Post-hospitalization mortality in patients with idiopathic pulmonary fibrosis: data from the IPF-PRO Registry



Hyun J Kim,¹ Laurie D Snyder,²,³ Ayodeji Adegunsoye,⁴ Megan L Neely,²,³ Shaun Bender,⁵ Eric S White,⁵ Craig S Conoscenti,⁵ Mary E Strek⁴ on behalf of the IPF-PRO Registry investigators

¹University of Minnesota, Minneapolis, Minnesota, USA; ¹Duke Clinical Research Institute, Durham, North Carolina, USA; ¹Boehringer Ingelheim Pharmaceuticals, Inc., Ridgefield, Connecticut, USA.

INTRODUCTION

- Hospitalizations are common among patients with idiopathic pulmonary fibrosis (IPF) and are associated with high mortality, particularly hospitalizations with a respiratory cause.¹⁻⁴
- The Idiopathic Pulmonary Fibrosis Prospective Outcomes (IPF-PRO) Registry (NCT01915511) is a prospective observational US registry of patients with IPF.⁵

AIM

To evaluate the risk of mortality following different types of hospitalization in patients with IPF.

METHODS

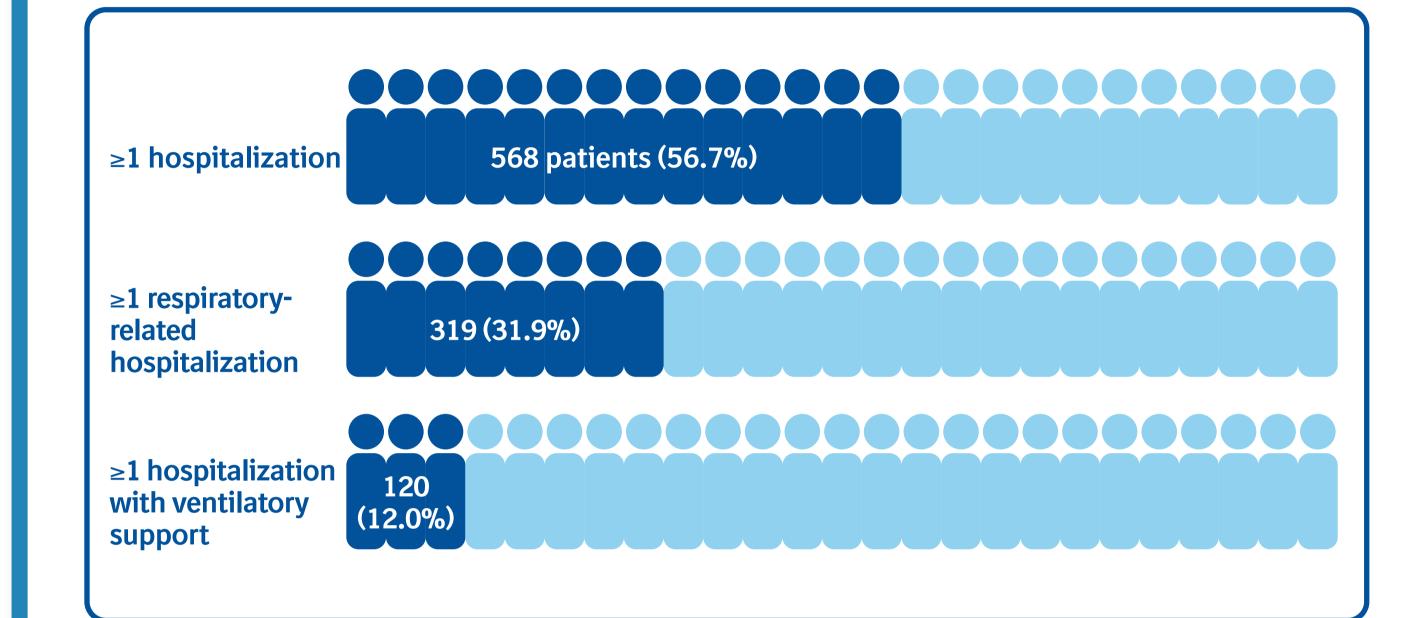
- Hospitalizations reported while patients were followed in the IPF-PRO Registry were categorized by the investigator as having a respiratory or a non-respiratory cause and as with or without ventilatory support.
- Kaplan-Meier event rates of death at month 60 were estimated among patients with ≥1 hospitalization, ≥1 respiratory-related hospitalization, and ≥1 hospitalization with ventilatory support.
- Associations between hospitalizations and mortality during hospitalization or within 90, 180 and 360 days of discharge were analyzed using univariable and multivariable Cox regression models.
- The multivariable model included age, body mass index (BMI), FVC % predicted, DLco % predicted, oxygen at rest, and history of coronary artery disease or heart failure at enrollment, in addition to hospitalization as a time-dependent covariate.

CONCLUSIONS

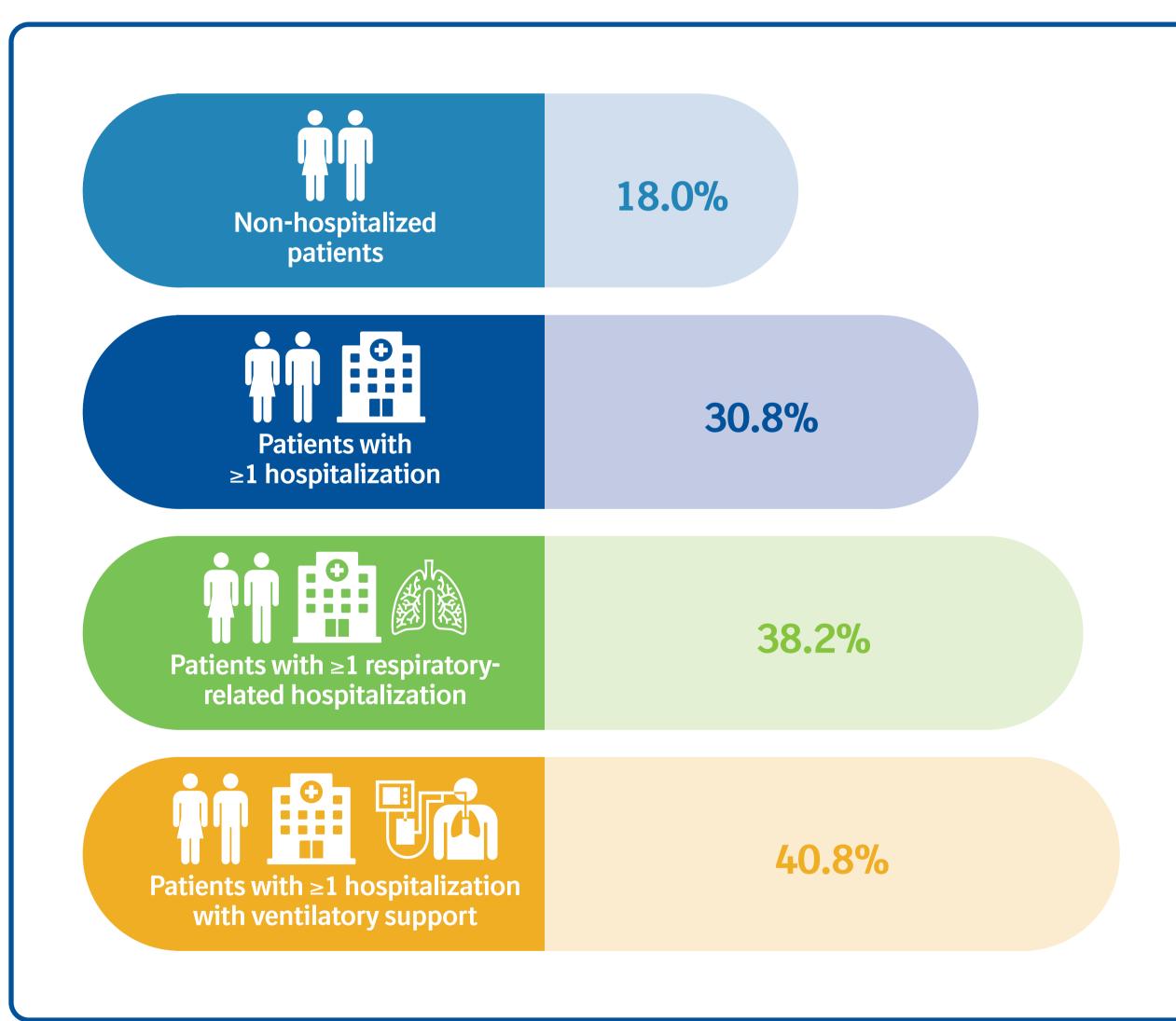
- Hospitalizations were common in patients with IPF in the IPF-PRO Registry.
- The risk of mortality during hospitalization or within 90 days of discharge was high, particularly among patients who were hospitalized for a respiratory cause or who received ventilatory support.

Hospitalizations

• The analysis cohort included 1001 patients enrolled at 46 sites. Median (Q1, Q3) follow-up time in the registry was 23.7 (15.4, 36.0) months.

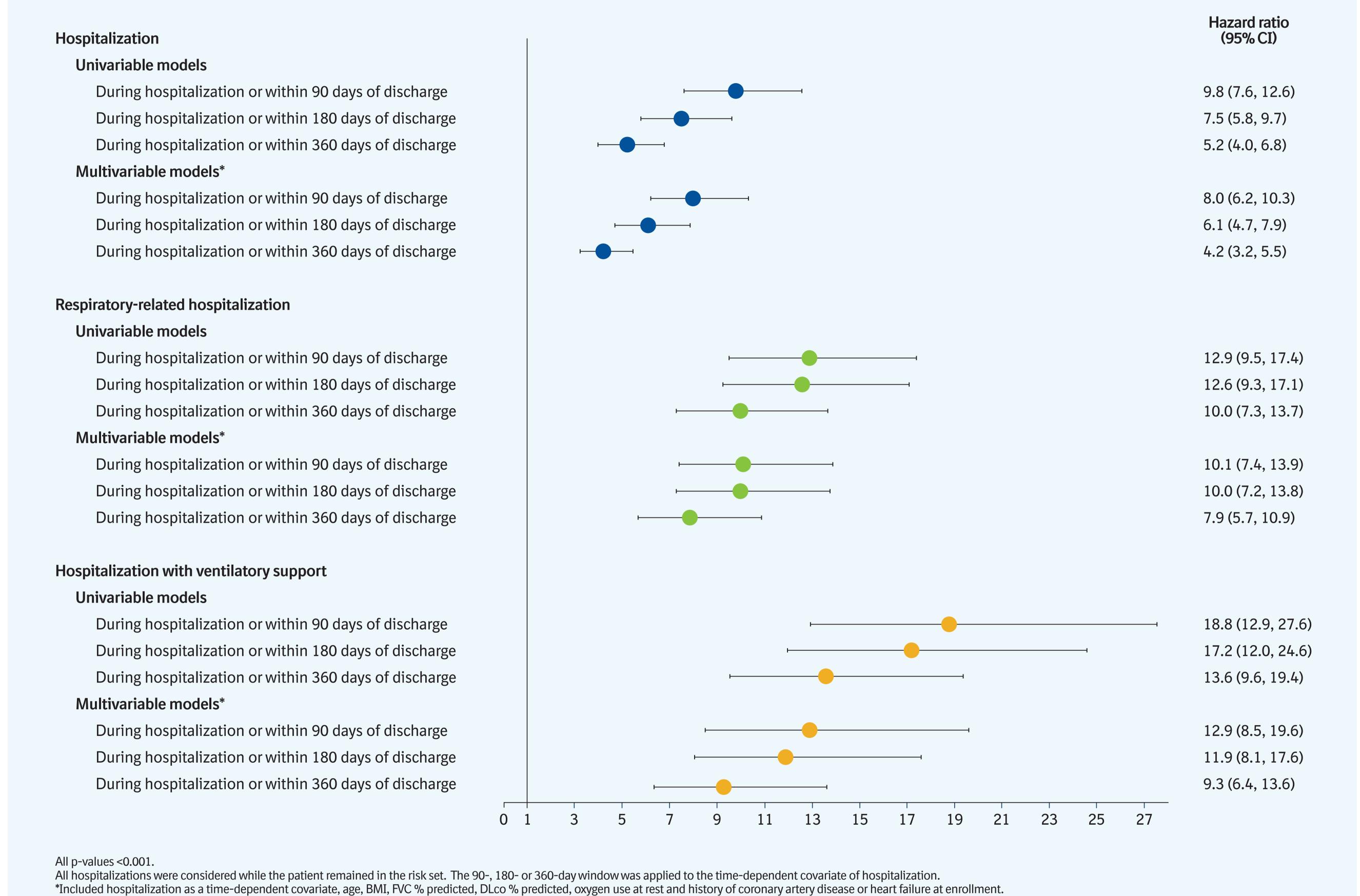


Kaplan-Meier estimated rates of death at month 60



RESULTS

Associations between hospitalizations and mortality



REFERENCES

1. Durheim MT et al. Lancet Respir Med 2015;3:388–396.

3. Durheim MT et al. Medicine (Baltimore) 2020;99:e23143.

2. Algalyoobi S et al. BMC Pulm Med 2020;20:289

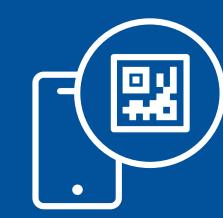
- 4. Song JW et al. Eur Respir J 2011;37:356-63.
- 5. O'Brien EC et al. BMJ Open Respir Res 2016;3:e000108.

ACKNOWLEDGEMENTS AND DISCLOSURES

The IPF-PRO/ILD-PRO Registry is funded by Boehringer Ingelheim Pharmaceuticals, Inc (BIPI) and coordinated by the Duke Clinical Research Institute (DCRI). The authors did not receive payment for development of this poster. Editorial support and formatting assistance were provided by Julie Fleming and Wendy Morris of Fleishman Hillard, London, UK, which was contracted and funded by Julie Fleming and Wendy Morris of Fleishman Hillard, London, UK, which was contracted and funded by Julie Fleming and Wendy Morris of Fleishman Hillard, London, UK, which was contracted and funded by Julie Fleming and Wendy Morris of Fleishman Hillard, London, UK, which was contracted and funded by Julie Fleming and Wendy Morris of Fleishman Hillard, London, UK, which was contracted and funded by Julie Fleming and Wendy Morris of Fleishman Hillard, London, UK, which was contracted and funded by Julie Fleming and Wendy Morris of Fleishman Hillard, London, UK, which was given the opportunity to review the poster for medical and scientific accuracy as well as intellectual property considerations. for the IPF-PRO/ILD-PRO Registry. Mary E Strek reports grants, personal fees and non-financial support from Boehringer Ingelheim, grants from Galapagos, and personal fees from FibroGen.



Scan QR code or visit URL for a webpage featuring all BI-supported publications at ATS 2021.



Scan QR code or visit URL for a device-friendly version of this poster. for a device-friendly version



IPF-PRO™ Registry enrolling centers: Albany Medical Center, Albany, NY; Baylor College of Medicine, Houston, TX; Baylor University Medical Center & The Medical Center & The Medical Center & The Medical Center of Medical Center of Medical Center, Durham, NC; Froedtert & The Medical Center & The Medical Center of Medi College of Wisconsin Community Physicians, Milwaukee, WI; Houston Methodist Lung Center, Houston, TX; Lahey Clinic, Burlington, MA; Loyola University of South Carolina, Charleston, SC; National Jewish Health, Denver, CO; NYU Medical Center, New York, NY; Piedmont Healthcare, Austell, GA; Pulmonary Associates of Stamford, CT; PulmonIx LLC, Greensboro, NC; Renovatio Clinical, The Woodlands, TX; Salem Chest and Southeastern Philadelphia, PA; The Oregon Clinic, Portland, OR; Tulane University of California, Davis, Sacramento, CA; University of Chicago, Chicago, IL; University of Cincinnati Medical Center, Cincinnati, OH; University of Louisville, Louisville, Louisville, KY; University of Minnesota, Minneapolis, MN; University of Minnesota, Minnesot Nashville, TN; Vermont Lung Center, Colchester, VT; Wake Forest University, Winston Salem, NC; Washington Health and PMG Research, Wilmington, NC; Yale School of Medicine, New Haven, CT.