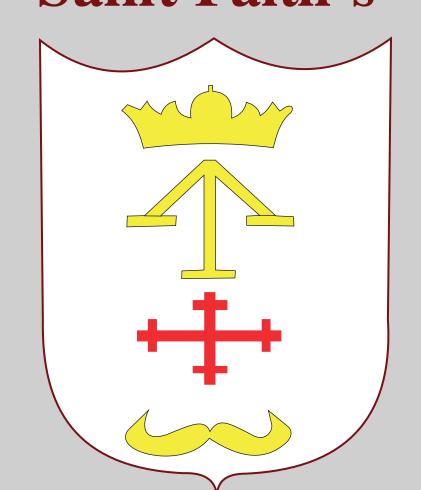
# Saint Faith's



Faith and Fidelity \_\_\_\_

# ST FAITHS HIGH SCHOOL

SCIENCE TEAM PRESENTS GENOMIC MEDICINE RESEARCH



THE PREVALENCE OF MENTAL ILLNESS IN MADETERE COMMUNITTY AND POTENTIAL GENETIC BASIS OF THE DISEASE





### Question **And Objectives**

Q1. What Is the mental Disease Q2 Are there any Genetic Risk Markers

#### **OBJECTIVES**

\*Administer a Mental Health Questionaire to Randomly Selected 50 Indiviuals \*Collect Blood Samples From Individuals

\*Carry Out Family History Analysis



### **Literature Review**



#### Schizophrenia

\*Chronic and severe mental disorder that affects how a person thinks, feels, and behaves

#### Bipolar Disorder

\*This is Characterized by mood swings between high energy activity(known as mania or hypomania) and feelings of sadness or depression, lasting for days ,weeks or months at a time

#### **Genetic Markers**

\*A readily recognizable genetic trait ,gene. DNA segment or gene product used for identification especially when closely linked to a trait.



### Hypothesis(es)

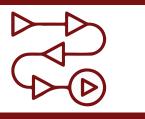


Ho: There are no genetic risk markers for mental health at population level and affected families (alternative causes CMV, Toxoplasma-Gondii, HSV).

H<sub>1</sub>: Currently known genetic markers for risk of mental disease are present in the Madetere community and can explain disease prevalence in some afflicted families.



## Procedures 😓



\*Inclusion and exclusion criteria \*Data Collections

\*Blood Sample Collections \*Genotype analysis

\*Data analysis



### **Materials**



\*Blood Collection Tubes

- \*Needles
- \*Gel Packs
- \*Cotton Wool
- \*Methylited Spirit
- \*Syringes
- \*Gloves







Resolution to false beliefs eg. blaming witchcraft

\*Possible Abortions can be done under necessary and definite conditions



### CONCLUSION

With the data at hand we concluded that the prevalence of mental illness in Madetere community can possibly be hereditary and it can be identified by the known genetic risk marker **rs2535629**. In that regard we therefore reject the null hypothesis H<sub>o</sub>

### 06 VARIABLES

Population approximately: 1000

- Sample Questionnaire \*50 random people
- \*2 Sample Families
- \*2 Control Families





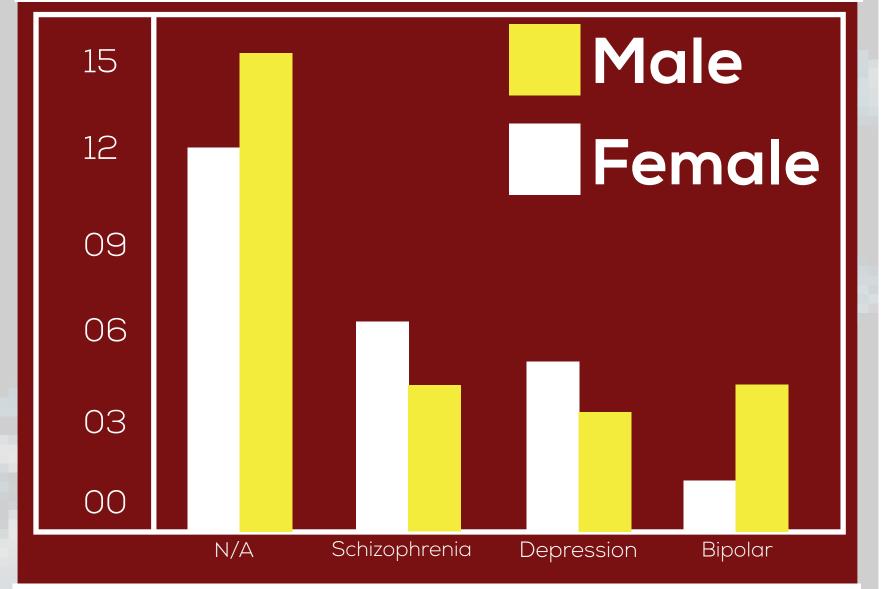


DISEASE	N/A	Schizophrenia	Depression	Bipolar
MALES	15	4	3	4
FEMALES	12	6	5	1

Main Source : Interviews & Questionnaires

### **GRAPHS**





### 09 DATA ANALYSIS



\*Some affected people were still in denial. \*Some provided false info judging from their medical history provided by local clinics \*Most data is based on interviews



### **RESULTS**



As suspected some of the people showed signs and symptoms of mental illness and generations of the sample family are affected too (see pamphlet)