Societal burden and impact on health-related quality of life (HRQoL) of non-small cell lung cancer (NSCLC)

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1. Background

- Non-small cell lung cancer (NSCLC) accounts for approximately 85% of lung cancers in Europe and is associated with substantial societal and economic burdens.1,2
- Analysis of 42,708 people from the lung cancer registry in France (2010-2014) revealed that NSCLC accounted for 30.9% of all cancers, and was the second most common cause of death.1,3
- Earlier diagnosis of NSCLC is associated with a better survival rate and improved HRQoL.4-7
- However, the patient’s experience of NSCLC varies widely, and understanding these differences is key to improving patient outcomes.8

2. Objectives

- To understand the patient burden and societal associated costs with NSCLC in Europe.
- To explore the HRQoL of patients with NSCLC.
- To identify the key drivers of these costs across Europe.

3. Methods

- Two systematic literature reviews (SLRs) were conducted to explore the patient burden of NSCLC and the associated societal burden across Europe.
- The first SLR, titled ‘burden of NSCLC on patients’, aimed to summarize the impact of NSCLC on patients’ HRQoL and understand the key drivers and factors that underpin these impacts.
- The second SLR, titled ‘societal burden and indirect costs associated with NSCLC’, aimed to identify the key drivers of these costs across Europe.

4. Results

- The first SLR, ‘burden of NSCLC on patients’, included 1504 abstracts and 71 full-text articles.
- Of these, 59 abstracts and 46 full-text articles were included in the final analysis.
- The final analysis included 92 studies that explored the impact of NSCLC on patients’ HRQoL, with a focus on emotional and psychological functioning, physical functioning, and social functioning.

5. Conclusions

- The societal burden and impact on HRQoL of NSCLC are significant and vary widely across Europe.
- Understanding the drivers of these costs is crucial for improving patient outcomes.
- Further research is needed to explore the impact of NSCLC on HRQoL, with a focus on emotional and psychological functioning, physical functioning, and social functioning.

References

- European label claims. There is a need for more validated PRO measures to be included within in clinical trials.
- The impact of NSCLC on daily activities, work, social functioning and physical functioning was less commonly reported than overall HRQoL, emotional functioning and physical functioning.
- Although currently none of the PRO instruments identified would be suitable for gaining a more precise understanding of HRQoL, the data presented were found to be highly relevant for providing conclusive evidence for how costs varied across different disease stages.
- The societal burden and impact on HRQoL of NSCLC are significant and vary widely across Europe.
- Understanding the drivers of these costs is crucial for improving patient outcomes.
- Further research is needed to explore the impact of NSCLC on HRQoL, with a focus on emotional and psychological functioning, physical functioning, and social functioning.

Conflict of interest

- The authors declare no conflict of interest.

Figure 1. Patient burden SLR results – PRAIMA diagram

Figure 2. Summary of evidence captured by publications in the patient burden SLR

Figure 3. Societal burden SLR results – PRAIMA diagram

Figure 4. Breakdown of characteristics of publications in societal burden SLR

Figure 5. Breakdown of characteristics of publications in societal burden SLR

Figure 6. Breakdown of characteristics of publications in societal burden SLR

Figure 7. Breakdown of characteristics of publications in societal burden SLR

Figure 8. Breakdown of characteristics of publications in societal burden SLR

Figure 9. Breakdown of characteristics of publications in societal burden SLR

Figure 10. Breakdown of characteristics of publications in societal burden SLR

Figure 11. Breakdown of characteristics of publications in societal burden SLR