

## **Supplemental Online Material**

### **For: War's Enduring Effects on the Development of Egalitarian Motivations and In-group Biases**

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#### **Experimental instructions**

##### **Georgia (site #1)**

##### **Greeting and introductory instructions for the group**

Hello everybody! My name is Irakli. And this is Maka and Roman.

First of all, thanks a lot for letting us come to your kindergarten/school today. It's really nice to be here. Today we're going to play some games with each one of you. During the games you can earn tokens. You can then use these tokens to buy some items such as pencils, erasers, stickers, sweets and small toys which you can keep. The items are from the University of San Francisco.

Here we have a bag with cards from the "memory" game. Each card has a number and an animal or fruit on it. Maka is going to come by and you can pick a card. One after the other, you can come into the room next door and play the game with us. Roman will call out an animal [*and number if children already know them*] and when you hear the name of the animal which is on your memory card it's your turn to play. Roman will take you to play the games. When you're done playing, you can go back into

the class and continue drawing [*or whatever the children are doing at that moment*]. It's really important to us that you don't talk about the game until all the kids have played. We really want you to follow this rule!

*The assistant calls out the next animal/number. The child gets a paperbag from the experimenter and they write the child's name on it. At the end of each game the child puts the tokens which have been acquired into this paperbag. This ensures that the other children who have not yet played the games do not know what is in the paperbag when the child goes back into the class. At the end, each child goes to the “shop” and puts the prizes in her/his paperbag.*

## **Individual game script for children - costless Sharing game**

### **1. Short introduction**

Hi! I'm Maka / Irakli / Maka.

What's your name? Please write it on this paperbag (*write it instead of the child in the case of small children who cannot write*).

Do you like kindergarten/school?

*(Measure the height of the child and report it in the answer-sheet.)*

Before we start with the games, you will get one token - the same as you will earn during the games. (*Give the child one token.*) Now we will go to our “shop” and I will show you what is there that you can buy with the tokens you will have gained during the games. (*Go to the shop.*) For each token you can buy one item from the “shop”. (*After the child chooses one item, he/she goes back and starts to play the games.*)

Now we're going to play some games. Let us begin right now.

## **2. Explanation of the game (in-group treatment)**

There is a photo on the screen of this laptop. Do you recognize the photo?

*(Check that the child recognizes the photo of her/his class. If the child does not recognize the photo, tick the box in the answer-sheet.)*

Yeah, that's right, that's your class photo!

Now I see that you wrote your name on this paperbag *(in the case of small children who cannot write:*

*Now I see that your name is written on this paperbag.)*. We will also make a paperbag ready for a child from your class, but we both do not know the name of the child. We only know that it is a child from your kindergarten/school class.

*(Make paperbag ready)*

### **Game A (here the Sharing game)**

Okay! Now we have two cardboards. On each cardboard there are two circles with arrows. One arrow points to the laptop with the photo, the other arrow points to you.

On the first cardboard *(move the cardboard in front of the child)* I now put one token on the circle that is closer to the photo *(put the token there)* and I put another token on the circle that is closer to you.

On the second cardboard *(move the other cardboard in front of the child)* I put two tokens on the circle that is closer to you. The second circle, which is next to the photo, stays empty.

Now your task is to choose one of the two cardboards. If you choose this cardboard *(move the first cardboard to the child)*, you receive the token in this circle *(i.e., the circle closer to the child)* from which the arrow points to you. The other arrow on this cardboard points to the photo, so this means that

the token in this circle (*i.e., the circle that is closer to the photo*) goes to a kid from your kindergarten/school class. If you choose this cardboard we will give this token to one of the children from you class later today.

If you choose this cardboard, (*move the second cardboard in front of the child*) then you get two tokens and the kid from your kindergarten/school class gets no tokens. (*Show the child which circle/tokens we are talking about and where it goes.*)

### **3. Questions to check the children's comprehension of the payoff implications of different choices.**

If you choose the first cardboard, what does another child in your kindergarten/school class get? (*child answers*)

What do you get when you choose this cardboard? (*child answers*)

*If the child has problems answering the control questions, explain the rules again and ask additional "comprehension questions" regarding the implication of this choice for the allocation of payoffs. Once the child answers the questions correctly move on:*

What does the other kid from your kindergarten/school class get if you choose the other cardboard?

What do you get if you choose the other cardboard?

*If the child has problems answering these questions explain the payoff implications of choosing "the other cardboard" again and ask further comprehension questions.*

*If the child has still problems to answer the second set of comprehension questions play the games with her/him but tick the box in the answer-sheet.*

*Finally, before we play the game ask the following:*

Do you have any questions? ...

Alright, now you can choose a cardboard.

*Tick in the answer-sheet which of the two options the child chose.*

*Tick in the answer-sheet how many seconds it took the child to decide.*

*Once the child has chosen a cardboard say:*

OK, then the other kid from your kindergarten/school class gets one (or zero, depending on the child's choice) token and you get one token (or two tokens, depending on the child's choice). Put tokens in the child's paperbag and the other child's paperbag.

*After this ask the child: Why did you choose this cardboard?*

*Record the answer (in English) in the answer-sheet.*

#### **4. After all four games have been completed**

OK, you have X tokens. The other kid has Y tokens. Do you think the other kid is happy?

*Record the answer (in English) in the answer-sheet.*

Do you think he or she would have been happier if you had chosen differently?

*Record the answer (in English) in the answer-sheet.*

## **5. Saying good-bye**

OK, we're done with the games. Thanks a lot for playing with us! You did a super job! The assistant will now take you to the shop so you can buy your prizes!

Now you can go back into class to Mrs. X. Please remember not to talk to the others about the game until all the kids have played. That's really important for us! Thanks!

Bye-bye!

## **Sierra Leone (site #2)**

### **1. Greeting and introductory instructions for the group**

Hi! Thank you for being here today!

Let's start by introducing our research team. We are researchers from the University of San Francisco (USA). If, at any point in the future, you'd like to contact us or know more about this study, feel free to contact the principal and the teacher of this school. They will have our phone numbers and contact information. The main researcher responsible for this study is Alessandra Cassar (Email: [acassar@usfca.edu](mailto:acassar@usfca.edu)).

Thank you for agreeing to participate in this study that concerns the economics of decision making. Your participation in this study is voluntary. However, we think you will find this interesting. You could make a considerable amount of additional money in addition to the participation fee you are about to receive. The amount of money that you will go home with depends partly on your choices in the activities that follow and partly on luck. You should understand that this is not our own money. It is money given to us by our university to use to do a research study. This study may take about three hours, so if you think you will not be able to stay that long without leaving please let us know now.

Before we proceed any further, let me stress something that is very important. Many of you were invited here without understanding very much about what we are planning to do today. If at any time you find that this is something that you do not wish to participate in for any reason, you are of course free to leave whether we have started the task or not and the initial fee is yours to keep.

If you have heard about a task that has been done here in the past you should try to forget everything that you have been told. This is a completely different task. We are about to begin the task. It is important that you listen as carefully as possible, because only people who understand the task will

actually be able to participate in it. We will run through many examples. To be sure that you understand how to do it, each of you will have a chance to ask questions by raising your hand.

This study will consist of several activities and a final survey. For each of the activities you will be asked to make one decision. At the end, we will randomly select one of these tasks to be the one that is actually paid. We will select it by having one of you point to one of different folded pieces of paper that will have the letter of the task chosen inside it. After the task that will be paid is chosen, we will ask you to participate in the survey. At the end, we will ask you to step aside for a moment and then call you back in, one at a time, to pay you in private.

You will be given 5,000 SLL for your participation. This money is to thank you for your help and to compensate you for the time you will spend here today. This money will be given to you at the end of all the activities and the survey. But you must understand that this money is yours regardless of your actions during the activities. Through the activities you will be able to earn additional money, how much depends on your actions and on luck. But the 5,000 SLL for your participation will not be taken away from you, even if you leave before the end.

It is very important that you follow a few simple rules: you cannot talk to each other during the activities, because your decisions have to be completely private and individual; you cannot leave the room during the activities; and you cannot use your mobile phone. If you break any of these rules we will have to ask you to leave, and you will receive only your participation fee. If you break the rules, and in particular if you talk to each other during the activities, you will not receive any additional money. Please turn off your mobile phones now.

You will be given instructions and practice opportunities for the tasks. The instructions are simple and you will benefit from following them carefully.



In order for this study to be carried out correctly, we really need you to not talk about the task while we are here together. This is very important and please be sure that you obey this rule, because it is possible for one person to spoil the task for everyone, in which case we would not be able to continue with the study. Do not worry if you do not completely understand the task as we go through the examples here in the group.

In addition, it is very important that you don't tell for the next 4 days anything to anybody (not your wife, husband, sister, friend, children) what you were asked to do. This will spoil the study for somebody else that could participate after you.

Thank you for participation!

*(If it is a problem: Please make sure your mobile phones are turned off to avoid interruptions during the meeting!)*

## **2. Explanation of the game**

In-group treatment: For each task that you will perform today, you will be asked to allocate money between yourself and another person that lives in your village. You do not know the name of this person. We do not know it either right now. We both only know that it is going to be an adult from your village.

[Or out-group treatment: Here is a list of villages. Your village is \_\_\_\_\_ (point to the name of the village). The other villages listed here are all different villages very distant from here. For each task that you will perform today, you will be asked to allocate money between yourself and another person that lives in a very distant village. You do not know the name of this person. We do not know it either right now. We both only know that it is going to be an adult from a village located far away from here.]

*Experiment assistant writes participant IDs on envelopes and distributes them to participants as they arrive. After all participants are seated with their envelopes, experiment assistant passes around*

*decision sheets to all participants one task at a time. After the end of each task, folding a decision sheet and placing it in the envelope is demonstrated. Experiment assistant ensures all decision sheets have in fact been placed in the envelopes. At the end of all tasks, experiment assistant collects envelopes from all participants before the randomly choosing of the task which the earnings will be based on.*

We will pass around decision sheets for each task. After you are done making your decision for each task, you will need to fold the sheet with your choice and place it in the envelope we provided (*demonstrate*). Please do not make your decision until I have completed the explanation of the task.

### **Game C (here the Sharing game)**

*Experiment assistant passes around the decision sheets for task C.*

*Experimenter holds up a big size reproduction of the decision sheets and illustrates.*

There is a big letter C on the top right corner of the sheets. This is the name of this task, task C. Each decision sheet contains two circles with arrows. One arrow points to the word SEND and the other arrow points to the word KEEP. Each token on the sheet will be exchanged for 500 Leones.

On this sheet there are depicted 10 tokens on the circle that points to SEND and there are another 10 tokens on the circle that points to the word KEEP. On thesecond sheetthere are depicted 5 tokens on the circle that points to SEND and there are 15 tokens on the circle that points to the word KEEP.

Now your task is to choose one of the two decisions. If you choose the decisionon the first sheetyou receive the 10 tokens shown in the circle from which the arrow points to KEEP. The other arrow on this decision points to SEND, so this means that the 10 tokens in this circle will go to a person from your village. If you choose this decision we will give these tokens to one of the adults from your village later today. If you choose the secondsheet, then you get 15 tokens and the person from your village gets 5 tokens.

Your choice will remain anonymous. After you decide, fold the decision sheet with your choice and put it in the envelope provided. Fold the other sheet and leave it in your box. *Experimenter demonstrates this and repeats what choosing each decision sheet means. After the subjects make their choice, experiment assistant collects all the folded sheets that were not placed in the envelope, shuffles them around in front of participants at the end of collection, and counts them to ensure that everyone inserted one sheet in the envelope.*

If this is the task that gets randomly selected at the end of the session, you will be paid according to this choice that you are about to make.

### **3. Questions to check the subject's comprehension of the payoff implications of different choices.**

If you choose the decision on this sheet, what does another person in your village get? *(subject answers)*

What do you get when you choose the decision on this sheet? *(subject answers)*

*If the subject has problems answering the control questions, explain the rules again and ask additional "comprehension questions" regarding the implication of this choice for the allocation of payoffs. Once the subject answers the questions correctly move on:*

What does the other person from your village get if you choose the other decision?

What do you get if you choose the other decision?

*If the subject has problems answering these questions explain the payoff implications of choosing "the other sheet" again and ask further comprehension questions. If the subject has still problems to answer*

*the second set of comprehension questions play the games with her/him but tick the box in the answer-sheet.*

*Finally, before we play the game ask the following:*

Do you have any questions? ...

Alright, now you can choose a decision. I will turn my back so you can make your choice in private.