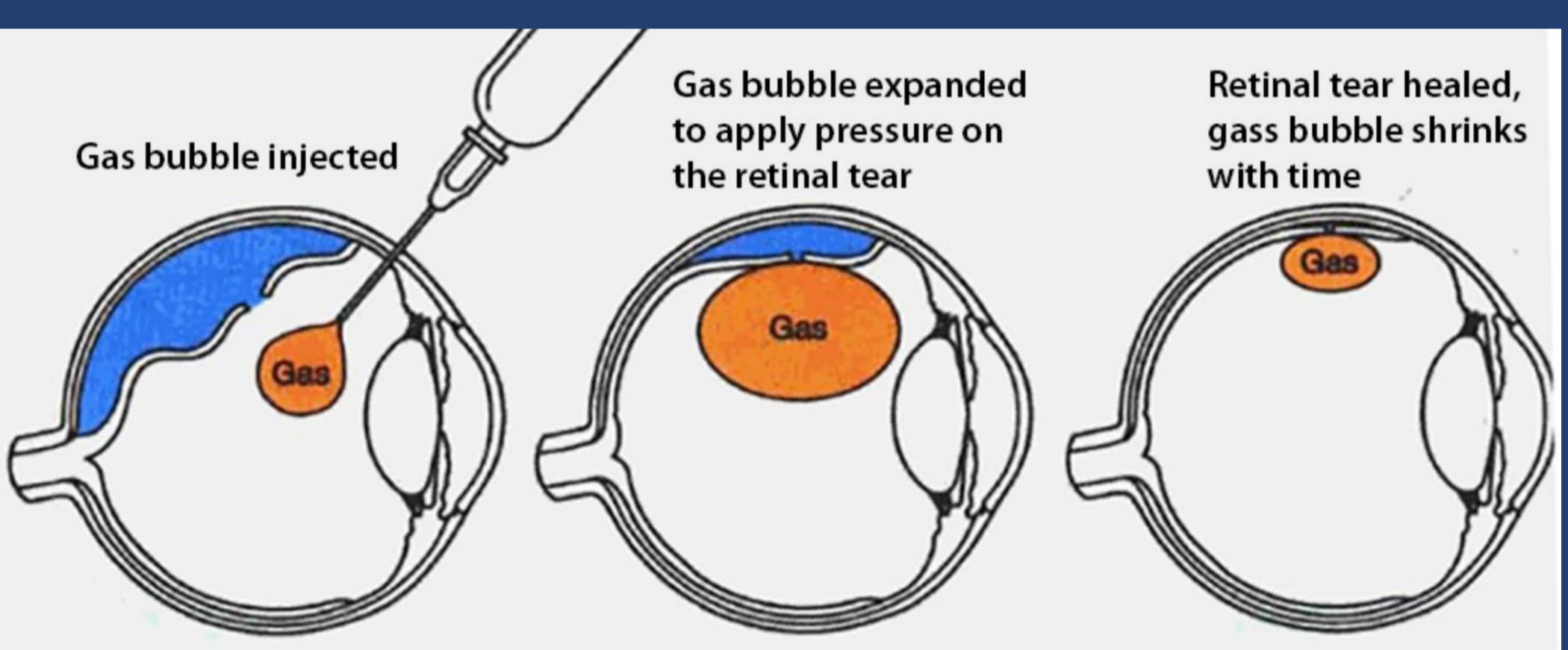
Why Does Pneumatic Retinopexy Have Such Varied Outcomes?



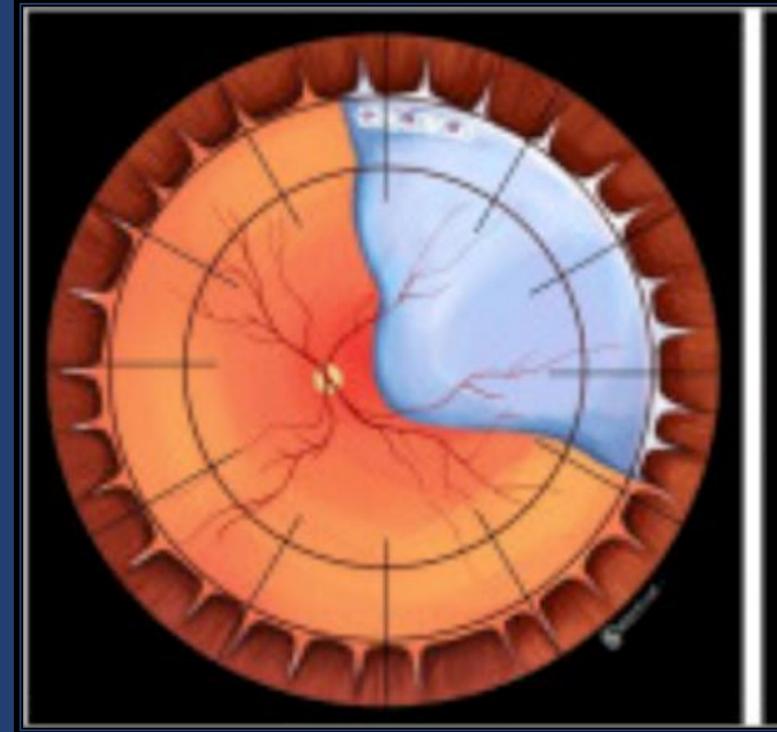
INTRODUCTION

- Pneumatic retinopexy (PR) is used to repair retinal detachments ideally in phakic patients who
 have a single break or multiple smaller breaks in the superior 8 clock hours of the fundus
- The single-procedure success rate of PR is highly variable and has been reported to range between 43.7% and 95.5%, with a mean of 74.4% across all studies²



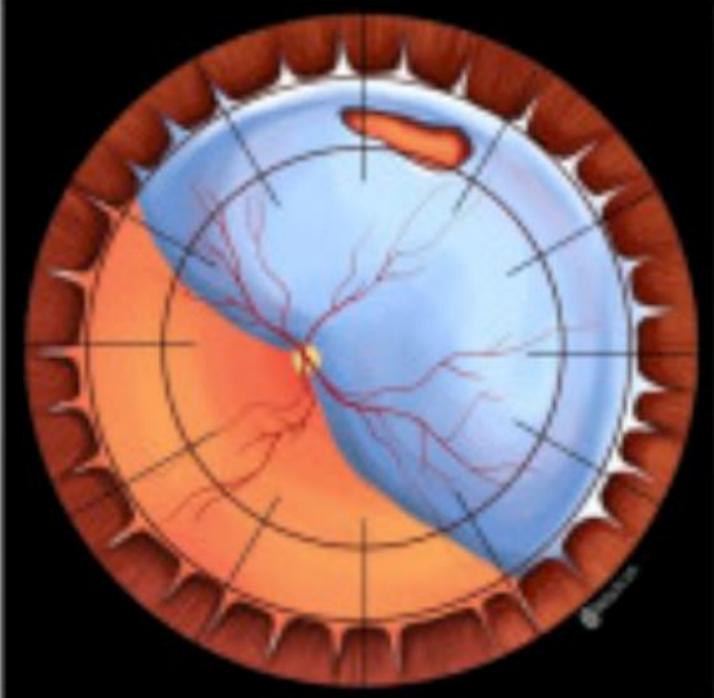
	Study Date, Author	Single Op. Suc. Rate	Secondary Op. Suc. Rate
	2006, Zaidi ⁵	54.1%	66%
	2018, Hiller ¹	80.8%	98.7%
	2015, Cohen ³	59.5%	97.6%
	2002, Kleinmann ⁴	75%	95%

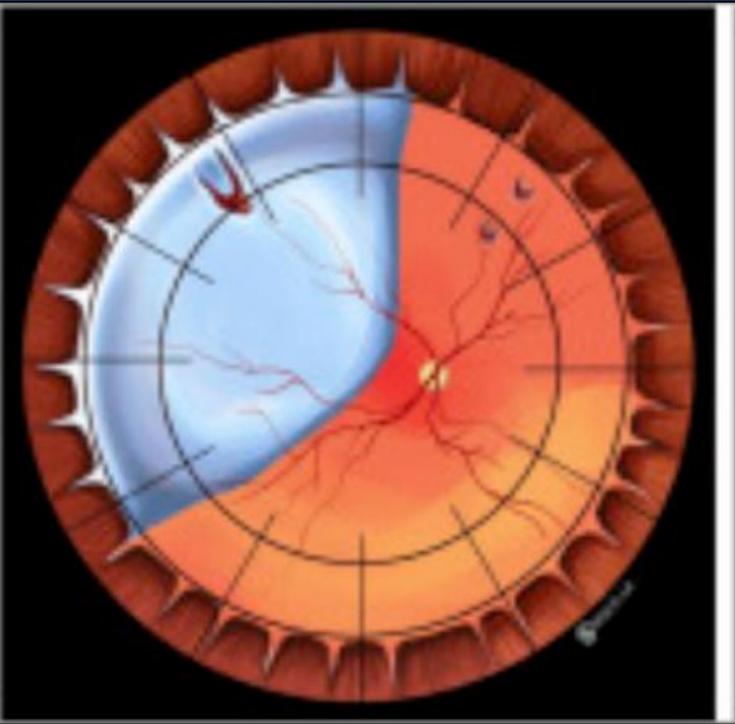
- A previous multi-institutional study showed that success rates between vitreoretinal fellows vaired depending on how many PR procedure had been preformed by that fellow
- This begs the question: Is variable training a culprit in the variable success rates we see?

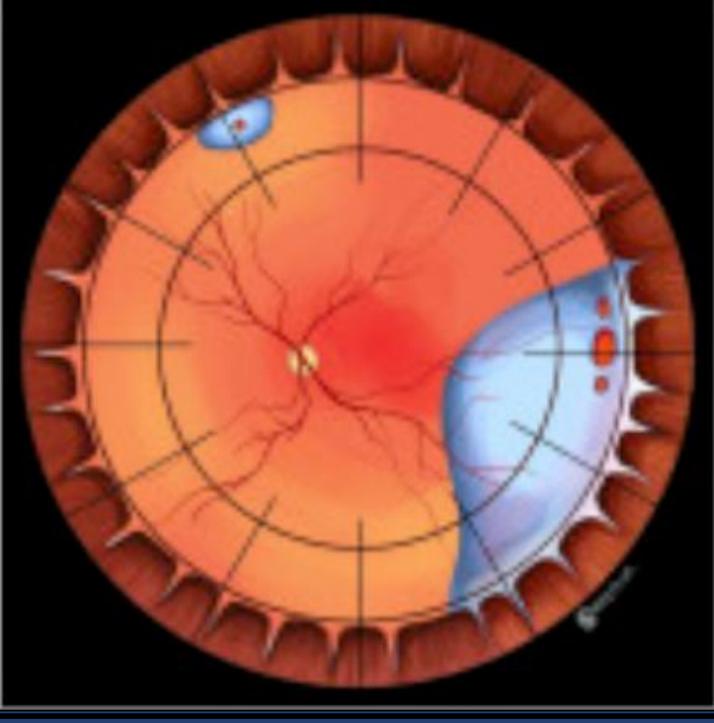


UCDAVIS

HEALTH







Examples of good candidates for pneumatic retinopexy



SCHOOL OF MEDICINE Jordan Larsson, MS2
Parisa Emami- Naeini, MD MPH

Department of Ophthalmology
UC Davis School of Medicine



METHODS

- Through the use of Qualtrics (QR Code above) we are performing a cross-sectional study of the continent's vitreoretinal fellows
- There are roughly 100 vitreoretinal fellowships throughout USA and Canada
- We are gathering geographic data as well as specific information regarding how these fellows are trained to repair retinal detachments:
 - Variety of methods, quantity of surgeries, surgical techniques/preferences, confidence, scenario-based responses, and patient selection
- The short survey takes less than 10 minutes to complete
- Program coordinators were contacted and instructed to forward the survey to their 1st and 2nd year fellows
- After the survey has been available for roughly 5 weeks, the results will be statistically analyzed to better understand the training, practice, and geographical variability of pneumatic retinopexy

DISCUSSION

- Subspecialty fellowships are not regulated by the ACGME, thus there is no widely accepted/approved curriculum
- The results of this study could be used to help with future endeavors to improve and standardize fellowship curriculum and ultimately improve patient outcomes when PR is utilized

REFERENCES

Hillier RJ, Felfeli T, Berger AR, et al. The Pneumatic Retinopexy versus Ophthalmol. 2015;9:2033-2037. Published 2015 Nov 2. Vitrectomy for the Management of Primary Rhegmatogenous Retinal Detachment Outcomes Randomized Trial (PIVOT). Ophthalmology.
 Kleinmann G, Rechtman E, Pollack A, Schechtman E, Retinopexy: Results in Eyes With Classic vs Relative Indiana.

2. Chan CK, Lin SG, Nuthi AS, Salib DM. Pneumatic retinopexy for the repair of retinal detachments: a comprehensive review (1986-2007). Surv Ophthalmol. 2008;53(5):443-478. doi:10.1016/j.survophthal.2008.06.008

- 3. Cohen E, Zerach A, Mimouni M, Barak A. Reassessment of pneumatic retinopexy for primary treatment of rhegmatogenous retinal detachment. Clin Ophthalmol. 2015;9:2033-2037. Published 2015 Nov 2. doi:10.2147/OPTH.S91486
- 4. Kleinmann G, Rechtman E, Pollack A, Schechtman E, Bukelma A. Pneumatic Retinopexy: Results in Eyes With Classic vs Relative Indications. Arch Ophthalmol. 2002;120(11):1455–1459. doi:10.1001/archopht.120.11.1455 5. Zaidi AA, Alvarado R, Irvine A. Pneumatic retinopexy: success rate and complications. Br J Ophthalmol. 2006;90(4):427-428. doi:10.1136/bjo.2005.075515