IF Chec	klist: Who Does What When					
PI will s	Before the study begins: Prior to of a study involving MR scans at tal Findings (IF) reads. Stephen Eubmit the signed letter to the IR is to add new records and retri	t ZMBBI will send a Dashnaw in Radiolo <sub>i</sub> B with his/her prot	form letter to Step gy will countersign ocol. <mark>The PI</mark> also de	hen Dashnaw ir the letter and re	n Radiology requesting eturn it to the PI. <mark>The</mark>	
	<b>At the scan:</b> the Level III operator must push the structural MR sequences directly from the scanners to the Radiology research PACS (RADIO) for reading by the assigned radiologists.					
comple sequen	At the scan: a designated lab manage Record by completing the infocte the "Read" part of the form a ces.	rmation necessary	for review. The rad	iologist will revi	ew each MR scan and	
membe	Within 10 business days of the has not been completed in the should notify Stephen Dashnav	required time, or a	n expedited read is	required, then		
If there is an incidental finding (rated Level 2-4; see "Incidental Finding Levels" on p 2): the PI calls the participant to communicate the finding and provide advice on the next steps they should take.  Alternately, the PI can pay an MD \$250 to research the finding and call the participant. In this case, the PI emails the radiology read (in the form of an anonymized PDF) to the MD. Neurology residents who've agreed to make the calls:						
	Name	Email		Phone		
	Francesco Micha	ielassi fem2104@c	umc.columbia.edu	773-848-2739		
	Brian Fidali	bf2419@cur	nc.columbia.edu	336-287-4951		
	Jeremy Ader	ja3296@cur	nc.columbia.edu	914-450-2696		
	Eva Franzova	ef2504@cur	nc.columbia.edu	607-342-8461		
	Christoferos Kou	mas ck2967@cui	mc.columbia.edu	347-371-2550		
	Amol Mehta	am4677@cu	ımc.columbia.edu	240-478-7691		
	Sean Marinelli	sm4091@cu	mc.columbia.edu	646-899-2809		
	The PI also calls the MD to prov the phone call are required. Par				ct. Both the email and	

The MD commits within 2 days to making the call and sending out the letter within 7 calendar days. If they

can't commit, the PI contacts another of the neurology residents.

-	Once they commit, the MD takes the following steps: taking 15 min time for research on the finding so as to be able to communicate the finding well and point the subject to the most relevant resources and services, taking 10 min to draft a version of a form letter with relevant details, sending this to the pant via registered mail or email, and taking up to 15 min to talk to the subject. Last, the MD informs the the MR Research Administrator that this has been completed.
	The PI awaits confirmation that the phone call has happened. If the MD doesn't confirm within 1 week, the PI follows up with the MD. \$250 will be charged to the PI's grant to pay the MD after the MD submits proof of email or registered mail letter to the MR Research Administrator.
	The PI submits an IRB amendment with the finding.

## **Incidental Finding Levels**

Level 1 — No medically significant findings (normal or normal variant findings) No medical follow up needed. This includes research subjects older than 60 years with atrophy and chronic microvascular ischemic changes (e.g. periventricular white matter, basal ganglia or pons).

Level 2 = Class B IF (minor findings) The subject should discuss the medical significance of these findings with his/her physician, but no specific time frame is recommended. No immediate medical attention is needed.

Level 3 = Class A-2 IF (abnormal findings) Expedited medical evaluation within two weeks is recommended for further evaluation of these findings.

Level 4 = Class A-1 IF (acute abnormal findings) Immediate medical evaluation needed today (e.g. emergency room)

## **EXAMPLES:**

A Level 2 or Class B IF is not necessarily immediately life threatening or severe, but is likely to be deemed by a subject to be important to his/her health. Examples from brain imaging include acute sinusitis (with air/fluid levels) or mastoiditis, non-specific patchy white lesions in subjects less than 60 years of age, chronic infarct, chronic trauma, tonsillar ectopia, severe generalized atrophy, focal atrophy (e.g., isolated brain stem and/or cerebellum), small meningioma (<3cm) without edema or cranial nerve or brain stem involvement and possible demyelinating disease (non-enhancing). Examples from abdominal imaging include non-obstructing cholelithiasis or urolithiasis,

A Level 3 or Class A-2 IF is of more medical significance and requires expedited clinical evaluation (e.g., within 2 weeks). Examples from brian imaging include aneurysm, other vascular malformation (e.g., cavernous or AVM), mass or infiltrating lesion with minimal edema or mass effect (e.g., glioma, small possible metastases) and possible acute demyelinating or inflammatory (e.g., Lyme) disease with enhancement. Examples from abdominal imaging include renal, liver, pancreatic or pelvic mass lesions, aortic aneurysm, cholelithiasis or urolithiaiss with biliary or ureteral obstruction, uterine or ectopic pregnancy and spinal mass lesions. Examples from chest imaging include pneumonia, atelectasis, airway compression, cardiomegaly, aortic aneurysm and spinal mass lesions. This class of IF's is of most concern because these serious conditions may not be clinically apparent or may be associated with vague or confusing symptoms.

A Level 4 or Class A-1 IF is one that reveals a condition that is likely to be life-threatening or severe and that requires immediate (emergency room) or expedited clinical evaluation. Examples from brain imaging include acute infarct, acute hemorrhage (e.g., SAH, SDH, hematoma), mass with prominent edema or brain compression (intra or extra axial) and acute hydrocephalus. Examples from abdominal imaging include intraperitoneal free air, acute appendicitis, diverticulitis, cholecystitis, pancreatitis, bowel ischemia or perforation and severe bowel obstruction. Examples from chest imaging include pneumothorax or hemothorax, aortic dissection or pulmonary embolus.