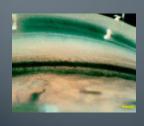




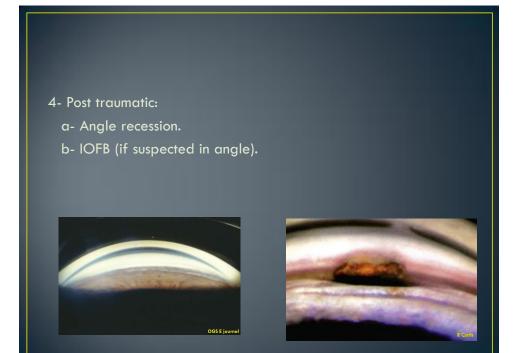
- 1 In all glaucoma patients.
- 2- Suspicion of angle closure.



- 3- Causes of secondary glaucomas e.g.:
 - a- Neovascular glaucoma.
 - b- Pigment dispersion syndrome.
 - c- Pseudoexfoliation syndrome.





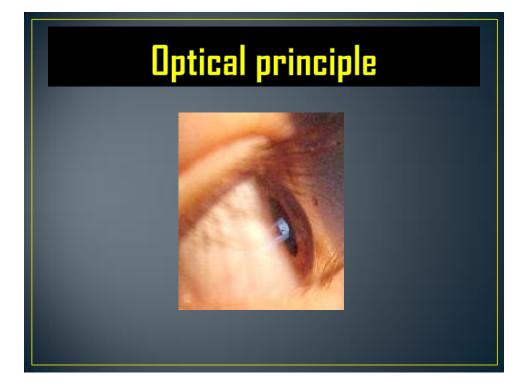


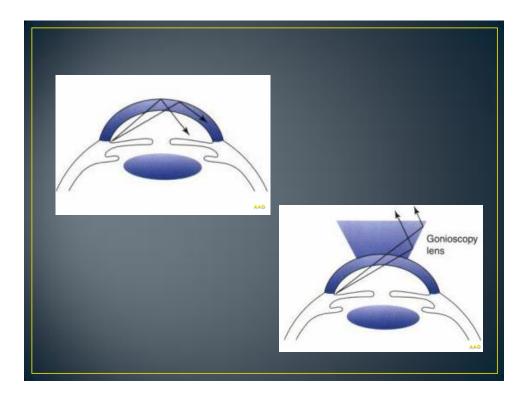
5- Evaluation of iris lesions e.g. iris cysts, small peripheral melanoma.

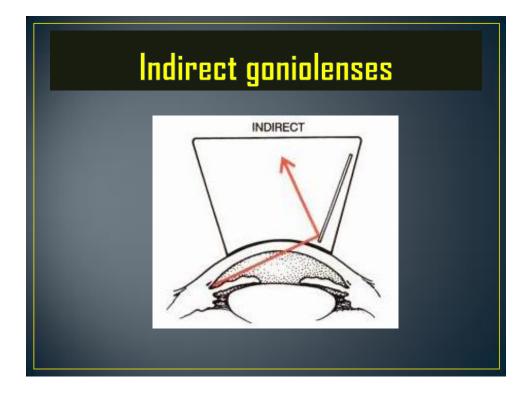


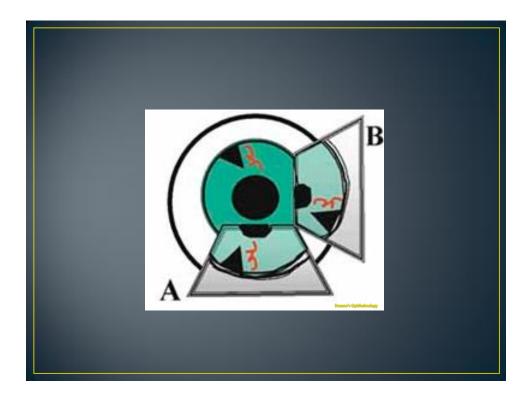
- 6- Visualization during angle procedures e.g. :
 - a- Goniotomy.
 - b- Laser trabeculoplasty.



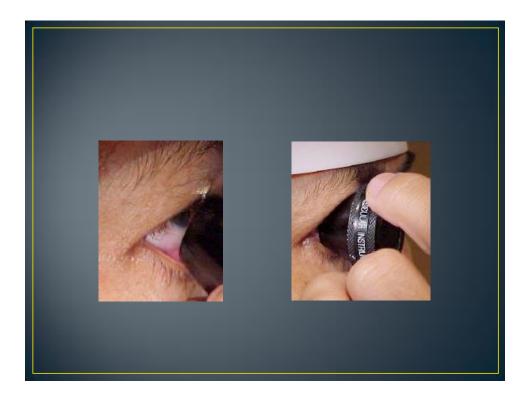






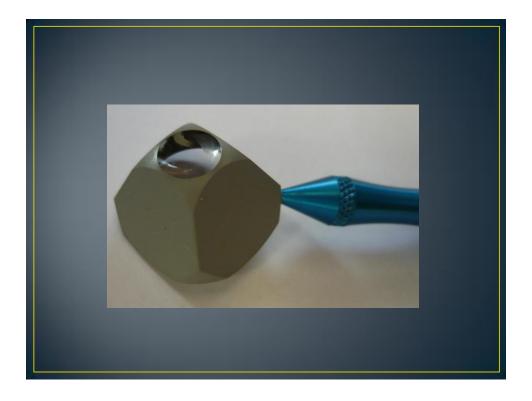


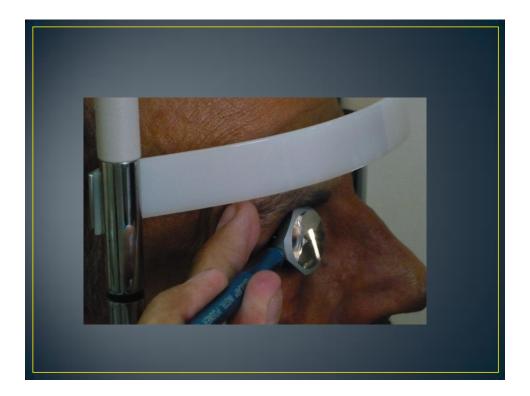












• Advantages:

1- Quick and convenient.

2- Slit lamp: provides variable illumination and magnification, Can create corneal wedge.

3- Indentation gonioscopy (e.g. Zeiss and Posner lenses): can differentiate appositional from synechial angle closure.

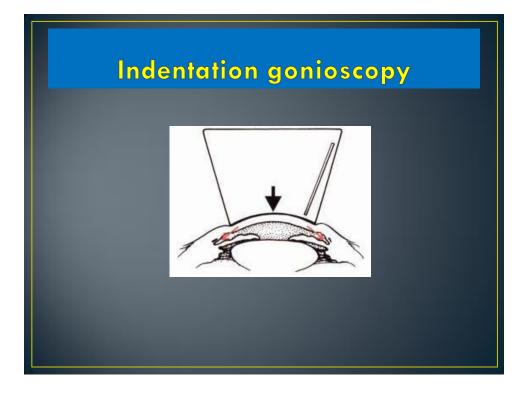
• Disadvantages:

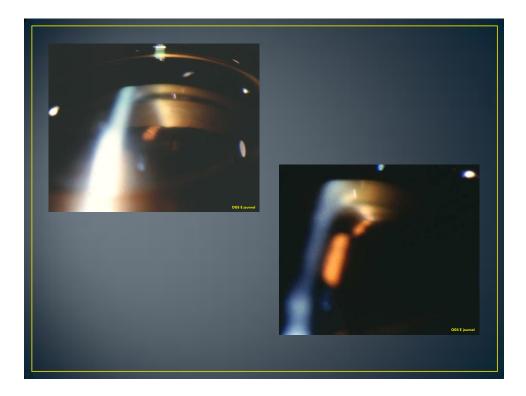
1- Mirror image can be difficult for some.

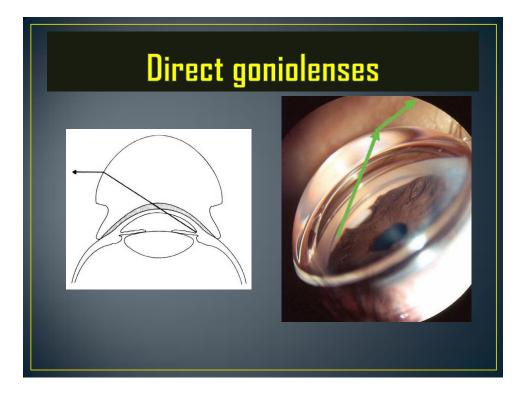
2- Excess pressure on the cornea:

a- Can increase the degree of angle narrowing in Goldmann lens.

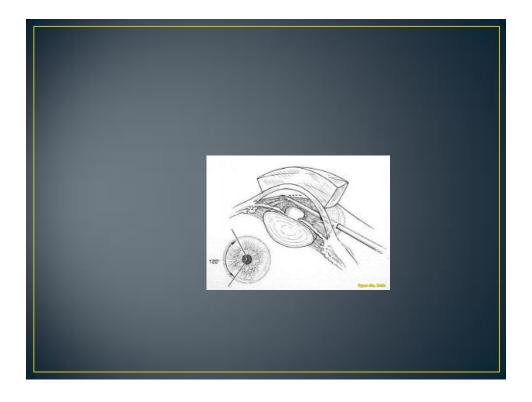
b- Can open the angle in four mirror lens.













• Advantages:

- 1- Direct view of angle.
- 2- More panoramic view.

• Disadvantages:

Needs special instruments.

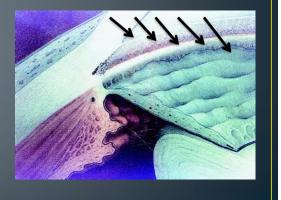
Gonioscopy technique

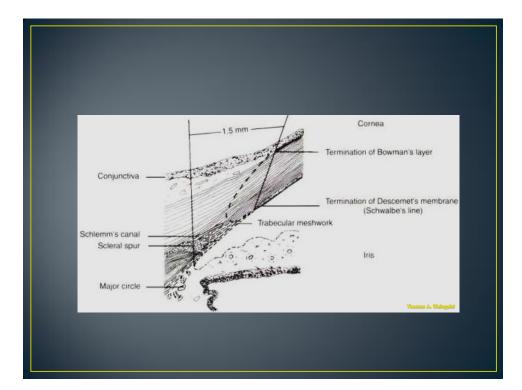
- 1- Explain the procedure to the patient.
- 2- Do slit lamp examination and tonometry first.
- **3-** Use topical anesthesia.
- 4- Moderately dark room.
- 5- Use fairly short and narrow beam perpendicular to the part of angle to be examined.

6- Examine part of the angle then rotate the lens gently and examine another part till examining the whole 360 degrees.

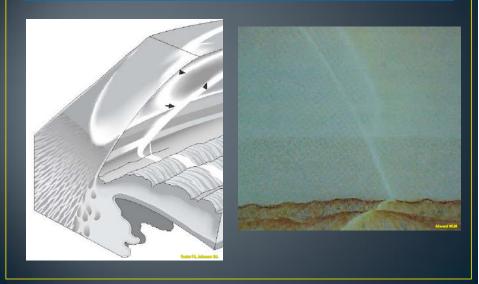
Normal angle structures

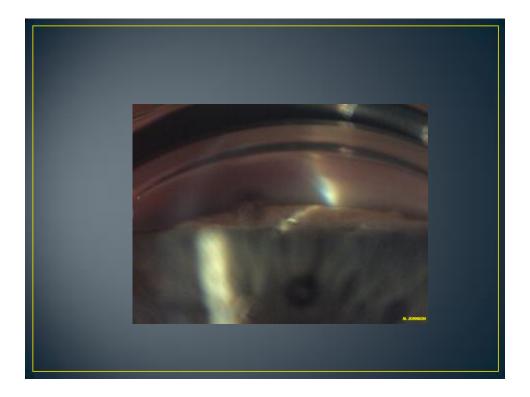
- 1- Schwalbe's line.
- 2- Trabecular meshwork.
- 3- Scleral spur.
- 4- Ciliary body.
- 5- Iris root.

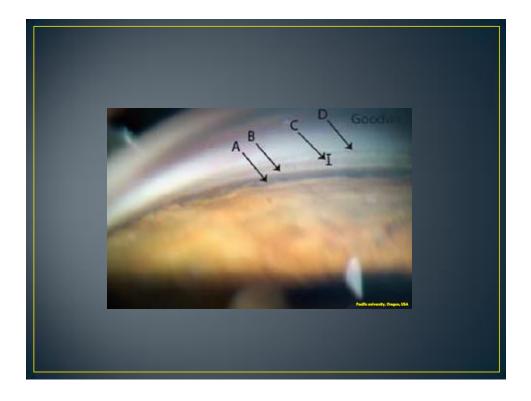




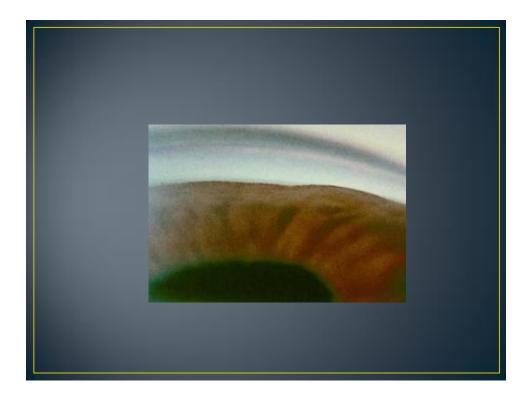
Identification of Schwalbe's line (Corneal wedge)



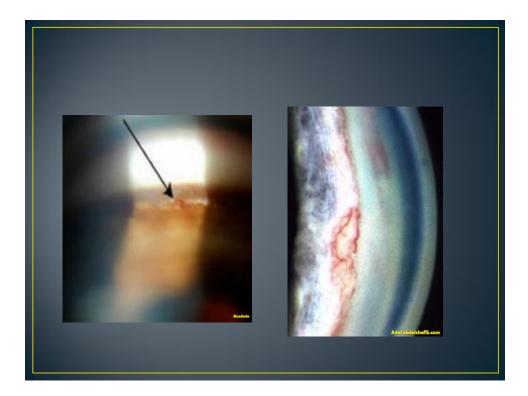








Normal angle blood	Neovessels	
vessels		
Thick	Fine	
Non-arborizing, appear in short segment	Arborizing	
Don't cross scleral spur	Cross scleral spur	
Radially oriented		



Iris processes	Peripheral anterior
	synechia
Fine	Broad
Extend into scleral spur	Extend beyond scleral spur
Underlying structures seen	Obscure underlying structures
Iris moves with indentation	Resists movement



