aim of this study is to present and systematize the author's professional system for organizing the work of a lash specialist based on diagnostic protocols, growth phase assessment, directional control, and predictive load management in everyday professional practice.

Materials and methods

This study is based on an observational analysis of professional eyelash extension procedures performed using the author's predictive load management system.

The analysis included approximately 15–20 clients with varying natural lash conditions, including differences in density, thickness, and growth phase distribution.

Inclusion criteria: – clients with natural eyelashes suitable for extension procedures – absence of dermatological contraindications

Exclusion criteria: – severe lash damage – active eye infections or medical conditions affecting lash growth

All procedures were carried out under routine professional conditions with continuous observational assessment of structural behavior and load distribution.

Diagnostic protocol as the first stage of professional decision-making

The author's professional system begins with a mandatory diagnostic protocol that determi-

nes all subsequent technical decisions during the procedure.

Within the first 30–60 seconds of visual and tactile assessment, the lash specialist evaluates:

- › total number of natural lashes,
- › actual lash length,
- › density and uniformity,
- › pigmentation,
- › presence of gaps,
- › general condition of the lash line.

This rapid yet structured assessment allows the practitioner to shift from intuitive actions to a predictable, professionally guided strategy.

The diagnostic stage is not optional, but serves as the foundation for selecting thickness, length, curl, direction, and the overall architectural approach.

Growth phase analysis as a load-prediction tool

The life cycle of a natural eyelash consists of several phases, and understanding these biological processes is critically important for professional decision-making in eyelash extension.

Anagen is the active growth phase of a new lash. During this period, intensive cell division occurs in the follicular matrix. Lashes in the anagen phase are typically thin, short, weakly pigmented, and possess low load-bearing capacity.

Within the author's professional system, minimal thicknesses and shorter lengths are intentionally selected for anagen lashes, and in certain cases, such lashes are deliberately left without extensions.

Catagen is the transitional phase in which cell division slows down, the follicle gradually contracts, and the lash detaches from the dermal papilla. A significant portion of structurally mature lashes that form the main load-bearing mass of the lash line is present in this phase.

Telogen is the resting phase. Lash growth ceases and pigment production stops. The lash remains in the follicle until natural shedding occurs.

Exogen represents the stage of physiological shedding, during which the old lash leaves the follicle and a new one begins to develop.

Within this professional system, the condition of mature lashes (catagen and telogen) is used for objective assessment of the natural lash base and for predicting the permissible mechanical load during the procedure.

Working with anagen lashes as a critical decision point

One of the most common mistakes made by beginners is applying standard artificial lash lengths to short anagen lashes in an attempt to “align” the lash line visually.

A short anagen lash is actively growing. If a long or heavy artificial lash is attached to it, within one to two weeks it disrupts the lash line, creates an untidy appearance, causes sagging in certain eye zones, and leads to premature shedding.

Within the author’s professional system, shorter and lighter artificial lashes are selected for anagen lashes, or the principle of conscious skipping is applied. This allows the natural lash, after further growth, to integrate organically into the overall architecture of the extension without disturbing structural balance.

This approach helps maintain an even lash line, prevent local overload, and predict a stable appearance of the extension throughout the wearing period.

Direction of lash placement as a functional element of the professional system

Correct lash placement direction has not only aesthetic but also functional significance. It directly influences:

- › retention of the extension,
- › stability of the result,
- › architectural cleanliness,
- › the possibility of visual eye-shape correction.

Within the author’s professional system, the direction of each extension is selected according to:

- › the natural growth direction of the lashes,
- › eye placement and anatomical shape,
- › the condition of natural lashes in each zone.

The use of different directions (straight, outward, upward, combined) allows the practitioner not only to create a visual effect, but also to correct drooping outer corners, asymmetry, and eye depth without overloading the natural lash structure.

Offset regulation as a safety and precision parameter in lash work

Within the author’s professional system, the distance from the eyelid margin is considered one of the key control parameters that determines both safety and architectural cleanliness of the work.

The optimal professional offset averages 0.3–0.5 mm and may vary depending on eyelid

sensitivity, tendency to swelling, and individual anatomical features.

Both insufficient and excessive distance create professional risks such as:

- › eyelid irritation,
- › reduced retention,
- › disruption of architectural alignment,
- › client discomfort.

This parameter is not incidental but is deliberately and consistently regulated throughout the entire procedure.

In championship-level works, offset distance is evaluated as an independent judging criterion and reflects the practitioner’s level of professional training and precision.

Continuous load regulation during the procedure

A key component of the author’s professional system is the ongoing regulation of mechanical load applied to each individual natural lash.

Indicators of excessive load may include:

- › sagging in specific eye zones,
- › premature shedding,
- › distortion of lash direction,
- › appearance of gaps in the lash line,
- › client discomfort during the wearing period.

Throughout the procedure, the practitioner continuously reassesses whether the selected artificial lash matches the structural capacity of each natural lash. Load management is therefore not limited to the initial diagnostic stage but remains an active, dynamic process during the entire application.

Zonal planning as a component of lash architecture

In the author’s professional system, the lash line is not treated as a uniform working field. It is divided into functional zones that require different technical decisions.

Inner corner

This area contains thin and vulnerable lashes. In many cases, several lashes are intentionally left without extensions to prevent overload.

Central zone

This zone often has the greatest potential for length and forms the main architectural axis of the extension design.

Outer corner

Frequently a previously overloaded or weakened area due to long-term volume extensions.

This zone requires corrective rather than intensifying work.

Such zonal differentiation allows the practitioner to construct the extension design based on anatomical and structural characteristics rather than a standardized decorative scheme.

Eye modeling as a component of the professional decision-making system

Within the author's professional system, eye modeling is not used as a decorative scheme but as a tool for gentle functional and visual correction based on anatomy and the condition of natural lashes.

Through the deliberate selection of lengths, curls, and placement directions, the practitioner is able to:

- › visually widen or narrow eye placement,
- › lift or soften the outer corners,
- › balance natural asymmetry,
- › enhance eye shape without overloading the natural lashes.

Modeling is therefore determined not by a predefined styling pattern but by diagnostic assessment of eye structure and lash growth characteristics in each zone.

Professional decision-making algorithm of the lash specialist

In professional eyelash extension practice, the quality and safety of the result depend not only on technical skills but primarily on the sequence of professional decisions made before and during the procedure.

The author's professional system is based on a consistent decision-making algorithm that allows the practitioner to adapt the technique to each individual client.

This algorithm includes the following stages:

- › assessment of the natural lash condition,
- › identification of growth phases across the lash line,
- › determination of permissible load for each zone,
- › selection of curl, thickness, and length according to structural compatibility,
- › control of placement direction,
- › regulation of offset distance from the eyelid margin,
- › continuous monitoring of load balance throughout the procedure.

This structured sequence transforms eyelash extension from an intuitive cosmetic manipulation into a controlled professional system grounded in diagnostics, prediction, and architectural planning.

Practical case demonstrating the application of the professional decision-making algorithm

A representative case from a series of observed professional cases involved a client with a history of long-term heavy volume eyelash extensions.

The natural lashes were visibly thinned, uneven in density, and showed signs of structural weakening.

Before the procedure, a full diagnostic assessment was conducted in accordance with the author's decision-making algorithm. Growth phases were identified across different zones of the lash line, permissible load was determined for each area, and individual parameters for curl, thickness, length, direction, and offset distance were selected.

During the procedure, continuous monitoring of load balance and structural correspondence was maintained.

Over the following months of work using this algorithmic approach, the client demonstrated not only improved retention and architectural cleanliness of the extensions, but also a noticeable improvement in the condition of the natural lashes. Density became more uniform, breakage decreased, and the lash line regained structural stability.

This case demonstrates how a structured professional system of decision-making directly influences both aesthetic results and long-term biological safety. Clinical photographs are not included due to client confidentiality and privacy considerations.

Evaluation criteria

The effectiveness of the method was evaluated using qualitative assessment criteria, including:

- › structural stability of the lash line,
- › absence of visible overload (bending, twisting, collapse),
- › retention consistency during the wearing period,
- › preservation of natural lash condition,
- › overall architectural cleanliness of the extension.

Results

The implementation of the author's professional system for organizing lash specialist work enabled precise control of mechanical load across all lash zones. The practitioner was able to consistently predict retention, maintain architectural cleanliness, and prevent common complications associated with improper extension techniques.

Natural lashes in different growth phases maintained structural stability, and no signs of overload, bending, twisting, or directional distortion were observed during the wearing period.

The system demonstrated predictable aesthetic outcomes together with long-term preservation of the natural lash base.

Discussion

In everyday lash practice, many procedures are performed intuitively and are guided primarily by the desired visual effect rather than by structural and biological compatibility with natural lashes. This often leads to unpredictable retention and gradual weakening of the lash line.

The professional system described in this article shifts the focus from decorative results to diagnostic assessment, load prediction, and controlled architectural construction. By applying a structured decision-making algorithm, eyelash extension becomes a regulated professional process rather than a subjective cosmetic service.

This approach allows practitioners to align aesthetic objectives with biological safety and significantly improve the quality, stability, and predictability of their work. This study is limited by the absence of quantitative statistical analysis and is based on applied professional observations within routine practice.

Conclusions

The author's professional system for organizing lash specialist work translates practical experience into a structured diagnostic and technical protocol. It ensures the safe integration of artificial lashes with the natural lash base, predictable aesthetic outcomes, and long-term preservation of lash health.

This system can serve as a practical methodological framework for lash professionals seeking to improve work quality through diagnostics, load control, and architectural precision.

Ethical considerations

The procedure described in this article is non-invasive and cosmetic in nature. The author's professional system prioritizes the principle of "do no harm" through individualized diagno-

stics, load control, and structural compatibility with natural lashes.

Declarations

Author Statement

The professional system described in this article is based on the author's long-term practical experience in eyelash extension and on repeated observational analysis in everyday work. All conclusions presented are derived from the consistent application of diagnostic protocols, growth phase assessment, load prediction, and architectural planning in professional practice.

Conflict of interest statement

The authors declare no conflict of interest.

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