

Week 3 - Doing fMRI experiments

L03-06. Precautions during the experiment

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6. Precautions during the experiment

- Two or more experimenters must conduct the experiment. Never leave the participant alone.
- Keep checking if the experiment is going well.
 - Check that the brain image is well scanned, check the subject's physiological signals, and check that the participant is not sleeping through eye-tracking machine and communication.
 - Experiment instructions should inform participants in advance that they are viewing via camera for safety check.
- Make participants participate comfortably in the experiment
 - Detailed and friendly explanation of the experiment procedure. And toilet!
 - Padding and earplugs for a comfortable posture.
 - Peripheral nerve stimulation: fever, flashing, and tingling of fingertips may be felt.
 - It's okay to cross legs, but they should not loosen their legs and keep them still in the middle of the scanning.
- Be careful not to delay the experiment after the scheduled time.
 - If it is inevitable to be delayed, you should ask to be excused to the researcher who is arranged after your time as soon as possible.



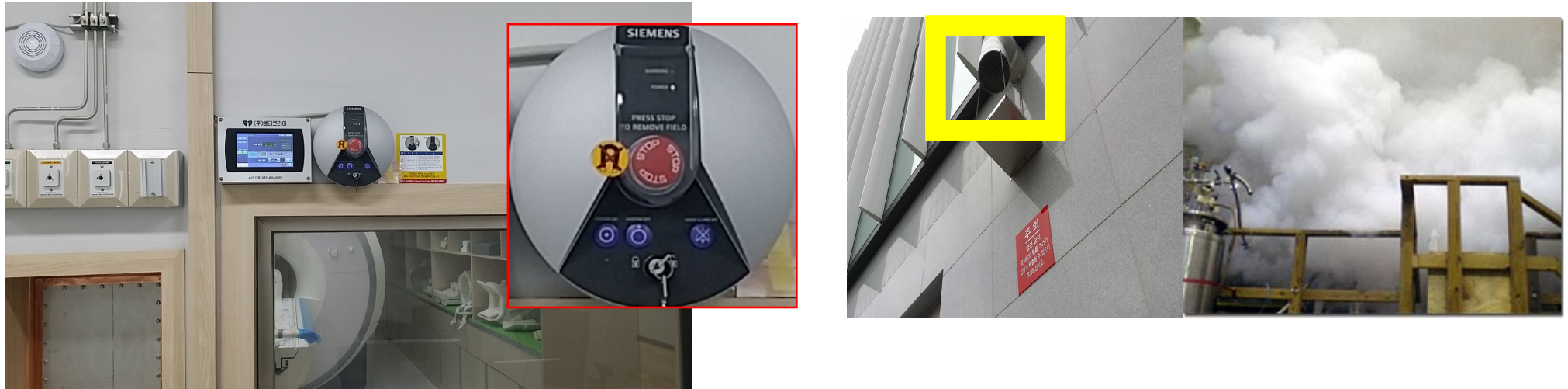
6. Precautions during the experiment

- In case of emergency
 - Immediately stop the experiment.
 - Release the MR patient table lock, then the table is manually removed and get the participant out of the room.
 - If the participant is uncomfortable with movement, move the participant using a MR compatible stretcher.
- In the event of a fire
 - a fire extinguisher can be used to extinguish the first stage.
 - However, in the event of a fire inside the MR room, special extinguishing gas is automatically injected from the ceiling. So press the red **STOP button** on the console or scanner.
 - Unless you are in a real emergency, you should not press this button.
 - Close the door of the MR room to prevent fire and smoke from spreading.



6. Precautions during the experiment

- This button for the MRI-quench
 - MR scanner is super cooled with inert gases such as helium.
 - An INTENTIONAL quench is done in an emergency to run the magnetic field to ZERO in order to remove a patient from the scanner in extreme emergencies.
 - Imagine that someone is smoking or chatting under chimney, he would get hurt severely. People can be hurt or die in unexpected place!!!!



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 - However, in the event of a fire inside the MR room, special extinguishing gas is automatically injected from the ceiling. So press the red **STOP button** on the console or scanner.
 - Close the door of the MR room to prevent fire and smoke from spreading.
 - Unless you are in a real emergency, you should not press this button.
- Evacuate immediately outside the building
 - The amount of oxygen may become insufficient when fire-fighting gas erupts from the ceiling of the building.
- If someone gets injured, call the 119.



Now you are ready to kick off your own experiment!

Listen to your senior's advice!

- Doing a experiment is an succession of trial and error. - B.Kim
- Never trust your and other's code. - H.J.Kim
- If you think you won't make a mistake, that's a mistake. - B.Kim
- 열 길 물속은 알아도 한 길 장비 속은 모른다. - S.A.Lee
- If you will make a mistake anyway, do it while a pilot study - B.Kim
- When the time comes for analysis, numerous regrets arise about the experiment. Let's do well before that. 실험할 때 잘하자 ^^ - H.J.Kim
- 뭔가 제대로 안되면 너가 뭔가 잘못된 거다. 아님 말고. - B.Kim



GOOD LUCK!!!



Cocoan 101

<https://cocoanlab.github.io>

