

# Mammography: A Jordanian Woman Want or Need?

## Jordanian Women Willingness to Pay for Mammography

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Led By:



# Demographic Characteristics

- A cross-sectional study with 941 Respondents.
- Respondents' median age: 49
- The below tables demonstrate respondents' demographic features:

| Governorate    |                    |
|----------------|--------------------|
| Name           | % (N)              |
| <b>Amman</b>   | <b>40.8% (384)</b> |
| <b>Irbid</b>   | <b>15% (141)</b>   |
| Balqa'a        | 4.1% (39)          |
| <b>Zarqa'a</b> | <b>12.6% (119)</b> |
| Al Tafila      | 3.3% (31)          |
| Al Aqaba       | 3.3% (31)          |

| Governorate |           |
|-------------|-----------|
| Name        | % (N)     |
| Al Karak    | 3.4% (32) |
| Al Mafrq    | 3.7% (35) |
| Jerash      | 3.4% (32) |
| Ajloun      | 3.3% (31) |
| Madaba      | 3.6% (34) |
| Ma'an       | 3.4% (32) |

# Demographic Characteristics

| Educational Level  |                    |
|--------------------|--------------------|
| Educational Level  | % (N)              |
| No Education       | 6% (56)            |
| Elementary         | 9.2% (87)          |
| <b>Preparatory</b> | <b>16% (151)</b>   |
| <b>High School</b> | <b>35.1% (330)</b> |
| <b>Diploma</b>     | <b>19.2% (181)</b> |
| <b>Bachelor's</b>  | <b>12.3% (116)</b> |
| Master's           | 1.8 % (17)         |
| PHD                | 0.3% (3)           |

| Area         |                    |
|--------------|--------------------|
| Area         | % (N)              |
| <b>Urban</b> | <b>87.1% (820)</b> |
| Rural        | 12.9% (121)        |

| Marital Status               |                    |
|------------------------------|--------------------|
| Marital Status               | % (N)              |
| Single                       | 7% (66)            |
| <b>Married</b>               | <b>76.8% (723)</b> |
| Other (Widowed, divorced...) | 16.2% (152)        |

# Demographic Characteristics

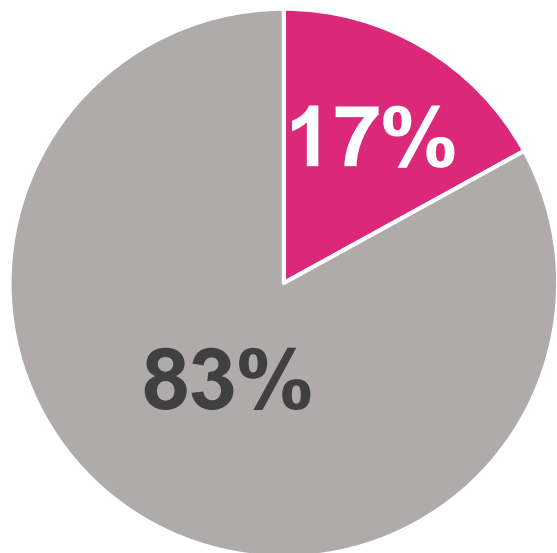
| Family Income      |             |
|--------------------|-------------|
| Monthly Income     | % (N)       |
| No income          | 1 % (9)     |
| Less than 300 JDs  | 28.8% (271) |
| 300-500 JDs        | 39% (367)   |
| 501-700 JDs        | 13.9% (131) |
| 701-1000 JDs       | 9.6% (90)   |
| 1001-1500 JDs      | 4.1% (39)   |
| 1501-2000 JDs      | 1.9% (18)   |
| 2001-2500 JDs      | 0.5% (5)    |
| 2501-3000 JDs      | 0.3% (3)    |
| More than 3000 JDs | 0.2% (2)    |

| Respondents' Role in Family |             |
|-----------------------------|-------------|
| Role                        | % (N)       |
| Head of Family              | 21.5% (202) |
| Not the head of the family  | 78.5% (739) |

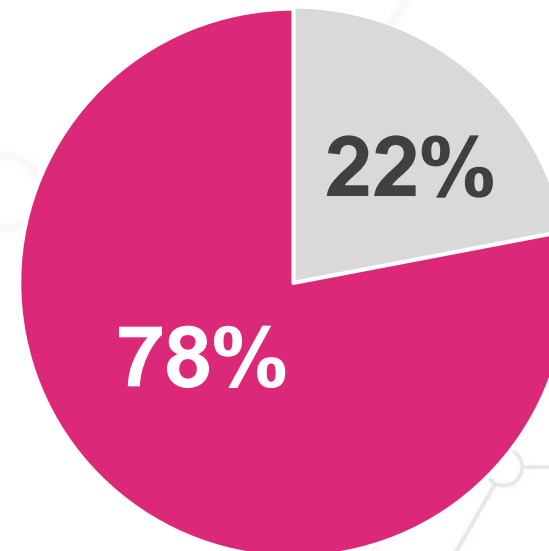
| Health Insurance |             |
|------------------|-------------|
| Insurance Status | % (N)       |
| Insured          | 75.6% (711) |
| Not Insured      | 24.4% (230) |

| Respondents' Income          |             |
|------------------------------|-------------|
| Income Status                | % (N)       |
| Has her own income           | 36.9% (347) |
| Does not have her own income | 62.7% (590) |

# Health Behavior



- Visits HCPs regularly/Without complaint
- Only visits HCPs with complaints



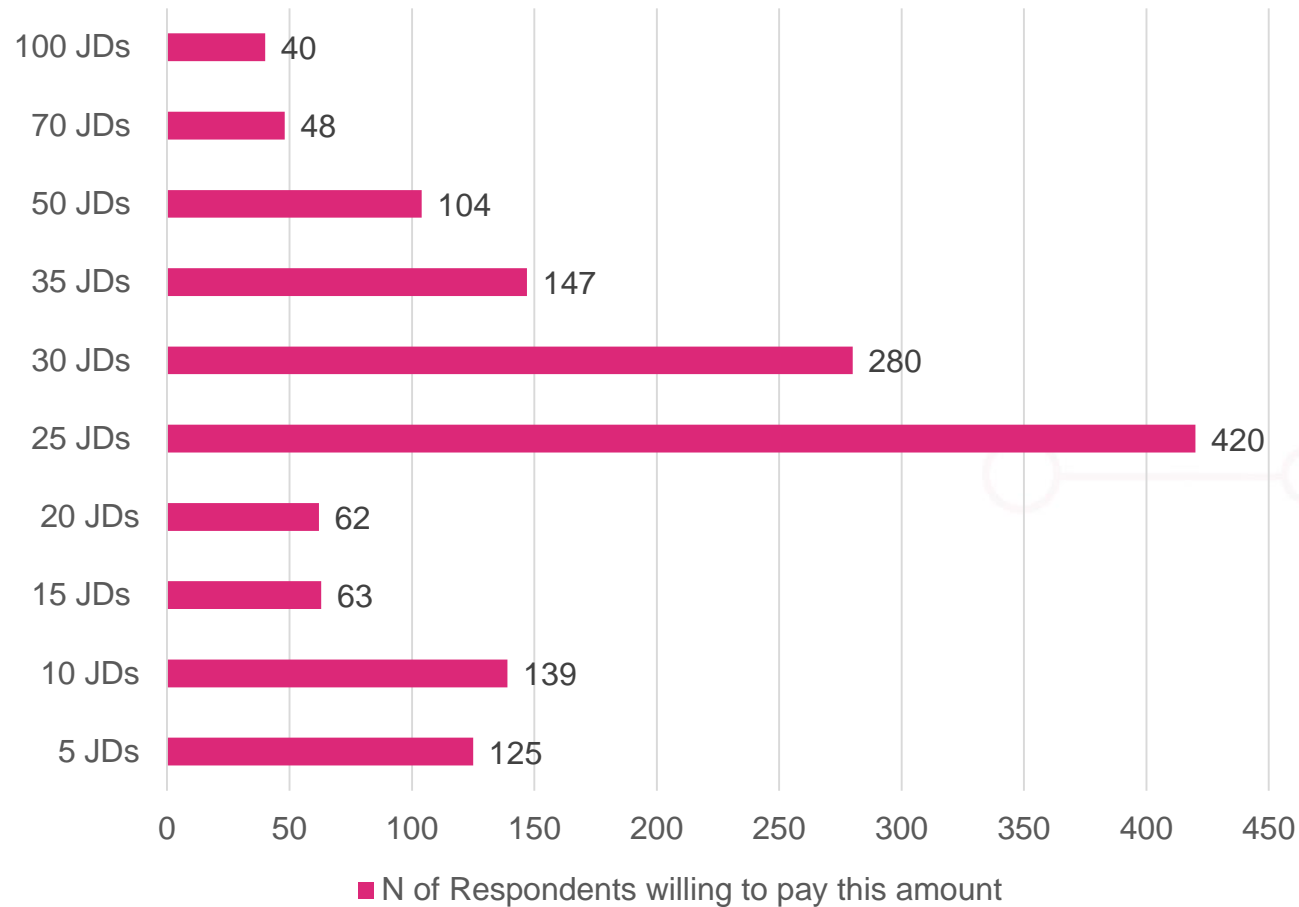
- Underwent mammography
- Did not undergo mammography

# Health Behavior

| Mammography Practice                |                  |
|-------------------------------------|------------------|
| Frequency of undergoing mammography | % (N)            |
| Once every year                     | 21% (44)         |
| Twice every year                    | 9% (17)          |
| More than twice every year          | 4% (9)           |
| Once every two years                | 11% (23)         |
| <b>Only did it once in lifetime</b> | <b>55% (115)</b> |

| Visits to HCPs                         |                    |
|--|--------------------|
| Number of visits within Last 12 months | % (N)              |
| <b>No visits</b>                       | <b>59.1% (556)</b> |
| One visit                              | 15% (141)          |
| Two visits                             | 9.4% (88)          |
| 3 visits                               | 4.5% (42)          |
| 4 visits                               | 3.9% (37)          |
| 5 visits                               | 0.6% (6)           |
| More than 5 visits                     | 7.5% (71)          |

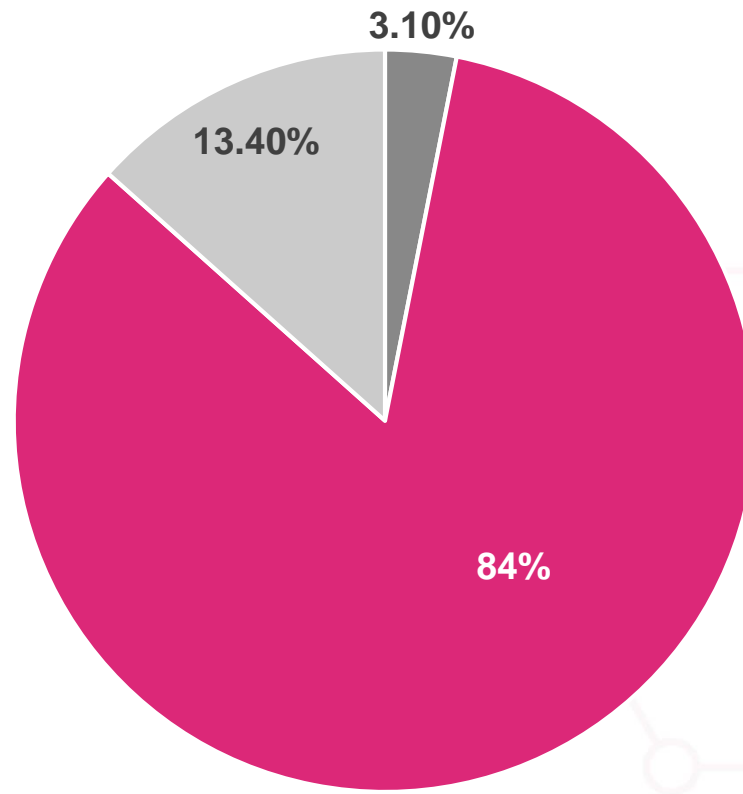
# Willingness to Pay



## Perceived Price of Mammography

| Price Range            | % (N)              |
|------------------------|--------------------|
| <b>Less than 5 JDs</b> | <b>36.3% (342)</b> |
| <b>5-10 JDs</b>        | <b>28.1% (264)</b> |
| 11-15 JDs              | 6% (56)            |
| 16-20 JDs              | 10.3% (97)         |
| 21-30 JDs              | 5.3% (50)          |
| 31-50 JDs              | 7.3% (69)          |
| 51-74 JDs              | 1.9% (18)          |
| 75-100 JDs             | 1.7% (16)          |
| More than 100 JDs      | 3.1% (29)          |

# Willingness to Pay



■ Agree ■ Agree and disagree ■ Do not agree





# Health Insurance

## Respondents' Intention to undergo mammography if it was covered by insurance

| Intention                                    | % (N)            |
|--|------------------|
| <b>I will definitely undergo mammography</b> | <b>68% (640)</b> |
| I will consider undergoing mammography       | 20.4% (192)      |
| I will not consider undergoing mammography   | 11.6% (109)      |

## Respondents' Intention to pay a copayment of 5 JDs

| Intention   | % (N)              |
|---|--------------------|
| <b>I will definitely pay a copayment of 5 JDs</b> | <b>77.4% (728)</b> |
| I will consider paying a copayment of JDs         | 9.1% (86)          |
| I will not consider paying a copayment of 5 JDs   | 13.5% (127)        |

## Respondents' Attitude towards Mammography's coverage by insurance

| Attitude               | % (N)              |
|------------------------|--------------------|
| <b>A definite must</b> | <b>78.4% (738)</b> |
| A must                 | 18.4% (173)        |
| Good to have           | 2.1% (20)          |
| No need                | 0.5% (5)           |
| Can do without it      | 0.5% (5)           |

# Influencing Factors: Family Income

| Respondents' Attitude towards Mammography's coverage by insurance | Low Income  | Middle Income | High Income | Declined to answer | P for X <sup>2</sup> Test |
|---|-------------|---------------|-------------|--------------------|---------------------------|
| A definite must   | 29.3% (216) | 61.9% (457)   | 8.1% (60)   | 0.7% (5)           | 0.762                     |
| A must  | 30.6% (53)  | 64.7% (112)   | 4% (7)      | 0.6% (1)           |                           |
| Good to have  | 30% (6)     | 70% (14)      | 0% (0)      | 0% (0)             |                           |
| No need   | 60% (3)     | 40% (2)       | 0% (0)      | 0% (0)             |                           |
| Can do without it   | 40% (2)     | 60% (3)       | 0% (0)      | 0% (0)             |                           |

**\*There is no association between respondents' attitude towards mammography coverage by insurance and their family monthly income**

# Influencing Factors: Family Income

| Respondents' Intention to undergo mammography if it was covered by insurance | Low Income  | Middle Income | High Income | Declined to answer | P for X <sup>2</sup> Test |
|--|-------------|---------------|-------------|--------------------|---------------------------|
| I will definitely undergo mammography  | 30.6% (196) | 61.1% (391)   | 7.7% (49)   | 0.6% (4)           | 0.369                     |
| I will consider undergoing mammography                                       | 26.6% (51)  | 67.2% (129)   | 6.3% (12)   | 0% (0)             |                           |
| I will not consider undergoing mammography                                   | 30.3% (33)  | 62.4% (68)    | 5.5% (6)    | 1.8% (2)           |                           |

**\*There is no association between respondents' family monthly income and their intention to undergo mammography if it was covered by insurance**

# Influencing Factors: Family Income

| Respondents' Intention to pay a copayment of 5 JDs | Low Income  | Middle Income | High Income | Declined to answer | P for X <sup>2</sup> Test |
|--|-------------|---------------|-------------|--------------------|---------------------------|
| I will definitely pay a copayment of 5 JDs         | 27.3% (199) | 65.2% (475)   | 6.7% (49)   | 0.7% (5)           | 0.044                     |
| I will consider paying a copayment of 5 JDs        | 34.9% (30)  | 54.7% (47)    | 10.5% (9)   | 0% (0)             |                           |
| I will not consider paying a copayment of 5 JDs    | 40.2% (51)  | 52% (66)      | 7.1% (9)    | 0.8% (1)           |                           |

**\* There is an association between respondents' family monthly income and their intention to pay a copayment of 5 JDs**

# Influencing Factors (P for $\chi^2$ Test)

|  | Health Behavior | Attitude towards breast cancer | Attitude towards mammography | Having their own income | Receipt of mammography | Number of HCPs visits | Level of Education |
|--|-----------------|--------------------------------|------------------------------|-------------------------|------------------------|-----------------------|--------------------|
| Respondents' Attitude towards Mammography's coverage by insurance            | 0.710           | 0.751                          | 0.137                        | 0.061                   | 0.488                  | 0.237                 | 0.559              |
| Respondents' Intention to undergo mammography if it was covered by insurance | 0.051           | <0.001                         | 0.001                        | 0.2                     | <0.001                 | 0.046                 | 0.034              |
| Respondents' Intention to pay a copayment of 5 JDs                           | 0.53            | 0.023                          | 0.005                        | 0.557                   | 0.07                   | 0.37                  | 0.173              |

# Influencing Factors

|  | Health Insurance | Area   | Most Common cancer is Breast Cancer | Age    | Role in Family | Marital Status |
|--|------------------|--------|-------------------------------------|--------|----------------|----------------|
| Respondents' Attitude towards Mammography's coverage by insurance            | 0.22             | 0.658  | 0.086                               | <0.001 | 0.036          | 0.006          |
| Respondents' Intention to undergo mammography if it was covered by insurance | 0.288            | 0.471  | 0.505                               | 0.026  | 0.374          | 0.02           |
| Respondents' Intention to pay a copayment of 5 JDs                           | 0.077            | <0.001 | 0.095                               | 0.810  | 0.390          | 0.487          |

# Factors Influencing Respondents' Attitude towards Mammography's coverage by insurance

## 1) Respondents Having their own income

Respondents who did not have their own income found more importance in covering mammography by insurance

## 2) Respondents viewing breast cancer as the most common disease among women

Respondents who view breast cancer as the most common disease among women found more importance in covering mammography by insurance.

## 3) Respondents role in the family

Respondents who were not the head of their families found more importance in covering mammography by insurance

## 4) Age of respondents

Respondents from younger age groups (forties and middle forties) found more importance in covering mammography by insurance

# Factors Influencing Respondents' Intention to undergo mammography if it was covered by insurance

## 1) Respondents Health Behavior

Respondents who regularly visits HCPs (without complaint) were more willing to undergo mammography if it was covered by insurance

## 2) Respondents' Attitude towards breast cancer

Respondents who view breast cancer as a dangerous disease were more willing to undergo mammography if it was covered by insurance

## 3) Respondents' receipt of mammography

Respondents who received mammography before were more willing to undergo mammography if it was covered by insurance

## 4) Number of visits to HCPs in the last 12 months

Respondents who had higher number of visits to HCPs in the last 12 months were more willing to undergo mammography if it was covered by insurance



# Factors Influencing Respondents' Intention to undergo mammography if it was covered by insurance

## 5) Respondents attitude towards mammography

Respondents with higher level of education were more willing to undergo mammography if it was covered by insurance.

## 6) Respondents' Age

Respondents from younger age groups (forties and middle forties) were more willing to undergo mammography if it was covered by insurance.

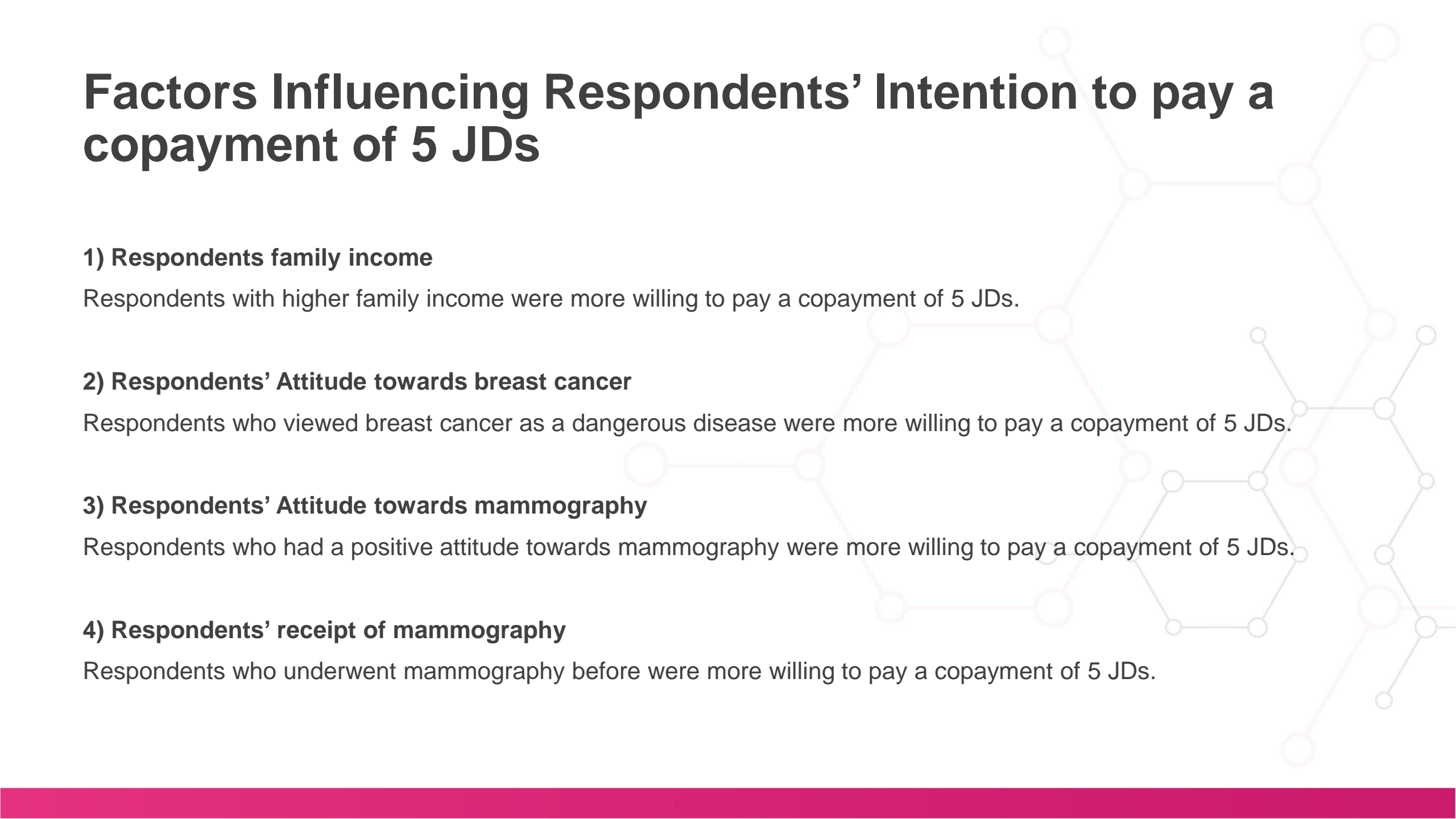
## 7) Respondents' Marital Status

Married respondents were more willing to undergo mammography if it was covered by insurance.

## 8) Respondents' Educational Level

Respondents who had higher education were more willing to undergo mammography if it was covered by insurance.

# Factors Influencing Respondents' Intention to pay a copayment of 5 JDs



## 1) Respondents family income

Respondents with higher family income were more willing to pay a copayment of 5 JDs.

## 2) Respondents' Attitude towards breast cancer

Respondents who viewed breast cancer as a dangerous disease were more willing to pay a copayment of 5 JDs.

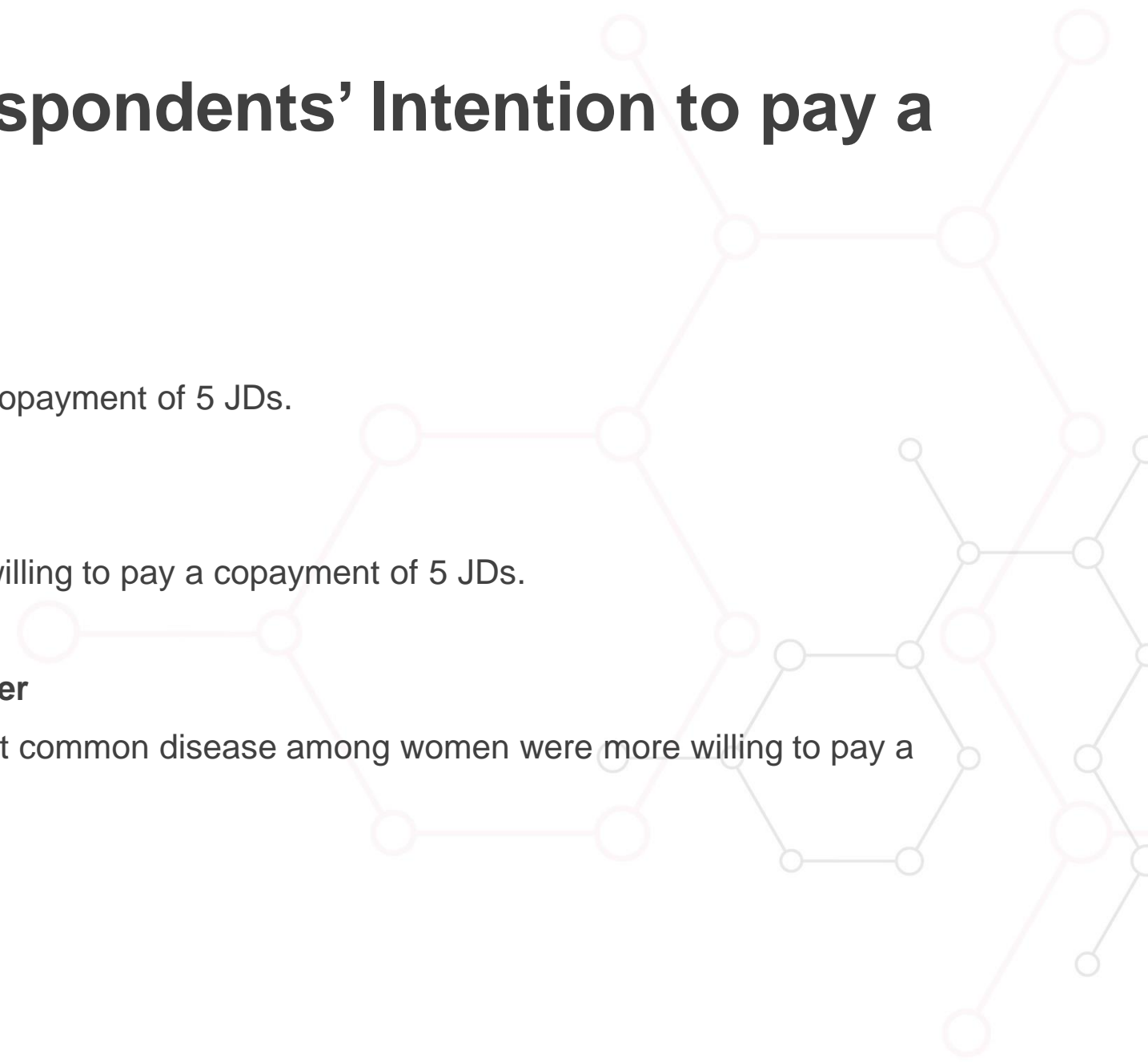
## 3) Respondents' Attitude towards mammography

Respondents who had a positive attitude towards mammography were more willing to pay a copayment of 5 JDs.

## 4) Respondents' receipt of mammography

Respondents who underwent mammography before were more willing to pay a copayment of 5 JDs.

# Factors Influencing Respondents' Intention to pay a copayment of 5 JDs



## 5) Health insurance

Insured respondents were more willing to pay a copayment of 5 JDs.

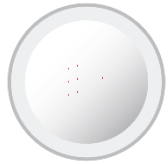
## 6) Area

Respondents who live in urban area were more willing to pay a copayment of 5 JDs.

## 7) Respondents' Attitude towards breast cancer

Respondents who view breast cancer as the most common disease among women were more willing to pay a copayment of 5 JDs.

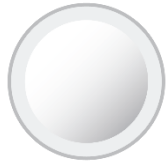
# Conclusions



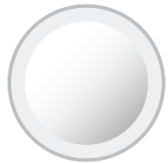
It's important to consider covering mammogram and breast imaging in insurance programs. It favorably affects women's attitudes and practice towards the service.



Many factors influence Jordanian women's decision to undergo mammography and many factors affect their willingness to pay. They need to be thoroughly addressed in the future health policies.



Jordanian women's health behavior is not proactive. This could explain the constant low percentages of Jordanian women receiving mammography services. Therefore, to increase the number of Jordanian women receiving this service, barriers should be eliminated



Holistic efforts to address the gaps are needed.

# THANK YOU

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