Table 6.

Counseling/Other

Cimzia (certolizumab) [4, 23]

Initial Visit:			
History and Physical			
	History of CHF? History of malignancy or serious infections (hepatitis, TB, HIV, other)?		
	History or family history of multiple sclerosis?		
	 History of other neurological disease including seizure disorders? 		
	Total body skin exam for skin cancer		
	Check for HSM, cervical/axillary/inguinal lymphadenopathy		
	For Remicade - History of COPD and smoking? History of diabetes?		
	Have you lived in Southwest (risk of coccidiomycosis) or Southeast – Ohio and Mississippi River Valleys (risk of histoplasmosis or blastomycosis)? Travel to area endemic for TB?		
片	Live vaccine within past month – you or household member?		
	Medications: Anakinra; cyclosporine; abatacept; natalizumab; other anti-TNF agents; rituximab; methotrexate; corticosteroids; cyclophosphamide (increased risk of solid malignancies in Wegener's granulomatosis); warfarin (levels can be decreased by anti-TNF agents)		
	Major surgery in next month?		
	Active infection? Hold dose for infection or sepsis Latex allergy?		
	History Wegener's granulomatosis AND cyclophosphamide? (risk of malignancy) For Enbrel - History of alcoholism? (increased mortality in alcoholic hepatitis)		
<u>Labs</u>			
	CBC, CMP		
	TB test (for PPD, consider >5mm as positive)		
	Hepatitis B screen: Hepatitis B sAg, Hepatitis B sAb, Hepatitis B cAb		
	Influenza vaccine (if flu season)		
Ц	Baseline ANA (optional)		
	HIV (optional) – especially with erythrodermic psoriasis		
	Cardiovascular risk panel: CRP, homocysteine, HbA1C, lipid profile (if screening for psoriasis) (optional)		
	Pneumovax (optional)		

First injection under supervision of health care professional and instruction of proper	
disposal of needles	
Can worsen existing malignancies	
Malignancy: more frequently observed malignancies were lymphoma, non-melanoma	
skin cancer, and acute and chronic leukemia; lymphoma and other malignancies in	
children and adolescents including Hodgkin's and non-Hodgkin's lymphoma	
 for Humira, malignancies seen more than in controls; lymphoma more than in general population 	
 for Remicade and Cimzia, non-melanoma skin cancer with prior phototherapy 	
o for Remicade, breast and colorectal cancers were observed in trials	
o for Remicade, if h/o COPD and smoking, risk of lung or head and neck	
malignancy	
o for Remicade, hepatosplenic T-cell lymphoma - all in Crohn's or ulcerative colitis, mostly adolescent or young adult males AND azathioprine or 6-mercaptopurine at or prior to diagnosis (although rheumatologists frequently use this combination)	
Risk of reactivation of latent TB	
 risk is less with Enbrel than with TNF-blocking monoclonal antibodies 	
Serious, sometimes fatal, infection (especially with methotrexate or corticosteroids):	
bacterial (including sepsis), mycobacterial, invasive fungal, viral, and opportunistic	
infections, such as tuberculosis (including reactivation), histoplasmosis,	
coccidioidomycosis, candidiasis, aspergillosis, blastomycosis, pneumocystosis, listeriosis	
Exacerbation or new onset of demyelinating disease, e.g., multiple sclerosis, seizure	
disorder	
 Rare cases of optic neuritis, seizure, CNS manifestations of systemic vasculitis, 	
peripheral demyelinating disorders such as Guillain-Barre syndrome; Caution	
with pre-existing demyelinating or seizure disorders	
Can worsen moderate to severe heart failure or cause new-onset heart failure	
May lower incidence of coronary artery disease (a benefit)	
Injection site reaction	
Anaphylaxis from injection (e.g., angioedema; bronchospasm; hypotension)	
Lupus-like syndrome	
Reactivation of hepatitis B	
Hepatotoxicity - acute liver failure, jaundice, hepatitis, cholestasis, autoimmune	
hepatitis; increased mortality with alcoholic hepatitis at six months	
Incidence of elevated liver enzymes and liver complications is somewhat higher with	
Remicade than with other TNF-alpha inhibitors ⁴ .	
Cytopenias: pancytopenia, aplastic anemia, leucopenia, thrombocytopenia	
Avoid live vaccines – self and household members	
Pediatric Patients: Are they up to date on vaccines before starting?	
Needle cap of the prefilled syringe and the autoinjector contain a latex derivative	

	Formation of anti-Cimzia antibodies, less with methotrexate, that can cause decreased efficacy over time
F	For Enbrel - If you have diabetes, there is a risk for hypoglycemia and a higher chance for infection when serum glucose is poorly controlled
☐ F	For Simponi and Remicade - New-onset or worsening psoriasis
F	For Cimzia - Erroneously elevated aPPT tests
F	For Cimzia - Intestinal obstruction (with Crohn's patients)
Follow-u	p Visit:
History a	and Physical
	Every six months: Total body skin exam for skin cancer Every six months: Check for HSM, cervical/axillary/inguinal lymphadenopathy Any new infection – hold dose for active infection or sepsis Any signs of heart failure Major surgery in next month? s there sustained clinical efficacy in the treatment interval? Skin? Joints? Any live vaccines in past month? Any household members getting live vaccine? Other interval history
<u>Labs</u>	
E	Every three months for first two follow-up visits, then every six months: CBC, CMP
_	Every year: TB test (consider induration of >5mm as positive)
	nfluenza vaccine annually (in flu season)
	n HBV carriers, check liver panel for laboratory signs of hepatitis B reactivation
	ANA and anti-ds-DNA (if lupus-like symptoms)