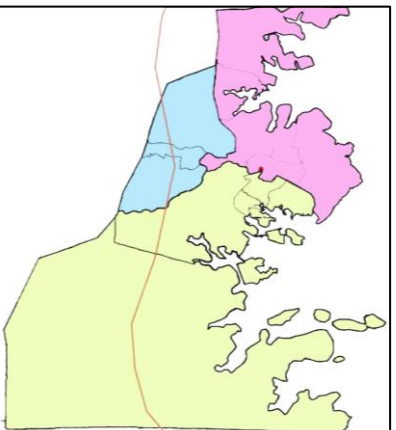
The 3rd ICMSc 2021

FMIPA UNMUL

International Conference On Mathematics And Sciences

Attitudes towards COVID-19 vaccines to support the achievement of government targets: A case study of Bontang city

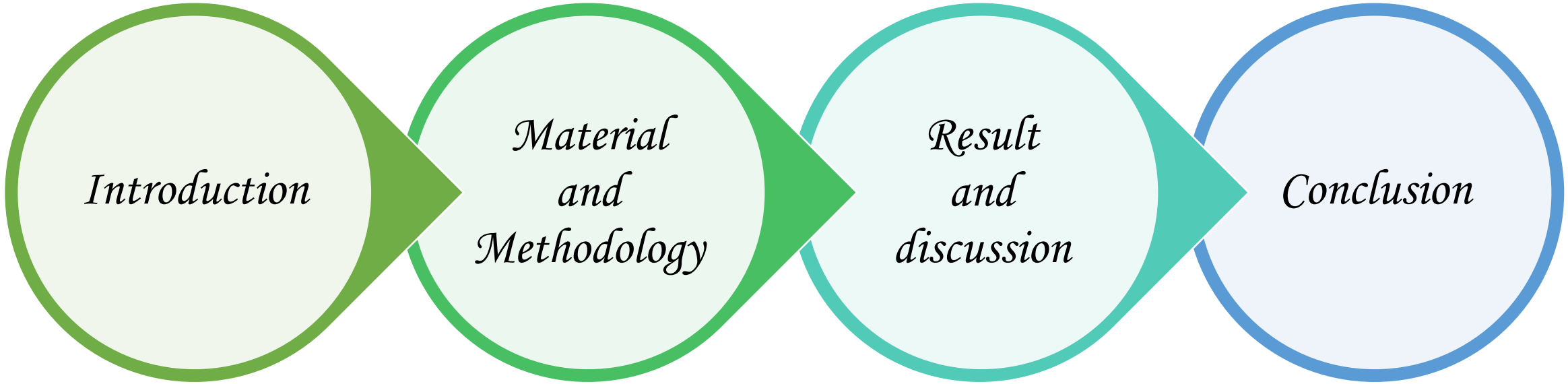


TEAM: *Darnah Andi Nohe*
Suyitno
M. Fathurahman
Memi Nor Hayati
Rito Goejantoro

Faculty of Mathematics and Natural Sciences Mulawarman University

October 12th & 13th 2021

OUTLINE


Introduction
Material and Methodology
Result and discussion
Conclusion

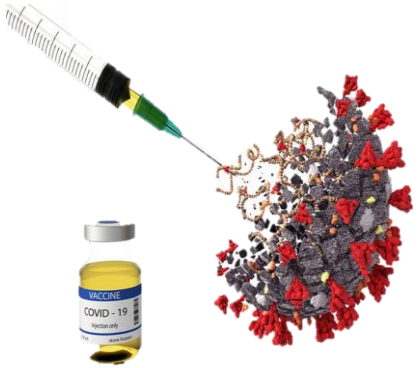
INTRODUCTION

The world's shared plan to end extreme poverty, reduce inequality, and protect the planet by 2030.

COVID-19 pandemic is a challenge for SDGS to achievement their goals.

INTRODUCTION

The vaccination program launched by the Indonesian government is the fastest and best solution to overcome the COVID-19 pandemic.



The government targets to vaccinate 70% of the total population in Indonesia.

The public unwillingness to receive COVID-19 vaccinations in the Bontang city.

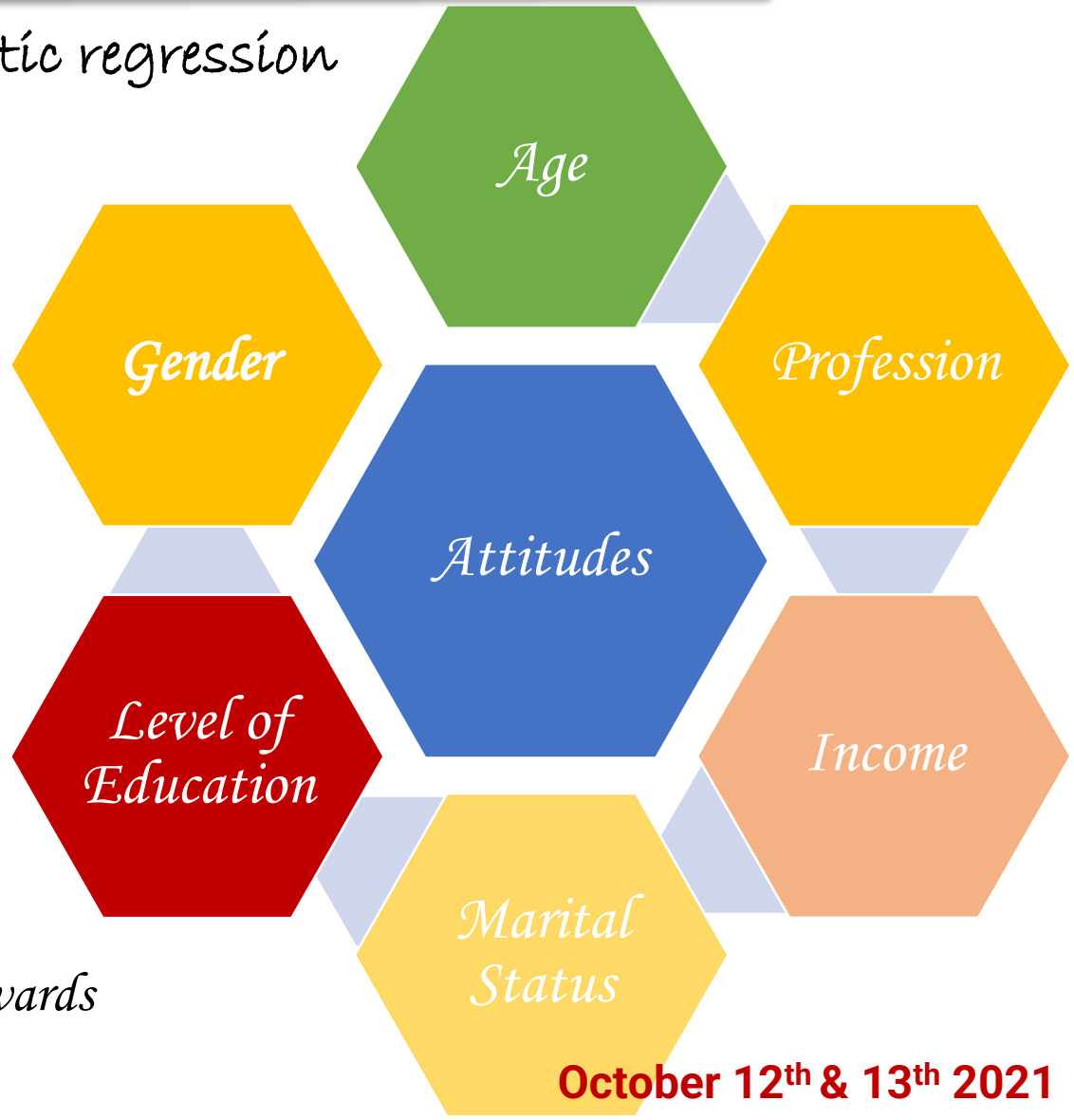
We estimate predictors of six of domains of unwillingness to receive COVID-19 vaccinations or negative attitudes towards COVID-19 vaccines in the Bontang city using binary logistic regression.

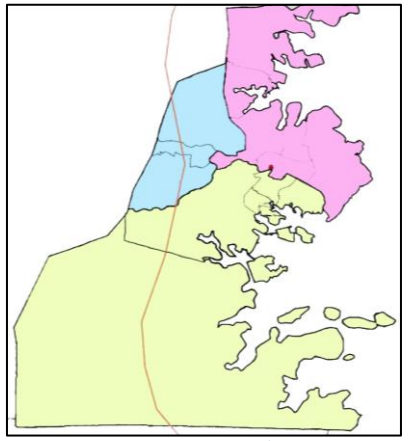
MATERIAL AND METHODOLOGY

The 3rd ICMSc 2021

The data from Darnah, Hayati, & Roy, were collaborated with Research and Development Agency Bontang City, 2021.

Binary logistic regression





Bontang City

A cross sectional study.

Sample: 500 participants

The sample size has been determined based on the Slovin's formula.

We were analyzed factors significantly affect on the Attitudes towards COVID-19 vaccines in the Bontang city

October 12th & 13th 2021

MATERIAL AND METHODOLOGY

Research Variables

Gender.

1: Male;
2: Female

Age.

1: <17 years
2. 17-25 years
3. 26-35 years
4. 36-45 years
5. 46-55 years
6. >55 years.

Profession

1. Lecturer & Teacher
2. Government Employee
3. Trader
4. Farmer
5. Fisherman.
6. Employee
7. BUMN/BUMD Employee
8. Honorary Employee
7. Laborer
8. Doctor etc.
9. Enterpreneur.
10. Others.

Attitudes towards COVID-19 vaccines in the Bontang city.

1: Unwill.
0: Agree.

Income

1. ≤ 0.5 million IDR
2. 0.6-2 million IDR
3. 3.5 million IDR
4. 6-5 million IDR
5. >5 million IDR

Marital Status

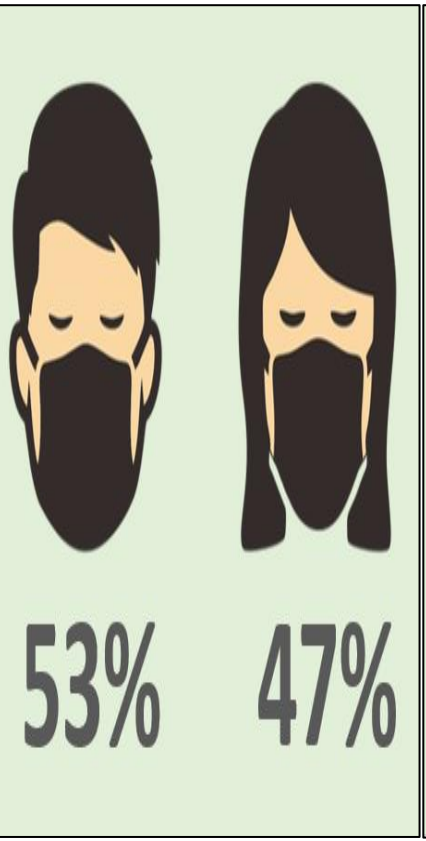
1. Married
2. Single
3. Divorce
4. Death Divorce

Level of Education

1. Elementary School
2. Junior High School
3. Senior High Scool
4. University

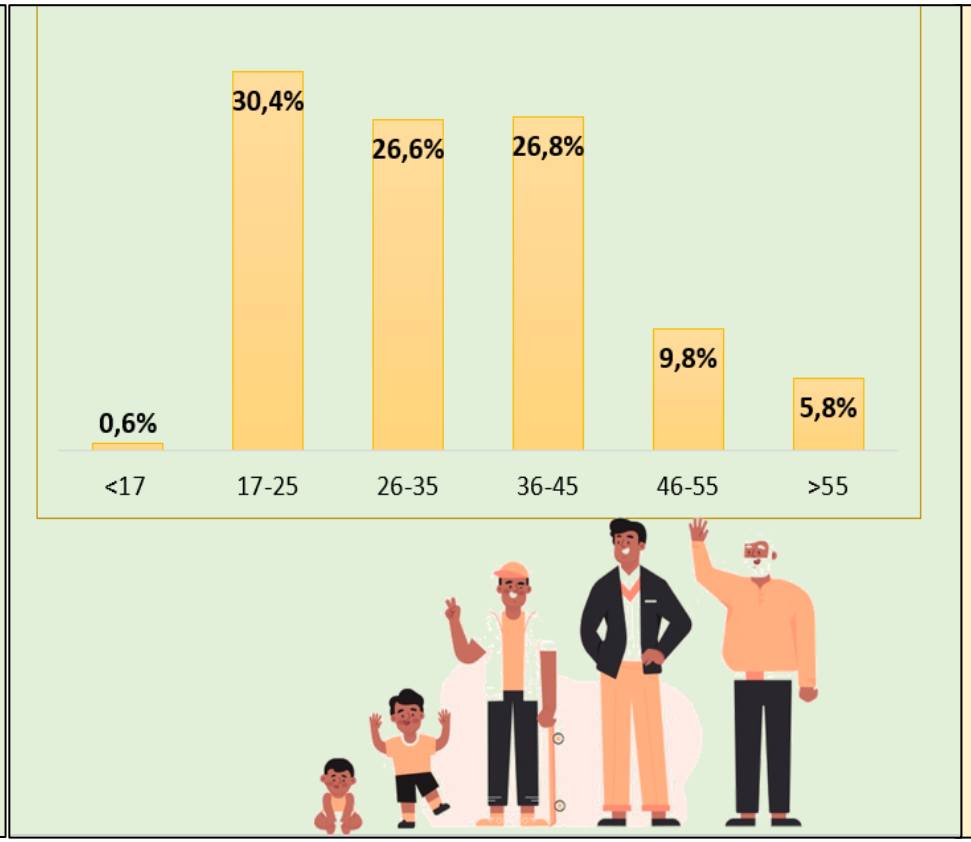
RESULT AND DISCUSSION

Gender



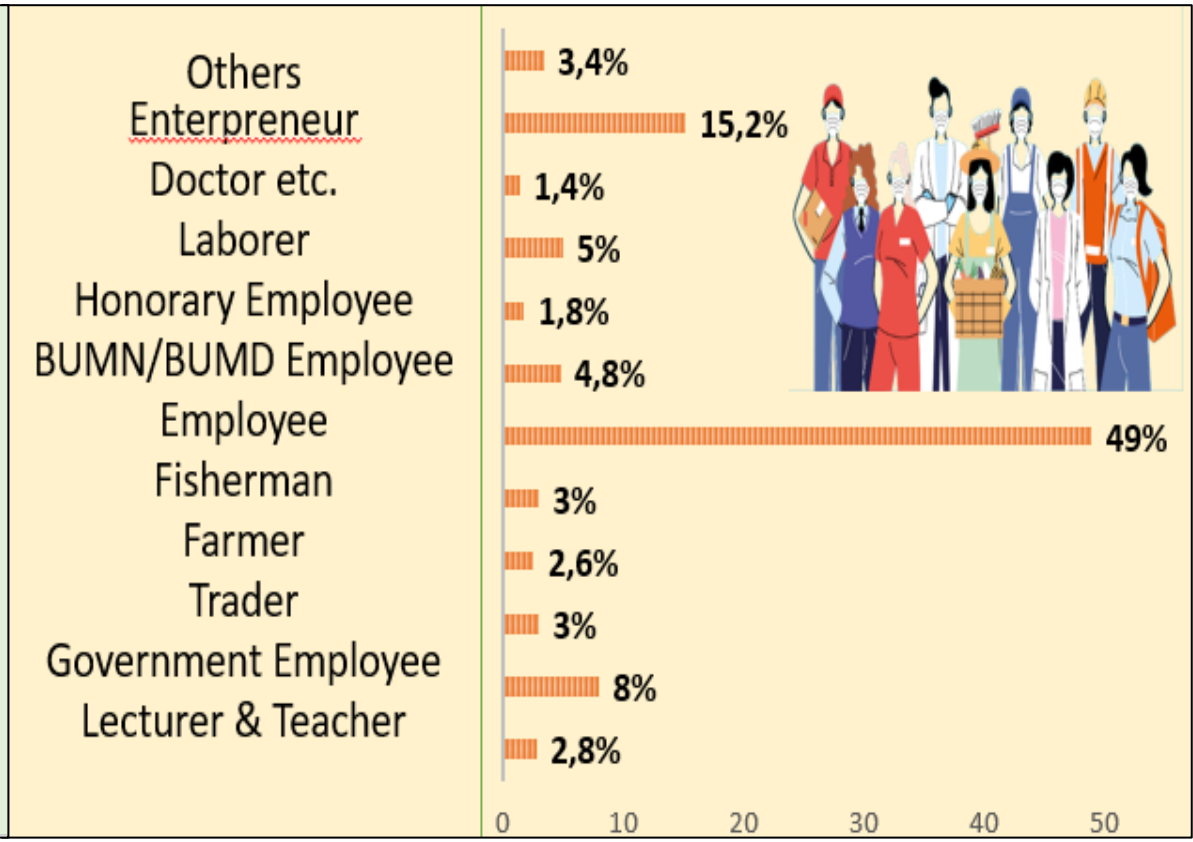
The number of male and female is almost the same.

Age



The most participants are aged 17-25 years and the least participants are aged less than 17 years.

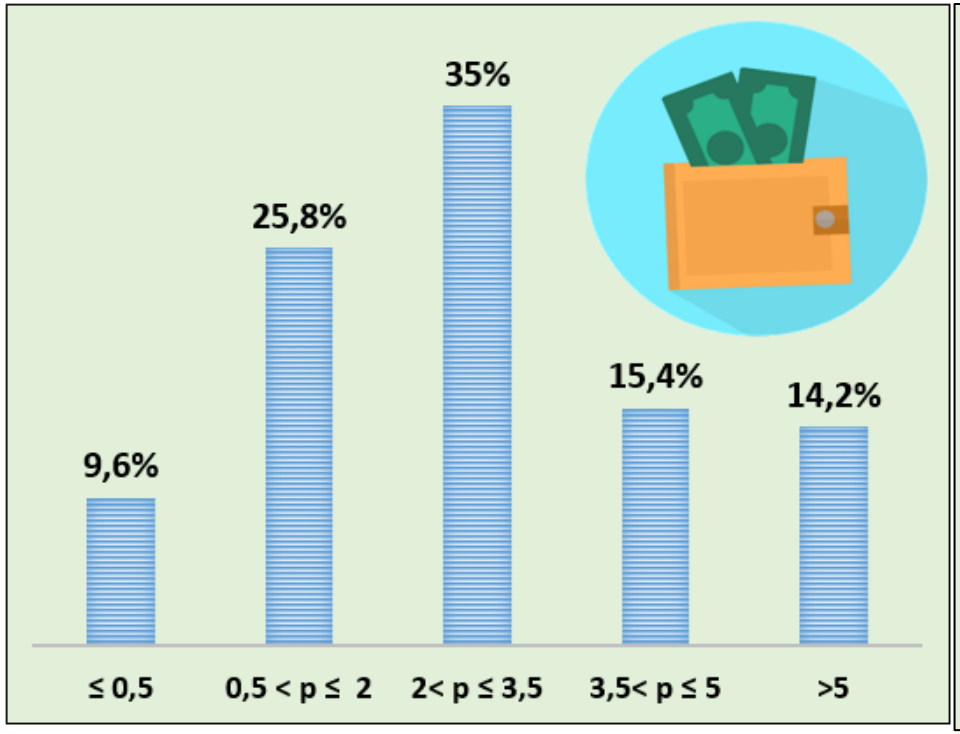
Profession



The least participants are doctor and other health workers.

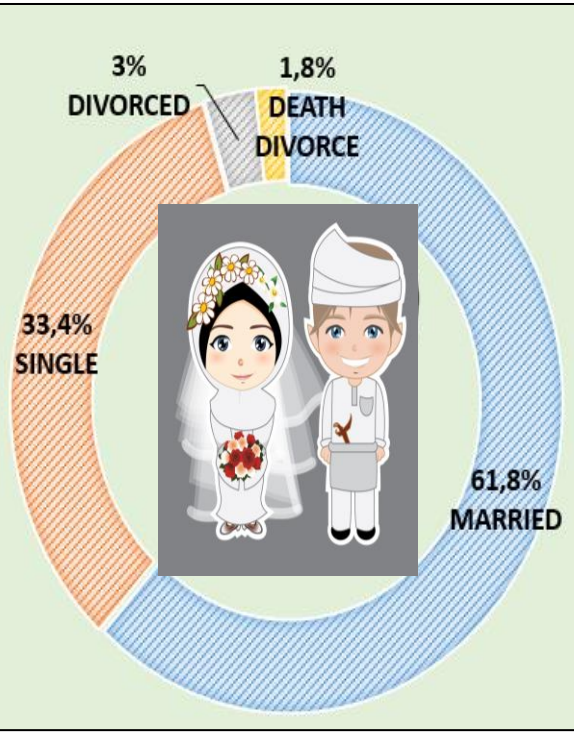
RESULT AND DISCUSSION

Income



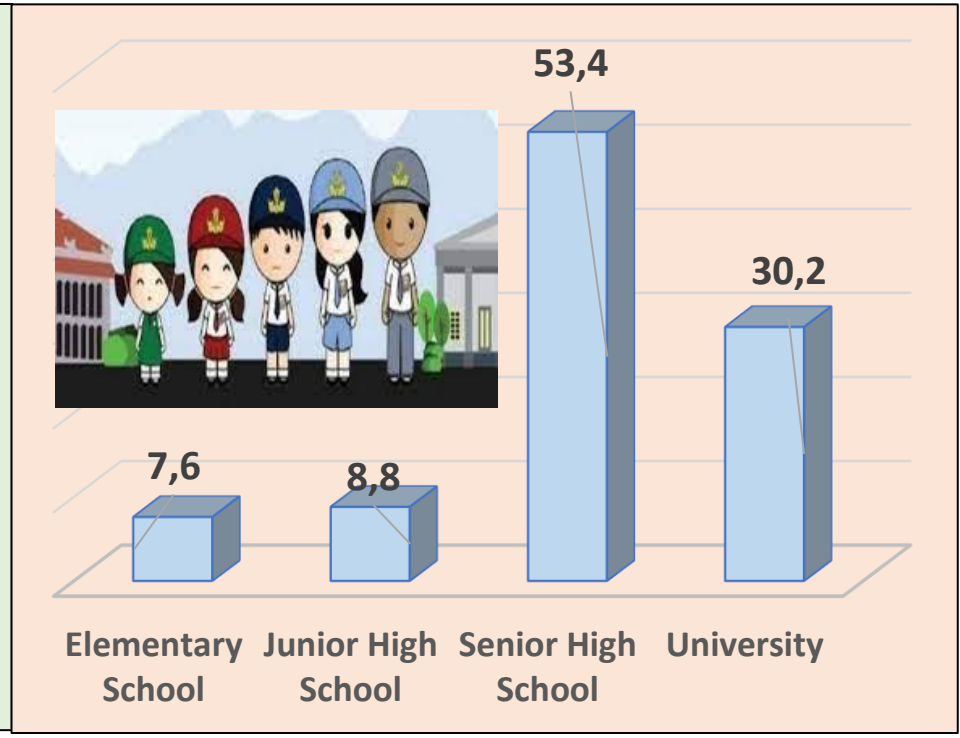
The most participants are participants who have a salary 2-3,5 million.

Marital Status



The least participants are death divorce.

Level of Education



The least participants are elementary school.

RESULT AND DISCUSSION

Age

17 - 25 years: OR=1.651.
36 - 45 years: OR=1.015.
55 years : OR=1.016.

The older age groups (17-25 years old) were more likely to unwillingness for COVID-19 vaccines than younger and older age groups.

Income

≤ 0.5 million IDR : OR=9.999.
0.6 until ≤ 2 million IDR : OR=8.816.
2.1 until ≤ 3.5 million IDR : OR=6.216.

The income groups (≤ 0.5 million) were more likely to unwillingness for COVID-19 vaccines than bigger income groups.

Gender

Profession

Farmer : OR=5.876.
Fisherman: OR=6.168.
Employee: OR=3.161.
Laborer : OR=5.361.

Marital Status

Married : OR= 3.936.
Single : OR= 3.973.
Death divorce: OR=5.148

Level Of Education

Elementary school: OR=2.787.
Junior high school: OR=2.420.

The predictors significantly affect of COVID-19 vaccine's attitudes in the Bontang city.

CONCLUSION

The predictors affect of COVID-19 vaccine's attitudes in the Bontang city are income, profession, marital status, and level of education.

Recommendation to support the achievement of government targets :

Persuasive approach and public health massaging should be continued and tailored to address these concerns, specially to certain age, certain profession, certain marital status, and people with lower levels of education and incomes.

Thank You!