# Vulnerability Levels among Male and Female in Malaysian Fisheries and Aquaculture Community

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# Problem Statements

1) Fisheries and aquaculture economic sector (FAES) is important for food security (Musa et al., 2011), GDP (Malaysia Department of Statistic, 2016) and poverty eradication (Patricia and Julia, 2008)

2) FAES is masculine (Biswas, 2017), there are marginalized group especially women

3) poverty eradication (SDG-1), food security (SDG-2), gender equality in financial wellbeing (SDG-5), and reduce inequality of financial wellbeing between VuT and able-bodies (SDG-10).

# Objective

1) To profile the Vulnerable Community Members (VCM)

2) To identify the distribution of respondents by Vulnerability Type (VuT)

3) To measure the relationship between sex and vulnerability levels

# Vulnerability Type (VuT)

| Dimension of Wellness | VuT |
|---|---|
| Occupational | i) Child labour, Care takers, The elderly |
| Intellectual | |
| Social | - The elderly, Single mother/ father, Living alone, Handicapped, Serious Disease |
| Physical | - Handicapped, Serious Disease, Child labour |

Note: Emotional and spiritual dimensions in all VuT

**Six Dimensions of Wellness Model – National Wellness Institute (nationalwellness.org)**

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# Vulnerable Community Members (VCM)

- **Community member suffers at least ONE VuT**

- **Fisheries and Aquaculture Community (FAC)**
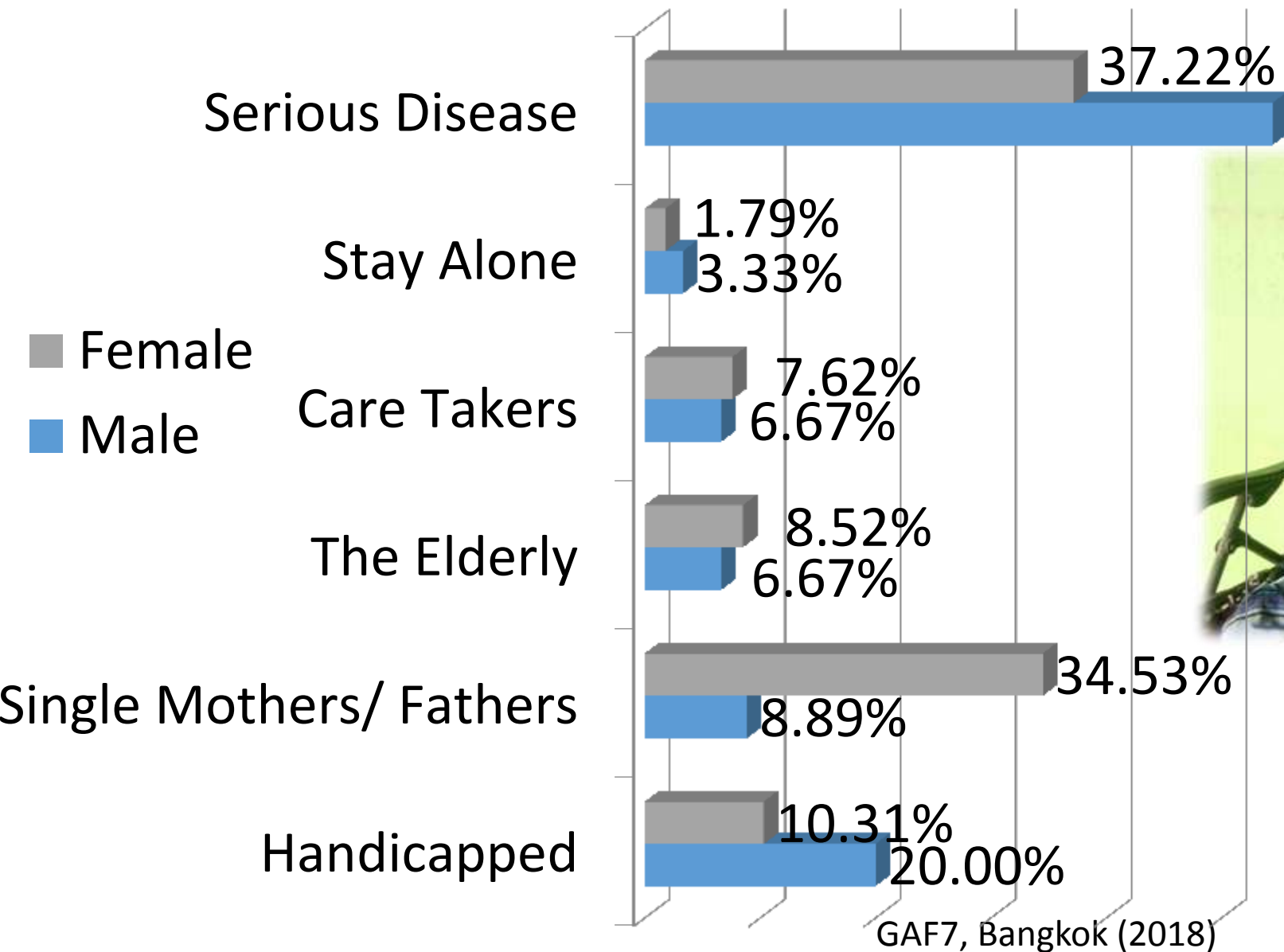
- **Langkawi and Kuala Kedah**

# Methods: Sampling

| District | Sub-District | Male | Female |
|---|---|---|---|
| Alor Setar | Kuala Kedah | 50 | 50 |
| Langkawi | Ayer Hangat | 25 | 25 |
|  | Kuah | 25 | 25 |
| Total Respondents |  | 100 | 100 |

# Methods: Questionnaire

| Part | Details |
|------|---------|
| A | Background |
| B | VuT |
| C | Wellbeing |



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# VCM Profile (Sex)



Legend:
- Female (grey)
- Male (blue)

| Profile | Female | Male |
|---|---|---|
| Serious Disease | 37.22% | 54.44% |
| Stay Alone | 1.79% | 3.33% |
| Care Takers | 7.62% | 6.67% |
| The Elderly | 8.52% | 6.67% |
| Single Mothers/ Fathers | 34.53% | 8.89% |
| Handicapped | 10.31% | 20.00% |

Note: Only Single Mothers/Fathers VuT has significant relationship with Sex

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VCM Profile (Locations)

Serious Disease* — 40.38% (Langkawi Island), 43.95% (Kuala Kedah)
Stay Alone — 1.28% (Langkawi Island), 3.18% (Kuala Kedah)
Care Takers* — 5.13% (Langkawi Island), 9.55% (Kuala Kedah)
The Elderly — 8.33% (Langkawi Island), 7.64% (Kuala Kedah)
Single Mothers/… — 34.62% (Langkawi Island), 19.75% (Kuala Kedah)
Handicapped* — 10.26% (Langkawi Island), 15.92% (Kuala Kedah)

Legend:
■ Langkawi Island
■ Kuala Kedah
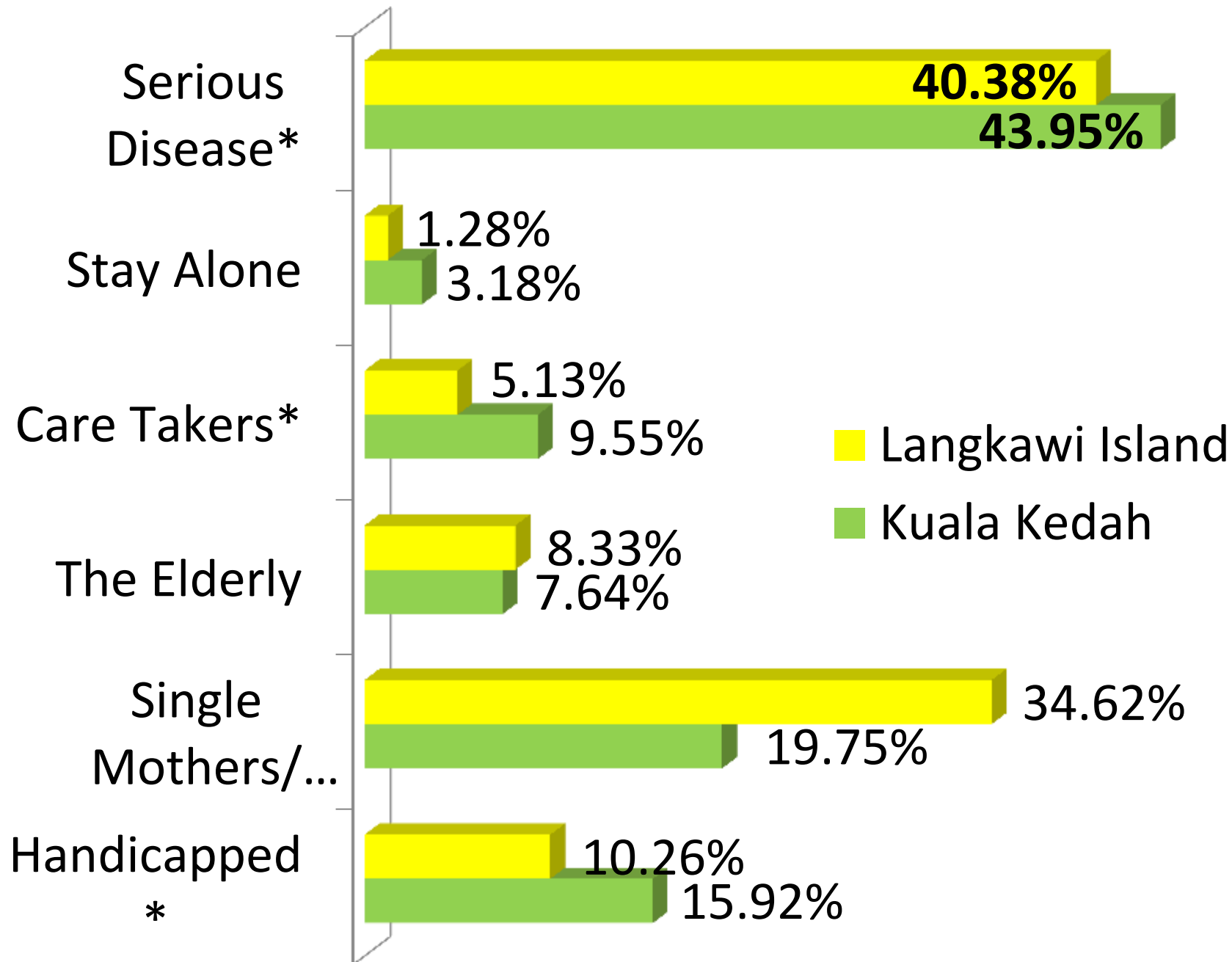
Note: Care takers and handicapped VuTs have significant relationship with Locations

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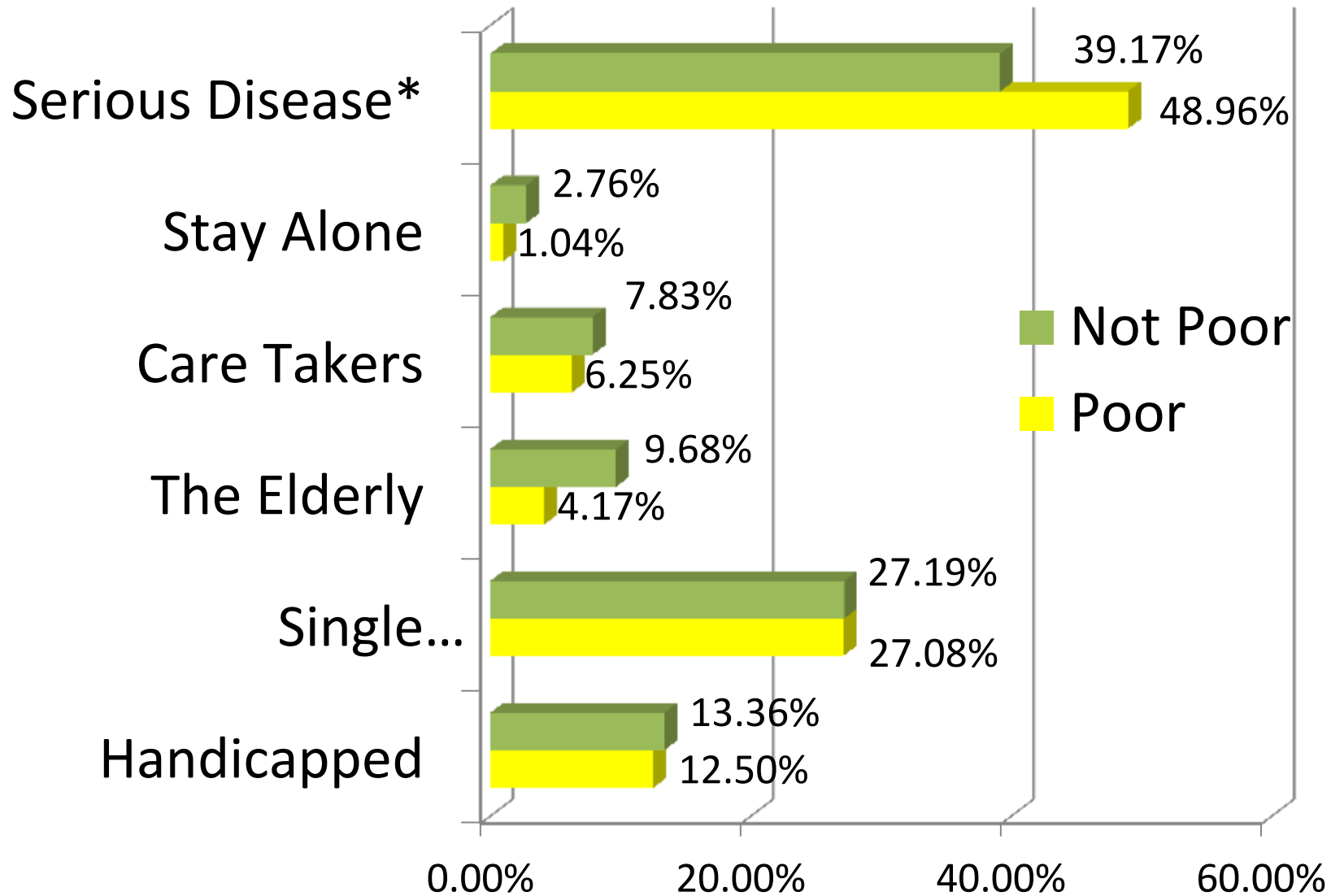
VCM Profile (Poverty Level)

Note: Serious disease VuT has significant relationship with Poverty Level

Chart data:

| Category | Not Poor | Poor |
|---|---|---|
| Serious Disease* | 39.17% | 48.96% |
| Stay Alone | 2.76% | 1.04% |
| Care Takers | 7.83% | 6.25% |
| The Elderly | 9.68% | 4.17% |
| Single... | 27.19% | 27.08% |
| Handicapped | 13.36% | 12.50% |

Other Backgrounds and Sex

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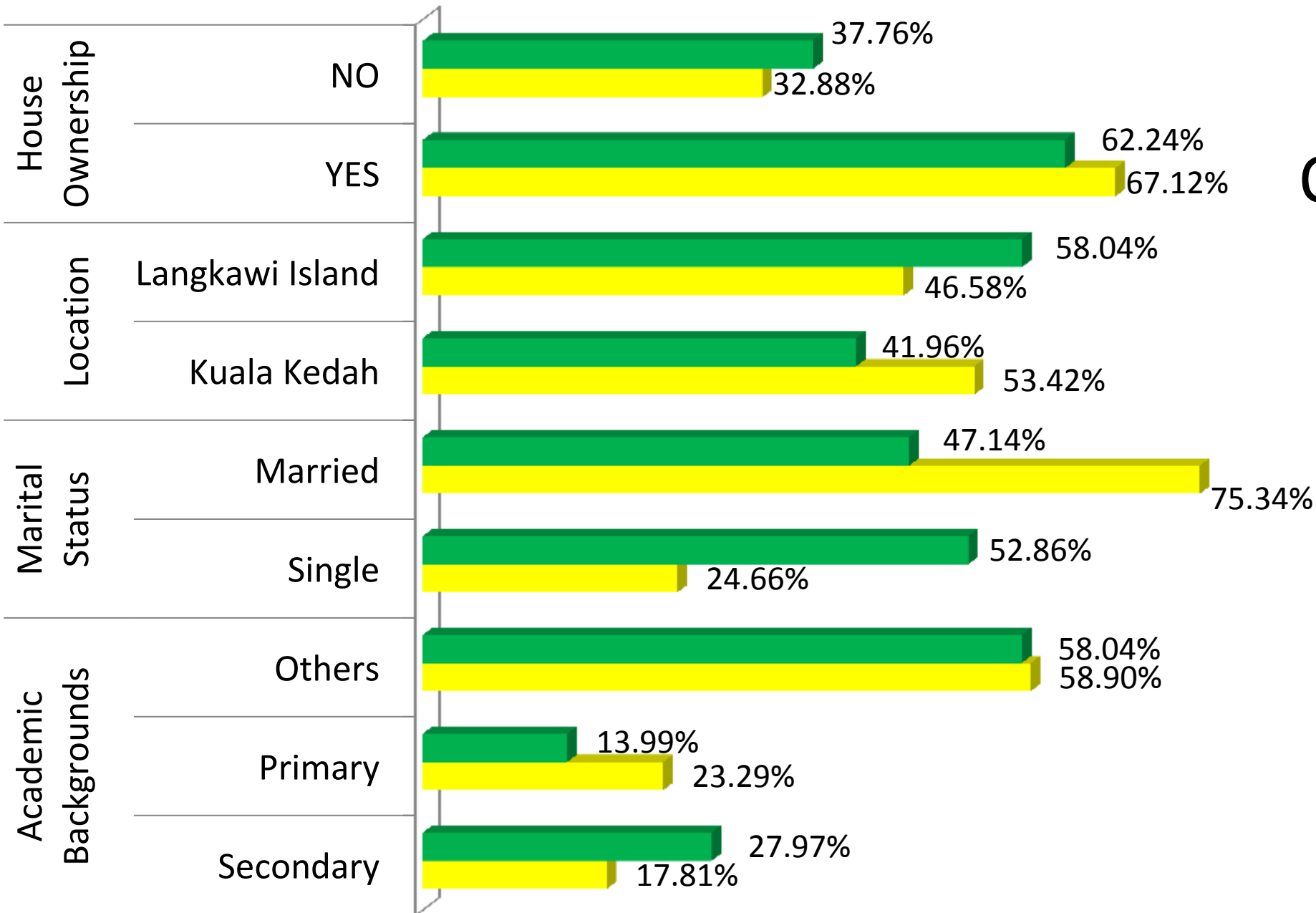
# RO2: Distribution of Respondents by VuT (*n*=215)



Serious Disease — 61.11%
Stay Alone — 3.24%
Care Takers — 10.60%
The Elderly — 11.60%
Single Mothers/ Fathers — 39.35%
Handicapped — 18.98%

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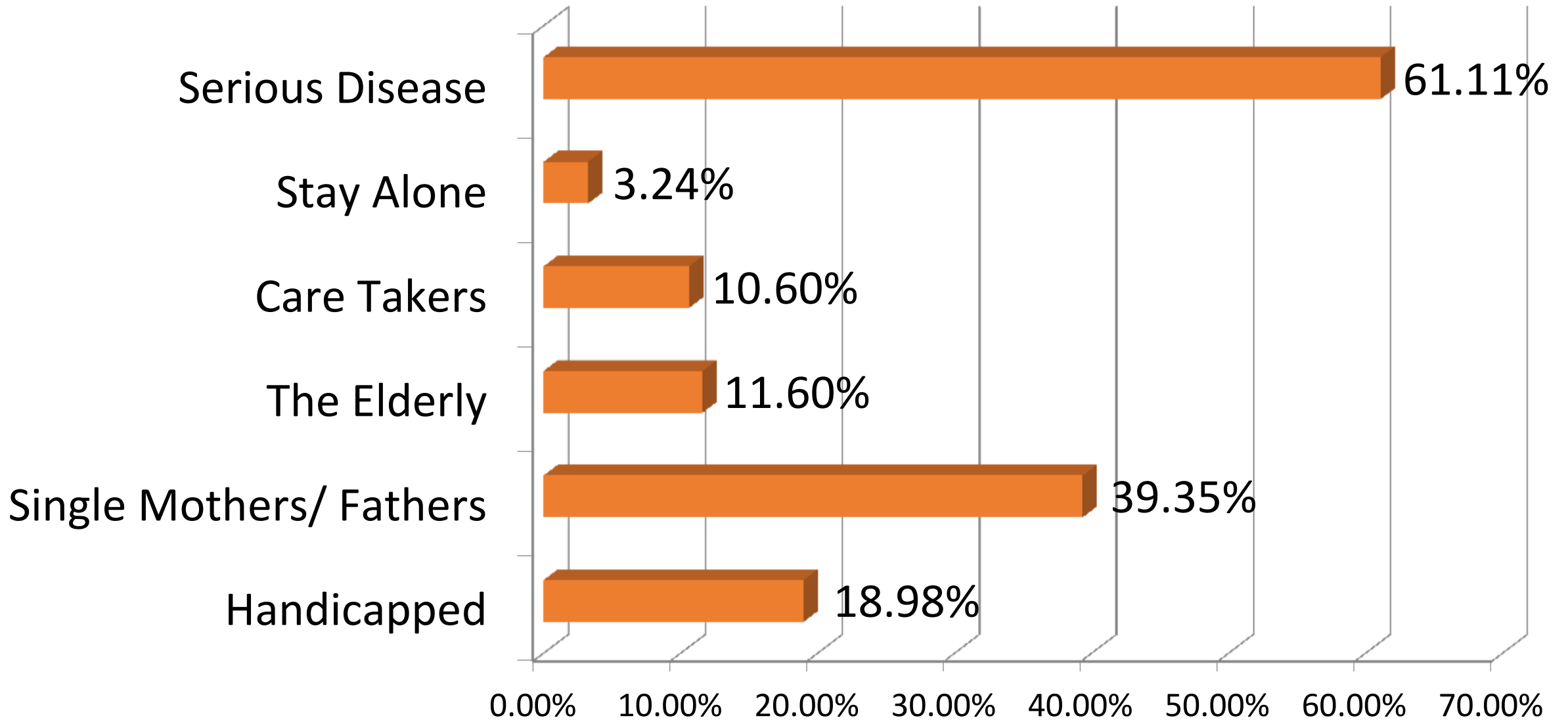
# RO3- Relationship between Sex and Vulnerability Levels ($p<0.05$)



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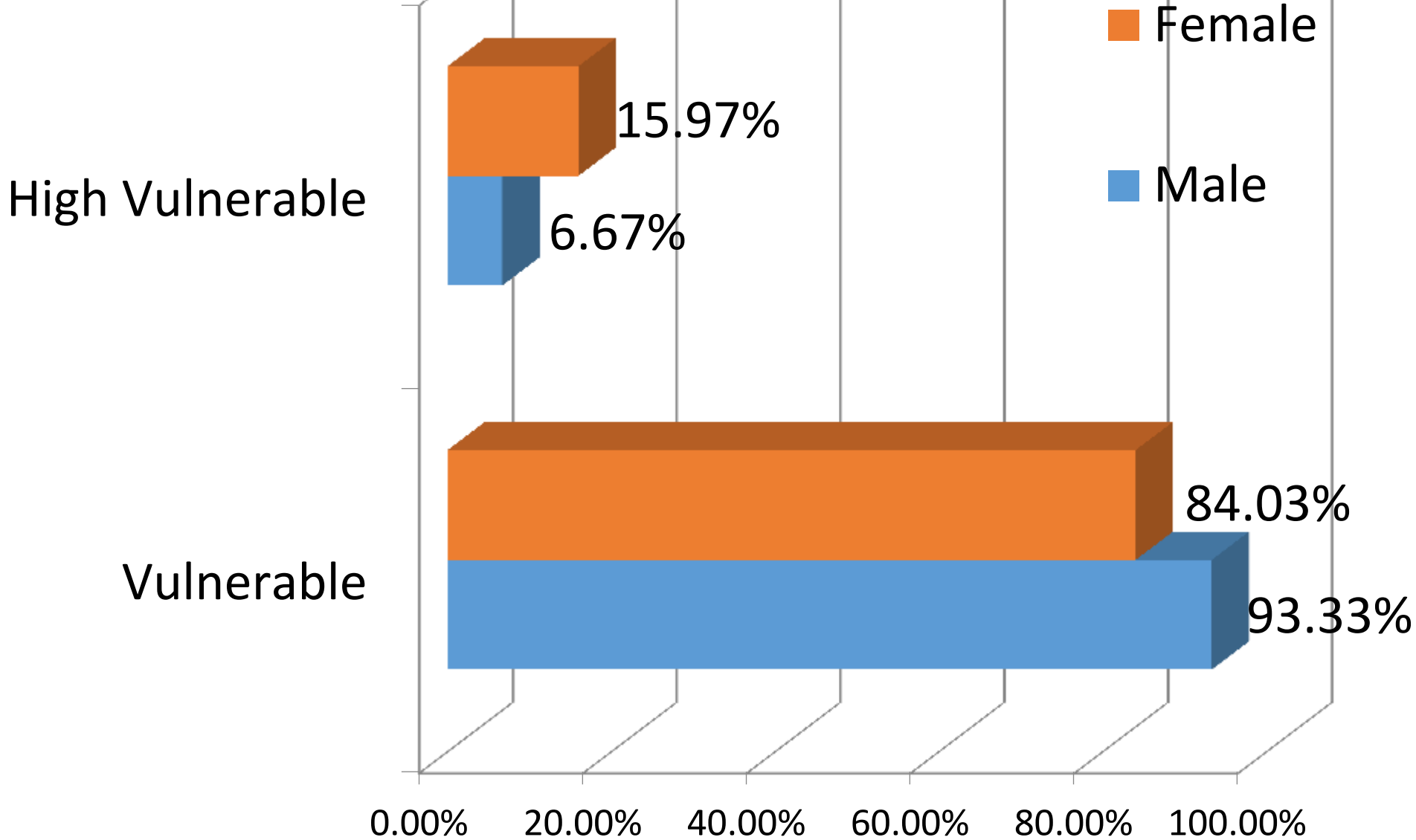
# Conclusion

| Conclusion | Recommendation |
| --- | --- |
| RO1: Many poor VCM suffer serious disease | Program and policies related to medical cost and healthy living |
| RO1: Many poor and old single mother | Promote program related  o single mothers especially for income generating |
| RO2: Many vulnerable due to disease | Promote program related to health and stress |
| RO3: Women are more vulnerable than men | Policies on vulnerability should be gender sensitive |