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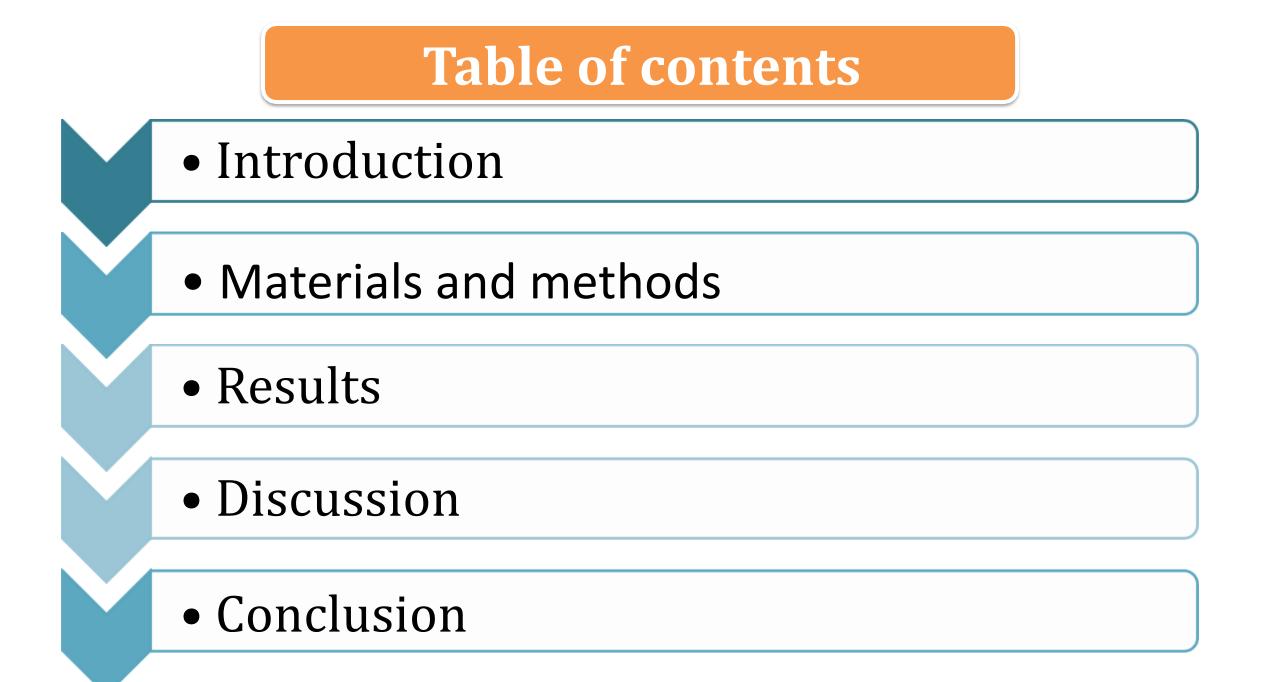
FACULTÉ DE MÉDECINE ET DE PHARMACIE UNIVERSITÉ HASSAN II DE CASABLANCA



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No relevant conflicts of interest to declare

10TH EVOLVING PRACTICE OF OPHTHALMOLOGY MIDDLE EAST CONFERENCE





Introduction

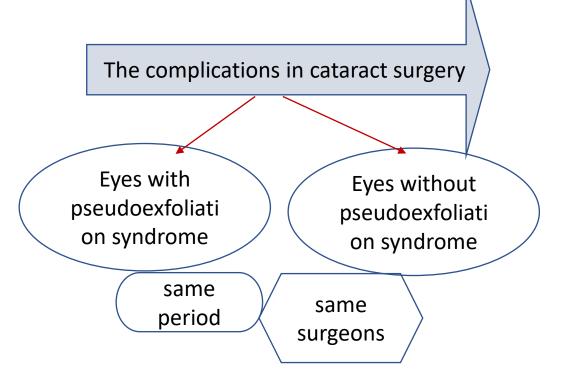


- Pseudoexfoliation ou PXF : an age-related systemic disorder of unknown etiology
- the production and abnormal deposition of fibrillar material in the anterior segment
- Diagnosis is clinical, with a typical cocoon-like appearance of exfoliative material deposited on the lens capsule
- Prevalence increases with age
- PXE represents an obstacle for surgeons during cataract surgery because of increase the risk of intraoperative and postoperative complications due to weakness of the zonules and poor pupillary dilation.



Aim of the study

The clinical features of pseudoexfoliation syndrome syndrome (PES) in Moroccan patients with age-related cataract scheduled for surgery





Materials and Methods

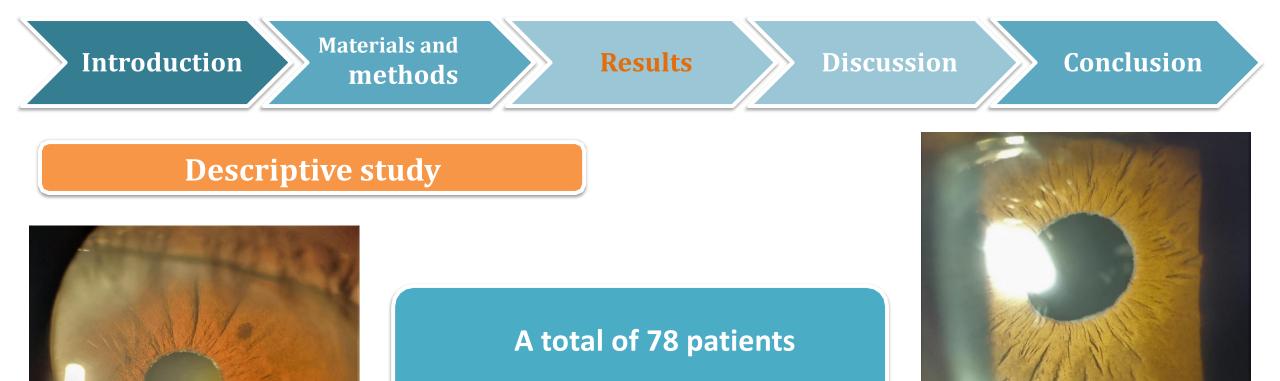


- **Study design :** A cross-sectional, comparative and multicenter study.
- **Study time period :** From January 2023 to June 2023.
- **Study locations :** The Ophthalmology Department of the Ibn Rochd University Hospital of Casablanca, Morocco.
- **Study population:** 39 eyes with pseudoexfoliation syndrom operated on for cataract.
- **Data collection :** Patient medical records and a pre-established evaluation sheet.
- **Data analysis :** -**Programs** : Microsoft Excel[™] 2019 and IBM SPSS 20.

-Statistical significance : A P value less than 0.05 with 95% confidence interval.



Results



39 eyes with pseudoexfoliation

39 eyes without pseudoexfoliation



I. Study population characteristics :

Age	PXF	Control
51-60	7 (17,9%)	12 (30,8%)
61-70	15 (38,5%)	15 (38,5%)
71-80	12 (30,8%)	11 (28,2%)
81 and above	5 (12,8)	1 (2,6%)

Age and number of eyes with and without pseudoexfoliation (PXF)

The age group between 61 and 70 years, was the most affected (38,5%) in both groups



II. Clinical data

	PXF	Control
Number of eyes	39	39
Unilaterality	10 (25,6%)	-
Bilaterality	29 (74,4%)	-
Poor dilaration	12 (30,8%)	-
Associated HTO	2 (2,5%)	-
Associated HTA	10 (25,6%)	10 (25,6%)

■ Good ■ Not bad ■ Poor Control 14% 10% 31% PXF 59% 86%

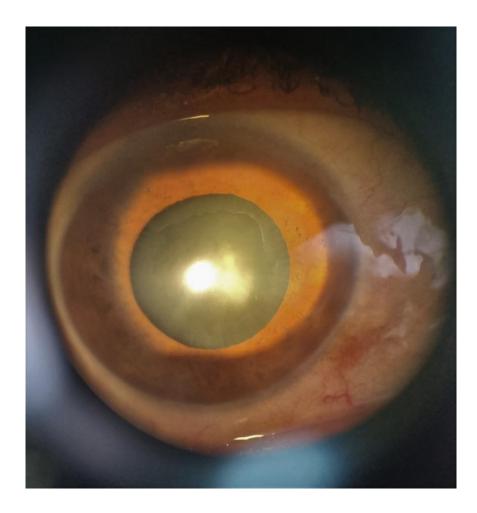
Pupillary dilatation



II. Clinical data

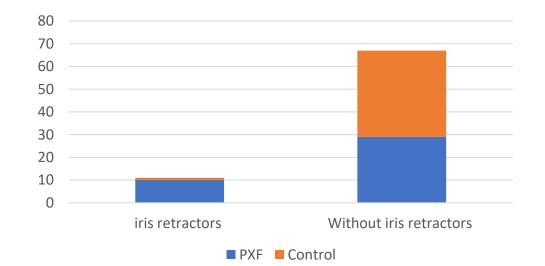
Cataract type	PXF n(%)	Control
Nuclear	4 (10,3%)	3 (10,3%)
Cortical	1 (2,6%)	1 (2,6%)
Cortico-nuclear	11 (28,2%)	5 (12,8%)
Posterior subcapsular	2 (5,1%)	2 (5,1%)
CN + posterior subcapsular	19 (48,7%)	27 (69,2%)
Mature	2 (5,1%)	1 (2,6%)

Type of cataract and number of eyes with and without pseudoexfoliation

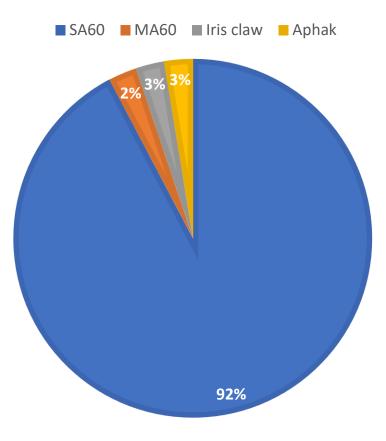




III. Preoperative difficulties

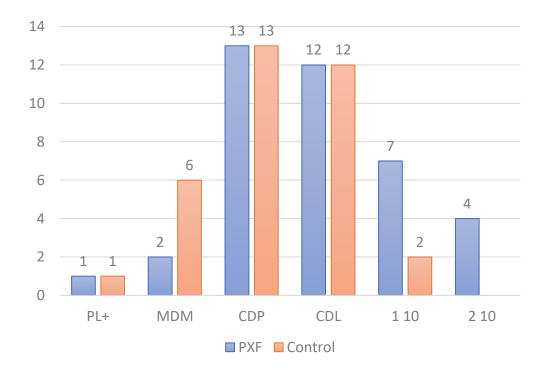


Surgical complications	PXF	Control
Rhexis extension	1 (2,5%)	2 (5,1%)
Zonular dehisence	3 (7,6 %)	-
Posterior capsularrupture	2 (5,1%)	1 (2,6%)

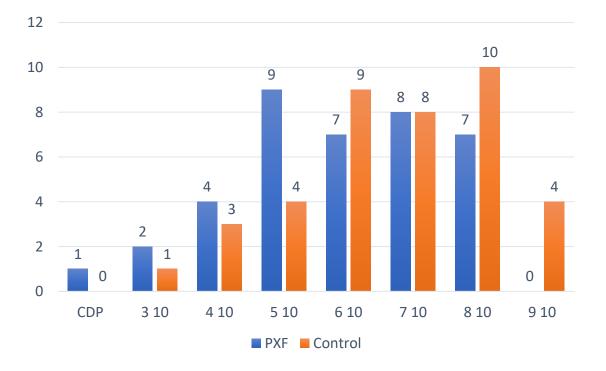




IV. Visual acuity evolution







Postoperative visual acuity



Discussion



Frequency and surgical difficulties associated with pseudoexfoliation syndrome among Indian rural population scheduled for cataract surgery: Hospital-based data

- PEC syndrome is an age-related disorder
- The prevalence increases significantly 60 years of age
- In our study, the age group between 61 and 70 years, was the most affected (38,5%)
- Similar observations were noted by Al-Shaer *et al.* in Yemen, wherein 10.1% patients between 41 and 50 years old and 28.8% >81 years old had the syndrome, as well as in other studies from North Nigeria, Riyadh (Saudi Arabia), South India, Turkey, and Ethiopia.

Table 1: Age and number of eyes with pseudoexfoliation

Age (years)	Number of eyes with PXF <i>n</i> =226 (%)
51-60	10 (4.42)
61-70	60 (26.5)
71-80	75 (33.2)
81 and above	81 (35.8)

As the age increases eyes with PXF increases

61-70	15 (38,5%)
71-80	12 (30,8%)

Authors	Bilaterality	Unilaterality
R.KARAMI and al (Morocco)	17 (80%)	4 (20%)
Joshi RS (India)	86 (38,1%)	70 (30,9%)
Gelaw and Tibebu	96 (66.7%)	48 (33.3%)
M. Streho and al (France)	38 %	61 %
Our study	29 (74,4%)	10 (25,6%)

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in 70 eyes (31%). In the study by Gelaw and Tibebu, 48 patients (33.3%) had unilateral involvement, whereas 96 patients (66.7%) had bilateral involvement.^[38] Most studies have reported bilateral involvement more than unilateral involvement, as the unilateral disease is expected to progress to bilateral condition.^[20,32,33,37] Another possible explanation

térale (20%). Selon l'étude de Puska et al. [11], il s'agit d'une atteinte bilatérale, mais de présentation asymétrique avec un long délai entre les deux yeux : 38 % de bi latéralisation à 10 ans. Dans les formes unilatérales, l'œil avec une



Authors	Poor dilatation	Iris retractors
R.KARAMI and al (Morocco)	5 (23%)	1 (4,75%)
Joshi RS (India)	32 (14.2%)	12 (5,3%) at the begining 5 (2,2%) during nucleos aspiration
Philip and al	96.7%	-
M. Streho and al (France)	-	2 (5,4 %)
Our study	12 (30,8%)	10 (25,6%)



Le syndrome de pseudo-exfoliation capsulaire dans la chirurgie de la cataracte. Étude rétrospective de 37 cas

M. Streho, C. Rohart, B. Guigui, F. Fajnkuchen, G. Chaine

cataracte observés dans le groupe PEC était : corticonucléaire (40 %), blanche (24 %), sous-capsulaire (20 %) et nucléaire (16 %). Pour le groupe témoin, la

CN + posterior subcapsular 19 (48,7%)

Table 4: Type of cataract and number of eyes with pseudoexfoliation

Type of cataract	Number of eyes with PXF (%)
Hypermature	98 (43.4)
Mature	50 (22.1)
Nuclear	26 (11.5)
Cortical	25 (11.1)
Posterior subcapsular	20 (8.9)
Posterior polar	07 (3.1)
Total	226

Hypermature cataract was common

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Authors	Surgical complications (PXF group)	Surgical complications (Control group)
R.KARAMI and al (Morocco)	15%	1%
Hyams and al	5,8%	4%
Joshi RS (India)	27.4%	-
Naik and Gadewar	26%	-
M. Streho and al (France)	5,4 %	5,4 %
Our study	15,2 %	7,7%

Table 5: Surgical difficulties in eyes with psudoexfoliation		
Surgical difficulties	Number of eyes (%)	
Poor pupillary dilatation	32 (14.2)	
Pupillary catch	01 (0.4)	
Rhexis extension	02 (0.9)	
Zonular dehiscence	18 (8)	
Posterior capsular rupture	03 (1.3)	
Conversion to small incision cataract surgery	05 (2.2)	
Total	62 (27.4)	
Poor pupillany dilatation was common problem follow	and by zopular debiecence	

Poor pupillary dilatation was common problem followed by zonular dehiscence

However, Shastri and Vasavada have reported that intraoperative performance of cataract surgery in PXF eyes is comparable to that in non-PXF eyes.^[50] In our study, intraoperative



Conclusion



- Pseudoexfoliation syndrom is a common condition among patients scheduled for cataract surgery.
- Pseudoexfoliation syndrom Age and small pupils
- Zonular weakness and small pupils were common intraoperative difficulties.
- Capsular tension ring and iris retractors !!!