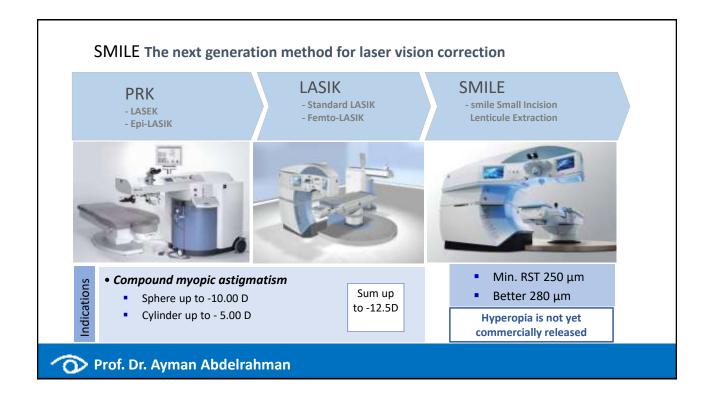


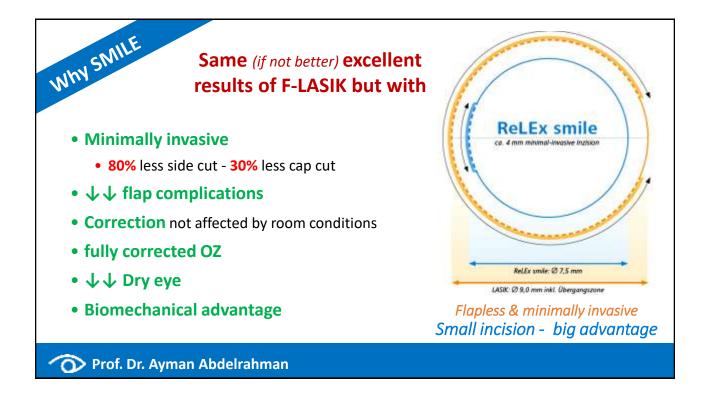


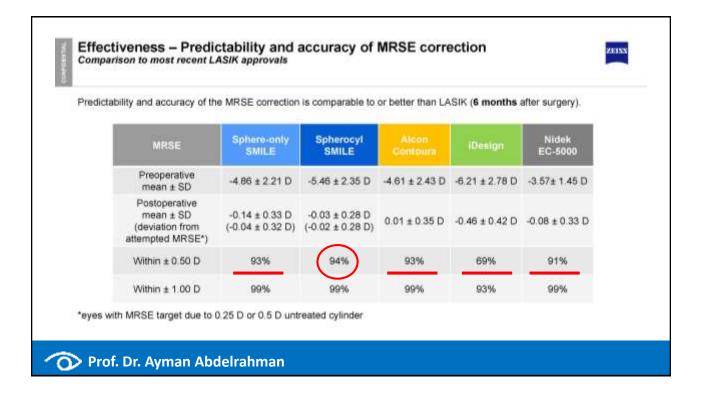
## **SMILE**

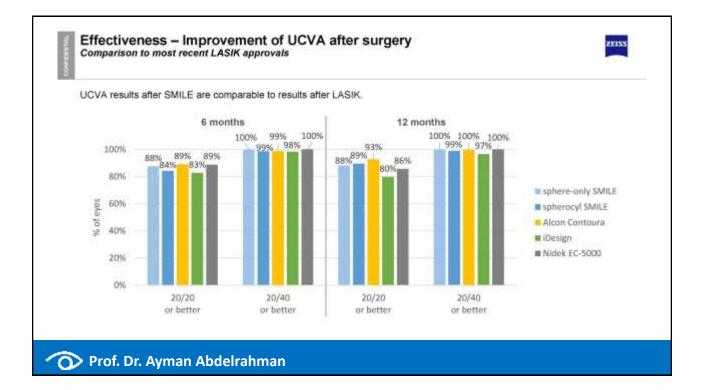
Management of Intraoperative Difficulties & Complications

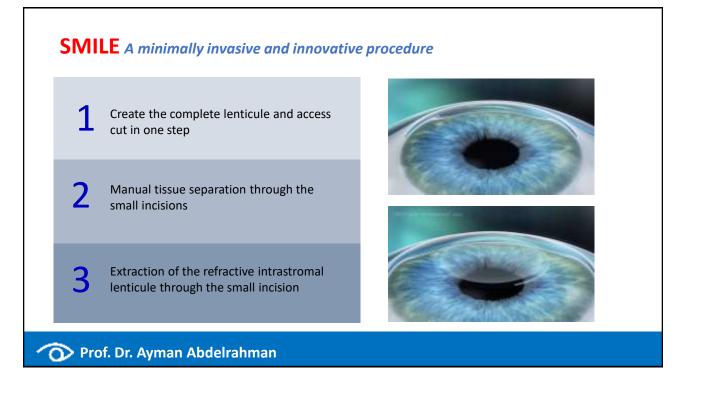
Dr. Ayman Abdelrahman MD, FRCS Assistant Professor of Ophthalmology - Zagazig University

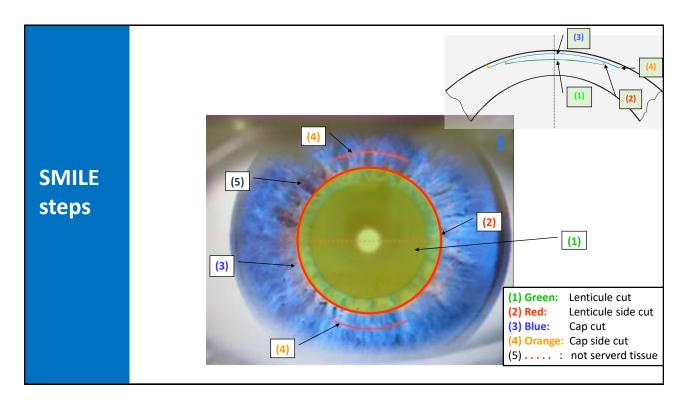


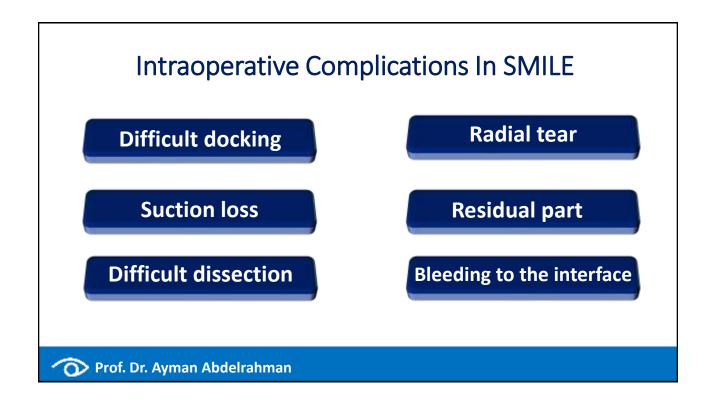


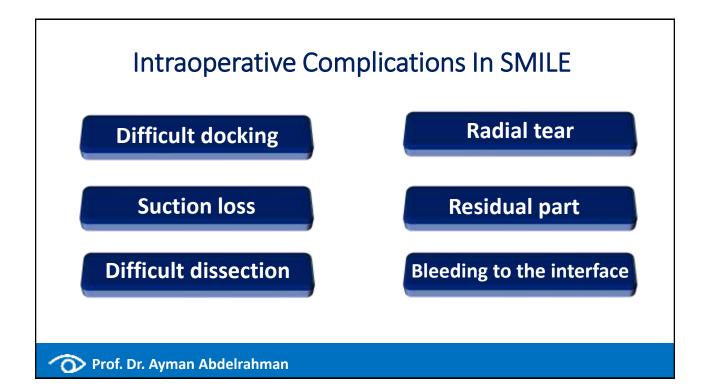




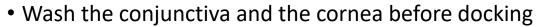






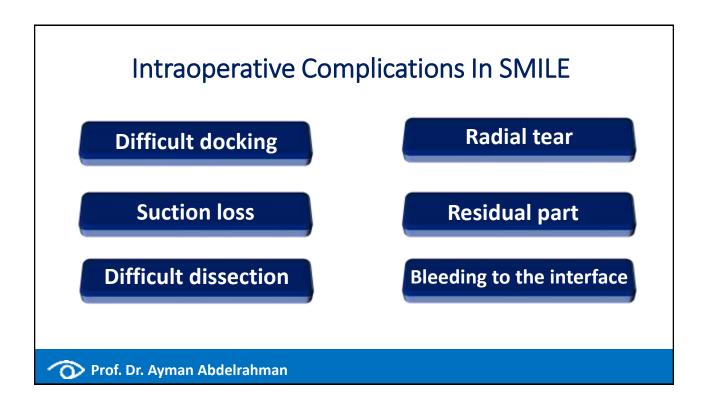


- Head position: Elevate
- Hair pillow .. Free it
- Nose .. Face turn
- Chin up .. Lower it



- Keep the cornea moist but not too wet
- Reclean the cone and the conjunctiva before docking

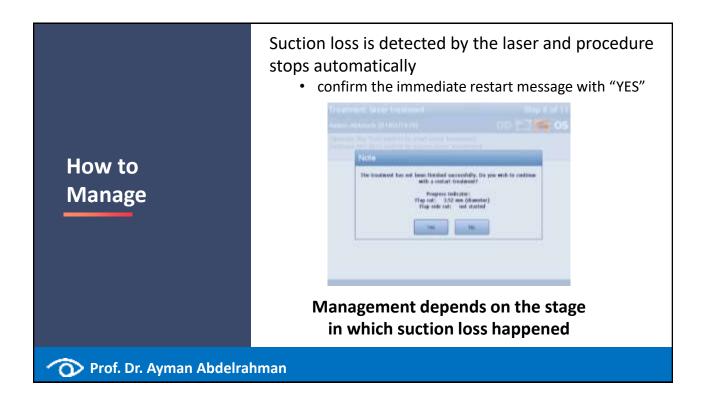
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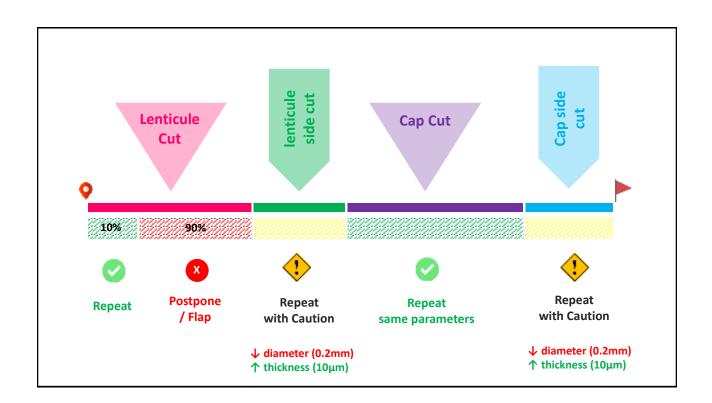
- Can happen with movement of the patient, loss of green light, ...
- Can be inconsequential or disastrous
- Calm down and reassure the patient (Verbal anasethia)

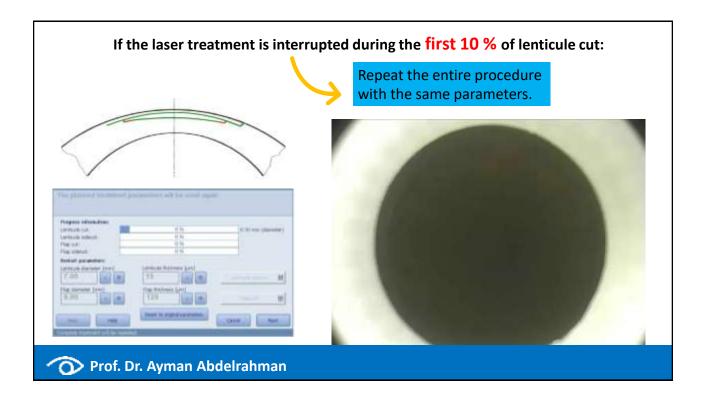


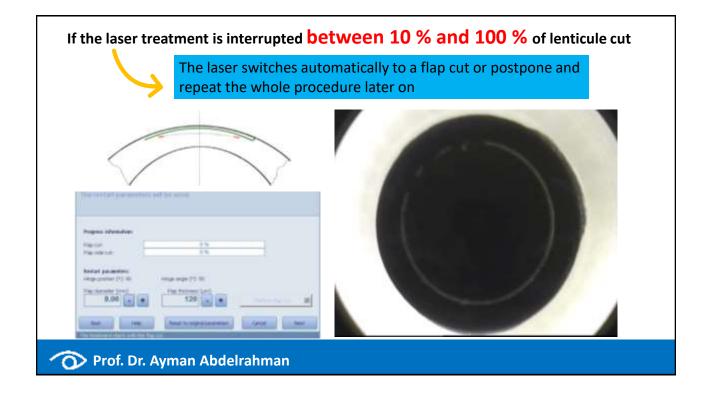
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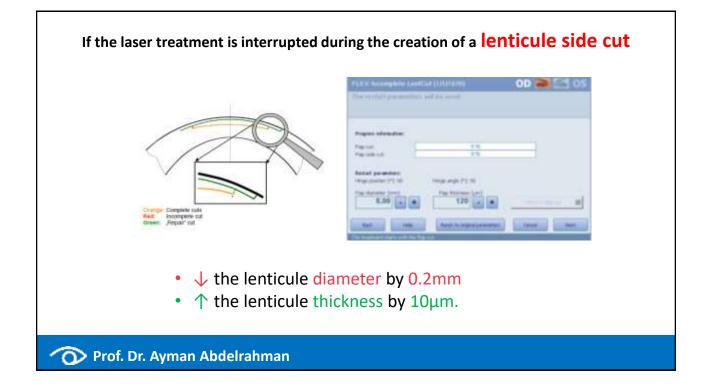


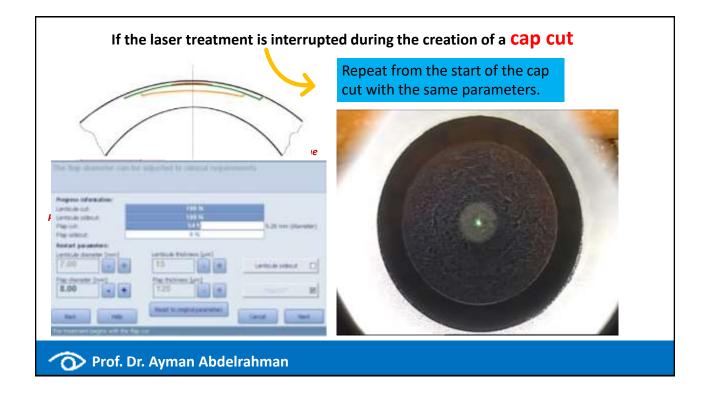
Suction loss during SMILE

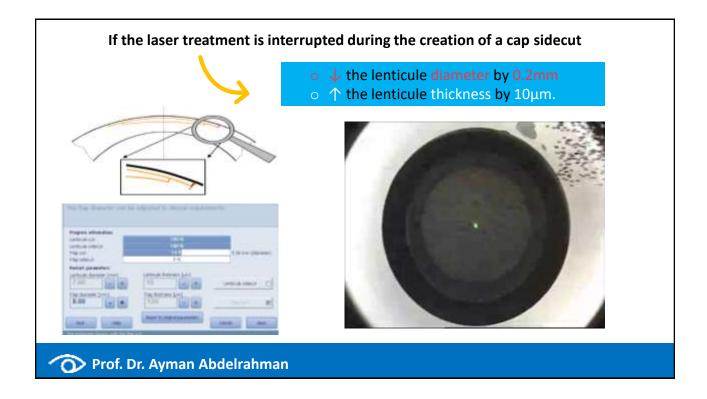


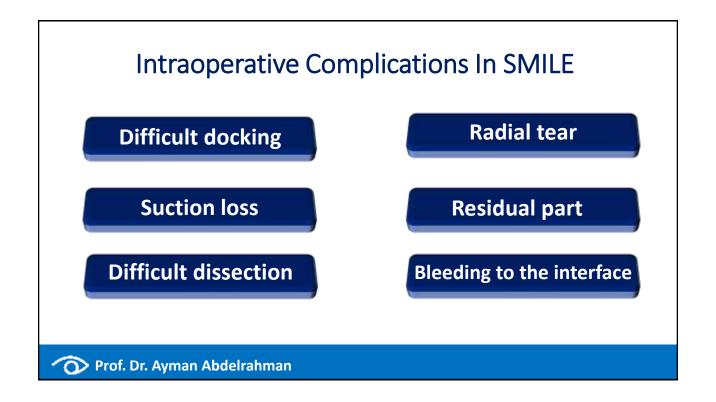






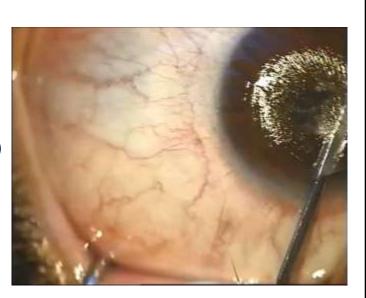








- Expect more resistance if,
  - Energy higher than needed (OPL)
  - Steep cornea
  - Black spots in the laser profile

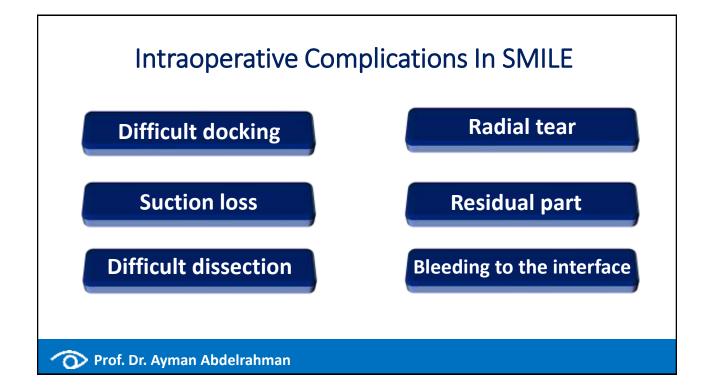


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- If you find difficulty getting under the lenticule, you may have lenticule stuck to the cap
- If you miss the superior plane don't worry
- Do not make the cornea dry
- Try gently to get above the lenticule from the corridor



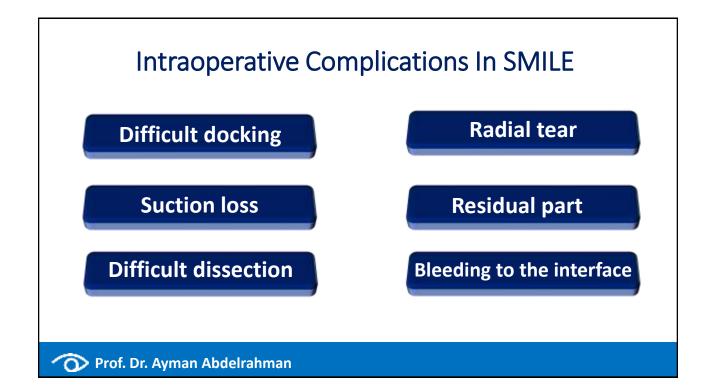
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- Avoid by
  - Pivot at the access incision
  - Fix limbus with forceps
- If it happened
  - Minimize manipulation at the site of the incision
  - Apply bandage contact lens



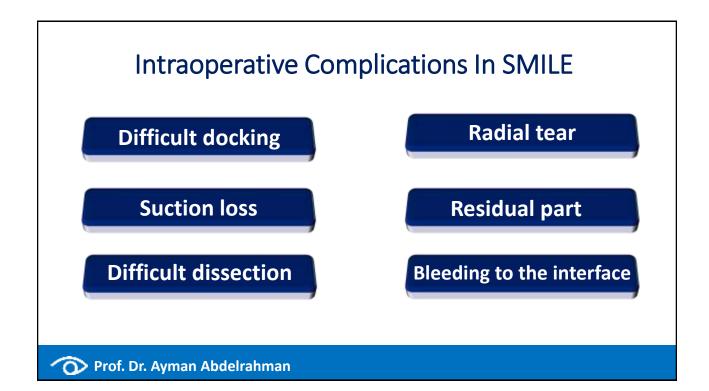
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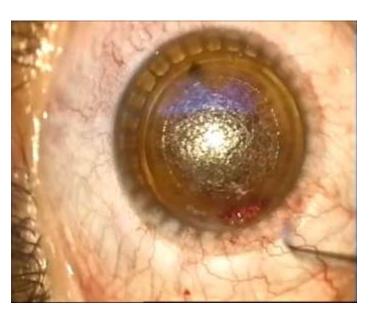
- Keep MLT > 15  $\mu$ m in low errors
- Separate the edge before trying to pull the lenticule
- Examine the lenticule carefully
- prednisolone drops ↑ visualization
- If significant, you have to remove it to avoid irregular astigmatism



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- Try to avoid having blood in the interface
  - Use vasoconstrictors
  - Vary the position of the access incision
  - Dry the bleeding
  - And finally wash the interface if you have to



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## Conclusion

- SMILE is a simple safe effective and predictable refractive procedure
- It has eliminated most of LASIK flap related complications however it has its own subset of difficulties complications
- Systematic approach to prevent and manage such complications together with growing experience and proper instrumentations would decrease the incidence of such events and make them harmless should they happen

