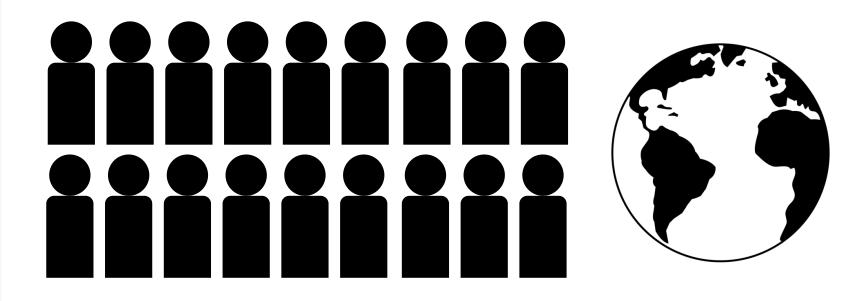
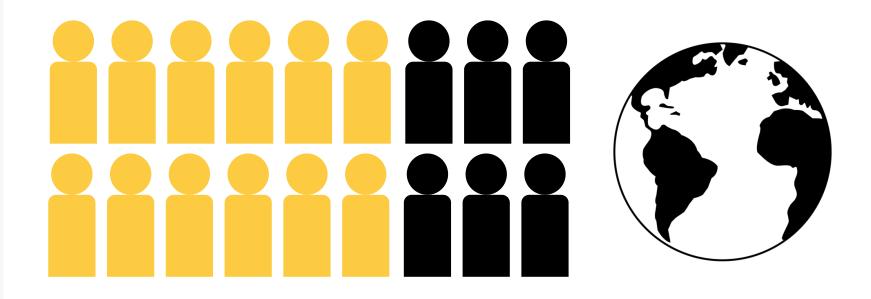


### 30 Million People Worldwide are Affected by Alzheimer's



#### % of Those People Live in Developing Countries





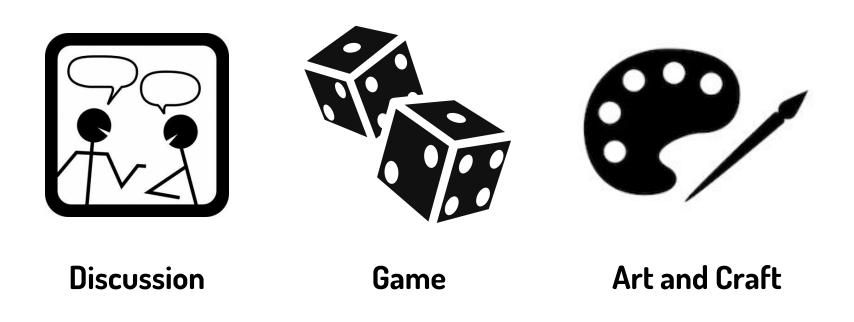
To incorporate participant's childhood games into the Memory Club Program; to decrease anxiety and enhance their quality of life by improving their overall cognitive function.

### Goal

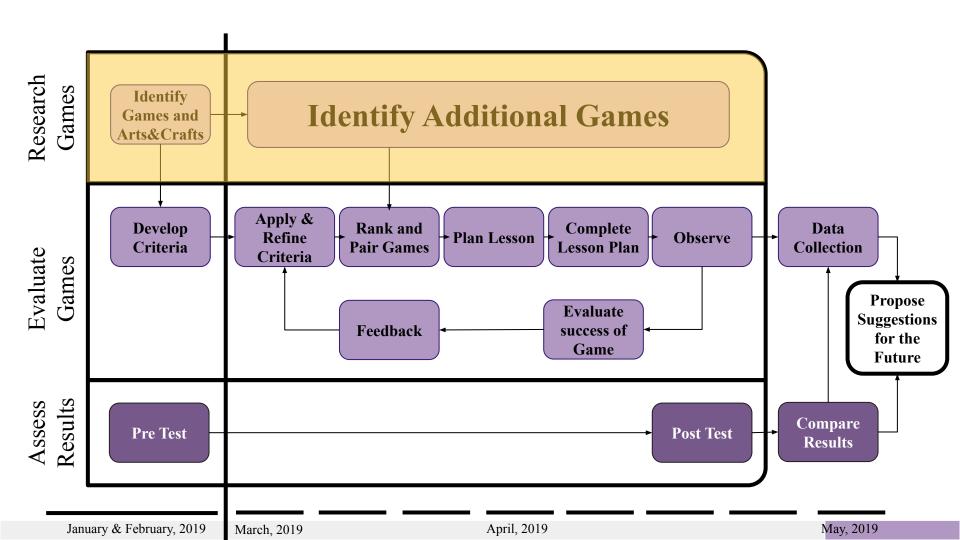


The Memory Club

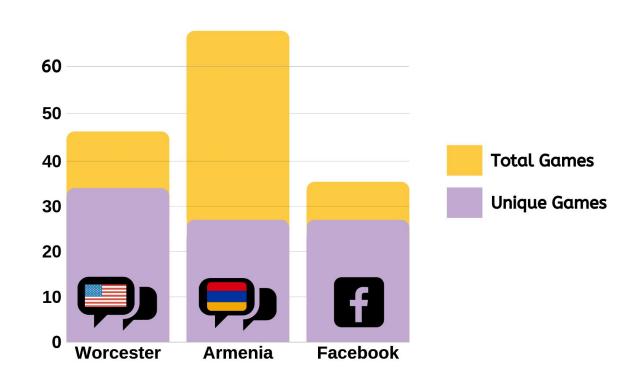
# The Memory Club is a program for elderly people who experience memory loss issues

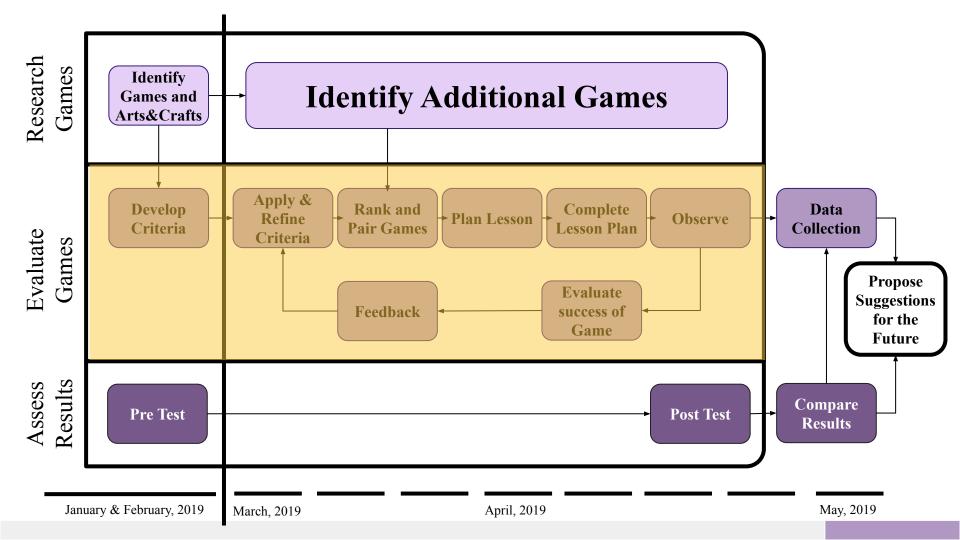




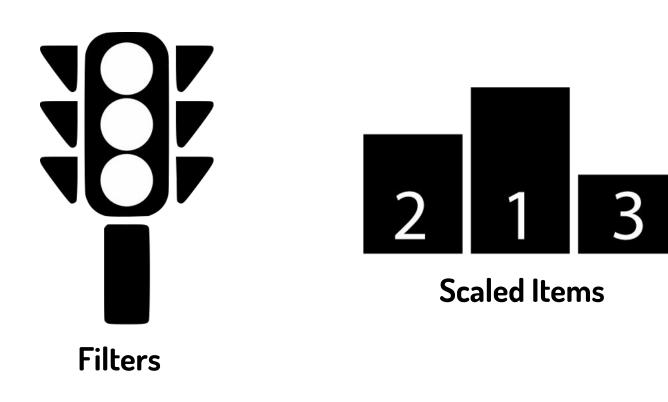


### Community Outreach was the Most Successful Way to Identify Armenian Games

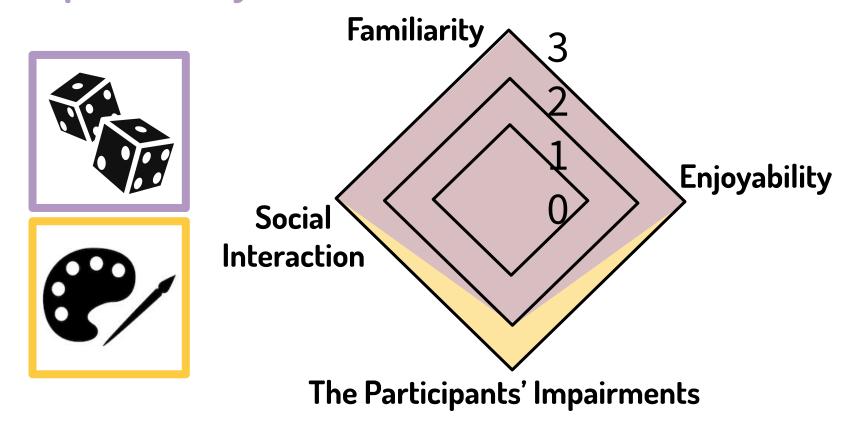




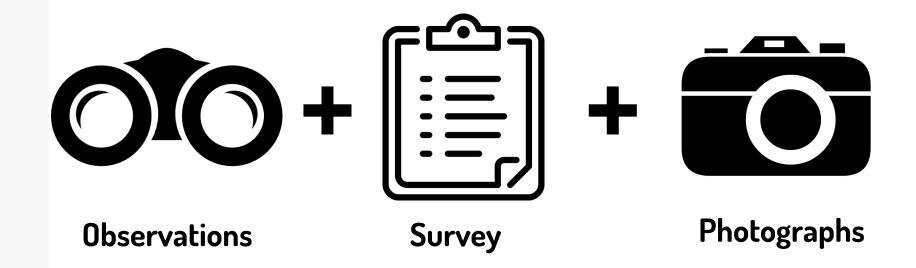
### Games that Passed Through the Filters Were Ranked Using the Scaled Items

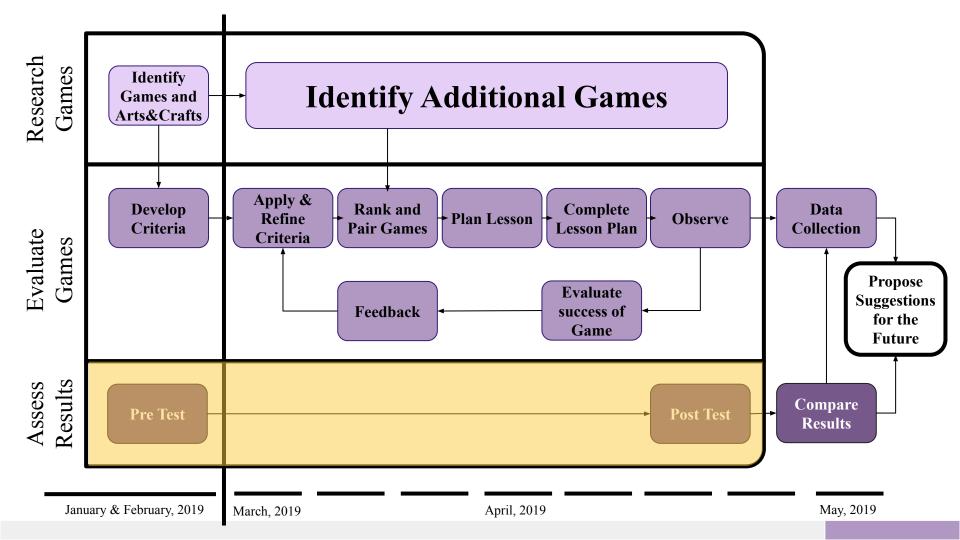


### Games Were Paired with Arts and Crafts in a Complementary Fashion to Maximize Benefits

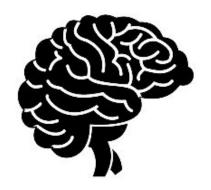


#### Data was Collected Using Three Different Methods





### Changes in Cognitive Function and Anxiety Were Measured By Two Standardized Assessments



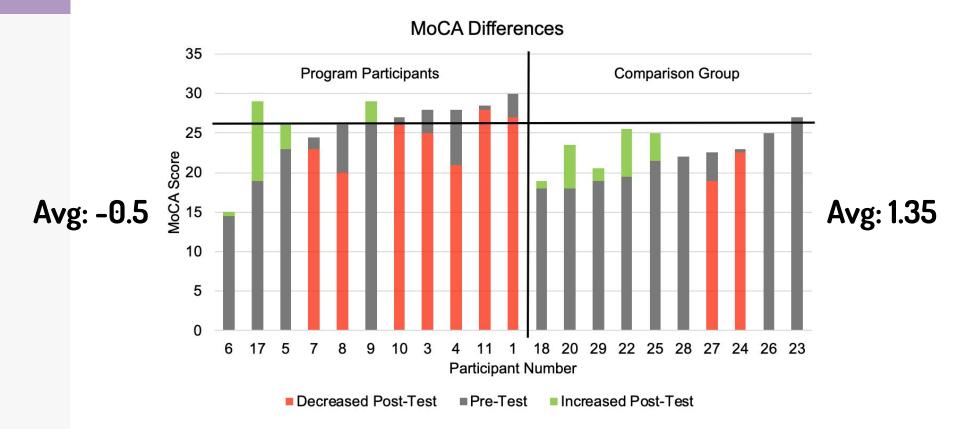
Montreal Cognitive Assessment (MoCA)



Geriatric Anxiety
Scale 10 Item
(GAS-10)



### Results of the MoCA Test Were Opposite the Predicted Outcome



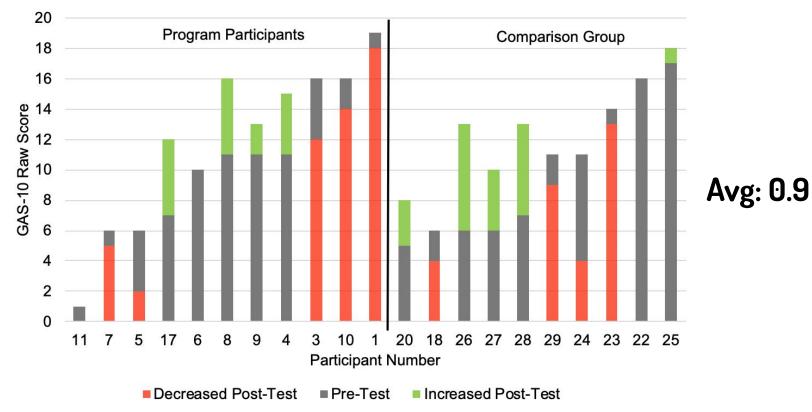
### Several Factors Contribute to Unreliable MoCA Test Data



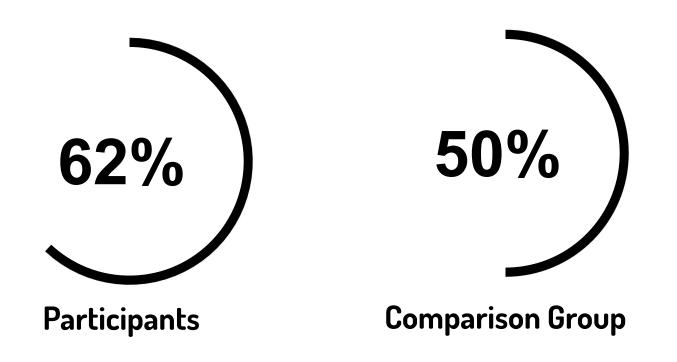
Avg: -1

#### The Results of the GAS-10 Were as Expected





### Participants of the Memory Club Had A Larger Reduction in Anxiety than the Comparison Group



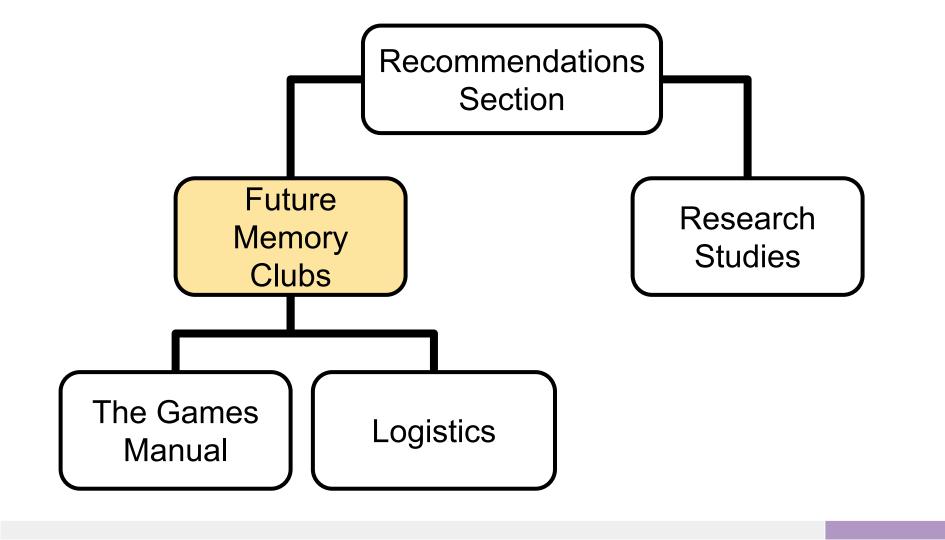


Findings, Conclusions, & Recommendations

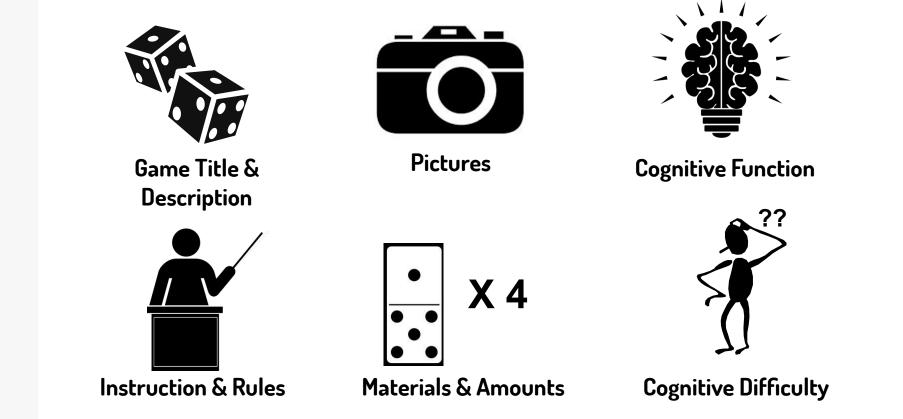
### The Memory Club Was a Success Despite Scoring Challenges







### The Games Manual Condenses All of Our Findings and Recommendations into One Location



## Successful Games Have Two General Traits: Competitive and Familiar

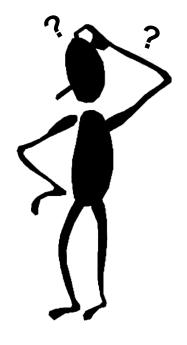


**Familiar** 



Competitive

### Unsuccessful Games Have Two General Traits: Not Familiar and Too Complex



**Unfamiliar** 



Too Complex

# Checkers, Lotto, Dominoes, Broken Telephone, Hidden Figures, Zelena, and Puzzles Should be Implemented

Staple Games	Backup Games	Unsuccessful Games
<ol> <li>Lotto</li> <li>Checkers</li> <li>Dominoes</li> <li>Zelena</li> <li>Jigsaw</li> <li>Puzzles</li> </ol>	<ol> <li>Halamola         (Hidden         Figures)</li> <li>Broken         Telephone</li> </ol>	<ol> <li>Concentration</li> <li>Backgammon</li> <li>Tag Saruh</li> </ol>

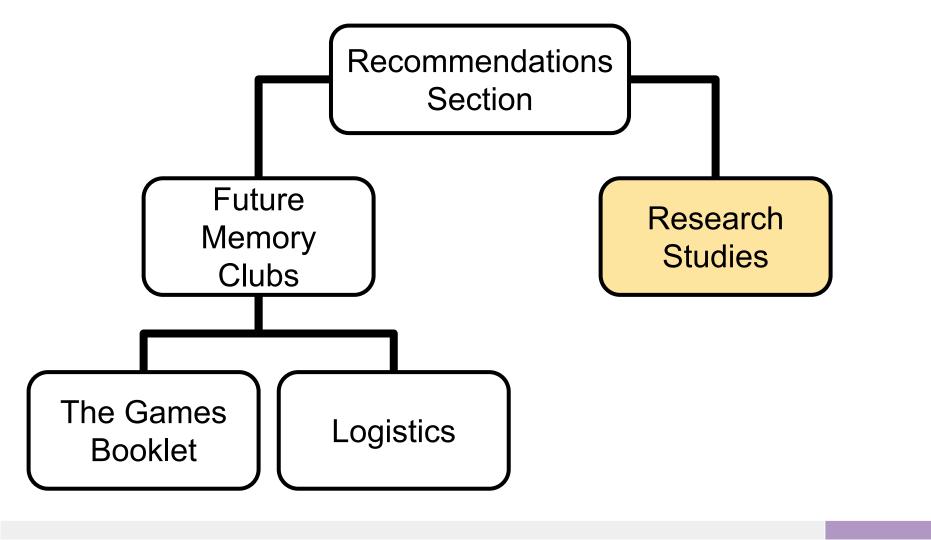
### Aspects of the Program To Be Included in Future Memory Clubs



Structure of the Program

Games Available at the Facility

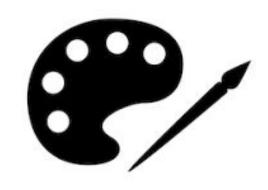
**Volunteer Program** 



### Changes Should be Made for Future Research Studies of the Memory Club



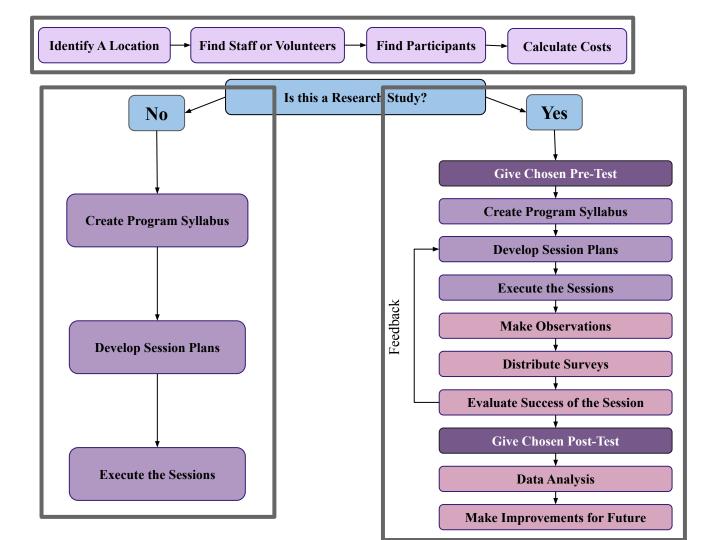
Minimal Social Interaction



Elimination of other Memory Club Elements



**Standardized Scoring** 



### Thank You to All Who Supported Us Along the Way!



WPI



Armine Hovannisian
Hasmik Jinanyan
Arevik Antonyan
Orran Staff

Michael Aghajanian Holly Ault Paula Quinn Dr. Jane Mahakian

