

Standard Operating Procedure for Infusion Studies
Magnetic Resonance Research Center

Risks involved with these studies go beyond standard MRI/MRS because of these factors:

1. Nurse is in constant close contact with subject.
2. Multiple people can be in the console room.
3. Subject is in scanner much longer than usual so if positive will have greater duration of droplet formation.

Our plan below is specific for the portion of the studies performed at the MRRC. We are presently working on developing a comprehensive plan with the hospital research unit of the YCCI, which supports the large majority of these studies and investigators in different departments and sections (e.g. Endocrine) that perform the studies as they require usage of multiple personnel at different sites.

Procedures:

1. Subject is tested for COVID the day before study. For infusion studies this should not be a problem since MD is always involved.
2. Extended cleaning. Staff member performing should be wear mask, face shield, gloves, gown, shoe covers and hair cover. Prior to study, remove all necessary equipment from room to have fewer surfaces to clean. Clean EVERY surface in addition to standard cleaning.
3. Subject wears mask in recovery room during installation of catheters and also during recovery. If a meal is part of the protocol, the nurse and staff will leave the room while the subject has the mask off to eat
4. Blood processor stays in sample preparation room outside 4T. The 3T can use the same but we need to coordinate if there are two studies the same time. It might be possible to use same processor for both.
5. Only one staff member with the system operator is in console room to run infusion. Both operator and staff member wear masks and gloves and maintain social distancing.
6. Conversation between infusion staff and MR operator in scanner console should be limited to procedure topics. Please keep conversation to a minimum.
7. Nurse who is with subject in magnet room has the following protection: surgical mask, face shield, hair covering, gown and gloves. They also will wear this protection during installation and removal of catheters in the recovery room or at the HRU or other facility these procedures are performed.
8. Subject in magnet will wear a surgical mask or face covering. The standard surgical mask will work with most people especially if they can tolerate an infusion. The metal bar from the mask can easily be removed.
9. MR operator wears gloves, masks, visor and gown when positioning and removing subject.

10. Extended decontamination procedure is performed after study. Staff member performing should be fully protected. Cleaning means changing sheets and wiping down table and coil. Clean gantry all the way to isocenter, using an MR compatible cleaning tool (swiffer). Clean EVERY surface in addition to standard cleaning. Wait 1 hour.
11. The same extended decontamination procedures will be performed in the recovery room. In the past this has been provided by the HRU or investigator personnel with assistance from MRRC personnel. We are working with them now to identifying which personnel will be assigned this task once infusion studies restart.