

What three things *must* be accomplished to successfully repair a rhegmatogenous RD?

1) Find all

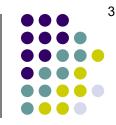
two words



What three things *must* be accomplished to successfully repair a rhegmatogenous RD?

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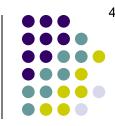
Α



What three things *must* be accomplished to successfully repair a rhegmatogenous RD?

1) Find all retinal breaks

2) Induce an two words in the word 1 of 2 word 2 of 2 immediately surrounding the break



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2) Induce an inflammatory response in the chorioretinal tissue immediately surrounding the break

# Q



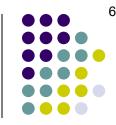
What three things *must* be accomplished to successfully repair a rhegmatogenous RD?

- 1) Find all retinal breaks
- 2) Induce an inflammatory response in the chorioretinal tissue immediately surrounding the break
- 3) Bring the inflamed choroid and retinal tissue into apposition long enough to allow formation of a

two words which will act as a barrier between the break and the subretinal space. Note that accomplishing this requires eliminating any

two words

that may be present.



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- 2) Induce an inflammatory response in the chorioretinal tissue immediately surrounding the break
- 3) Bring the inflamed choroid and retinal tissue into apposition long enough to allow formation of a chorioretinal scar, which will act as a barrier between the break and the subretinal space. Note that accomplishing this requires eliminating any vitreoretinal traction that may be present.



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Failing to accomplish one (or more) of these is the most common cause of RD surgery failure in the early post-op period!



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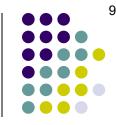
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Regarding finding retinal breaks, to what does the term Lincoff rules refer?



# A

### Rhegmatogenous RD Repair



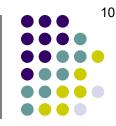
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### Rhegmatogenous RD Repair



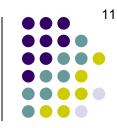
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How do one think about the eye vis a vis determining configuration?

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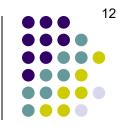
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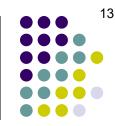


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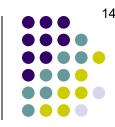
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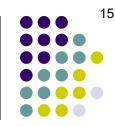
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- 1)
- 2) 3)

- 4)



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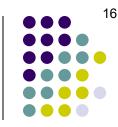
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# A/Q

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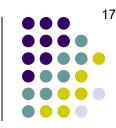
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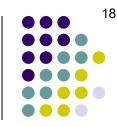
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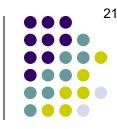
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With 12 o If the RD is superior but doesn't cross 12 o'clock, where is the break? It is within 1.5 clock-hours of the uppermost border of whichever side (ie, nasal vs temporal) of the RD is higher vs lower

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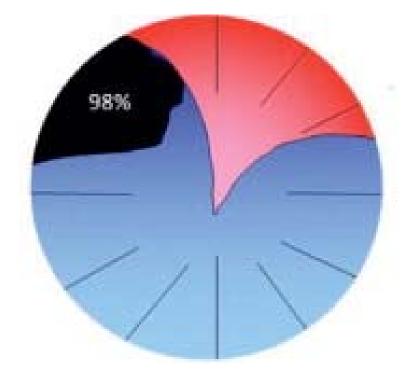
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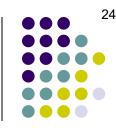
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#1: In a superior RD that does not cross the 12 o'clock meridian, the break is within 1.5 clock-hours of the uppermost border of whichever side (ie, nasal vs temporal) of the RD is higher



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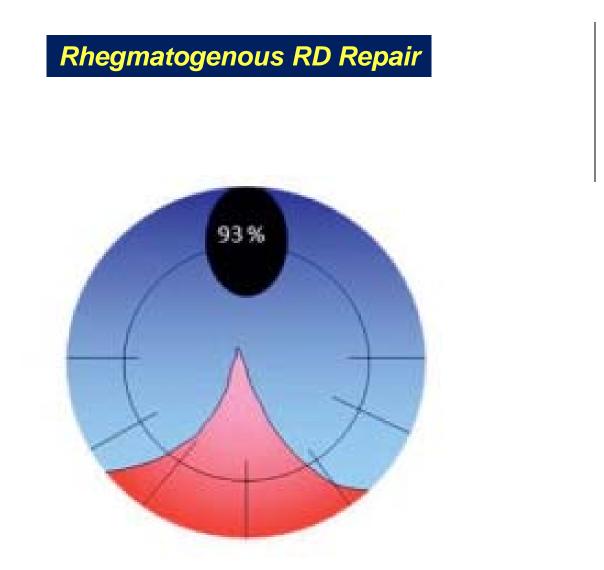
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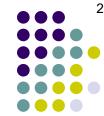
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If the RD is superior and crosses 12 o'clock, where is the break? *Per Linc* It is within 1.5 clock-hours of straight-up 12 o'clock 1) A superior RD that does not cross the TZ o clock mendian 2) A superior RD that does cross the 12 o'clock meridian 3) An inferior RD that is 'typical' in appearance 4) An inferior RD that appears 'bullous'



26

#2: In a superior RD that *does* cross the 12 o'clock meridian, the break is within 1.5 clock-hours of straight-up 12 o'clock



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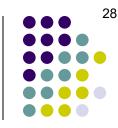
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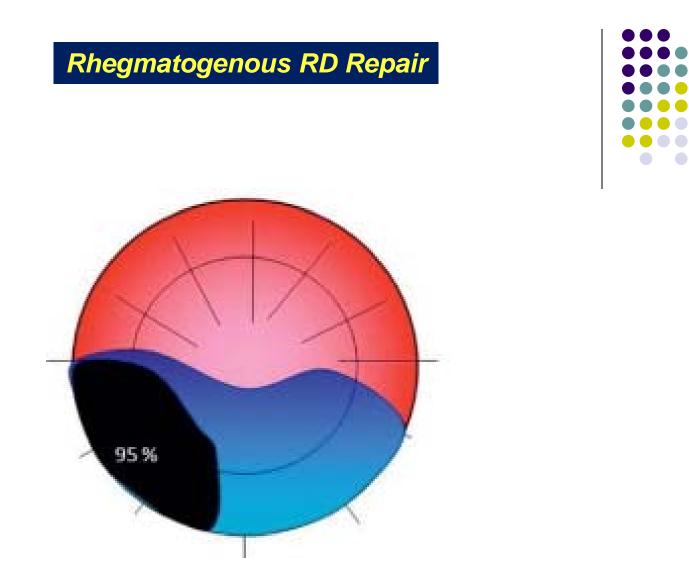
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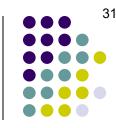
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1) A su It is on whichever side (ie, nasal vs temporal) of the RD is higher
2) A superior RD that does cross the 12 o'clock meridian
3) An inferior RD that is 'typical' in appearance



#3: In an inferior RD that is 'typical' in appearance, the break is on whichever side (ie, nasal vs temporal) of the RD is higher

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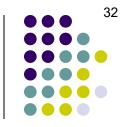
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If the RD is inferior and 'bullous,' where is the break?	<i>tions. What are they?</i> ck meridian heridian
<ul><li>3) An interior RD that is typical in appearance</li><li>4) An inferior RD that appears 'bullous'</li></ul>	

# Δ



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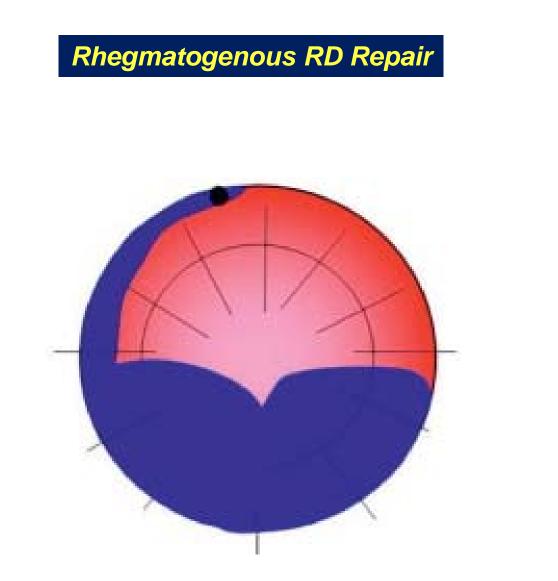
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If the RD is inferior and 'bullous.' where is the break? Counterintuitively, it is **superior**, with the liquid vitreous tracking inferiorly via an occult peripheral retinal sinus 3) An interior KD that is typical in appearance

ons. What are they? ck meridian heridian



## #4: In a bullous inferior RD, the break is superior, with the liquid vitreous tracking inferiorly via a peripheral retinal sinus

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#### **Rules to Find the Primary Break**



#### Rule 1:

Superior temporal or nasal detachments: In 98% the primary break lies within 11/2 clock hours of the highest border.

#### Rule 2:



Total or superior detachments that cross the 12 o'clock meridian: In 93% the primary break is at 12 o'clock or in a triangle, the apex of which is at the ora serrata, and the sides of which extend 1<sup>1</sup>/2 clock hours to either side of 12 o'clock.

#### Rule 3:

Inferior detachments: In 95% the higher side of the detachment indicates on which side of the disc an inferior break lies.

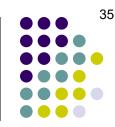
#### Rule 4:

Inferior bullous detachment: Inferior bullae in a rhegmatogenous detachment originate from a superior break.

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#### The Lincoff Rules





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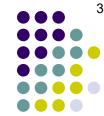
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What are the two main surgical approaches retinal tissue into 3) Bri for inducing the inflammatory response? api

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the break and the subretinal space. Note that accomplishing this requires eliminating any vitreoretinal traction that may be present.

# Δ

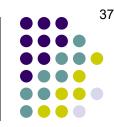


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What are the two main surgical approaches retinal tissue into 3) for inducing the inflammatory response? formation of a --l aser as a barrier between --Transscleral cryotherapy

the break and the subretinal space. Note that accomplishing this requires eliminating any vitreoretinal traction that may be present.



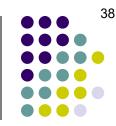
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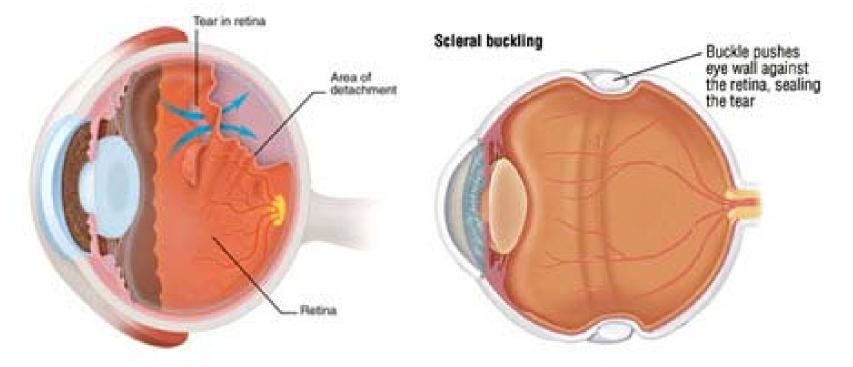
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Are they always oriented parallel to the equator of the globe? No, on occasion the retinal break(s) dictates radial placement

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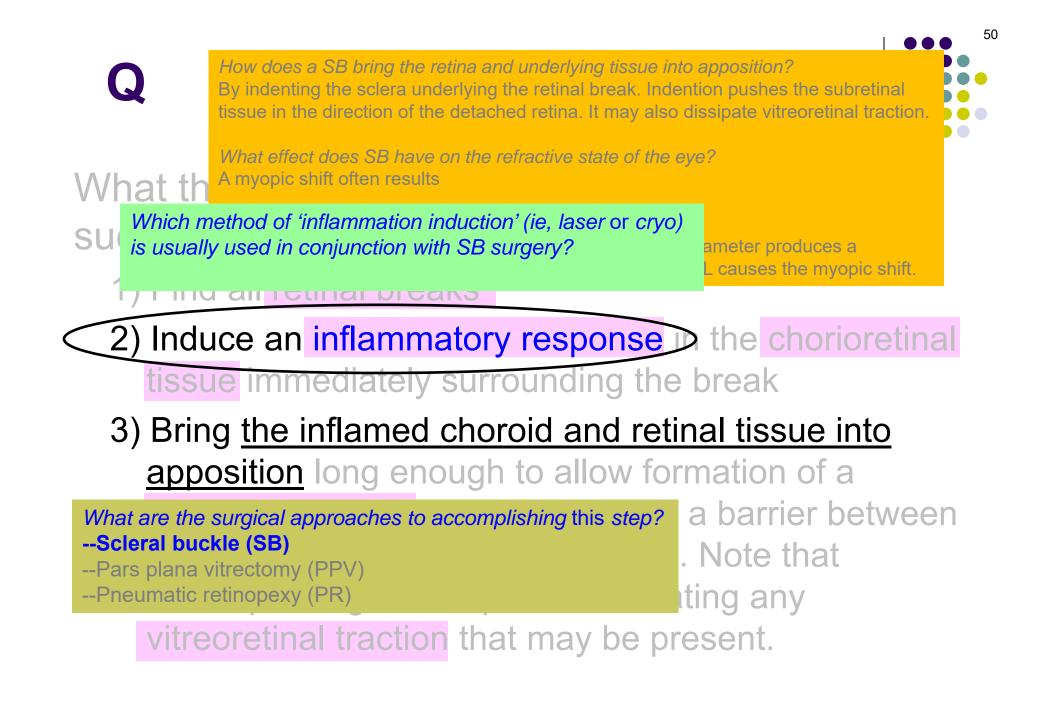
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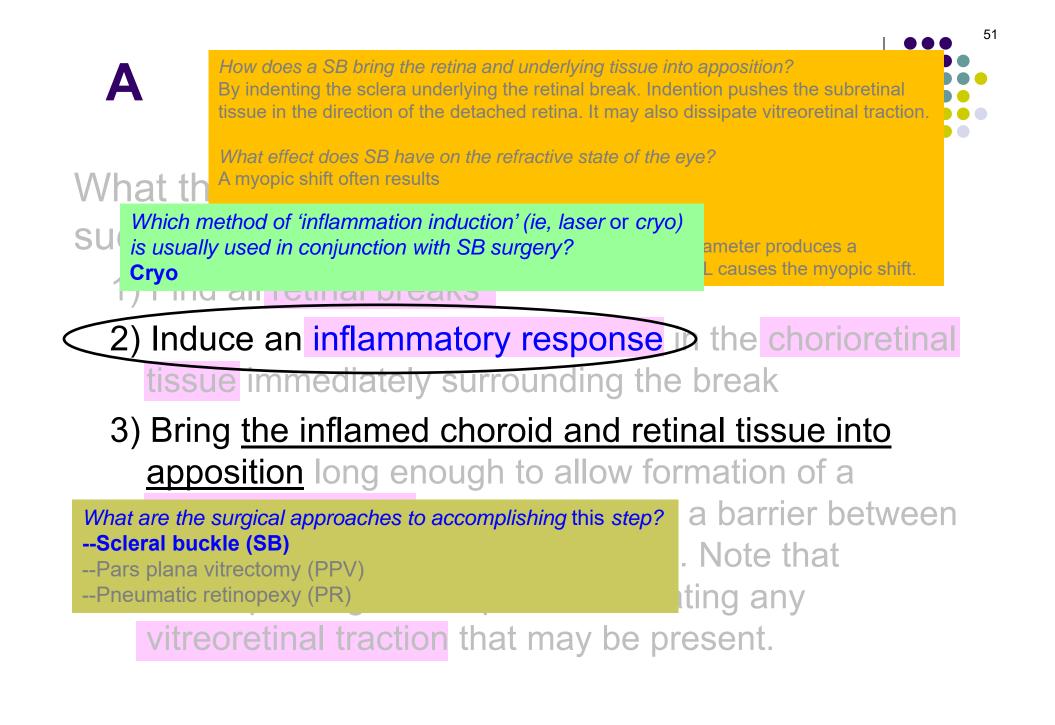
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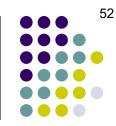
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--Pneum Briefly, how is a PPV performed?



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Briefly, how is a PPV performed?

Three spaced-apart stab incisions are made through the sclera and pars plana portion of the ciliary body. Via these incisions, a light source, irrigation cannula and vitreous cutter are introduced into the vitreous cavity. The cutter is used to remove the vitreous gel.





Rhegmatogenous RD Repair How does a PPV bring the retina and underlying tissue into apposition?

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### Rhegmatogenous RD Repair



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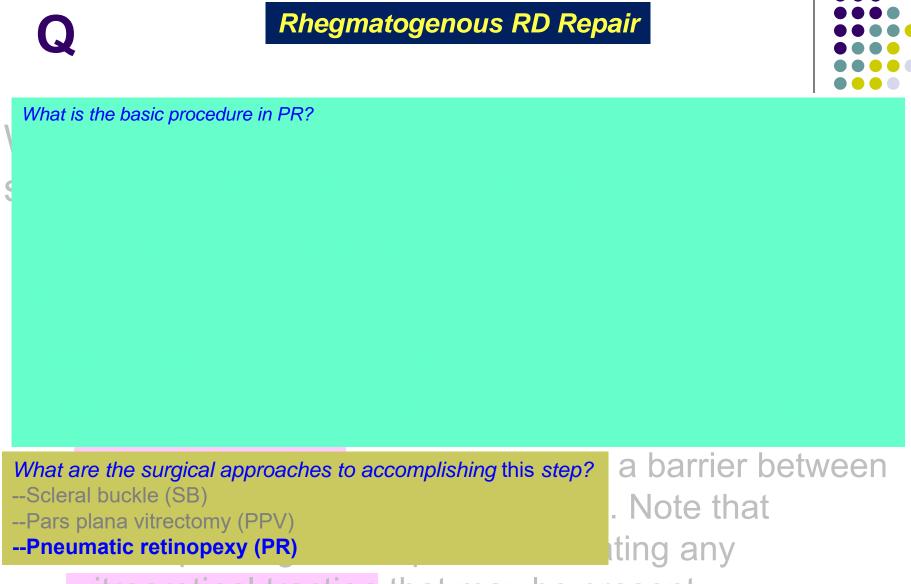
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### Rhegmatogenous RD Repair



### What is the basic procedure in PR?

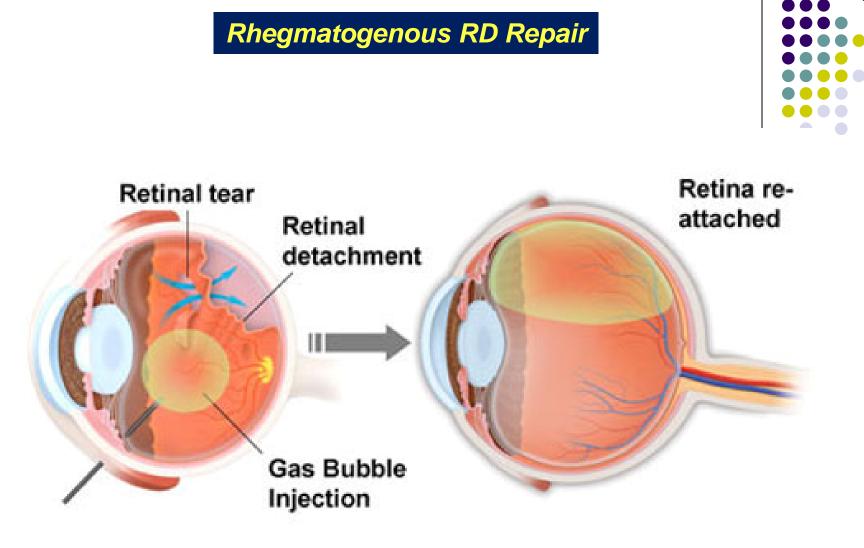
--Pars plana vitrectomy (PPV)

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It is as simple as it is elegant. A gas (air;  $SF_6$ ;  $C_3F_8$ ) is injected into the vitreous cavity. The floating gas bubble pushes against the RD, and in doing so forces the subretinal fluid back out through the break, as well as pushes the retinal-break region into apposition against the underlying tissue. All via a simple office procedure!

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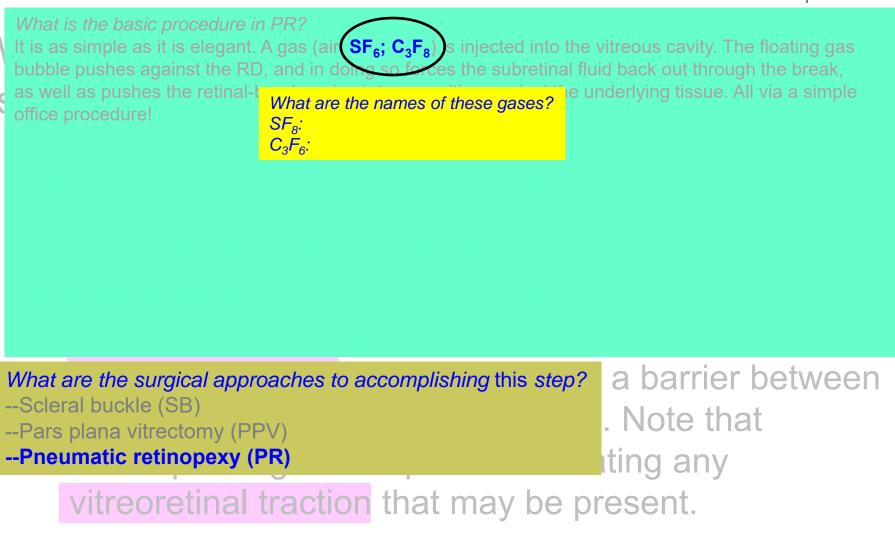


Pneumatic retinopexy

# Q

### Rhegmatogenous RD Repair





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 $C_3 F_6$ : Perfluoropropane

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# Q/A

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-- Vitreoretinal traction status: There must be none, or very little

What are the surgical approaches to accomplishing this step?

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--Location of breaks: The break(s) must be located between 4 and 8 o'clock

-- Vitreoretinal traction status: There must be none, or very little

--*Pt factor*: The patient must be willing and able to maintain the (possibly awkward) head position needed to keep the gas bubble pressing against the retinal break

#### What are the surgical approaches to accomplishing this step?

- --Scleral buckle (SB)
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### Pneumatic retinopexy: Head positioning



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Sounds great! Are all RDs candidates for PR?

Far from it, unfortunately. To qualify for PR, the RD should have the following characteristics:

--Ideally there is only one retinal break. But if more than one are present, they must be few in number, and all must lie within 1-2 clock-hours of each other

The break(s) must be located superiorly (upper 1/3 of retina)

Which method of 'inflammation induction' (ie, laser or cryo) is usually used in conjunction with PR?

ssibly awkward) head position

## apposition long enough to allow formation of a

What are the surgical approaches to accomplishing this step?

- --Scleral buckle (SB)
- --Pars plana vitrectomy (PPV)
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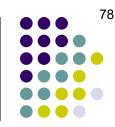
Both are commonly used

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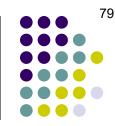


What three things *must* be accomplished to successfully repair a rhegmatogenous RD?

- 1) Find all retinal breaks
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  - ap What's the most common cause of failure in the late post-op period? <sup>a</sup> chemical court, management are a particular between

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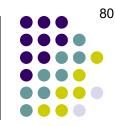
# Q/A



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  - ap What's the most common cause of failure in the late post-op period? A Development of abb.

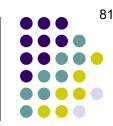
the break and the subretinal space. Note that accomplishing this requires eliminating any vitreoretinal traction that may be present.



What three things *must* be accomplished to successfully repair a rhegmatogenous RD?

- 1) Find all retinal breaks
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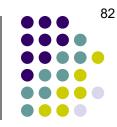
- 1) Find all retinal breaks
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# Α



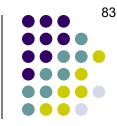
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# Q/A



What three things *must* be accomplished to successfully repair a rhegmatogenous RD?

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Development of PVR

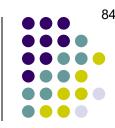
ap What's the most pa

What does PVR stand for in this context? Proliferative vitreoretinopathy

By what mechanism does PVR cause late RD repair failure? It leads to three words

the break and the subretinal space. Note that accomplishing this requires eliminating any vitreoretinal traction that may be present.

# Α



What three things *must* be accomplished to successfully repair a rhegmatogenous RD?

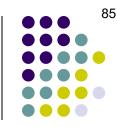
- 1) Find all retinal breaks
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- 3) Bring the inflamed

ap What's the most commo ch Development of **PVR**, What does PVR stand for in this context? Proliferative vitreoretinopathy

*By what mechanism does PVR cause late RD repair failure?* It leads to vitreo-retinal traction

the break and the Subretinal Space. Note that accomplishing this requires eliminating any vitreoretinal traction that may be present.

# Α



What three things *must* be accomplished to successfully repair a rhegmatogenous RD?

- 1) Find all retinal breaks
- 2) Induce an inflammatory response in the chorioretinal tissue immediately surrounding the break
- 3) Bring the inflamed



the break and the

What does PVR stand for in this context? Proliferative vitreoretinopathy

Subictinal Space. IN

*By what mechanism does PVR cause late RD repair failure?* It leads to vitreo-retinal traction—and we're right back where we started.

# accomplishing this requires eliminating any vitreoretinal traction that may be present.