

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



Poster n°: 633033

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Context & objectives



Approximately 15 million infants are born prematurely each year [1].

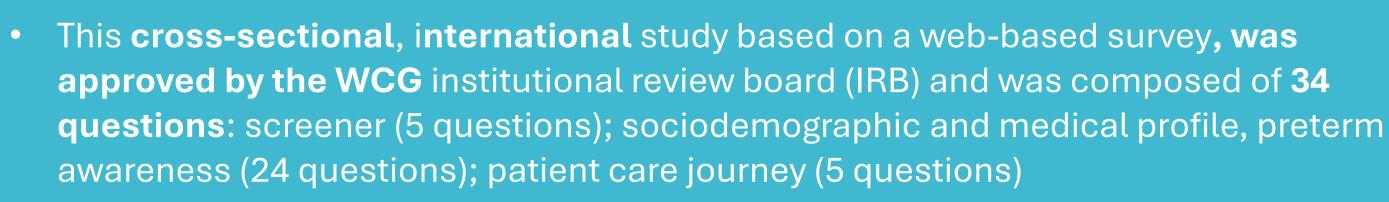


Preterm status is often associated with lifelong chronic respiratory conditions, such as asthma and Chronic Obstructive Pulmonary Disease (COPD) [2]. Data on prematurity impact on respiratory disease progression and management in adulthood remain limited.

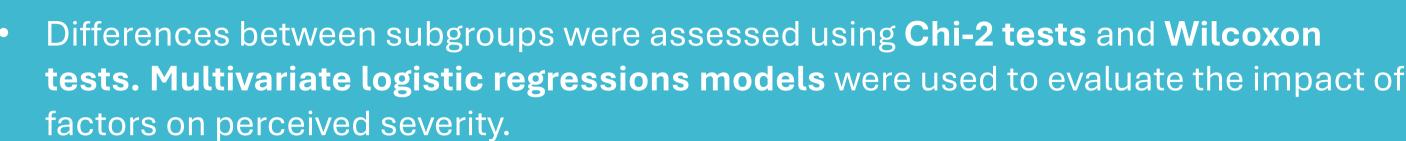


This study aims to investigate patient awareness of their preterm status, its perceived impact on their respiratory health, and how healthcare professionals (HCPs) consider preterm status when managing these conditions.

Methods



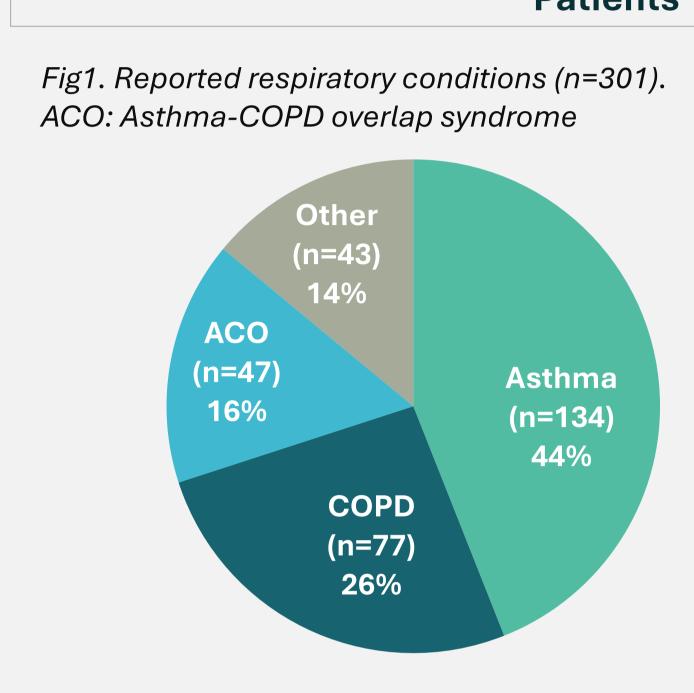




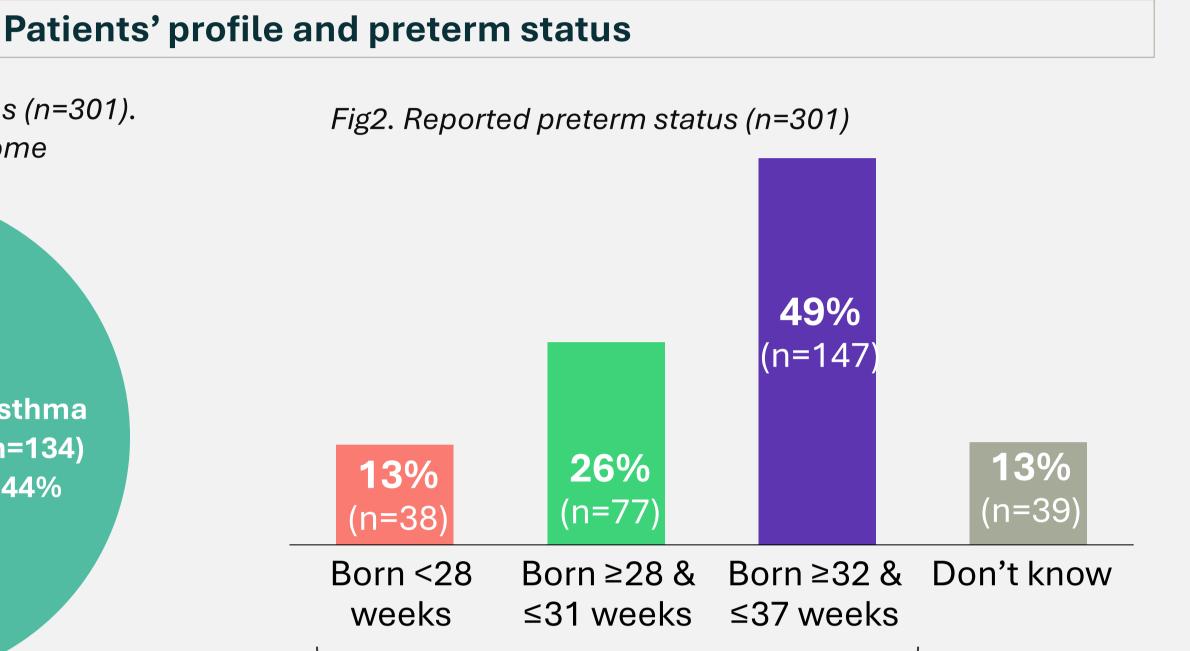
→ Data from **301 participants** were collected from March to June 2024, in **France**

(n=109), Germany (n=39), Spain (n=37), the UK (n=72), the US (n=44).

Results



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

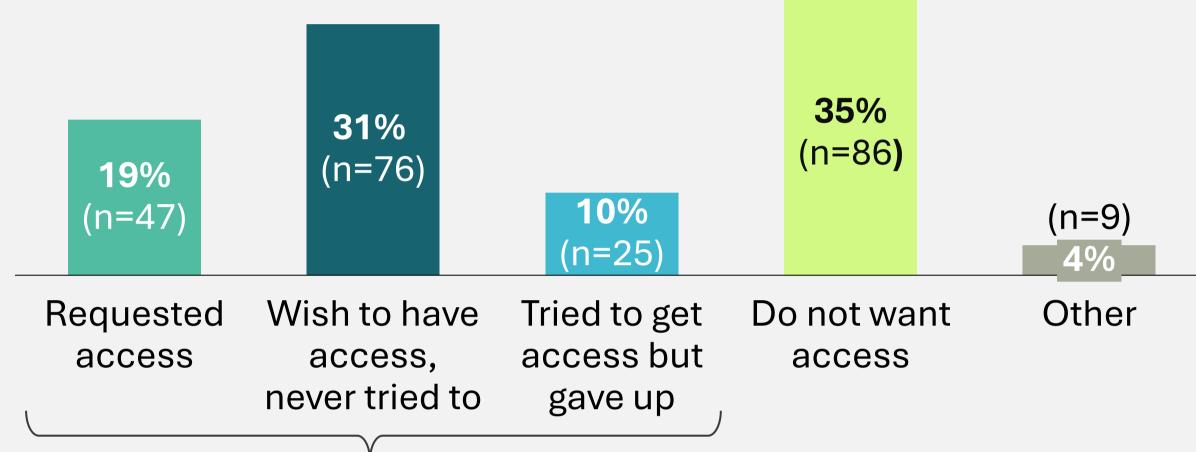


→ 87% of patients knew their preterm status

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

Impact of preterm birth on respiratory condition severity in adulthood

	Categories (n)	OR (IQR)	р
Age	<40 (67)	ref	
	≥40 & <60 (84)	1.79 (0.78; 4.24)	0.174
	60+ (89)	2.80 (1.14; 7.07)	0.026
Respiratory conditions	Asthma (115)	ref	
	COPD (58)	3.26 (1.31; 8.37)	0.012
	ACO (43)	4.44 (1.88; 10.79)	<0.001
	Other (24)	3.95 (1.49;10.58)	0.006
Preterm status	Moderate to late (135)	ref	
	Very to extremely (105)	1.20 (0.66; 2.21)	0.547
Smoking status	Never smoke (88)	ref	
	Former smoker (86)	1.24 (0.55; 2.76)	0.594
	Current smoker (66)	0.92 (0.38; 2.15)	0.843

Table 1. Odds of having a severe to very severe respiratory condition, results from a multivariate logistic regression

The odds of having a severe to very severe respiratory condition were significantly higher for patients over 60 years old, patients with **COPD** (with or without asthma) and other respiratory conditions

Respiratory condition **severity** was **not** influenced by the degree of prematurity

Estimated impact of preterm birth on lifelong health

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

Fig4. Median patients' estimation of preterm birth impact on lifelong health by respiratory condition, on a scale of 1: no impact to 5: important impact

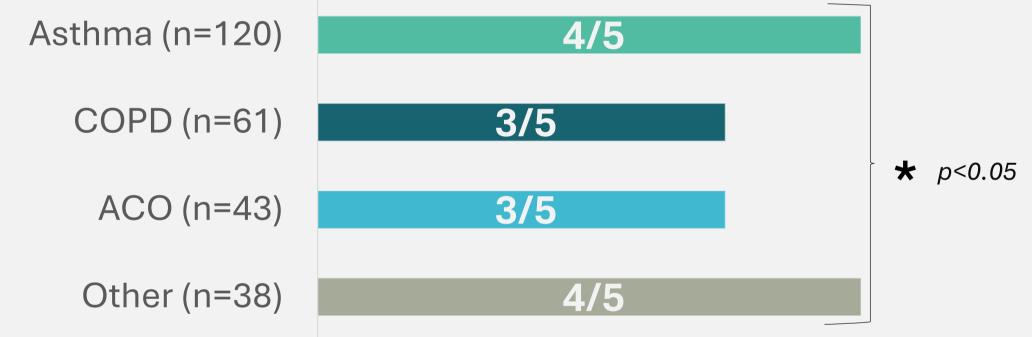
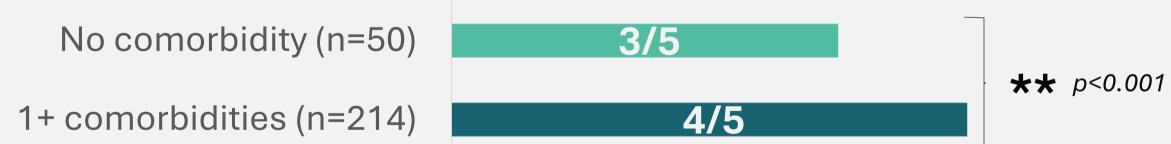
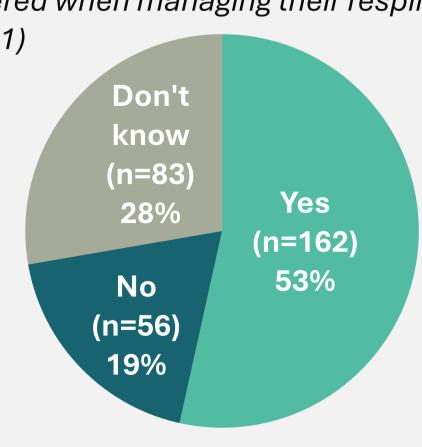


Fig5. Median patients' estimation of preterm birth impact on lifelong health by presence of comorbidity, on a scale of 1: no impact to 5: important impact



HCP's consideration of preterm status during care journey

Fig6. 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.

Environ Res Public Health. 2022;19(9):5273. doi:10.3390/ijerph19095273

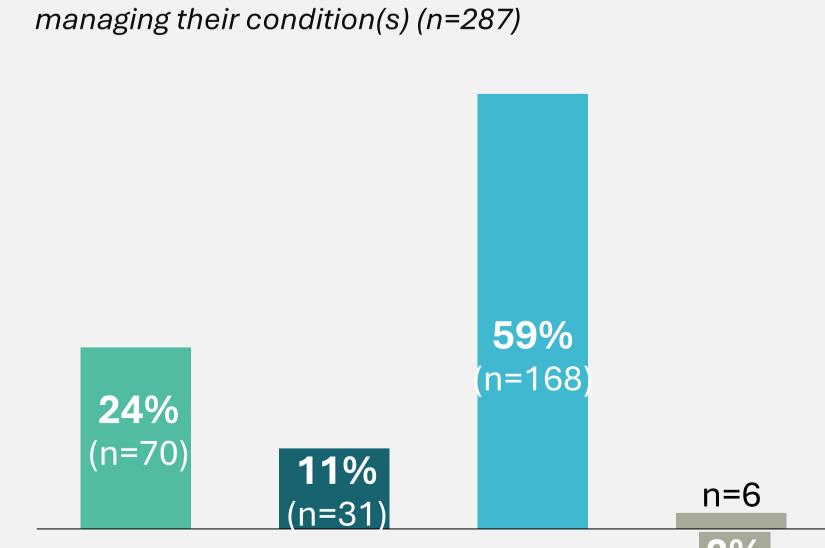


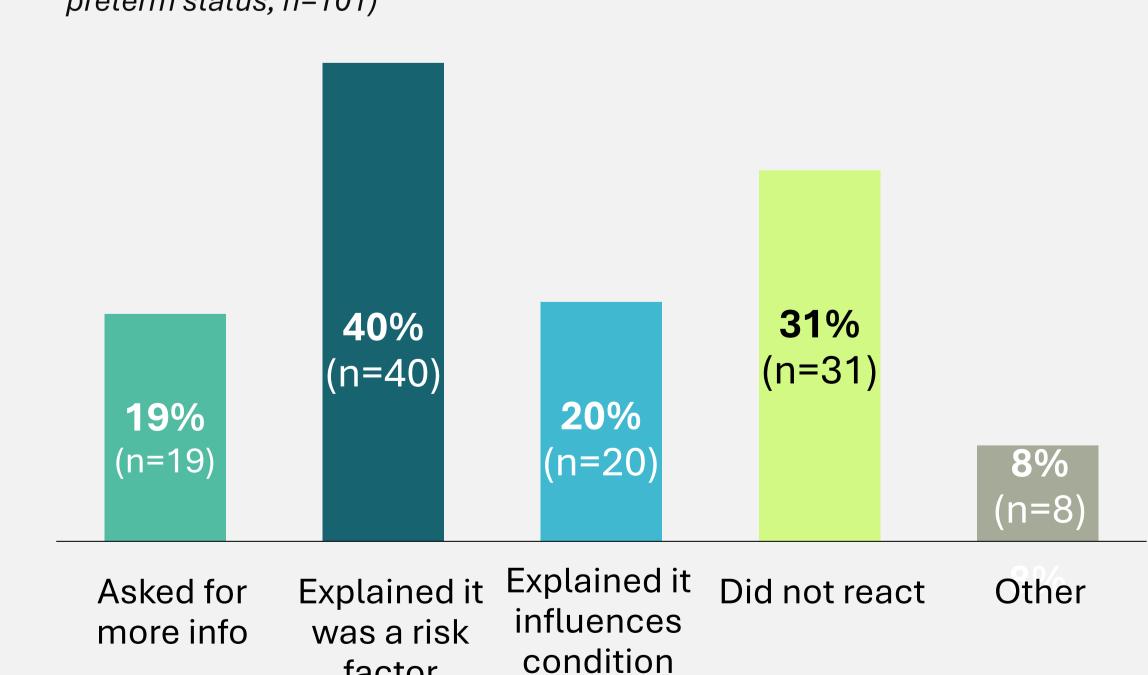
Fig7. Proportion of patients who shared their preterm status

during the first appointment with the HCP currently

2% Shared Not shared Do not know Shared spontaneo because **HCP** asked usly

Financial disclosure:

Fig8. HCP reaction to preterm status being shared (for patients who shared their preterm status, n=101)



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factor

- 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. However, 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:

Conclusion

1. Torchin H, Ancel PY, Jarreau PH, Goffinet F. [Epidemiology of preterm birth: Prevalence, recent trends, short- and

long-term outcomes]. J Gynecol Obstet Biol Reprod (Paris). 2015;44(8):723-731. doi:10.1016/j.jgyn.2015.06.010 2. 2. Di Filippo P, Dodi G, Ciarelli F, Di Pillo S, Chiarelli F, Attanasi M. Lifelong lung sequelae of prematurity. Int J