**INTRODUCTION**

With a 5-year survival rate of only 18.0%, lung cancer survivorship has historically been an all too rare occurrence. It is often assumed that someone who was diagnosed with lung cancer should be grateful to experience survivorship. A more common, though often unnoticed, aspect of lung cancer survivorship is the burden of guilt experienced by simply being a survivor of the disease. This feeling of objective guilt is a phenomenon known as survivor guilt. The goal of the present study was to explore the prevalence of survivor guilt among lung cancer survivors as assessed by both a validated measure as well as individuals’ perceptions of experiencing survivor guilt.

**METHODOLOGY**

108 lung cancer survivors completed an online survey via Survey Monkey of their experience with lung cancer survivor guilt. Outcomes assessed focused on examining demographics, survivor guilt, and general feelings toward surviving lung cancer when others did not.

**MEASURES**

1. Demographic and clinical information was assessed via patient self-report.
2. Survivor guilt was assessed using the 22-item “Survivor Guilt” subscale of the Interpersonal Guilt Questionnaire (ICG-67). This 22-item subscale asks participants to rate their level of agreement with questions assessing the degree to which they feel guilty about surviving their cancer.
3. A single-item question was used to assess whether an individual felt as if he/she experienced survivor guilt. Individuals were first given a brief definition of survivor guilt and then asked to explain (open-ended).

**DATA ANALYSIS**

- Descriptive statistics were calculated for demographic variables and measures of survivor guilt. T-tests and Analysis of Variance (ANOVAs) were conducted to examine if there were group differences in the levels of survivor guilt across demographic variables.
- Qualitative analysis of open-ended responses was conducted for 25% of respondents with the highest measured survivor guilt.
- A theoretically derived preliminary coding guide was created:
  - Three authors of the study coded text
  - New codes were added if both coders agreed on the necessity of the code
  - After initial coding, coders discussed and resolved coding discrepancies

**RESULTS**

- 63.9% of survivors scored above average on the ICG-67 Survivor Guilt Scale
- 55% of lung cancer survivors reported experiencing survivor guilt as indicated by the single-item measure
- Survivor guilt did not vary by any of the demographic or clinical characteristics as indicated by T-tests and ANOVAs

**QUALITATIVE ANALYSIS**

Five themes emerged in the open-ended text analysis of individuals with the highest measured survivor guilt:

1. **Theme 1: Death of Others.** Survivors repeatedly referenced the death of someone known to them which caused feelings of guilt.
   - “It’s hard to explain. I have lost a few friends to lung cancer in the last year and I had a hard time when they died. Felt guilty. Still feel guilty around their loved ones.”
2. **Theme 2: Why not me?** Survivors reported negative feelings toward why they did not die of lung cancer rather than why they survived.
   - “I have a hard time understanding why I am still alive and others have not. Lots of people have more to offer the world than I do.”
3. **Theme 3: Effect of the Passing of Time on Emotions Experienced.** Survivors’ feelings changed from grateful to guilty throughout their survivorship journey.
   - “I feel some guilt, and at the same time, being grateful, that my cancer was detected early and that I have had great medical care, I do feel guilty when I see others not have the medical benefit that I have had.”
4. **Theme 4: Effect of Demographic and Clinical Characteristics** on Survivor Guilt. Survivors’ validated their guilt by comparing themselves to others known to them with similar or unique demographic and clinical characteristics.
   - “A simple question of why I am still alive and others are not. I feel I did this to myself because I was a smoker.”
5. **Theme 5: Coping with Survivor Guilt.** Survivors found comfort by being part of a cancer community.
   - “I feel that my diagnosis brought this disease into my life and I will do everything in my power to help others that are suffering from lung cancer.”

**CONCLUSIONS**

The rates of self-report of survivor guilt are high (55%), and these rates are even higher when utilizing a valid, reliable measure (63.9% above average). These combined results indicate that experiences of survivor guilt are common among lung cancer survivors.

Thematic analysis of open-ended qualitative data indicates that lung cancer survivors are suffering from feelings of despair as a result of survivor guilt. Though little research has been done on survivor guilt among any group of cancer survivors, the 5 themes that emerged through the qualitative analysis are consistent with survivor guilt research that has been studied in other populations.

**FUTURE RESEARCH**

Larger studies need to be done to confirm findings of survivor guilt, as well as to allow further insight into demographic and clinical correlates of survivor guilt. Survivor guilt should also be measured across multiple cancer types to determine whether survivor guilt is a unique experience of lung cancer survivors. Thematic results indicate that experiencing survivor guilt is associated with psychosocial burdens on patients, calling for future research to understand survivor guilt better and to target the psychosocial distress experienced so that effective coping mechanisms may be developed for individuals who suffer.

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**SURVIVOR GUILT: THE SECRET BURDEN OF LUNG CANCER SURVIVORSHIP**

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**REFERENCES**