

Patient Perspectives on the Lifelong Impact of Preterm Birth in Chronic Respiratory Disease Care

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Introduction

Approximately 15 million infants are born prematurely each year, a status often associated with an increased risk of chronic respiratory conditions such as asthma and Chronic Obstructive Pulmonary Disease (COPD). [1,2]. Data on prematurity impact on respiratory disease progression and management in adulthood remain limited.



Objective

This study aims to investigate **patient awareness** of their **preterm status**, its **perceived impact** on their respiratory health, and how **healthcare professionals** (HCPs) consider preterm status when **managing** these conditions.



Methods

- This cross-sectional international study, based on a web-based survey, was approved by the WCG investigator's institutional review board (IRB) and was composed of 34 questions.
- Adults who **were born preterm** (before 38 weeks of pregnancy) and **diagnosed with asthma, COPD or another chronic respiratory disease** were recruited through Carenity, an online patient community, social media campaigns and Carenity's partners.
- Differences between subgroups were assessed using **Chi-2 tests** and **Wilcoxon tests**. **Multivariate logistic regression models** explored the impact of preterm status on comorbidities, disease perception, and management.

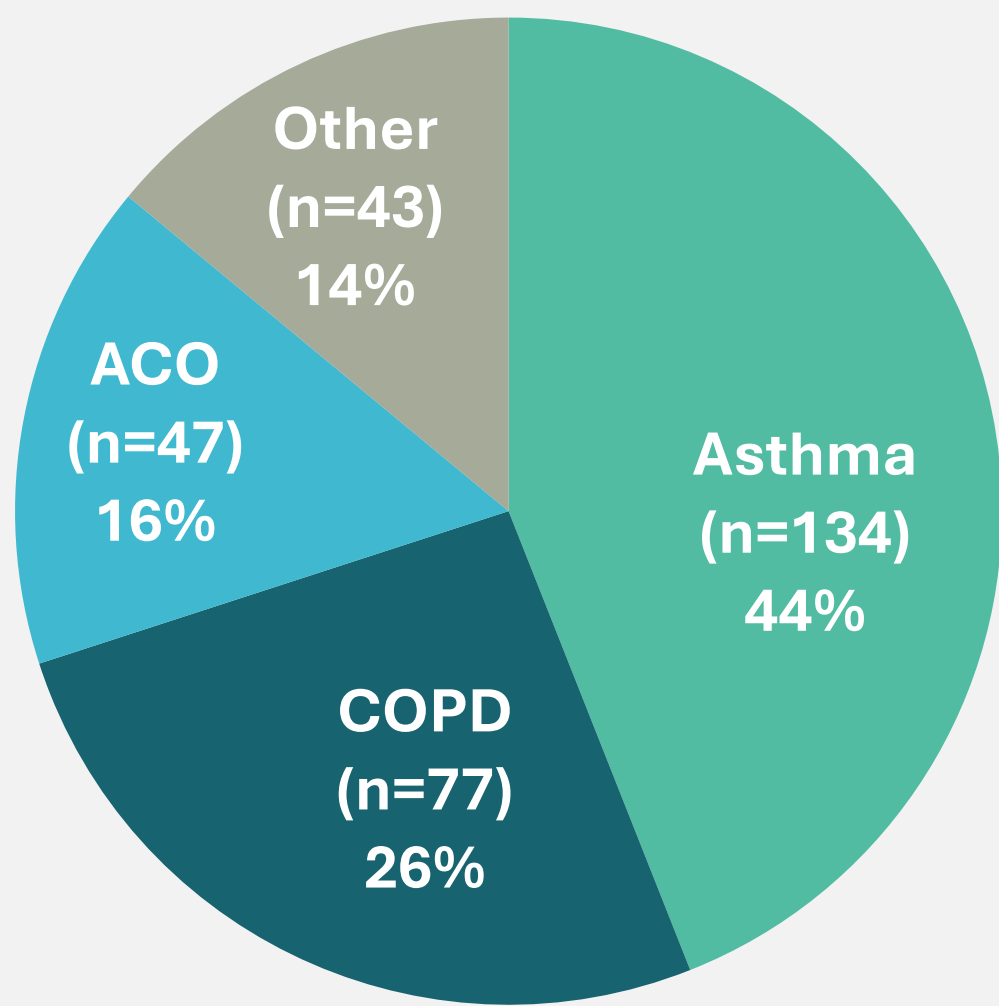
➔ Data from **301 participants** were collected from March to June 2024, in **France, Germany, Spain, the UK** and the **US**.



Results

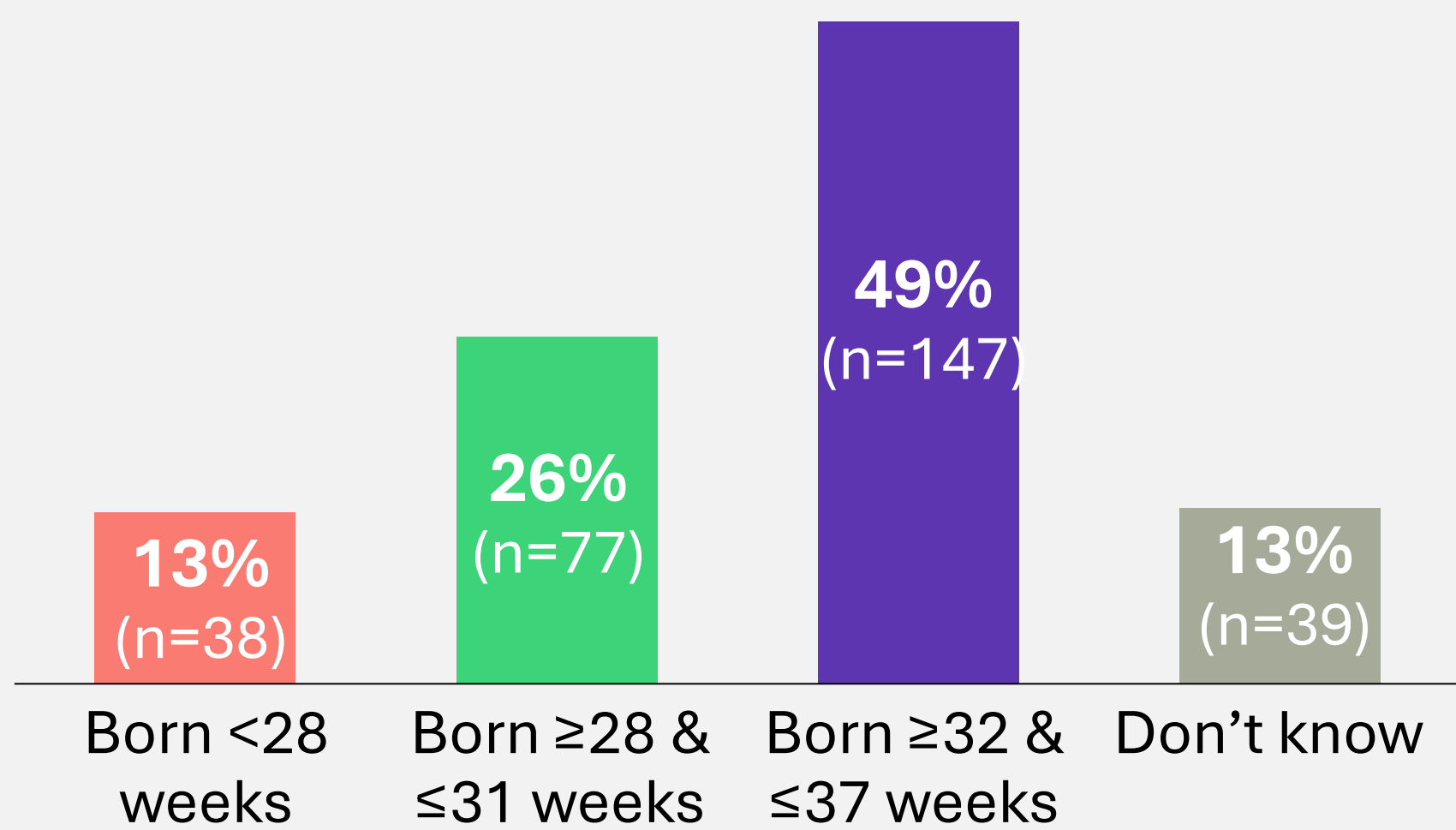
Patients' medical profile and preterm status

Fig1. Reported respiratory conditions (n=301).
ACO: Asthma-COPD overlap syndrome



Mean age (y): 51.9 (SD:15.3)
Gender ratio: 74% women, 26% men

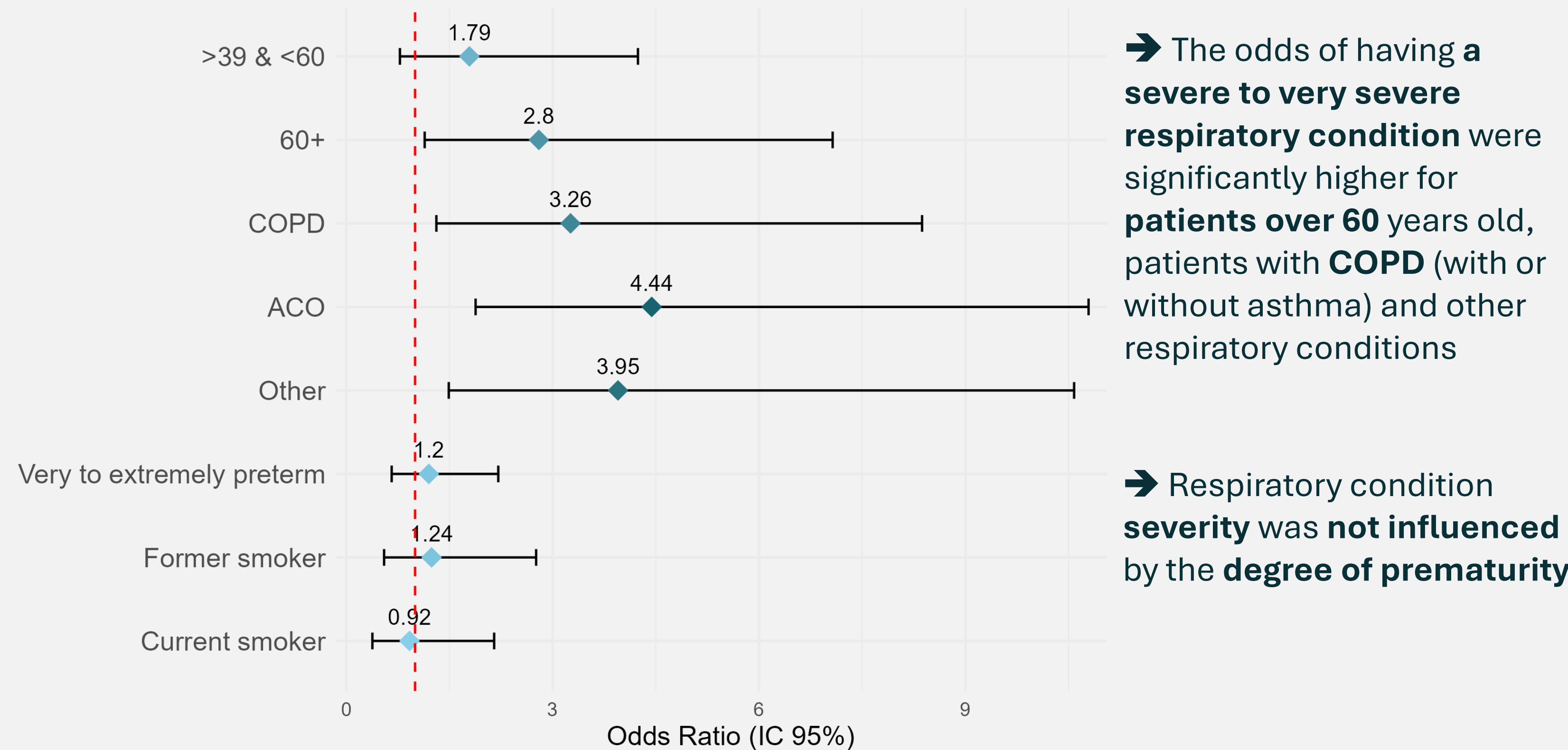
Fig2. Reported preterm status (n=301)



➔ **87% of patients knew their preterm status**

Impact of preterm birth on respiratory condition severity in adulthood

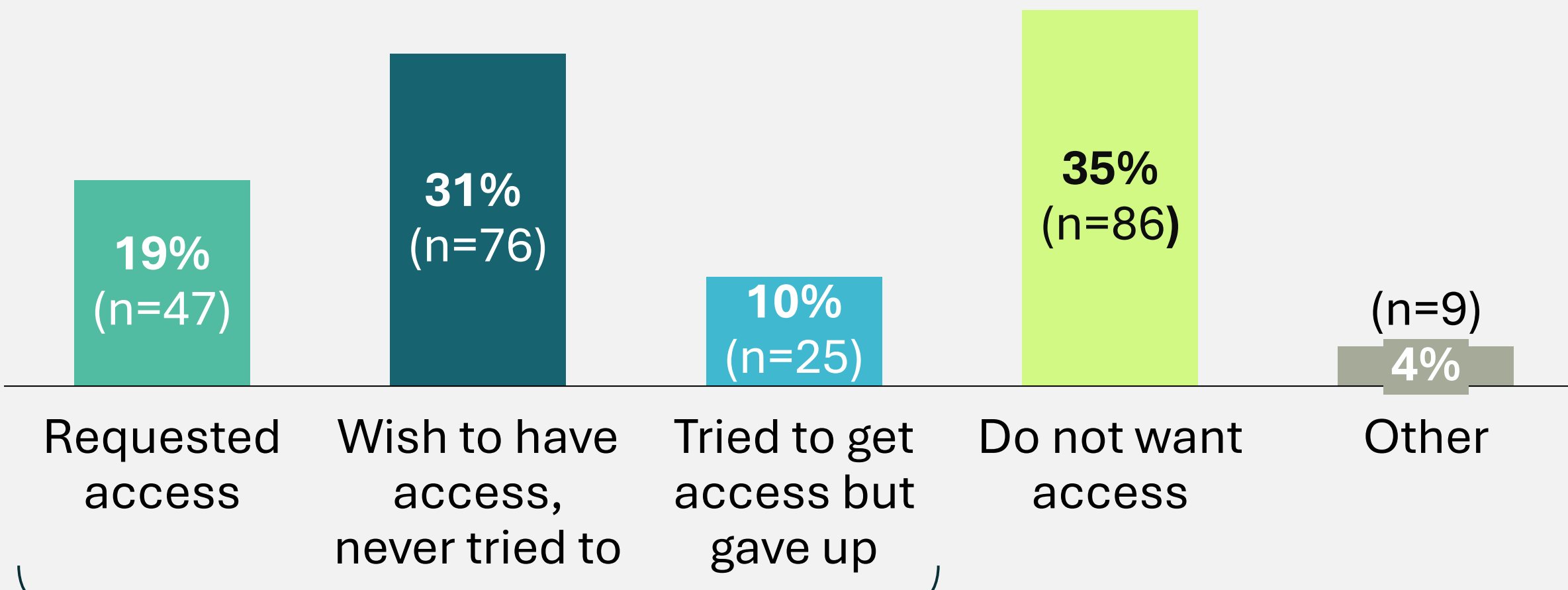
Fig4. Odds of having a severe to very severe respiratory condition, results from a multivariate logistic regression (n=240)



Awareness and access to medical history

- ➔ **87%** of respondents had **medical information** on their first days of life, mostly through **discussions** with relatives (81%).
- ➔ **19%** had access to their **medical files**.

Fig3. Among respondents without access to their medical dossier (n=243), willingness to have access to these files regarding their first days of life



➔ **60%** wanted access or had tried to get access to their files in the past

Estimated impact of preterm birth on lifelong health

Fig5. Median patients' estimation of preterm birth impact on lifelong health by respiratory condition, on a scale of 1: no impact to 5: important impact (n=262)

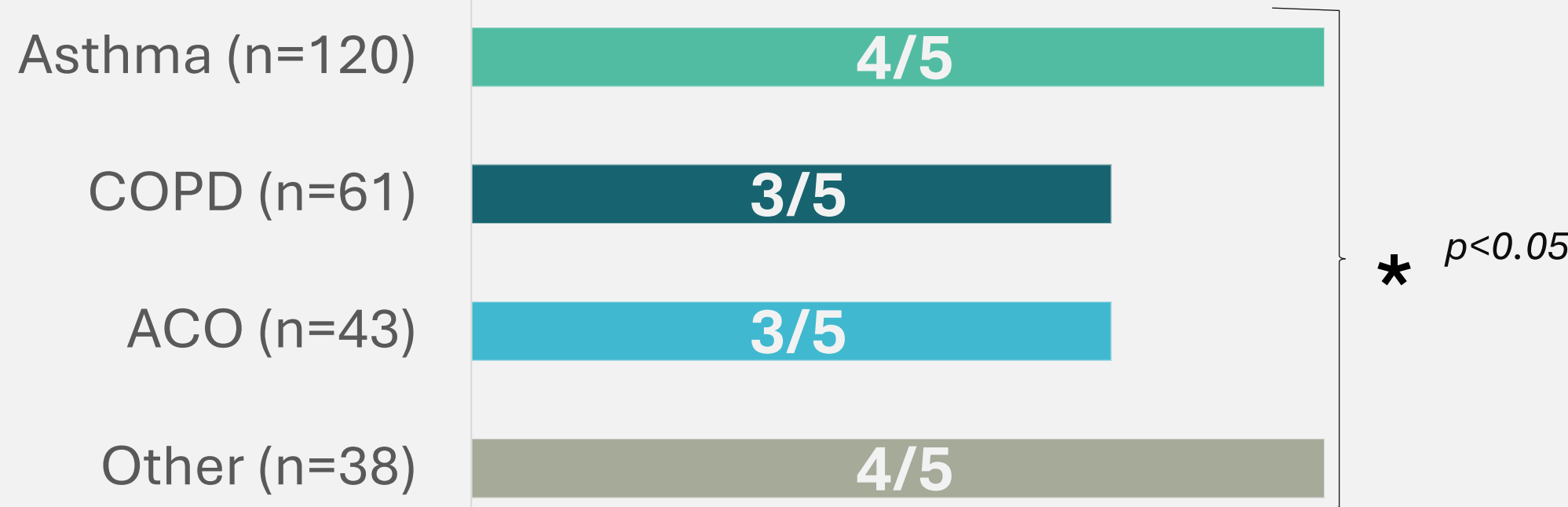
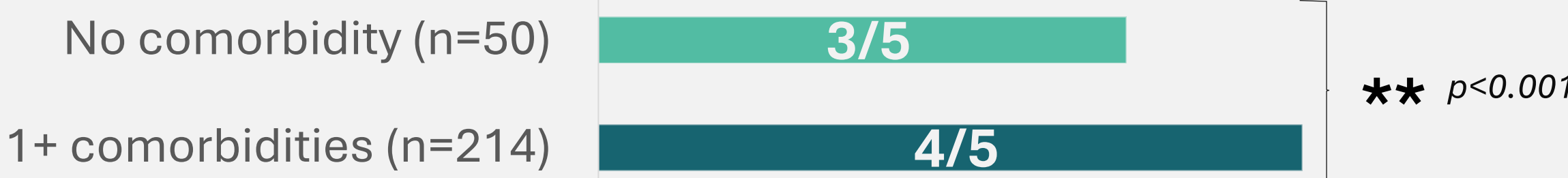


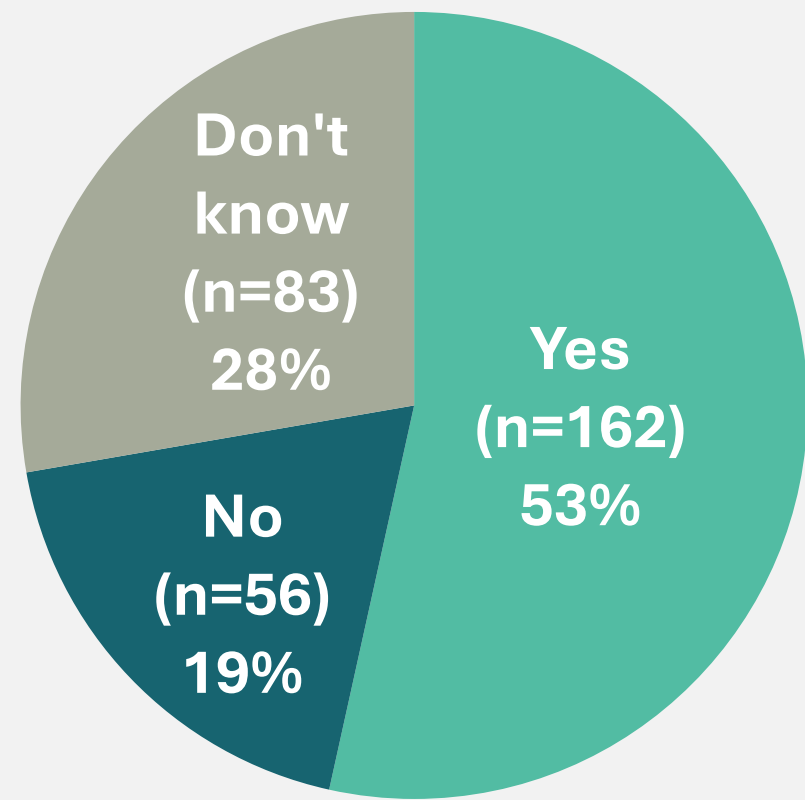
Fig6. Median patients' estimation of preterm birth impact on lifelong health by presence of comorbidity, on a scale of 1: no impact to 5: important impact (n=264)



➔ **Impact** of preterm birth on lifelong health was considered **moderate** (median rating: 3/5) by patients and **varied** with **existing conditions**

HCP's consideration of preterm status during care journey

Fig7. Proportion of patients thinking that prematurity should be considered when managing their respiratory condition(s) (n=301)



- ➔ Most patients believed that their preterm status **should be considered** when managing their condition
- ➔ Yet, only **1/4** shared it spontaneously when meeting their current HCP
- ➔ **1/3** of the HCPs with who preterm status was shared **did not react**.

Fig8. Proportion of patients who shared their preterm status during the first appointment with the HCP currently managing their condition(s) (n=287)

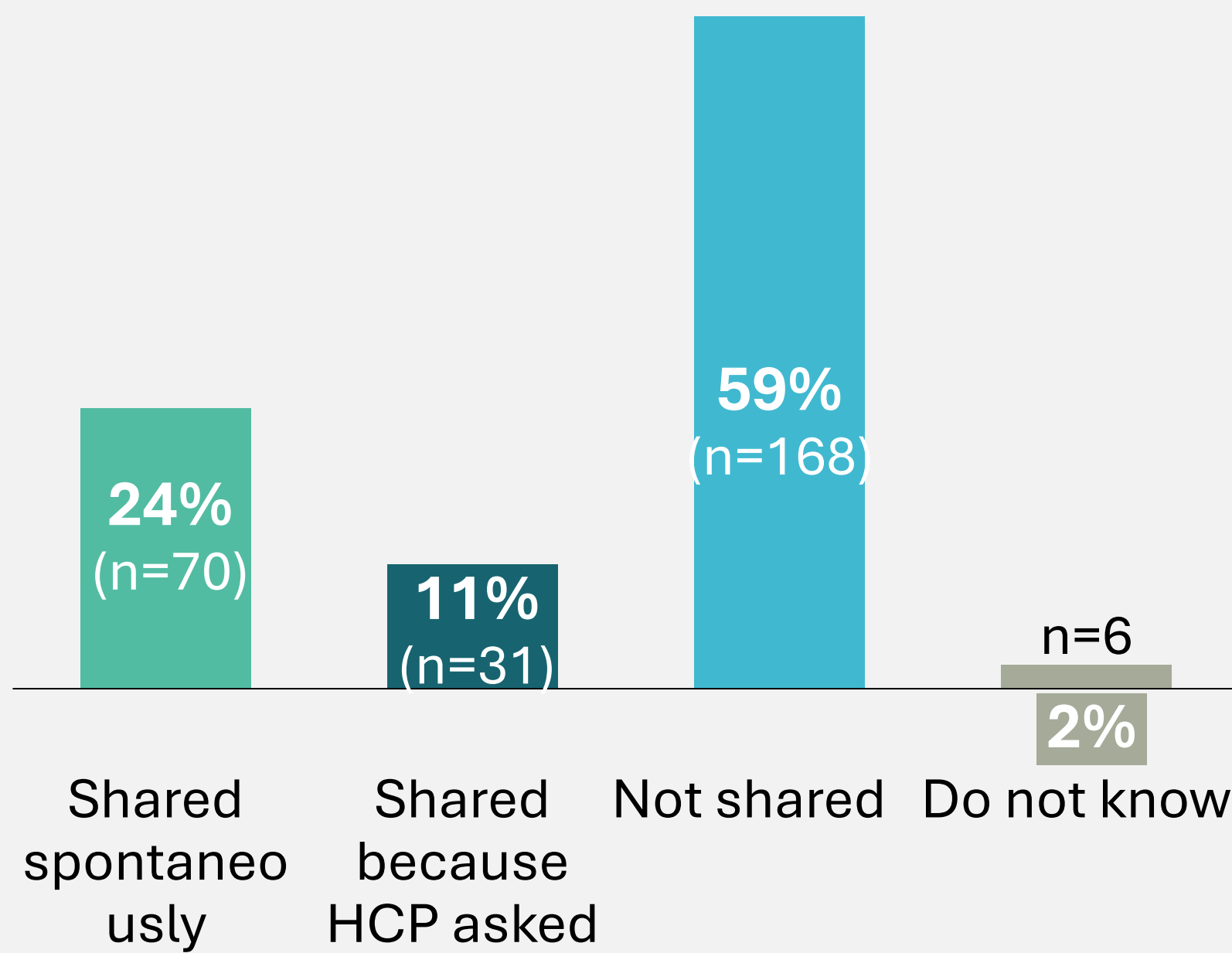
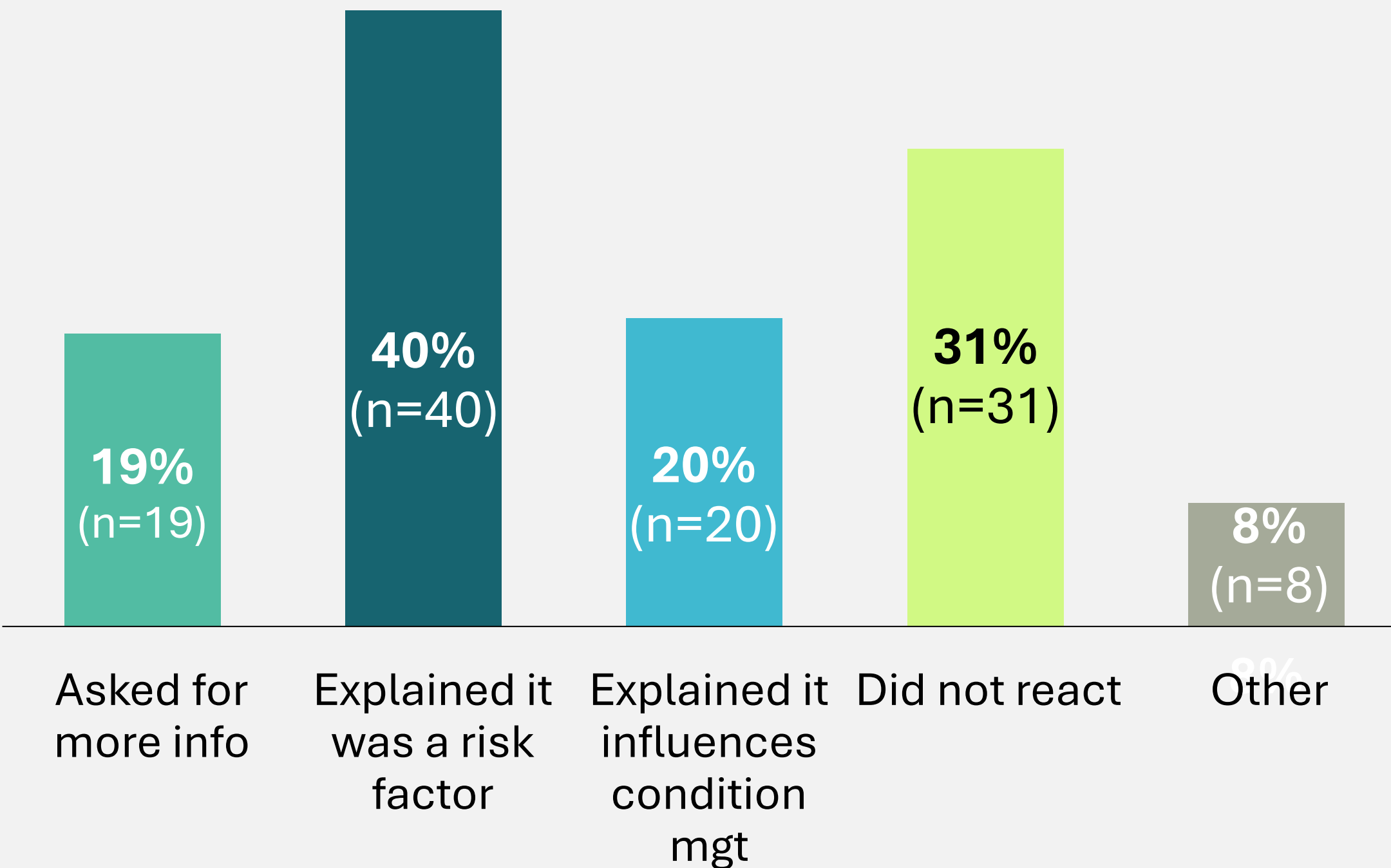


Fig9. HCP reaction to preterm status being shared (for patients who shared their preterm status, n=101)



Conclusion

- Most adults** with **chronic respiratory conditions** born prematurely are **aware of their preterm status** and perceive it as having a **moderate lifelong impact on their health**.
- Prematurity does not** appear to **significantly influence the severity** of **respiratory diseases** in adulthood.
- While many patients believe preterm status **should be considered in their care**, **HCPs rarely incorporate** this information.

➔ **Increasing awareness** among HCPs about the **long-term effects of prematurity** may support **more tailored disease management strategies**.



References & Funding statements

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