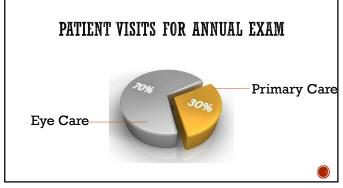
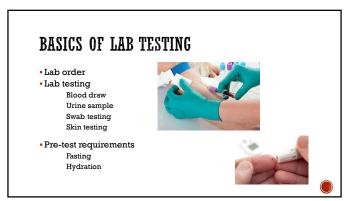


"The eyes are the window to your soul" -William Shakespeare-

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3

BASICS OF LAB REPORTING

- Time sample collected
- Time sample analyzed
- Requesting physician
- Reference ranges and normative values based on population
- Abnormal flags

Sample Report

Differer (abonative greater) and can are greatly in appearance and in the order and sold of information included. This is gain exemple of the order and in the order and sold of information included. This is gain exemple of the order and in the order and sold of information included. This is gain exemple of the order and included in the order and sold of information included. This is gain exemple of the order and included in the order and included included in the orde

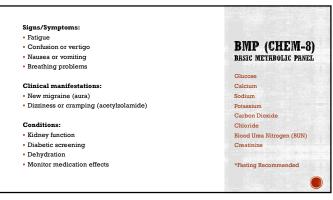
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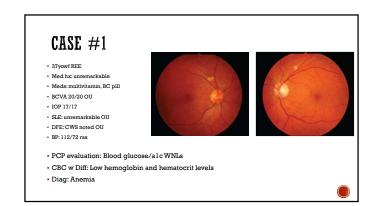
5

TYPES OF LAB TESTING BE FAMILIAR WITH THE MOST COMMON TYPES

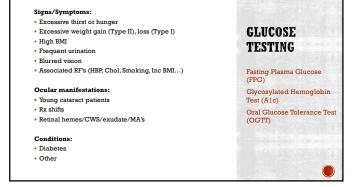
Signs/Symptoms: CBC W DIFF General health screening COMPLETE BLOOD COUNT WITH DIFFERENTIAL • Weakness, fatigue, bruising or bleeding Ocular manifestations: Red blood cell count (RBC) Chronic sub-conj hemorrhages Unexplained CWS / retinal hemes Hemoglobin • Recurrent inflammation (iritis, episcleritis) Mean corpuscular volume (MCV) Platelets Blood disorders (anemia, leukemia) • Underlying bacterial, viral, parasitic infection • Underlying non-specific inflammatory disease

7 8





9



Signs/Symptoms · Transient vision loss LIPID PROFILE . In conjunction w Diabetic and Cardio work up Ocular Manifestations: Total Cholesterol High Density Lipoprotein Cholesterol (HDL) Amarosis Fugax/TIAs Hollenhorst plaques Low Density Lipoprotein Cholesterol (LDL) • Unilateral/young corneal arcus • Xanthelasma Triglycerides Conditions: Hypercholesterolemia *Fasting Cardiovascular risk

11 12

RETINAL VASCULAR DISEASE

- Diabetic retinal disease
- Hypertensive retinopathy
- Sickle cell retinopathy
- Anemia
- Leukemia
- Hyperviscosity states
- Radiation retinopathy
- HIV retinopathy
- Ocular ischemic syndrome



CASE #2

- Cc: Reports glasses he got 6 mos ago not working anymore
- BCVA 20/20 OU -1.50D shift
- · Med hx: unremarkable but hasn't been to PCP "several years".
- · 1 pack/day smoker
- IOP 18/17 SLE: WNLs
- · Fundus: see photos
- *BP 175/105 ras

14

• Patient referred to ER: Plasma glucose levels 370, A1c 10.1



13

Signs/Symptoms:

- Chronic systemic inflammation (joint pain, rash, cough)
- Scalp or jaw pain, fever, malaise, diplopia • Eye pain, photosensitivity, loss of vision

Ocular Manifestations:

- Uveitis (granulomatous, recurrent, bilateral)
- Chronic episcleritis/scleritis
- Unilateral/bilateral papilledema (ION)

Conditions:

- Inflammatory/Autoimmune disease (SLE, Sarcoid)
- **Giant-Cell Arteritis

INFLAMMATION MARKERS

(Erythrocyte Sedimentation Rate)

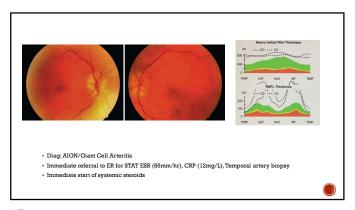
(C-Reactive Protein)

CASE #3

- 72yo wm hx: controlled T2DM
- Cc: Reported vision loss OD 3 days
- Went to ER, MRI/CT/EKG/Carotid WNL's, released told vision would return
- Reported HA, R scalp tenderness, fever lwk
- History 20-25lb weight loss, loss appetite, jaw pain
- VA OD HM OS 20/30 Ant Seg: WNLs IOP 17/17
- Fundus:?

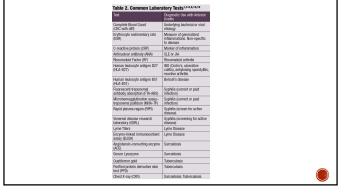
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16









19 20

CASE #4

- 44vo bf
- Cc: pain, photosensitivity and redness OD 4-5 days,
- Reported similar episodes in past
- SLE: Grade 2+ cell/flare in ant chamber OD
- Mutton-fat KPs inferior endothelium OD
- Early iris posterior synechia 7 o'clock · Subcutaneous skin nodules noted on lids
- IOP: 12/18

23

- Plan: Anterior uveitis treated w Durezol/cyclople Suspect underlying granulomatous disease
- Testing: Elevated Angiotensin Converting Enzyme Positive Chest X-ray showed hilar lymphadenopathy
- MGMT: +Sarcoidosis, referral to pulmonologist



CASE #5

15yowf non-CL wearer

22

- Chronic follicular conjunctivitis OD
- Unresponsive to Tdex given by Ucare
- SLE: Unilateral follicular rxn 3+ LL>UL
- 2+ Mucopurulent discharge
- Inferior limbal SEI w pannus 2+, neg PA node



- Unresponsive to topical steroids 1-2 wks
- Diff Diag: Adult Inclusion Conjunctivitis
- Plan: Azithromycin 1 g dose orally, marked improvement within 3 days
- Additional testing: Counseling, referral to PCP to r/o genitourinary infection (NAAT)

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Signs/Symptoms: Dry eye symptoms/Exposure • Conjunctival injection/Exophthalmus/Pain THYROID TESTING Heart palpitations, heat intolerance, weight loss, hair loss, skin rash (Hyperthyroidism) тз T4 Ocular Manifestations: TSH • EOM dysfunction (Diplopia-IMSLO) Orbital Imaging • Lid retraction, exophthalmos Optic neuropathy Conditions: • Grave's Disease (TED)

CASE #6

- 40yoAF "pressure behind eyes" onset few wks
- Denies diplopia

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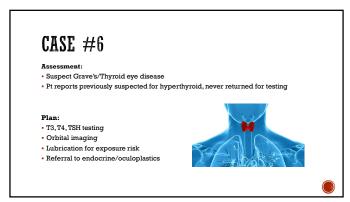
- Reports sleep difficulty, irritability
- Feels like eyes "more open"
 Weight loss 5lbs past year, current weight 96lbs
- BCVA: 20/20 OU IOP 16/17 -APD
- EOMs: possible OD restriction upgaze, -DV SLE: Incomplete closure OD>OS,
- Lid retraction OD>OS, 14/13 aperture, +scleral show
- Exoph: 15/13, proptosis OD on downgaze?
- Fundus: WNLs











27 28

