Interpretation and Utilization Guidance of Immunopathology Tests

Vasculitis Panel					
Antibody	Antigen	Disease Association	Maximum frequency		
Anti-GBM	Glomerular and alveolar basement membrane	Elevated in Goodpasture's Syndrome and Anti- Glomerular Basement Membrane Disease	Once Monthly		
Anti-MPO	Myeloperoxidase	Elevated in certain vasculitides, ie Microscopic Polyangiitis and Churg-Strauss Syndrome. This autoantibody typically results in a P-ANCA staining pattern on immunofluorescence, but this type of assay is no longer performed at the QE II HSC lab)	Once Monthly		
Anti- Proteinase	Serine Proteinase-3 (PR3)	Elevated in Granulomatosis with Polyangiitis (formerly called Wegener's Granulomatosis). This antibody typically results in a C-ANCA staining pattern on immunofluorescence, but this type of assay is no longer performed at the QE II HSC lab)	Once Monthly		

ANA Panel					
Antibody	Antigen	Disease Association	Maximum frequency		
ANA	Note: the ANA is posit separate test)	Once every 2 weeks			
Anti-dsDNA	Double-stranded DNA	Systemic Lupus Erythematosus (SLE). Highly specific but low sensitivity. Elevated levels may be associated with renal involvement and active lupus.	Once every 2 weeks		
Anti-Chromatin	dsDNA with its associated histone and non-histone proteins	Seen most commonly in SLE	Once every 2 weeks		
Anti- Ribosomal-P	Phosphoproteins (P proteins) located on the 60S subunit of ribosomes	Highly specific for SLE. Associated with neuropsychiatric manifestations of lupus (weakly predictive)	Once every 2 weeks		
Anti-SS-A/Ro	60 kDa cytoplasmic ribonucleoprotein	Found in Sjogren's Syndrome and in SLE. Associated with sicca syndrome, photosensitive rash neonatal lupus and congenital heart block in neonates.	Once every 2 weeks		
Anti-SS-B/La	47 kDa cytoplasmic ribonucleoprotein	Found in Sjogren's Syndrome and in SLE. Associated with sicca syndrome, photosensitive rash neonatal lupus and congenital heart block in neonates.	Once every 2 weeks		
Anti- Centromere B	Centromere B	Highly specific and sensitive for Limited Scleroderma (CREST).	Once every 2 weeks		

Anti-Sm	Small nuclear ribonucleoproteins	Highly specific but low sensitivity for SLE	Once every 2 weeks
Anti-Sm/RNP	Small nuclear ribonucleoproteins (U1 snRNP, which includes proteins reactive to anti-Sm and anti-RNP	Positive when either anti-Sm or anti-RNP antibodies are present.	Once every 2 weeks
Anti-RNP	Small nuclear ribonucleoproteins	When associated with anti-Sm antibodies it is associated with SLE. When present by itself it is associated with Mixed Connective Tissue Disease (MCTD)	Once every 2 weeks
Anti-Scl-70	Topoisomerase I	Highly specific but low sensitivity for Diffuse Scleroderma.	Once every 2 weeks
Anti-Jo-1	Histidyl tRNA synthetase	Highly specific but low sensitivity for Polymyositis	Once every 2 weeks

Miscellaneous Immunopathology Tests					
Antibody	Antigen	Disease Association	Maximum frequency		
Anti-Cardiolipin	Cardiolipin (a phospholipid)	Found in 30-40% of patients with SLE, or by itself. May be associated with unexplained venous or arterial thrombosis or recurrent fetal loss	Once Monthly		
Anti-AMA-M2	Mitochondrial proteins	Associated with Primary Biliary Cirrhosis	Once every 6 months		
Anti-Smooth Muscle Antibody	Actin, troponin or tropomyosin in smooth muscle	Associated with Autoimmune Liver Disease	Once every 6 months		
Anti-LKM1 Antibody	Cytochrome P- 450IID6	Associated with Autoimmune Liver Disease	Once every 6 months		
Anti-TTG	Tissue transgultaminase	Associated with Celiac Disease. It is an IgA based test, therefore obtain immunoglobulin levels to ensure patient is not IgA deficient which might lead to false negative test result.	Once every 6 months		