

A/B Testing: Daily use mask

Group 2: Member

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คุณชอบใช้หน้ากากแบบ ไหนมากกว่ากัน

Survey:

What is your preference of daily used mask?

- 1) Reusable mask
- 2) Surgical mask

What is your sex?

- 1) Male
- 2) Female



Results:

The most popular type of daily used mask is

Surgical mask



Results: Sex

Sample size (n) = 78

male 34 persons

female 44 persons

Surgical mask -> 77% (n = 60)

of which

male 26 persons (76%)

female 34 persons (77%)

| | Surgical | Reusable | Total | |
|--------|----------|----------|-------|----|
| Male | 26 | 8 | | 34 |
| Female | 34 | 10 | | 44 |
| Total | 60 | 18 | | 78 |
| | | | | |



Results: Chi-square Test

H0 : Sex and type of mask are independent H1 : Sex and type of mask are dependent

| Observation | | | | |
|-------------|----------|----------|-------|--|
| | Surgical | Reusable | Total | |
| Male | 26 | 8 | 34 | |
| Female | 34 | 10 | 44 | |
| Total | 60 | 18 | 78 | |

| Expected Frequency | | | | |
|--------------------|----------|----------|-------|--|
| | Surgical | Reusable | Total | |
| Male | 26.15 | 7.85 | 34 | |
| Female | 33.85 | 10.15 | 44 | |
| Total | 60 | 18 | 78 | |

| Calculated Chi-square | | | |
|-----------------------|----------|----------|--|
| | Surgical | Reusable | |
| Male | 0.00090 | 0.00302 | |
| Female | 0.00070 | 0.00233 | |

| Chi-square value | | |
|------------------|-------|--|
| cal | 0.007 | |
| critical (95%) | 3.841 | |
| P-value | 0.934 | |

Chi-square(Cal.) < Chi-square(critical)

P-value = 0.934 > 0.05

Do not reject H0 => Sex and type of mask are independent