Management of Posterior Capsule Rupture

BY

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Financial Disclosure

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Complications encountered in cataract surgery across all levels of surgical

experience and in spite of technological advances to improve safety.

ARTICLE

Risk factors for posterior capsule rupture in cataract surgery as reflected in the **European Registry of Quality Outcomes for Cataract and Refractive Surgery**

Maartje H.M. Segers, MD, Anders Behndig, MD, PhD, Frank J.H.M. van den Biggelaar, PhD, Lucia Brocato, MSc, Ype P. Henry, MD, FEBO, Rudy M.M.A. Nuijts, MD, PhD, Paul Rosen, MD, FRCS, FRCOphth, MBA, Marie-José Tassignon, MD, PhD, FEBO, David Young, PhD, Ulf Stenevi, MD, PhD, Mats Lundström, MD, PhD,

Transformation b

Parameter	Year										
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Reported cataract extractions including PCR (n)	165 650	201 377	227 181	249458	260 805	280 906	300 145	261 740	282246	305 846	318022
Reported PCR (n)	2387	2725	2708	3976	2896	4181	4958	1969	2025	2007	1917
Frequency (%)	1.44	1.35	1.19	1.59	1.11	1.49 ^a	1.65 ^a	0.75	0.72	0.66	0.60

		95% CI		
Parameter	Adjusted OR	Lower	Upper	F
Year of surgery*				
2009	2.12	1.95	2.31	×
			0.000	
2017	0.99	0.90	1.08	2
2018	-	-		
Sex (F)	0.88	0.85	0.90	~
Age	1.007	1.005	1.008	<
Glaucoma	1.16	1.09	1.23	<
Diabetic retinopathy	2.74	2.59	2.90	<
Other comorbidity	3.03	2.91	3.16	<
Preoperative CDVA (logMAR)	1.98	1.98	2.07	<
	1770425	Children and Child	200200 CON	



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Rates of PCR vary from 0.45 to 5.2% in large studies **

Cataract surgeons must always be prepared to practice safe and effective intraoperative management strategies for capsular rupture

Complications of PCR



- Elevated eye pressure,
- Retained lens fragments (RLFs)
- Cystoid macular edema
- Intraocular inflammation or hemorrhage
- Vitreous prolapse or traction
- Retinal detachment
- Endophthalmitis

Furthermore, the additional office visits, financial burden, and postoperative care required to treat these complications can be daunting



Aim of Management

- -Maintain capsule and zonular integrity.
- -Protect the corneal endothelium.
- -Stabilize residual lens materials.
- -Prevent and manage vitreous prolapse & traction.
- -Complete nuclear and cortical removal.
- -Appropiate IOL implantation if possible.













Dr.Hatem Ammar 0 Cut 800









Take Home Message







Never runaway



Take Home Message

- Never Panic
- Never runaway
- Maintain formed AC
- Disperseve OVD
- Safety first



THANK YOU







