## **Work Models**

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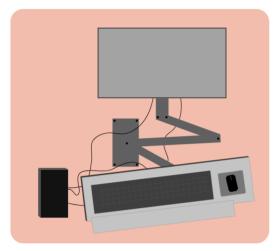
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IN4MATX 281 User Needs Analysis

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# Physical Model



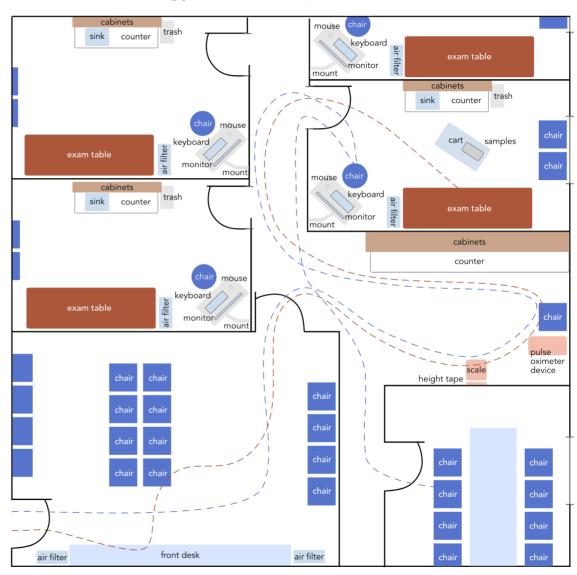
Close up of the computer used in each exam room.



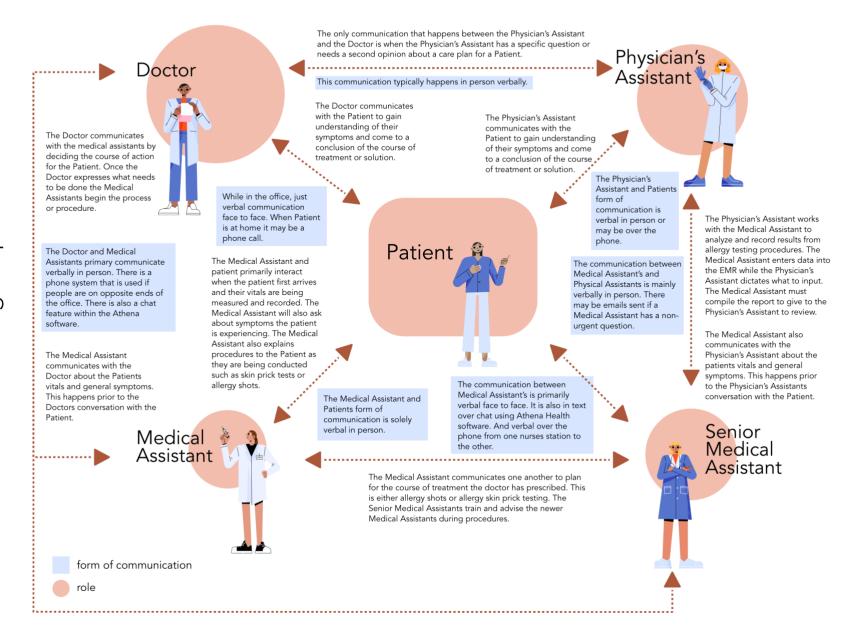


Medical Assistant Path

## allergy & asthma practice blueprint



## Collaboration Model





## conducting allergy skin prick testing

### Intents

Doctor wants to help patient figure out what they are allergic to.

Medical Assistant wants to make sure the patient is comfortable and gives a space for them to ask questions.

Medical Assistant intends to provide an explanation as the procedure occurs.

Medical Assistant intends to notify the patient as a warning that they are going to begin with the pricking and it may be painful.

Medical Assistant intends to administer the samples efficiently to reduce length of time the patient is in pain or discomfort.

Physician's Assistant intends to establish empathy with the patient.

Medical Assistant establishes a line of communication with the Physician's Assistant.

Medical Assistant and Physician's Assistant intend to conduct the reaction analysis efficiently and effectively by a system that utilizes physical and verbal communication.

Physician's Assistant intends to reduce the reaction the patient is having once analysis is complete.

Steps Trigger I Doctor orders skin prick testing to be conducted nt (MA) staff is notified that a patient will need allergy skin prick testing done. MA is available and asks the doctor what category of allergy testing is needed. Adds the environmental test kit, markers, gloves, alcohol wipes and mini trash can to the cart. Asks patient if they have any questions. Tells patient they are going to wipe down their back and it may be cold. Discards wipe in small bin on cart.

Explains that they are going to chart off their back to label where the allergens will be pricked.

Explains to the patient that they will now begin doing the pricking and to notify them if a break is needed.

es out the allergen sample corresponding to the number one.

natient that the skin pricking is complete and that 15 minutes needs to go by before the reading can be done. ives gloves and discards them in the bin on the cart.

cards the entire bin, sample tray, and marker into the bio waste bin.

tifies the Physician's Assistant (PA) that the procedure is complete and the patient will need analysis in 15 minutes

e MA logs into the computer to the Summit Software EMR system.

he MA notifies the PA that they are ready to begin recording.

# MA enters the number in chart. MA hits tab button PA says the wheal size number MA enters the wheal size number in chart

PA says the analysis is complete and the MA will just need to stay for a bit to finish charting

PA wipes down the patient's back with alcohol wipe

PA applies hydrocortisone cream to the effected areas of the patient's back.

PA leaves the patient's exam room

MA continues to chart and save the document to the patient's profile

MA turns to patient to tell them they can get dressed and the PA will be back to go over results.

MA leaves the patient's exam room.

## **Work Model Reflection**

## Physical Model

The first model I chose to do was the Physical Model. I thought this model would be a good place to start because it would help me visualize the space in which all my observations and interviews occurred. By mapping out a blueprint of the Allergy and Asthma office I hoped to better understand the movement that occurs between the Patient and the Medical Assistant. Based on my research these two roles had the most interactions. An insight that this model revelated to me is that the Medical Assistant's guide the Patient through the office and there is not one point besides waiting in the exam room when the patient is not being guided by them. The Medical Assistant is also the first and last person the Patient sees for the duration of their visit once checked in. From this model I also noticed a physical insight based off the organization of each exam room. There is an air filter placed in between the computer station and the exam table in each room. The air filter is in the middle of where most of the interactions happen between the patient and medical assistant. Another insight is the positioning of the computer monitor to the exam table. The computer is mounted to the wall next to the exam table in each room rather than next to it. This poses a physical barrier when the medical assistant is charting data that the Patient is telling them. The Medical Assistant physically must turn away from the Patient to enter data into the computer. Overall, I think the Physical Model is extremely valuable especially when you have a small physical space where a lot of interactions occur. This model is great for understanding movement and how the physical space can impact the interactions people have.

### Collaboration Model

The next model I chose to create was the Collaboration Model. I thought this model would be helpful in understanding how each role in the practice communicates to help the Patient. During my interviews sessions I learned more about the technologies the practice uses and how there are certain communication expectations based on your individual role. From this data I thought this model would help to highlight how all these communication styles intertwine and the hierarchy behind them. The first insight from this model is that every person in this office is working to help the Patient. This may be obvious, but when thinking about how to lay out all the different roles I initially had the Patient at the bottom. I realized they should be in the middle because all the communication between the people working at this office is centered around a Patient. Another insight this model highlighted is the form of communication expected is directly impacted by the role of the person you are communicating with. Specifically, the head Doctor is never called over the phone, emailed, or texted by Medical

Assistants. It is expected that the sole form of communication is verbally in person. This is also expected for communicating with Physician's Assistants. The Medical Assistants however communicate with one another by any means necessary. They will call each other by phone, use a chat messenger, talk in person, email, and use sticky notes. The Physician's Assistant and Doctor rarely communicate, and if they do it is in person and it is the Physician Assistant getting an opinion or asking a question to the more experienced Doctor. This also brought up an insight about the software being used after the Patient visit is over. The only way to contact the Doctor after a visit is by phone. Whereas the Patient's Care Plan and data can be accessed in Athena Health, they do not rely on it as a channel of communication with the Doctor. Overall, I think this model is great to better understand an environment that has several roles at play to accomplish a goal or job. This model is valuable to understand the communication that goes on and can help uncover meaning that may not have been seen otherwise.

## Sequence Model

The last model I chose to create was the Sequence Model. I thought this model would help to highlight the communication, technology, and interactions when conducting a specific procedure. During my observations I found the allergy skin prick testing to be fascinating with how the Physician's Assistant and Medical Assistant work together to interpret, analyze, and record data. I thought this model would help to breakdown each of these interactions and the true intentions behind them. My first insight from this model is there are three different points where the same action occurs 78 times, and because of this quantity, efficiency and accuracy is a key factor. Also, tying into the previous Collaboration Model, the Medical Assistant is the recorder and the only person interacting with technology in this sequence. Whereas the Physician's Assistant is the one interpreting and analyzing the Patient's reactions and verbally communicating their findings. The Medical Assistant also used physical cues such as nodding, to communicate with the Physician's Assistant that they are ready for their next number sequence. Within the charting software, Summit, they are also hitting specific keys that add an auditory cue for the Physician's Assistant when they are done inputting a set of data. These two cues, physical and auditory aid in the efficiency of the recording by providing feedback to the person interpreting the results. The Physician's Assistant is solely looking at the Patients back, and the Medical Assistant is solely looking at a computer screen. The main insight here is even with their backs to each other they have developed a system to achieve documentation, even when the data set is a long sequence of numbers. This model is valuable to analyze a specific process that you may have observed. I think it showcases the value of each micro interaction between people by allowing someone to outline the steps it takes to do something. Overall, the Sequence Model is great to visually show processes and patterns can emerge.