The cost of unwanted loneliness in Spain

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Index

1. Main results .................................................. 3
2. Origin of loneliness in Spain ................................ 4
3. The causes of unwanted loneliness ..................... 5
4. Unwanted loneliness and health ......................... 7
5. The cost of unwanted loneliness ....................... 11
6. Conclusions .................................................. 16
Unwanted loneliness has a negative impact on people's physical and mental health and quality of life, but it also has significant economic effects. This study aims to measure the costs of unwanted loneliness in Spain. This is the first study of this type carried out in our country.

On the one hand, the study measures healthcare costs, both in relation to the use of healthcare services and regarding the use of medication. It also measures the economic costs in terms of productivity losses related to the reduction in working time that unwanted loneliness causes in our country.

The study also measures the well-being losses resulting from unwanted loneliness, related to premature deaths, and loss of quality of life.

Thus, it is estimated that unwanted loneliness represents a total cost of 14 billion euros per year in our country. This represents 1.17% of Spain's Gross Domestic Product (GDP) by 2021.

Specifically, the costs of use of healthcare services amount to more than 5.6 billion euros per year, and the costs of drug consumption are 495.9 million euros. Together, healthcare costs are equivalent to 0.51% of GDP.

In addition to healthcare costs, it is estimated that the costs associated with productivity losses amount to more than 8 billion euros per year, representing approximately 0.67% of GDP.

In terms of intangible costs, unwanted loneliness generates a reduction in quality of life not associated with mortality equivalent to more than 1 million QALYs (Quality Adjusted Life Years). A QALY is one year of life in good health. In addition, premature deaths would equate to an annual loss of nearly 18,000 QALYs. Thus, the total loss that unwanted loneliness produces in people's quality of life represents 2.79% of the total healthy life years of the Spanish population over 15 years of age.

Sample and methodology

The estimation of the costs associated with unwanted loneliness was based on a survey aimed at obtaining the prevalence of loneliness among the Spanish population over 15 years of age (by sex and age). For this purpose, a specific questionnaire was developed with questions on loneliness, its causes, as well as the information necessary for the estimation of costs. For this purpose, 4,004 individuals representative of Spanish society by sex, age, and size of habitat were contacted.
To estimate the costs of unwanted loneliness, matching and regression techniques have been used, estimating the differences between lonely and non-lonely people in relation to the consumption of medication, use of healthcare services, quality of life and reduction of working time.

With regard to the calculation of costs due to loss of quality of life, as these are intangible costs, the QALY (Quality Adjusted Life Years) measure is used. QALY is a measure of health, which considers both quantity and quality of life, understood as years gained with quality, produced, or avoided, combined with years of life gained or lost, with respect to a given state of healthcare, generating a life expectancy of the years remaining to the individual.

By age, young people experience unwanted loneliness the most, at 21.9%.

In the following age brackets, unwanted loneliness decreases to around 12%. The 65-74 age group suffers the least from loneliness. However, among people aged 75 and over, loneliness has risen again to 12.2%.

Unwanted loneliness affects 13.4% of the population in Spain.

Women suffer more from unwanted loneliness than men.

- 16-24: 21.9%
- 25-34: 16.5%
- 35-44: 13.2%
- 45-54: 12.1%
- 55-64: 12.4%
- 65-74: 7.8%
- 75 and more: 12.2%
Regarding the frequency of loneliness, **22.9% of the people interviewed feel lonely the whole day.** Almost 20.9% perceive this feeling of loneliness at weekends.

On average, **people experiencing unwanted loneliness have been in this situation for about 6 years.**

### 3.

**The causes of unwanted loneliness**

The causes of loneliness are varied. Seventy-nine point one per cent of the causes of loneliness are related to external causes, the most important being **“living alone or lack of family or social support” (57.3%): the distant residence of their relatives (11.9%); no longer living with the people they used to live with (10.5%); and lack of understanding by the people around them (8.2%).**

**Labor causes represent 11.1% of the total causes and overworking is the main labor cause of their loneliness (6.2%).** The last two groups of external causes refer to reasons of **isolation due to environment (8.6%) and to being a caregiver (2%).**

With respect to internal or intrinsic causes, **difficulty in interacting with others accounts for 12.7% of the total causes reported, and loneliness due to poor health accounts for 6.4%.** Of the latter, 1.4% identify that their loneliness is motivated by having a disability.
## Main Causes of unwanted loneliness

### EXTERNAL CAUSES 79.1 %

1. **Living alone or lack of family and social support** 57.3 %
   - My family lives far away
   - I am no longer living with the people I lived with
   - The people around me do not understand/value me
   - I lack company
   - The person I had a close relationship with passed away
   - I have conflicts with my family
   - I live alone most of the time
   - I have no children, partner, or family
   - I have little contact with my family

2. **Labor causes** 11.1 %
   - I have a lot of work and I have no time for pleasure
   - Due to the loss/change of my work, or my retirement
   - I have been harassed at work

3. **Isolation due to environment** 8.6 %
   - I am geographically isolated
   - I am isolated due to the pandemic
   - My financial situation is bad

4. **Caring for other people** 2.1 %
   - I am a carer for a dependent person

### INTERNAL CAUSES 19.1 %

1. **Difficulty interacting with others** 12.7 %
   - I have difficulty interacting with others

2. **Poor personal health** 6.4 %
   - Due to my physical/mental health
   - I have a disability

### OTHER CAUSES 1.8 %

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6 - The cost of unwanted loneliness in Spain
Compared to the population without unwanted loneliness, **people experiencing loneliness have a higher prevalence of diseases.** This is most visible in **depression, chronic anxiety, and heart disease.**

### Loneliness-related diseases (in the last 12 months) (%)

<table>
<thead>
<tr>
<th>Condition</th>
<th>Lonely people</th>
<th>People who are not lonely</th>
</tr>
</thead>
<tbody>
<tr>
<td>Myocardial infarction</td>
<td>6%</td>
<td>0.8%</td>
</tr>
<tr>
<td>Angina, coronary heart disease</td>
<td>8.2%</td>
<td>1.2%</td>
</tr>
<tr>
<td>Other heart diseases</td>
<td>7.4%</td>
<td>5.3%</td>
</tr>
<tr>
<td>Diabetes</td>
<td>11.7%</td>
<td>8.9%</td>
</tr>
<tr>
<td>Depression</td>
<td>39.3%</td>
<td>6.9%</td>
</tr>
<tr>
<td>Chronic anxiety</td>
<td>37.8%</td>
<td>7%</td>
</tr>
<tr>
<td>Other mental illnesses</td>
<td>10.2%</td>
<td>7%</td>
</tr>
<tr>
<td>Ictus</td>
<td>5.5%</td>
<td>0.7%</td>
</tr>
</tbody>
</table>
Moreover, the perception of their state of healthcare and quality of life is worse among people in unwanted loneliness than among the population who do not report feeling this way.

Similarly, people experiencing unwanted loneliness are more likely to use healthcare services. The differences observed in consultations with specialist physicians and ERs are noteworthy.

In addition, they consume more medication prescribed for illnesses related to their situation of loneliness, especially “tranquilizers, relaxants” (33.1% vs. 12.9%) and “antidepressants, stimulants” (23.5% vs. 5.3%).
Use of medical services (average)

- MD consultations last 4 weeks: Lonely people 0.6, People who are not lonely 0.4
- Specialist physician consultations last 4 weeks: Lonely people 0.7, People who are not lonely 0.2
- Hospitalizations last 12 months: Lonely people 0.2, People who are not lonely 0.1
- Days of last hospitalization: Lonely people 0.5, People who are not lonely 0.6
- ER consultations last 12 months: Lonely people 1.2, People who are not lonely 0.5

Use of medication (last 2 weeks)

- Tranquilizers, relaxants: Lonely people 33.1%, People who are not lonely 12.9%
- Heart medicine: Lonely people 7.3%, People who are not lonely 7.1%
- Blood pressure medicines: Lonely people 17%, People who are not lonely 24.2%
- Antidepressants, stimulants: Lonely people 23.6%, People who are not lonely 5.3%
- Diabetes medication: Lonely people 7.1%, People who are not lonely 8.3%
Disability and limitations

Almost 20.8% of people experiencing unwanted loneliness state that they have some kind of disability, mainly impaired mobility and vision.

Around 25.4% of people experiencing loneliness reported having a limitation during the last 6 months in performing daily living activities (washing, dressing, eating, etc.), similar to that of people who do not experience loneliness. However, people experiencing loneliness present a higher level of severity: while 6.5% of people with limitations of people with loneliness state that they are severely limited, this percentage is reduced to 3.8% in the group of people who do not feel lonely.

Only 5.4% of people who feel unwanted loneliness reported receiving some help with daily living activities.

On average, this help is received 4 days a week.

<table>
<thead>
<tr>
<th>Limitations</th>
<th>Severity of limitation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severely limited</td>
<td>6.5%</td>
</tr>
<tr>
<td>Limited but not severely</td>
<td>3.8%</td>
</tr>
<tr>
<td>Not limited</td>
<td>18.4%</td>
</tr>
<tr>
<td></td>
<td>22.1%</td>
</tr>
<tr>
<td></td>
<td>75%</td>
</tr>
<tr>
<td></td>
<td>74.1%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Personal care</th>
<th>Need for personal help</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes, and receives help</td>
<td>5.4%</td>
</tr>
<tr>
<td>Yes, but does not receive help</td>
<td>7.9%</td>
</tr>
<tr>
<td>Not needed</td>
<td>-12.1%</td>
</tr>
</tbody>
</table>
Organizations working in the care of people who are unaccompanied by loneliness, as well as studies carried out, highlight the multiple effects of loneliness on different dimensions of people's lives. Loneliness has a negative impact on mood, satisfaction of vital needs, relationship with the environment, access to community support services, security and, ultimately, on their quality of life.

Moreover, unwanted loneliness is a risk factor for mental health, for pathologies such as depression and anxiety, among others. In turn, loneliness is also a risk factor for physical health, favoring, for example, hypertension and cardiovascular diseases. Research also confirms a higher risk of premature death among people who feel lonely.
Direct tangible costs are healthcare costs directly related to the health problem (costs of primary and specialized care consultations, hospitalization, treatment, consumption of medication, etc.). Indirect costs refer to the productivity losses associated with the pathologies and premature death that unwanted loneliness causes. Tangible costs (direct costs and productivity losses) are presented in monetary units.

Intangible costs refer to the reduction in quality of life due to the physical and emotional suffering experienced by the person experiencing loneliness. Intangible costs are presented in Quality Adjusted Life Years (QALYs). A QALY is a measure of health that measures both losses in Healthcare-Related Quality of Life (HRQoL) and reductions in life expectancy.

Methodology for calculation

The methodology used is the one commonly used in cost-of-illness studies to estimate the social costs of risk factors, such as unwanted loneliness.

Matching and regression techniques have been used to estimate the differences between lonely and non-lonely people in terms of use of healthcare services, consumption of medication, quality of life and reduction of working time. For the estimation of the costs associated with premature deaths, the fractions of deaths that are attributable to loneliness have been calculated using the Relative Risks estimated in survival studies.

The study adopts a prevalence approach, estimating the costs generated by unwanted disease in the year 2021, irrespective of when unwanted disease starts.

5.1 Direct healthcare costs

People experiencing unwanted loneliness show a higher use of healthcare services than the population that does not suffer from loneliness, with more visits to specialist physicians and a greater use of emergency services.

In addition, people experiencing unwanted loneliness consume more “tranquilizers, relaxants”, “anti-depressants, stimulants” and “heart medicines” than people who do not experience loneliness.

In monetary terms, the annual direct healthcare care costs due to the use of healthcare services are 5.6 billion euros. The annual expenditure on medicines due to unwanted loneliness is almost 495.9 million euros.

In total, the annual direct healthcare care costs amount to a total of 6.1 billion euros.
All costs in this executive summary refer to the baseline scenario. For details of all cost estimates in the optimistic and pessimistic scenarios read the full report.
5.2 Costs due to production losses

Unwanted loneliness also causes significant costs due to production losses. We distinguish between production losses non-mortality production losses and production losses due to premature deaths.

Non-mortality production losses

Non-mortality production losses estimate production losses due to reduced working time (less full-time employment and more part-time jobs). Thus, in total, production losses caused by unwanted loneliness are estimated at 7.8 billion euros per year.

Production losses due to premature deaths

The literature shows evidence of a close relationship between loneliness and premature mortality.

A total of 848 premature deaths (511 men and 337 women) associated with unwanted loneliness have been estimated for 2019.

Using sensitivity analysis, these deaths would result in a loss of 6,707 potential years of productive life. This corresponds to an estimated cost in lost productivity of more than 191.2 million euros.

Methodology

For the estimation of premature deaths (also called “avoidable deaths”) the so-called Attributable Risk Fraction (ARF) has been calculated. This concept refers to the proportion of deaths that can be attributed to unwanted loneliness.

Once the premature deaths have been estimated, the future production losses derived from them have been calculated, based on the estimate of the gross wage bill that the individual would cease to receive from the time when the death occurs until the time when he or she should have left the labor market.
5.3 Intangible costs due to loss of quality of life

Intangible costs refer to the loss of well-being as a consequence of being in a situation of unwanted loneliness. The measurement of this loss of quality of life is not given in monetary terms, but in QALYs. A QALY is one year of life in good health.

Quality of life losses include health-related losses, such as limitations in activities of daily living, pain, lack of vitality, depression, etc. This is how the loss of quality of life caused by unwanted loneliness is calculated.

The analysis of intangible costs due to loss of quality of life shows that during the year 2021 approximately 1 million QALYs were lost in Spain, equivalent to 2.79% of the total healthy life years of the Spanish population over 15 years of age.

5.4 QALY losses due to premature deaths

The intangible costs of premature deaths were calculated based on the potential years of quality-adjusted life that will be lost on average, taking into account the survival rates and the Health-Related Quality of Life (HRQoL) experienced on average by the Spanish population.

Thus, the QALYS lost due to premature deaths associated with loneliness are estimated to be 17.9 thousand QALYS. 62% of this corresponds to men.
Unwanted loneliness is a major problem affecting many people in Spain. In addition to the negative effects on people’s quality of life, unwanted loneliness entails very significant economic costs. These costs mainly affect the healthcare system, due to the increased use of healthcare services and consumption of medication, and the productive system, due to losses in productivity, human capital and, in short, a reduction in the generation of wealth.

SoledadES believes that it is necessary for all levels of government to make the fight against unwanted loneliness a priority on their policy agenda, providing coordinated responses with cross-cutting measures and prioritizing those aspects that have the greatest impact on people’s quality of life and the greatest economic consequences. Policies should also pay special attention to those groups most vulnerable to unwanted loneliness, such as disabled people.

Unwanted loneliness is an issue that concerns society as a whole, as it is closely related to social relations, coexistence, mutual help between people, good neighborly relations, primary solidarity, and the social fabric. Consequently, together with the unavoidable commitment of governments, combating unwanted loneliness requires the awareness and active involvement of society as a whole, not only of social initiative organizations, but also of the business community and citizens.
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https://www.soledades.es/