

**Rocky Mountain University of Health Professions
Consent to Participate as a Research Subject**

The Effect of Anticipatory Coarticulation in Conjunction with Augmented Feedback
on Production of Final /r/ Words in People with Speech Sound Disorders

INVESTIGATOR:

Dawn Moore MA, CCC/SLP
Clin.Sc.D. student
Rocky Mountain University of Health Professions
Expressions Speech & Language Center
(336) 298-6665
dawnmoorestudy@gmail.com

RESEARCH STATEMENT

You are being asked to be in a research study. The purpose of this consent form is to give you information you will need to help you decide whether to be in the study or not. Please read the consent form very carefully. You may ask questions about the purpose of the research, what you will be asked to do, the possible risks and benefits, your rights as a volunteer, and anything else about the research or this consent form that is not clear. When all of your questions have been answered, you may decide whether you want to be in the study or not. This process is called 'informed consent.' You will receive a copy of this form for your records.

PURPOSE

This study is for people who have trouble producing the /r/ sound. In this study, we will use the word *red* to help say the /r/ words like 'air' and 'ear' correctly. The word *red* will be added to the end of each word where /r/ is the last sound. This is called coarticulation. Instructions, called feedback, will be used to help people correct the /r/ at the end of words. Examples of this feedback includes "Pull your tongue back" and "Make an eee sound." All sessions will be take place online where we will use a computer and video camera to see each other and work on /r/.

WHAT YOU WILL BE ASKED TO DO

To determine if you are eligible to participate, you will be asked some questions about your health history. If your responses indicate that you are eligible, you will be asked to participate in the training and testing portion of this study. If you are not eligible to participate, the information obtained from you during screening will be omitted from this study and shredded to protect your privacy.

NUMBER OF PEOPLE NEEDED

Four people will be recruited for this study.



The Effect of Anticipatory Coarticulation in Conjunction
with Augmented Feedback on Production of Final /r/ Words
in People with Speech Sound Disorders

Protocol # 171286-02
Page 1 of 7

TO BE ELIGIBLE

1. You must be 8 years of age or older.
2. English must be your primary language.
3. You have passed a hearing screening in the last 6 months and can show proof of hearing status.
4. Not currently in speech therapy at school or after school.
5. Have access to the Internet.
6. Have a computer with webcam or tablet that you can use every session.
7. Have a headset with a microphone that can plug into your computer or tablet.
8. Must live in North Carolina or Illinois as I am only licensed in these states.

STUDY LOCATION

This research study will be completed entirely online using a web platform. This is called *telepractice*. We will login and complete tests, screenings, and therapy online. It is strongly recommended that you login from home while participating in sessions online.

TASKS TO BE COMPLETED

Before participating in the study, you will be asked to do the following. You will be free not to answer any question that you do not wish to answer.

1. **TRAINING SESSION:** Attend an online training session for about 45 minutes. This may take more time if we encounter any technical difficulties. During this session you will learn how to get online using a company called Zoom.
 - a) You will learn how to locate and work the camera and turn up the volume.
 - b) You will learn where to put the computer or tablet for testing and therapy sessions.
 - c) You may need to raise or lower the placement of the device so the camera is level with your nose.
 - d) You will measure the distance from your nose to the camera to reach 20 inches using a tape measure. This measurement will be taken again during the pretesting session.
 - e) You will use the spoon side of a teaspoon (spoon side down) to push down the back of the tongue while saying 'ahh'. This is similar to using a tongue depressor at the doctor. This is done so I can see your tonsils. It will be completed again during the pretesting phase.
 - f) You will aim a flashlight at the back of the throat during this process.
2. **PRETESTING:** Attend an online session for pretesting for about 45 minutes. You will be asked to do the things listed below:
 - a) Set up the computer/tablet on the table or desk as previously discussed in the training session.



The Effect of Anticipatory Coarticulation in Conjunction
with Augmented Feedback on Production of Final /r/ Words
in People with Speech Sound Disorders

Protocol # 171286-02
Page 2 of 7

- b) Take a test of /r/ words. In this screening, you will be asked to repeat words with /r/ in the beginning of the word, middle of the word, and end of the word. This will confirm difficulty with /r/ and diagnosis of a speech sound disorder.
- c) Repeat a list of 70 words with /r/ at the beginning and receive a score of 70% or higher.
- d) Take a vocabulary test where you will be read a word and will select the picture that goes with that word out of 4 choices. You will need to receive a score in the average range to pass.
- e) Complete an oral examination which will include:
- f) How your jaw opens and closes.
 - i. The roof of your mouth (palate) will be examined for height of the arch and any other signs of differences outside of a normal palate.
 - ii. The range of motion of the tongue and how well you can move it in and out and wiggle it side to side.
 - iii. You will be asked to repeat the word 'kitty' until told to stop.
- g) You will put the spoon side of a teaspoon, spoon side down, on your tongue while you stick it out and say "ahh". You will use a flashlight to light up the inside of the mouth and lean forward into the camera. This will allow me to see your tonsils and their size. This observation will be judged using a tonsil rating scale. If your tonsils are too large, you will be excluded from the study.
- h) Measure distance from the nose to the camera to make sure it is 20 inches just like in the training session.
- i) Part of the oral exam will include opening your mouth as wide as you can. I will measure this on the screen. I will have you do this three times and then calculate an average. It is to determine your range of motion with your jaw.
- j) Then, you will open your mouth as wide as you can and touch your tongue right behind your top teeth. I will also measure this on the screen three times and an average calculated. This is to find out how your tongue moves with and without your jaw. It also looks at range of motion of your tongue because it is important for the /r/ sound.
- k) You will be asked to follow 5 different sample directions.

TASKS TO BE COMPLETED DURING THERAPY SESSIONS

You will be asked to do the following:

1. Record a 5-minute conversation about yourself and your therapy history. This will happen during the first therapy session and the last therapy session.
2. Work on your /r/ by repeating the words spoken by me. The word red will be added to the end of each /r/ word.
3. Listen to feedback and use it to help correct your /r/.
4. You will say 60 /r/ words + red during each session.
5. Have all sessions be video recorded.



The Effect of Anticipatory Coarticulation in Conjunction
with Augmented Feedback on Production of Final /r/ Words
in People with Speech Sound Disorders

Protocol # 171286-02
Page 3 of 7

TIME COMMITMENT

The study will last approximately 6 weeks.

- The first session will be a training session and will last approximately 45 minutes.
- The next session will be a pretesting session and will last approximately 45 minutes.
- You will attend sessions 3 times a week. The sessions will be online.
- The sessions will be 15-30 minutes.
- During the 3rd week and the 5th week, we may have to meet 5 times those week. I will let you know if we have to meet extra during those weeks.

If you are unable to keep your appointment due to illness or other problems, you need to notify me as soon as possible. The session will be rescheduled.

However, if you miss two scheduled appointments without contacting me you will be dropped from the study.

Because this is an investigation using telepractice (therapy on the computer), if you no longer have access to a computer, tablet, or the Internet, you will be dropped from the study.

WHAT IS EXPERIMENTAL IN THIS STUDY

None of the procedures used in this study is experimental in nature. The only experimental aspect of this study is the gathering of information for the purpose of analysis.

POTENTIAL RISKS, STRESS, OR DISCOMFORT

There are minimal risks to you from participation in this study.

Working on the /r/ sound requires a lot of tongue movement that you may not be used to and some people find this uncomfortable. If you feel any discomfort, please let me know. You may stop therapy at any time.

The recordings made during therapy will be used for data analysis. You will be given the opportunity to review the recordings and delete any portion you wish.

The risk of breach of confidentiality is minimized by not using your real name and by securing all files using a file cabinet or a password on the computer.

POTENTIAL BENEFITS

- The benefit to you from participation is the study will be the knowledge you receive about how to fix your /r/ sound.
- The /r/ sound is the hardest sound treated by speech-language pathologists and a common error. Your participation may help other speech-language pathologists learn techniques for fixing /r/ which they can use to help their clients.



The Effect of Anticipatory Coarticulation in Conjunction
with Augmented Feedback on Production of Final /r/ Words
in People with Speech Sound Disorders

Protocol # 171286-02
Page 4 of 7

- I cannot guarantee, however, that you will receive any benefits from participating in this study.

ALTERNATIVE METHODS OF TREATMENT

- The public schools are required to provide services under the Individuals with Disabilities Education Act (IDEA).
- If you are of school-age, you may qualify for speech therapy through the school district at no charge.
- You may also receive therapy from a private provider in your area, but there will be a charge for therapy.

CONFIDENTIALITY

- Strict confidentiality will be maintained. No information about you will be shared. Where possible, all identifying references will be removed and replaced by a fake name which is called a pseudonym.
- Participation in this research is voluntary and involves minimal loss of privacy. All recordings, therapy logs, and data to be used in computer analyses will have the pseudonym rather than your name.
- Your name will not be recorded on the information or reported in any scientific paper or professional meeting to protect your identity.
- All data will be reported in aggregate (as a group) at a professional meeting or in a scientific journal so that no one can identify any information about you.
- A code that identifies you will be kept confidential by the researchers and will be stored in a locked file cabinet. All other data pertaining to you and other subjects will be kept in a separate locked file in my home office. Only I will have access.
- Data that will be used for computer analyses will be stored on one password locked computer and only researchers involved in this study and representatives of the RMUoHP Institutional Review Board will have access to the records and information about this study.
- Personally identifiable data will not be disclosed to anyone other than the research team without the written consent of you or your legal representative. (Exceptions may be made in case of emergency need for intervention or as required by regulatory agencies or by law).
- All researchers, especially individuals who will code and score videotapes of testing sessions, will have extensive training in all confidentiality measures of this study.
- Recordings will be kept on the same password protected computer indefinitely and may be used for educational purposes by the researchers.
- The identifying code (your pseudonym) will be destroyed at the completion of the study. All original hardcopy data will be shredded or erased three (3) years after the completion of the study.



The Effect of Anticipatory Coarticulation in Conjunction
with Augmented Feedback on Production of Final /r/ Words
in People with Speech Sound Disorders

Protocol # 171286-02
Page 5 of 7

COSTS AND/OR COMPENSATION FOR PARTICIPATION

If you have had a hearing test within the last 6 months, there will be no cost incurred by you to participate in this study. However, if you need a hearing screening, you may need to pay for this screening through your doctor.

While you will not be paid to be in this study, you will be provided free speech therapy services.

QUESTIONS ABOUT THIS STUDY

If you have any questions about the research now, please ask. If you have questions later about the research, you may contact me at (336) 380-6966 or dawnmoorestudy@gmail.com.

If you have questions regarding your rights as a human subject and participant in this study, you may call the Institutional Review Board at Rocky Mountain University of Health Professions. The telephone number of the IRB is (443) 926-6243.

You may also write to the committee at: Institutional Review Board, Rocky Mountain University of Health Professions (irb@rmuohp.edu) or fax 801-734-6771.

VOLUNTARY NATURE OF PARTICIPATION

Participation in this study is voluntary. Your choice of whether or not to participate will not influence your future relations with Rocky Mountain University of Health Professions.

If you decide to participate, you are free to withdraw your consent and to stop your participation at any time without penalty or loss of benefits to which you are allowed.

CONSENT TO PARTICIPATE

The Institutional Review Board Committee at Rocky Mountain University of Health Professions has approved this consent form as signified by the Committee’s stamp. This consent form must be reviewed at least once every year. The expiration date is indicated on the approval stamp.

Printed name of Investigator Date Signature of Investigator Date



The Effect of Anticipatory Coarticulation in Conjunction
with Augmented Feedback on Production of Final /r/ Words
in People with Speech Sound Disorders

Protocol # 171286-02
Page 6 of 7

SUBJECT'S STATEMENT

“This study has been explained to me. I volunteer to take part in this research. I have had a chance to ask questions. If I have questions later about the research, I can ask one of the researchers listed above. If I have questions about my rights as a research subject, I can call the Rocky Mountain University of Health Professions Institutional Review Board Committee at (443) 926-6243. My signature also indicates that I can change my mind and withdraw my consent to participate at any time without penalty. I will receive a copy of this consent form.”

Please initial the appropriate line.

_____ I agree to be recorded on the therapy platform Zoom for this study and for these recordings to be used for future training of other speech therapists. A pseudonym will be used in all recordings.

_____ I agree to be recorded on the therapy platform Zoom for study purposes only.

_____ I agree to be recorded on the therapy platform Zoom for this study and for these recordings to be used for future training of other speech therapists but require that my face be masked.

Printed name of Participant

Date

Signature of Participant

Date



The Effect of Anticipatory Coarticulation in Conjunction with Augmented Feedback on Production of Final /r/ Words in People with Speech Sound Disorders

Protocol # 171286-02
Page 7 of 7