STANDARD TREATMENT WORKFLOW (STW)

Cataract

Radhika Tandon¹, Prashant Garg², Haripriya³, M Vanathi⁴, Manisha Acharya Shroff⁵, Noopur Gupta⁶, Pradeep Venkatesh⁷, Sangeeta Abrol⁸, Sushmita Kaushik⁹

¹All India Institute of Medical Sciences, New Delhi; ²LV Prasad Eye Institute, Hyderabad; ³Aravind Eye Hospital, Chennai; ⁴All India Institute of Medical Sciences, New Delhi; ⁵Dr. Shroff's Charity Eye Hospital, New Delhi; ⁶All India Institute of Medical Sciences, New Delhi; ⁸Vardhman Mahavir Medical College, New Delhi; ⁹Global Center for Evidence Synthesis, Postgraduate Institute of Medical Education and Research, Chandigarh

CORRESPONDING AUTHOR

Radhika Tandon, Department of Ophthalmology, All India Institute of Medical Sciences, New Delhi Email: sudeep.gupta@actrec.gov.in

CITATION

Tandon R, Garg P, Haripriya, Vanathi M, Shroff MA, Gupta N, Venkatesh P, Abrol S, Kaushik S. Cataract. Journal of the Epidemiology Foundation of India. 2024;2(1Suppl):S133-S134.

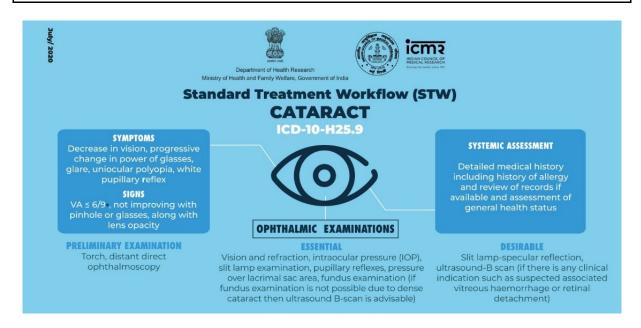
DOI: https://doi.org/10.56450/JEFI.2024.v2i1Suppl.067

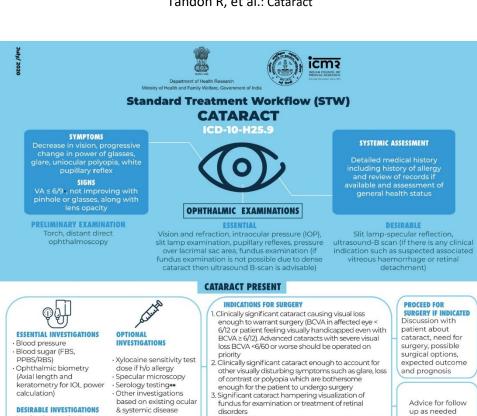
This work is licensed under a Creative Commons Attribution 4.0 International License.

©The Author(s). 2024 Open Access

DISCLAIMER

This article/STW, was originally published by Indian Council of Medical Research (ICMR) under Standard Treatment Workflow. The reprinting of this article in Journal of the Epidemiology Foundation of India (JEFI) is done with the permission of ICMR. The content of this article is presented as it was published, with no modifications or alterations. The views and opinions expressed in the article are those of the authors and do not necessarily reflect the official policy or position of JEFI or its editorial board. This initiative of JEFI to reprint STW is to disseminate these workflows among Health Care Professionals for wider adoption and quiding path for Patient Care.





disorders

CATARACT WITH **CO-MORBIDITY**

DESIRABLE INVESTIGATIONS

Lacrimal sac syringing

FCG

CATARACT WITH OCULAR COMORBIDITY

- Explain implications of associated corneal opacity/glaucoma/uveitis/ retinal disease/optic nerve disease/ amblyopia/squint/uncontrolled systemic disease
- Prioritize care according to the severity of the disease and need for treatment

INDICATIONS FOR URGENT REFERRAL:

Refer to specialist for consultation/ opinion/management and follow up

CATARACT WITH SYSTEMIC COMORBIDITY

Cataract with narrow angle glaucoma where cataract surgery is required to improve control of IOP

- CATARACT WITH SYSTEMIC COMORBIDITY

 Medicine specialist referral essential:
 Ischaemic heart disease (with request for
 monitored anaesthetic care and decisior
 on withholding
 anticoagulant/fibrinolytics)
 Establic and liseasure.
- Systemic malignancy
 Medicine specialist referral desirable:
- Hypertension
- · Diabetes mellitus Chronic renal disease
- · Collagen vascular diseases · Thyroid disease

CATARACT ABSENT LOOK FOR OTHER CAUSES OF VISIO

up as needed

- REFER AS NECESSARY Corneal pathology
- Optic nerve disease · Amblyopia

- PHC/PRIMARY LEVEL
 Detailed examination
 Refraction for BCVA

- Nefraction for BCVA
 Preliminary diagnosis

 Referral to Ophthalmologist if BCVA, vision with pinhole ≤ 6/12
 Postoperative follow up and compliance

 Timely referral in case of drop in vision or development of fresh symptoms after last follow up visit for post-operative complications such as PCO(VAO)/CME/Corneal decompensation/faised intraocular pressure/ uveitis/ displaced IOL/delayed endopthalmitis/ scleritis/ wound dehiscence etc.

 STOODARY LEVEL
 Cataract surgery
 Diagnose, manage or refer comorbidities such as Glaucoma, Diabetic Retinopathy, Corneal opacity, etc.
 Postoperative follow up, refraction and ensure compliance
 Manage PCO(VAO)/other complications or refer
 TEXTLARY LEVEL
 Cataract surgery
 Diagnose and manage comorbidities such as Glaucoma, Diabetic
 Detaposity Corneal combined to the complication of the property of the complex complication.

MANAGEMENT

- Diagnose and manage comorbidities such as Glaucoma, Diabetic Retinopathy, Corneal opacity, etc. Postoperative follow up, refraction and ensure compliance Manage PCO/VAO/other complications

FITNESS FOR SURGERY

PRE-OPERATIVE PREPARATION Topical broad spectrum antibiotics, OID for 1-3 days advisable

Surgery to be performed in sterile OT following strict aseptic procedures and universal precautions.

SURGICAL PREPARATION Periocular cleaning with 10% povidone iodine followed by instillation of 5% povidone iodine in conjunctival sac, rinse after 3 minutes, sterile surgical eye drape to be used

SURGICAL OPTIONS

- SURGICAL OPTIONS

 1. Small Incison Cataract Surgery (SICS) with PMMA IOL.

 2. Phacoemulsification (Phaco) with Indian foldable IOL (as per expertise, feasibility and availability)

 3. Phaco with imported or premium foldable IOL (wherever indicated, as per expertise, availability and feasibility)

 4. ECCE (large incision) with PMMA IOL

QUALITY ASSESSMENT PARAMETERS TO BE RECORDED

- ost operative visit date (2 4 weeks post op visit), refractive status ause of BCVA \leq 6/12 sitive indicator :BCVA \geq 6/9 at 2-4 weeks or regains full visual potential

- Topical broad spectrum antibiotics, QID for 1-2 weeks or longer if required
 Topical steroids 4-6 times per day for 2 Weeks then taper over 2-4 weeks
- Follow up: 1 day, 1-2 weeks (optional) & 2-4 weeks after cataract surgery
 Prescription of glasses at 2-4 weeks after cataract
- Refer to higher centre in case of adverse event
- * If vision does not improve with refraction, a clinical assessment must be made to assess if this is purely due to cataract, or ocular co-morbidity such as corneal pathology, glaucoma, retinal disease, optic nerve pathology or amblyopia. A decision must be taken based on history and clinical features and further referred to higher centre if necessary.

 Any patent with catanact and BCVA × 6/12 in better eye qualifies is visually impaired and should be offered surgery.

 Any patent with catanact and BCVA × 6/12 may also be offered surgery depending on symptoms and visual needs.

 Any patent with catanact and BCVA × 6/12 may also be offered surgery depending on symptoms and visual needs.

 Any patent with catanact and BCVA × 6/12 may also be offered surgery depending on symptoms and visual needs.

 Any patent with catanact and BCVA × 6/12 may also be offered surgery depending on symptoms and visual needs.

 Any patent surgery depending on the surgery depending on symptoms and visual needs.

 Any patent surgery depending on the surgery depending on symptoms and visual needs.

 Any patent surgery due to the surgery depending on symptoms and visual needs.

 Any patent surgery due to the surgery depending on symptoms and visual needs.

 Any patent surgery due to the surgery depending on symptoms and visual needs.

 Any patent surgery due to the surgery depending on symptoms and visual needs.

 Any patent surgery due to the surgery depending on symptoms and visual needs.

 Any patent surgery due to the surgery depending on symptoms and visual needs.

 Any patent surgery due to the surgery depending on symptoms and visual needs.

 Any patent surgery due to the surgery due to the

ABBREVIATIONS

BCVA: Best corrected vbisual acuity CME: Cystoid macular edema ECCE: Extra capsular cataract extraction FBS: Fasting blood sugar

IOL: Intraocular lens
IOP: Intraocular pressure
PCO: Posterior capsular opacification
PMMA: Polymethyl methacrylate

PPBS: Post prandial blood sugar RBS: Random blood sugar SICS: Small incision cataract surgery VAO: Visual axis opacification

★ KEEP A HIGH THRESHOLD FOR INVASIVE PROCEDURES

ene unbest on expert opinions and available scientific evidence. There may be variations in the management of an individual patient based on his/her specific condition, as decided by the treating physician. There will be no indemnity for direct or indirect consequences. Kindly visit the website of DHR for more information: (stw.lemr.org.in) for more information.

©Department of Health Research, Ministry of Health & Family Welfare, Covernment of India.

© 2024 JEFI **S134**