

Disease: Macular degeneration

Pertinent Common Signs and Symptoms

- lack of depth perception
- objects appear distorted
- blurred vision
- loss of central vision
- blindness

Pertinent Physical Exam Findings/Risk Factors

- smoking
- hyperkalemia
- female gender
- short body stature
- family history
- diet lacking carotene + vitamin E

Student Name: Shannon O'Malley

Pertinent Nursing Interventions

- ensure patient is taking antioxidants
- low fat diet
- educate on importance of no smoking
- use of sunglasses

Disease and Brief pathophysiology

macular degeneration is the central loss of vision that affects the macula of the eye. The retinal pigmented epithelium is an active layer of cells that support the retinal function. They are normally recycle the cell materials of the cells age they are unable to recycle the cellular debris.

Labs

FLUORESCIN ANGIOGRAPHY

Diagnostic Procedures

- ophthalmoscopy and visual acuity tests
- sweller + rosenbaum charts
- prs will see black spots in their central line of vision

Pertinent Medications

- arastin
- lucenris
- eyeca

Client Education/Health Promotion

- consume foods w/ antioxidants, B12, vit. E
- vision will decrease over time and make day to day activities more challenging

Potential Problems

if condition is not treated, it can lead to total blindness.

Disease: GLAUCOMA

Student Name: SHAMON GUILLEY

Pertinent Common Signs and Symptoms

Primary open angle -
- headache, middle eye pain, loss of peripheral vision, halos, and elevated IOP
- primary angle-closure -
- rapid onset of IOP, blurred vision, colored halos, pupils nonreactive, pain, nausea, and photophobia

Pertinent Physical Exam Findings/Risk Factors

- age
- infection
- tumor
- diabetes mellitus
- genetic predisposition
- hypermetropia
- eye trauma

Pertinent Nursing Interventions

- monitor for increased IOP.
- monitor for decreased vision + light sensitivity
- assess for discomfort
- treat pain with analgesics

Disease and Brief pathophysiology

glaucoma is a disturbance of the functional or structural integrity of the optic nerve. decreased fluid drainage or increased fluid secretion increases intraocular pressure can cause atrophic changes of the optic nerve + visual defects

Client Education/Health Promotion

- annual eye exams
- wear sunglasses
- signs + symptoms of glaucoma

Labs

tonometry which measures IOP, which can be elevated in glaucoma patients expected range: 21mm/Hg

Diagnostic Procedures

- visual assessments
- tonometry
- gonioscopy

Pertinent Medications

- pilocarpine (parasympathetic agonist)
- beta blockers (timolol)
- carbonic anhydrase inhibitors
- IV mannitol

Potential Problems

Blindness if glaucoma is untreated.

Disease: CATARACTS

Student Name: SHANMUGA CHANDLER

Pertinent Common Signs and Symptoms

- Blurry vision
- cloudiness in the lens
- halos around bright objects

Pertinent Physical Exam Findings/Risk Factors

- advanced age
- diabetes
- heredity
- smoking
- eye trauma
- excessive exposure to sun
- chronic corticosteroid use

Pertinent Nursing Interventions

- preventing inaccurate
- preventing infection
- administering ophthalmic medication
- pain relief
- client education

Client Education/Health Promotion

- wear sunglasses
- wear protective eye-wear while playing sports + hazardous activities
- encourage annual eye exams + good eye health

Labs

only needed before surgery to determine and rule out any coexisting conditions

Diagnostic Procedures

cataracts can be determined upon examination of the lens using an ophthalmoscope. visual acuity tests using the snellen + Rosenbaum eye charts

due to aged the lenses in the eyes develop excessive lens of the epithelium. The cells are unable to regenerate or new cells form. The lens becomes opaque and impairs vision.

Pertinent Medications

anticholinergic agents to prevent pupil constriction for prolonged periods of time.

Potential Problems

infection after surgery resulting in yellow or green discharge, pain or redness, redness in visual acuity, and photophobia. Bleeding is a potential risk several days following surgery.