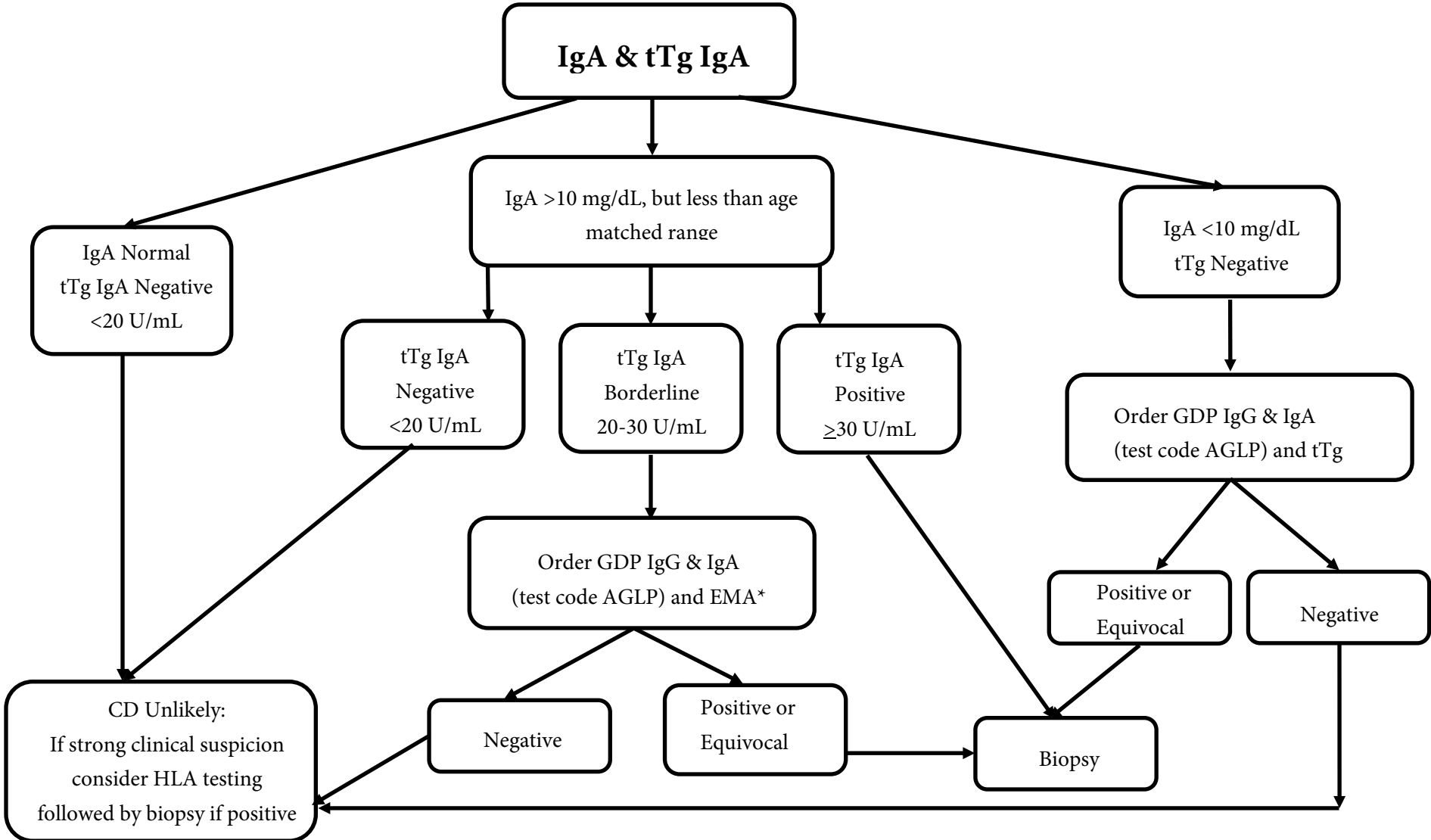




Recommendations for Celiac Disease Testing



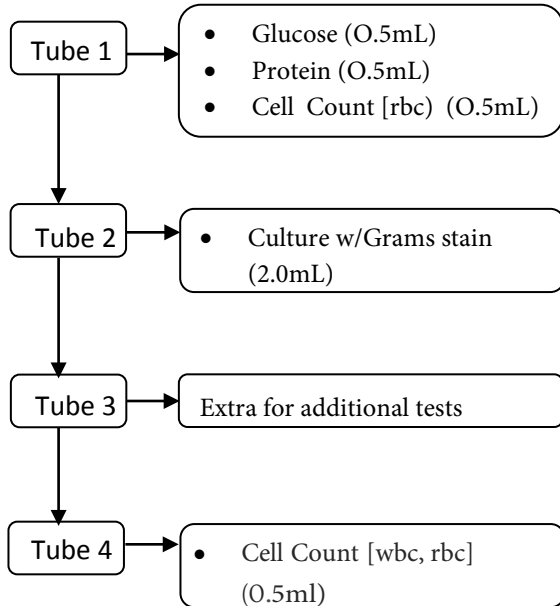
Endomysial Antibody testing is no longer recommended as a screening test.

- 1. American Gastroenterological Association (AGA) Institute Medical Position Statement on the Diagnosis and Management of Celiac Disease.
- 2. North American Society for Pediatric Gastroenterology, Hepatology and Nutrition (NASPGHAN) Clinical Practice Guideline Summary on Diagnosis and Treatment of Celiac Disease in Children.
- 3. National Institute of Health (NIH) Consensus Statement on Celiac Disease.

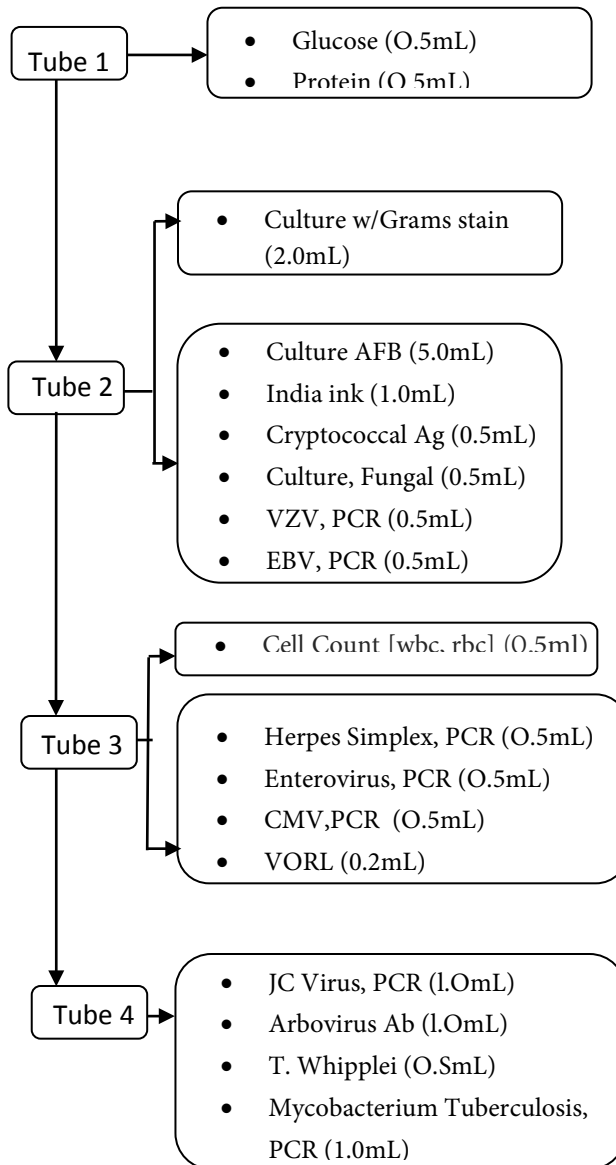


**CSF Sample Collection Guideline**

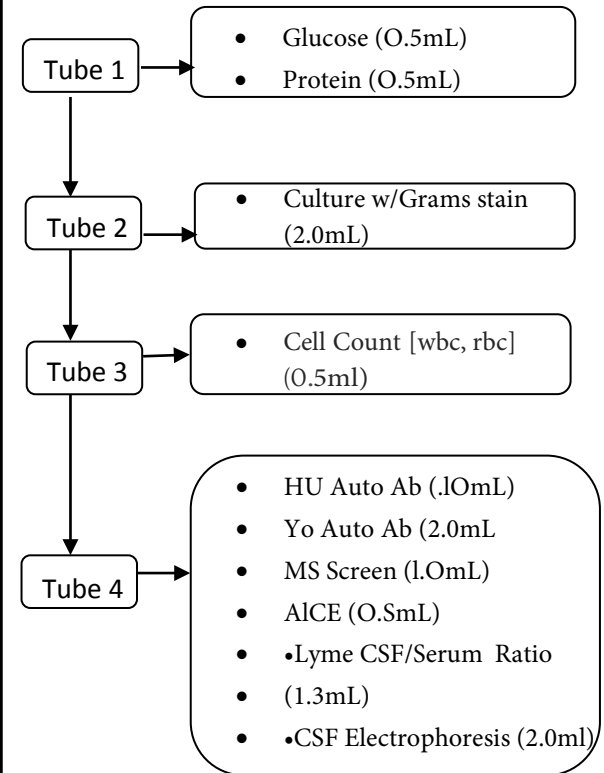
**Subarachnoid Hemorrhage**



**Infectious Disease**



**Neurologic Disease**





## Hepatitis Testing Guidelines and Interpretations

Acute: jaundice, viral illness  
 Acute Hepatitis Panel (AHEP):

- HAV, IgM
- HBsAg, HBc Ab IgM
- HCV

Chronic: elevated transaminases  
 Hepatitis B Profile (HBP), Hepatitis C Antibody Profile (HCP)

- HBsAg, HBs Ab, HBcAb, Total, HBc Ab, IgM
- HCV

HAV		
HAV, total HAV, IgM	Negative Negative	Susceptible
HAV, total HAV, IgM	Positive Positive	Acute Infection
HAV, total HAV, IgM	Positive Negative	Immune

HBV		
HBsAg HBcAb HBsAb	Negative Negative Negative	Susceptible
HBsAg HBcAb HBsAb	Negative Positive Positive	Immune due to natural infection
HBsAg HBcAb HBsAb	Negative Negative Positive	Immune due to Hepatitis B vaccination
HBsAg HBcAb HBcAb, IgM HBsAb	Positive Positive Positive Negative	Acutely infected
HBsAg HBcAb HBcAb, IgM HbsAb	Positive Positive Negative Negative	Chronically infected
HBsAg HBcAb HBsAB	Negative Positive negative	Differential includes: <ul style="list-style-type: none"> <li>• Resolved infection (most common)</li> <li>• False-positive HBcAb, thus susceptible</li> <li>• Low-level chronic infection</li> <li>• Resolving acute infection</li> </ul>

HCV		
HCV Ab HCVLD	Negative Not indicated	Repeat screening test in 1 to 3 months for high-risk patients.
HCV Ab HCVLD	Positive Detected	Infection confirmed.
HCV Ab HCVLD	Positive Not detected	Differential includes: <ul style="list-style-type: none"> <li>• false-reactive screen</li> <li>• resolved (past) infection</li> </ul>

**NOTE:**

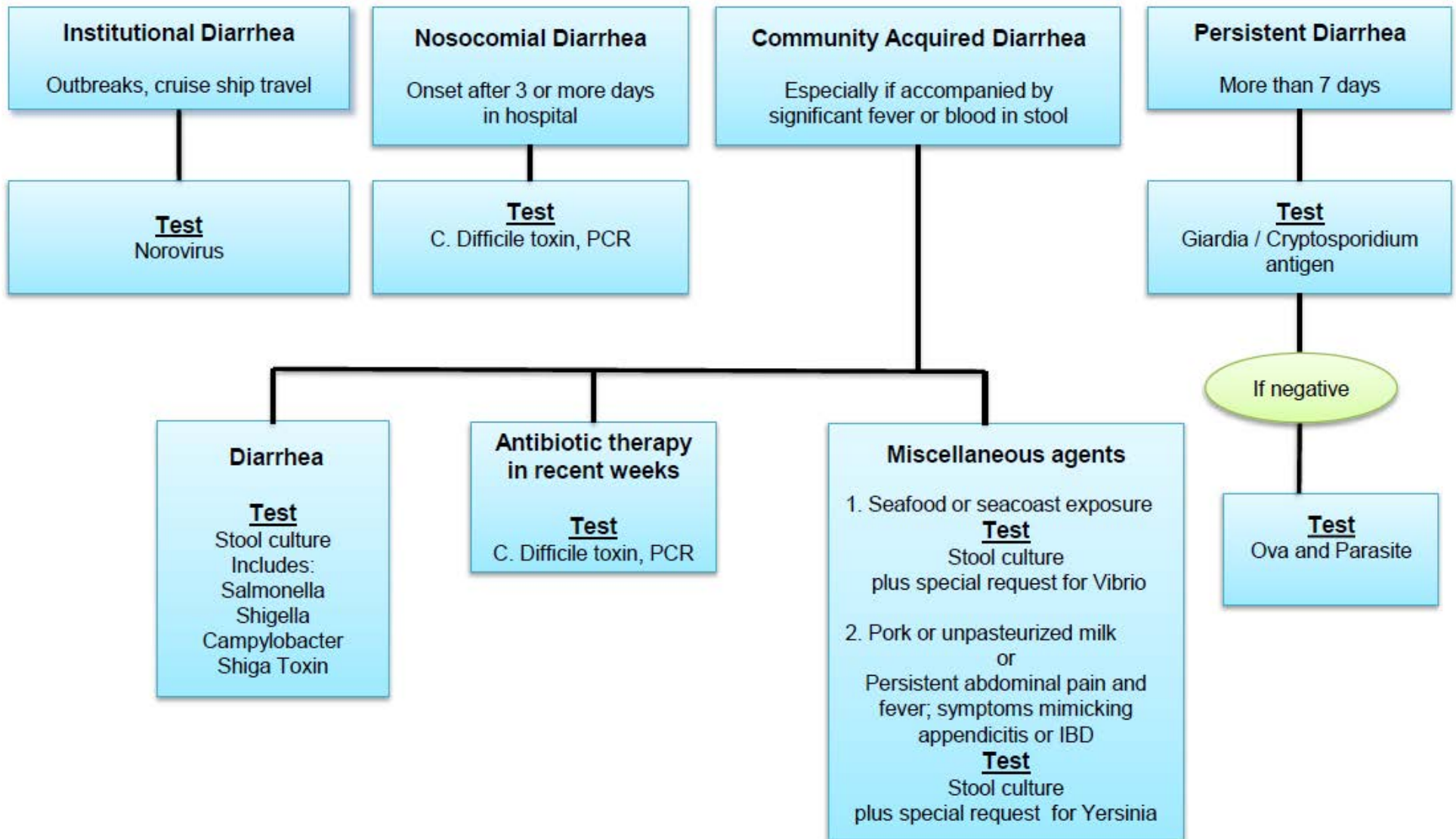
HAV: Hepatitis A  
 HBV: Hepatitis B  
 HBsAg: HBV surface antigen  
 HBcAb: HBV core antibody  
 HBsAB: HBV surface antibody  
 HCV: Hepatitis C  
 HCVLD: HCV viral load

References:

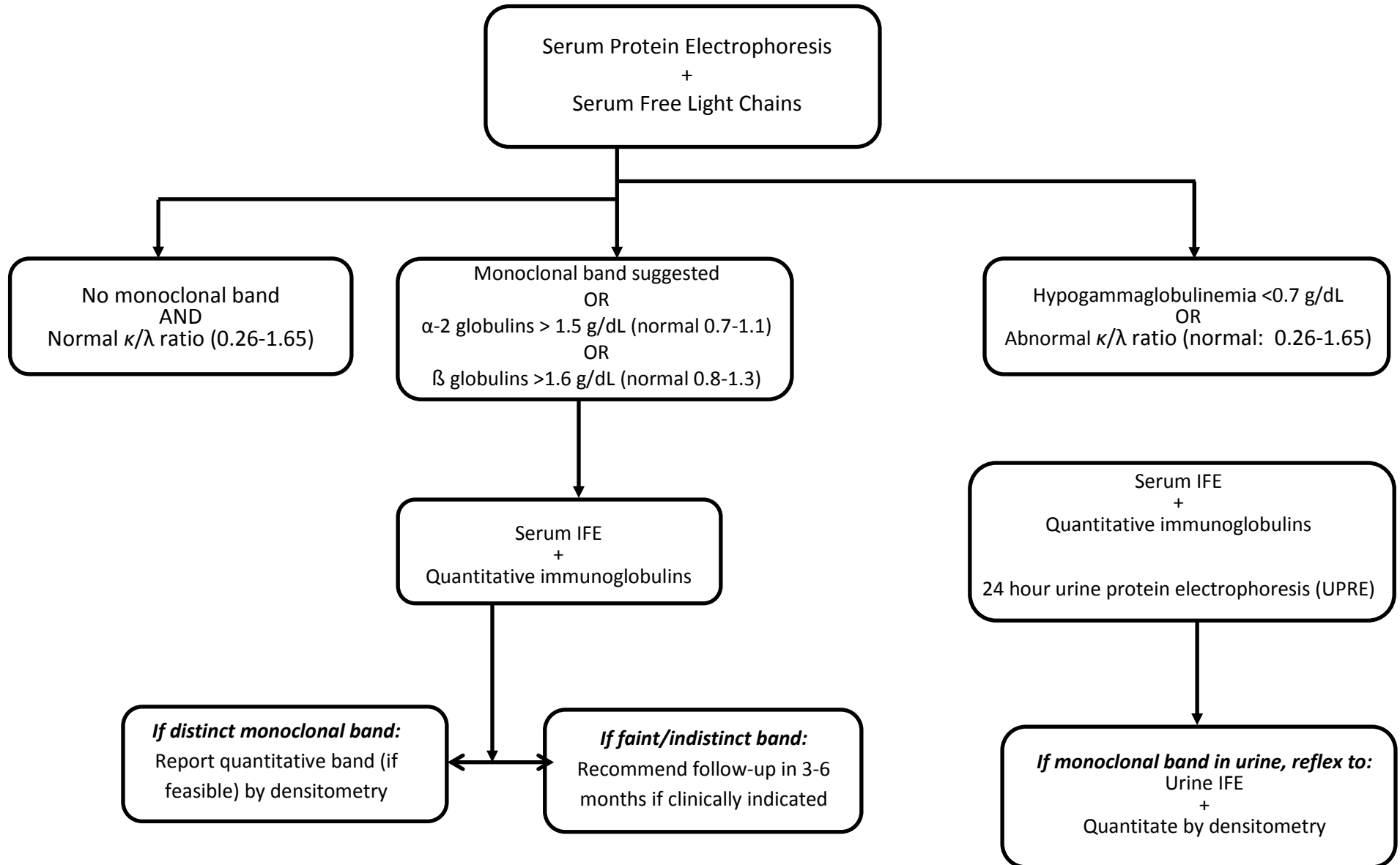
- "Interpretation of Hepatitis B Serologic Test Results" [www.cdc.gov/hepatitis n.d., http://www.cdc.gov/hepatitis/HBV/PDFs/SerologicChartv8.pdf](http://www.cdc.gov/hepatitis/n.d./http://www.cdc.gov/hepatitis/HBV/PDFs/SerologicChartv8.pdf)
- "Reference for Interpretation of Hepatitis C (HCV) Test Results" [www.cdc.gov/hepatitis n.d., http://www.cdc.gov/hepatitis/HCV/PDFs/hcv\\_graph.pdf](http://www.cdc.gov/hepatitis/n.d./http://www.cdc.gov/hepatitis/HCV/PDFs/hcv_graph.pdf)

Revision Date: 4-25-2013

### Infectious Diarrhea Testing Guidelines



### Monoclonal Gammopathy Screening Algorithm

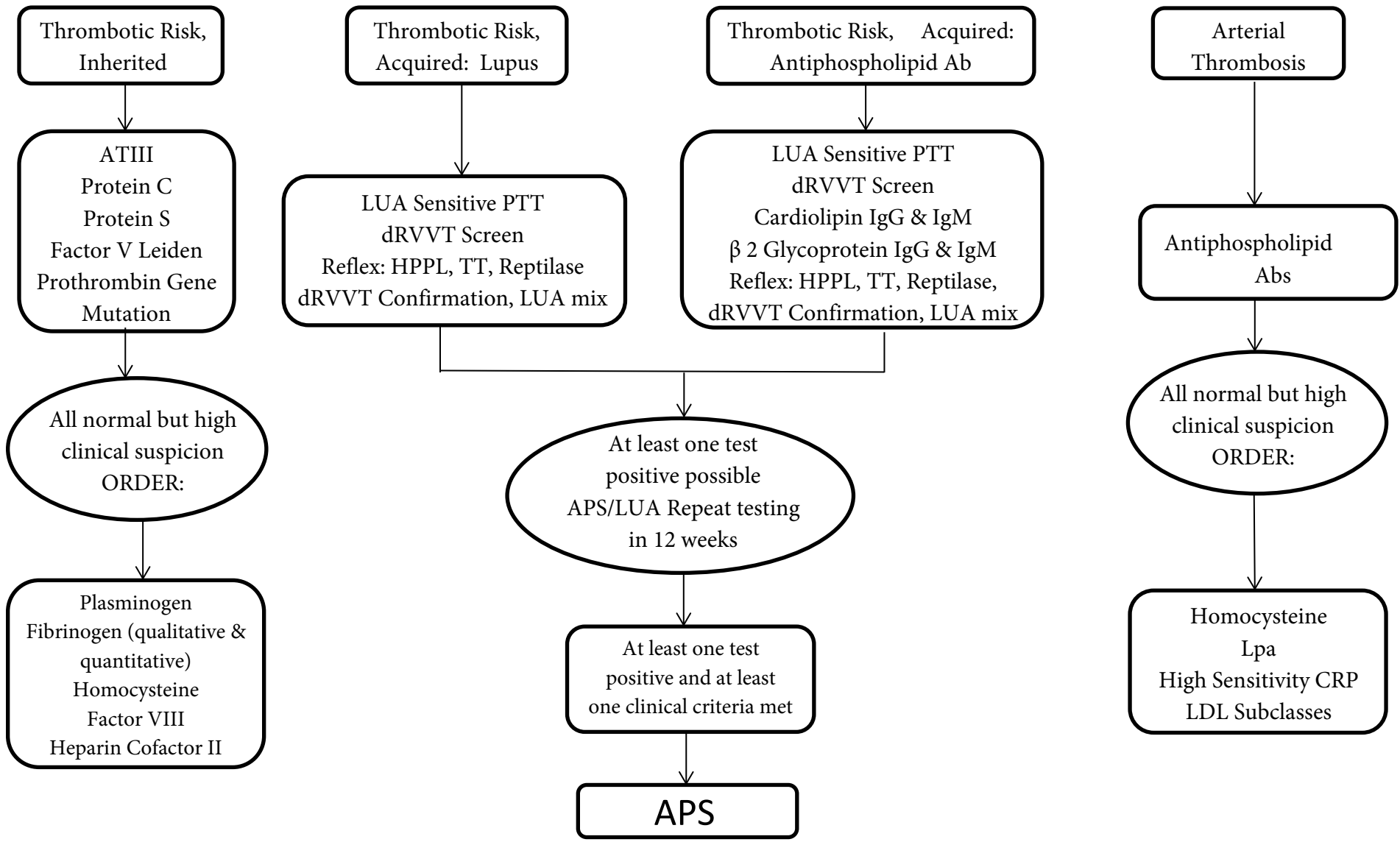




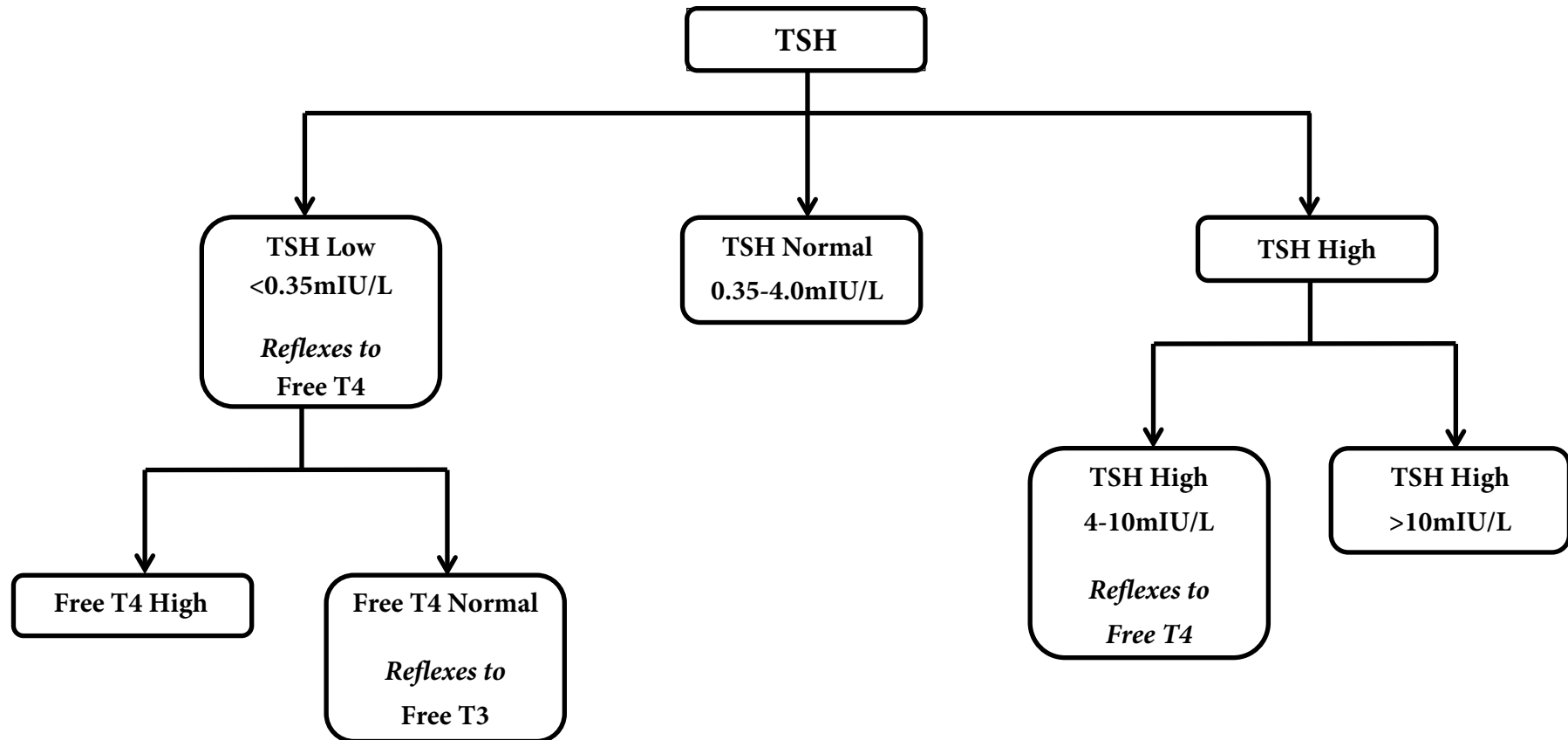
## Thrombotic Risk: Guidelines For Testing

**Testing is not recommended:**

- During an acute thrombotic episode.
- While patient is on anti-coagulant therapy; order testing 2-4 weeks after discontinuation of anticoagulant therapy.
- For patients with DIC or HIT.



**Thyroid Function Screening Algorithm**





# von Willebrand Disease Testing Guideline

- Ob/Gyn ACOG Practice Bulletin #128 July 2012.
- Bleeding Assessment Tool Condensed Version O'Brien SH, Hematology 2012;152-156

- Genetic**
- Usually autosomal dominant
  - Some subtypes recessive

- Acquired**
- Autoimmune disease (SLE, Hashimoto's)
  - Monoclonal Gammopathy
  - Aortic valve stenosis
  - LVAD
  - Hypothyroidism
  - Medications such as valproic acid
  - Others

- Indications for Testing**
- Follow up unexplained abnormal PTT
  - Epistaxis
  - Abnormal uterine bleeding, menstrual, post-partum or family history of
  - Abnormal bleeding after surgery or dental extractions
  - Family history of vWd and /or clinical suspicion
  - Abnormal bruising

- Initial Testing**
- CBC to assess for anemia and platelets
  - PT/PTT
  - Reflex mixing studies

**Specimen Handling**  
Specimen needs to arrive in the lab promptly to ensure accurate results

- vWD Testing**
- Von Willebrand Antigen (44-160%)
  - Von Willebrand Activity (Ristocetin Cofactor) (50-150%)
  - Factor VIII Activity (50-150%)

	vWD	"Low vWD"
VwF:Ag	<30 IU/dL	30-50 IU/dL
Vwf:RCo	<30 IU/dL	30-50 IU/dL
Factor VIII	↓ or Normal	Normal

Test	Type 1	Type 2A	Type 2B	Type 2N	Type 3
VWF:Ag	↓	↓	±↓	Normal or ↓	Absent
VWF:RCo	↓	↓↓↓	↓ or ↓↓	Normal or ↓	Absent
Factor VIII	Normal or ±↓	Normal or ±↓	Normal or ±↓	↓↓	↓↓↓

- Confirmation and Subtyping**
- vWF multimeric panel
  - RWF:Rco ratio to vWF Ag
  - Ristocetin induced platelet aggregation (RIPA)
  - vWF VIII binding

\*Adapted from National Heart & Lung Blood Institute

- Caution in Interpretation**
- Increased Values may be due to:**
- Stress (children in response to phlebotomy)
  - Exercise
  - Infection/Inflammation
  - Post-operative
  - Age
  - Hormonal therapy and/or pregnancy
- Decreased Values may be due to:**
- Blood type O
- Repeat in 1-3 months** because of fluctuations (children may require more than one repeat)  
Rule out other causes of bleeding such as qualitative platelet or vascular dysfunction

References:

1. vonWillebrand Disease: Advances in Pathogenic Understanding, Diagnosis and Therapy Blood, 28 November 2013. vol 123 #23
2. Up To Date
3. ARUP Labs
4. Diagnostica Stago

Revised: 7-30-2014



# Use of HPV Genotyping to Manage HPV HR \* Positive / Cytology Negative Women 30 Years and Older

