

IC13 - PHAKIC IOL: LEARN IT FROM THE MASTERS

Date : 13/03/2026 | Hall : Meeting Room L-03 | Time : 11:30 - 12:40

Chief Instructor - Dr.Purendra Bhasin

Co-Instructor : Dr.Partha Biswas, Dr.D. Ramamurthy, Dr.Mahipal S. Sachdev, Dr.Sudhank Bharti, Dr.J. S. Titiyal

Instruction Course Handout

Course Overview

Phakic intraocular lens (Phakic IOL) implantation has evolved into a well-established, dependable, and increasingly preferred refractive surgical procedure for the correction of moderate to high refractive errors. Continuous advances in lens design, diagnostic imaging, and surgical refinement have transformed this procedure into a predictable, safe, and highly effective solution capable of delivering excellent visual outcomes with exceptional patient satisfaction.

This instructional course brings together renowned surgeons and pioneers in phakic lens surgery who will share their extensive clinical experience through structured lectures and high-quality, video-assisted surgical demonstrations. The program provides a comprehensive, step-by-step understanding of patient selection, preoperative planning, surgical execution, complication management, and long-term postoperative care.

The emphasis remains firmly on real-world clinical applicability, enabling surgeons to confidently integrate phakic IOL surgery into routine refractive practice.

Course Objectives

At the end of this course, participants will be able to:

- Understand the indications and contraindications for phakic IOL surgery
- Perform a systematic and evidence-based preoperative evaluation
- Learn standardized implantation techniques for ICL and Toric ICL
- Recognize and manage intraoperative and postoperative complications
- Understand long-term follow-up and safety considerations
- Enhance surgical confidence and optimize patient outcomes

Scientific Program & Faculty Sessions

Dr. Purendra Bhasin

Introduction of the course and Overview of Phakic IOL

Phakic IOL surgery has transitioned from an alternative refractive option to a primary solution for patients unsuitable for corneal refractive procedures. Despite increasing global adoption, uncertainty persists regarding indications, lens selection, safety concerns, and its positioning within modern refractive surgery.

This session establishes the essential conceptual foundation required for the safe adoption of phakic IOL surgery. Participants will gain clarity regarding where phakic IOL stands today among LASIK, SMILE, and refractive lens exchange, enabling rational and patient-specific surgical decision-making.

By bridging historical evolution with contemporary scientific evidence, attendees will understand how technological advancements have improved predictability and safety, ultimately developing a clear clinical roadmap for integrating phakic IOL surgery into everyday practice.

Participants will learn:

- Identification of ideal candidates in daily practice
- When phakic IOL is superior to corneal refractive surgery
- Common misconceptions and strategies to avoid them
- Practical decision-making approaches used by experienced surgeons
- Orientation to emerging concepts, including presbyopic phakic IOLs

Dr. Purendra Bhasin

Preoperative Planning & Workup of Phakic IOL

Most complications in phakic IOL surgery originate not during surgery but from inadequate preoperative evaluation. Accurate patient selection and meticulous biometric assessment remain the true determinants of long-term success.

This session presents a structured and practical framework for preoperative planning, emphasizing the interpretation of investigations rather than simple data acquisition. Special focus will be placed on parameters influencing vault behavior, safety, and refractive outcomes.

Participants will understand how minor measurement inaccuracies can lead to major postoperative issues and how experienced surgeons prevent these through systematic evaluation protocols.

Participants will gain:

- A reproducible preoperative assessment workflow
- An understanding of sizing strategies and vault prediction
- Methods to avoid borderline or unsafe cases
- Practical counseling techniques that enhance patient satisfaction

Dr. Partha Biswas

The Correct Way to do ICL and Toric ICL

Although phakic IOL implantation appears technically straightforward, subtle surgical nuances determine whether outcomes are excellent or merely acceptable. Even small intraoperative deviations may result in vault abnormalities, rotation, inflammation, or refractive surprises.

This highly practical session focuses on refined surgical steps followed by expert surgeons to achieve consistent and predictable outcomes. Through detailed surgical videos and commentary, attendees will observe how technique optimization improves safety and efficiency.

Special emphasis will be placed on toric alignment accuracy—a critical determinant of refractive success.

Participants will understand:

- A stepwise, standardized surgical workflow
- Techniques to minimize crystalline lens trauma
- Methods to achieve predictable vault outcomes
- Practical intraoperative pearls rarely discussed in textbooks

Dr. D. Ramamurthy

Challenging Situations of Phakic IOL

Clinical practice frequently presents scenarios that fall outside textbook recommendations. Managing borderline anatomy, unexpected intraoperative findings, and postoperative dilemmas requires sound clinical judgment developed through experience.

This case-based session highlights complex real-world situations and demonstrates how expert surgeons analyze risk, modify strategies, and maintain surgical safety.

Participants will learn:

- An approach to borderline anterior chamber depth cases
- Management of abnormal vault situations
- Strategies for rotational instability
- Decision-making: observation versus intervention

Dr. Mahipal S. Sachdev

Intra-Operative and Early Post- Operative Complications in Phakic IOL and their Management

Fear of complications remains a major barrier to the wider adoption of phakic IOL surgery. Understanding complication mechanisms and early intervention significantly improves surgical confidence and outcomes.

This session provides a systematic approach to recognizing, preventing, and managing intraoperative and early postoperative complications using real clinical examples and practical algorithms applicable in daily practice.

Participants will gain insight into:

- Prevention of IOP spikes and pupillary block
- Management of inflammation and vault abnormalities
- Early recognition of warning signs
- Structured postoperative monitoring protocols

Dr. Sudhank Bharti

Long-Term Results and Issues of Phakic IOL

The true success of refractive surgery is defined by long-term safety and stability. Surgeons must understand how phakic IOLs behave over years rather than weeks to provide responsible patient care.

This session reviews long-term outcomes, endothelial safety, cataract risk, and evolving follow-up recommendations, helping surgeons transition from short-term refractive success to lifelong patient management.

Participants will learn:

- Expected long-term refractive stability
- Cataract monitoring strategies
- Risk factors for late complications
- Evidence-based follow-up protocols

Dr. J. S. Titiyal

Experience of Presbyopic Phakic IOLs

As refractive surgery advances toward presbyopia correction, newer phakic IOL designs aim to provide functional vision across multiple distances. These technologies represent the next frontier in refractive surgery.

This forward-looking session explores firsthand clinical experience, patient selection challenges, and realistic expectations associated with presbyopic phakic lenses.

Participants will understand:

- Optical principles behind presbyopic phakic lenses
- Suitable patient profiles
- Advantages and limitations of current designs
- Future possibilities in refractive correction

Why You Should Attend This Instruction Course

Phakic IOL surgery has rapidly become a cornerstone of modern refractive practice; however, consistent success depends on mastering clinical nuances often acquired only through experience.

This video-assisted masterclass brings together leading experts who share practical insights derived from high-volume surgical practice, focusing on real-world decision-making rather than theoretical concepts.

Participants will learn how to:

- Select the right patient with confidence
- Avoid preventable complications
- Refine surgical techniques for predictable outcomes
- Manage challenging scenarios safely
- Apply evidence-based strategies immediately in clinical practice

Attend this course to move from understanding the procedure to mastering its execution.

Final Take-Home Message

Phakic IOL implantation is a safe, predictable, and highly rewarding refractive procedure when supported by meticulous planning, precise surgical technique, and structured long-term follow-up. True mastery lies in understanding the small clinical nuances that profoundly influence outcomes.

Course Outcome:

By attending all sessions, participants will not only learn how to perform phakic IOL surgery but also understand how expert surgeons think, plan, and manage patients throughout the entire surgical journey - ultimately improving surgical safety, clinical confidence, and long-term patient satisfaction.