

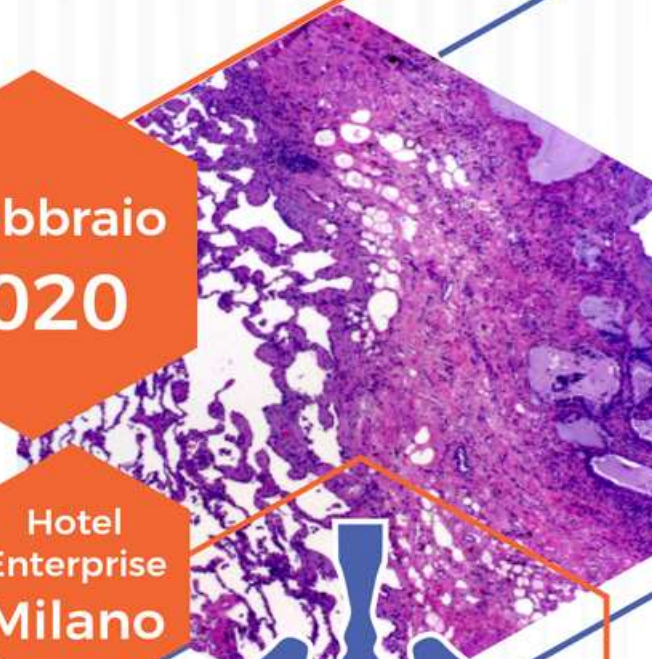


Convegno di presentazione della versione italiana delle linee guida per la diagnosi di fibrosi polmonare idiopatica

Linee guida
ufficiali ATS/
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per la pratica
clinica

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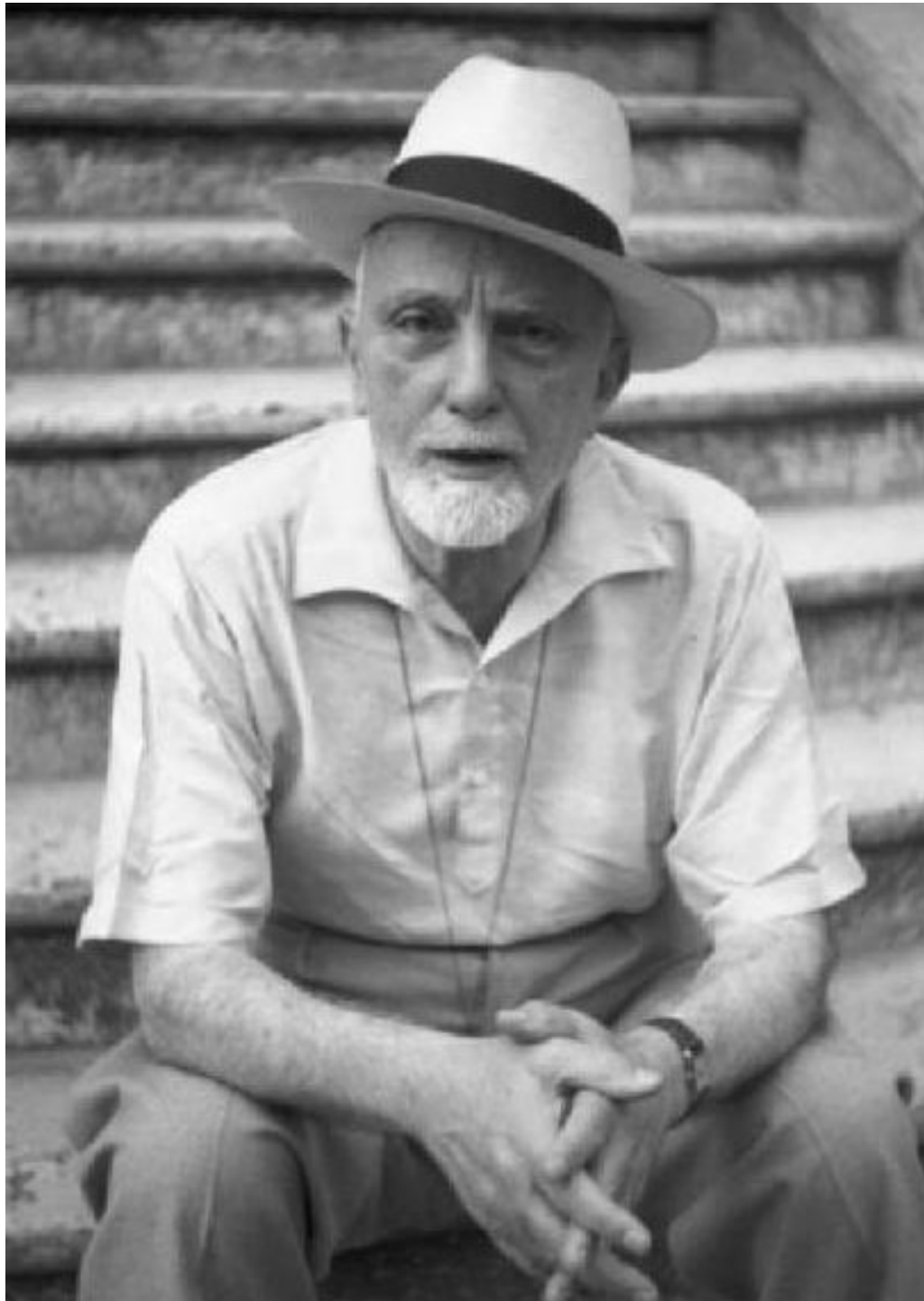
La realtà italiana

Antonella Caminati

U.O. di Pneumologia e Terapia Semi Intensiva

Servizio di Fisiopatologia Respiratoria ed Emodinamica Polmonare

Osp. San Giuseppe - MultiMedica, Milano



The prevalence of IPF increases with age

Estimates of the mean annual standardized IPF incidence rates (for 100000 person/years) in Lombardy during 2005 -2010 by age and NCD

| Age classes | |
|-------------|--------------------|
| <55 | 0.39 (0.33–0.46) |
| 55–59 | 2.22 (1.75–2.70) |
| 60–64 | 4.13 (3.45–4.80) |
| 65–69 | 5.59 (4.78–6.39) |
| 70–74 | 7.53 (6.52–8.53) |
| 75–79 | 10.40 (9.08–11.72) |
| 80–84 | 11.45 (9.81–13.10) |
| 85+ | 8.29 (6.69–9.88) |

Harari S et al. PLoS ONE 2016; 11 (2): e0147072.

Idiopathic pulmonary fibrosis (IPF) incidence and prevalence in Italy

Agabiti N, Porretta MA, Bauleo L, Coppola A, Sergiacomi G, Fusco A, Cavalli F, Zappa MC, Vignarola R, Carlone S, Facchini G, Mariotta S, Palange P, Valente S, Pasciuto G, Pezzuto G, Orlandi A, Fusco D, Davoli M, Saltini C, Puxeddu E.

Sarcoidosis Vasc Diffuse Lung Dis 2014 ; 20 (3): 191-7

RESULTS: Annual prevalence and incidence of IPF were estimated at 25.6 per 100,000 and 7.5 per 100,000 using the ICD9-CM code 516.3 without chart audit while they were estimated at 31.6 per 100,000 and at 9,3 per 100,000 for the IPF "confident" definition after hospital chart audit.

RESEARCH ARTICLE

Epidemiology of Idiopathic Pulmonary Fibrosis in Northern Italy

Sergio Harari^{1☯*}, Fabiana Madotto^{2☯}, Antonella Caminati¹, Sara Conti²,
Giancarlo Cesana²

- The mean annual incidence rate was estimated at 2.3 and 5.3 per 100,000 person-years. Trend remained stable over the years.
- The estimated annual prevalence rate was 35.5, 22.4, and 12.6 per 100,000 person-years using GCD, BCD and NCD, respectively,

Harari S et al. PLoS ONE 2016; 11 (2): e0147072.



Epidemiology of idiopathic pulmonary fibrosis: a population-based study in primary care

Sergio Harari¹ · Michele Davi² · Alice Biffi¹  · Antonella Caminati¹ · Alessandra Ghirardini² · Valeria Lovato² · Claudio Cricelli³ · Francesco Lapi⁴

The increase of the incidence rates is likely due to a growing awareness for IPF among General Practitioners, while the increase of prevalence rates may be due to an increase of survival, a result of recent advances in the diagnosis, management and therapies for the disease.



7A

14:45 - 16:45

The best of the European Respiratory Journal in 2019



Chairs : James D. Chalmers, Martin Kolb

The association between air pollution and the incidence of idiopathic pulmonary fibrosis in Northern Italy

Sara Conti¹, Sergio Harari², Antonella Caminati³, Antonella Zanobetti³, Joel D. Schwartz⁴, Pietro A. Bertazzi¹, Giancarlo Cesana¹ and Fabiana Madotto¹

Affiliations: ¹Research Centre on Public Health, Dept of Medicine and Surgery, University of Milano-Bicocca, Milan, Italy; ²Unità Operativa di Pneumologia e Terapia Semi-Intensiva Respiratoria, Servizio di Fisiopatologia Respiratoria ed Endocrinologia Polmonare, Ospedale San Giuseppe-MultiMedica IRCCS, Milan, Italy; ³Dept of Environmental Health, Harvard T.H. Chan School of Public Health, Boston, MA, USA; ⁴Dept of Preventive Medicine, Fondazione IRCCS Ca Grande Ospedale Maggiore Policlinico, Milan, Italy

ERJ 2018

- 2093 new cases over 5 years - 2005-2010
- Correlated with daily air quality measures
- NO₂ but not PM or O₃ appeared to be associated with increased risk

Traffic exposures, air pollution and outcomes in pulmonary arterial hypertension: a UK cohort study analysis

Elmi Selanpää^{1,21}, Stephen Kaptege³, Stefan Gräßl^{4,5,6}, Charaka Hadinnapala⁷, Carmen M. Treacy^{8,9}, Colin Church^{6,7}, Gerry Coghlan⁸, J. Simon R. Gibbs¹⁰, Matthias Hamel^{11,12}, Luke S. Howard^{13,14}, Martin Johnson¹⁵, David G. Kiviy¹⁶, Allan Lerner¹⁷, James Lordan¹⁸, Robert V. MacKenzie Russ¹⁹, Jennifer M. Martin^{1,14}, Shahin Mohtashemi²⁰, Michael P. Newman²¹, Andrew J. Peacock⁴, Laura C. Price^{1,11}, Christopher J. Rhodes¹⁷, Jay Santharalingam¹⁴, Emilia M. Suredik^{2,9}, Mark B. Tashner¹⁰, John Wharton¹¹, Martin R. Wilkins¹², Stephen J. Wort¹⁵, Joanna Pepke-Zaba⁹, Robin Condliffe¹¹, Paul A. Corris¹², Emanuele Di Angelantonio^{1,18,19}, Steve Provencher²⁰ and Nicholas W. Morrell^{1,2,21}

ERJ 2019

- Correlated exposure to TRAP in 301 patients with severity and outcome of PAH
- PM_{2.5} associated with poorer prognosis
- Proximity to roads with worse haemodynamics at presentation



Louis Irving

The best ERJ papers in environment, pollution and lung research



ERS

INTERNATIONAL CONGRESS 2019
MADRID Spain, 28 September - 2 October

To participate go to

<http://vote.erscongress.org/#339> or on the corresponding session in the App. Questions will be displayed automatically.

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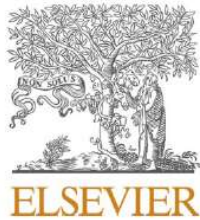
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..but real life is not a
clinical trial...





Contents lists available at [ScienceDirect](#)

Respiratory Medicine

journal homepage: <http://www.elsevier.com/locate/rmed>



Real-life comparison of pirfenidone and nintedanib in patients with idiopathic pulmonary fibrosis: A 24-month assessment

Stefano
Martinelli
Maria

^a *Pneumologia*

^b *Alma Mater
Bologna, Bologna*

^c *Respiratory*

^d *Department*

^e *Cardio-Thoracic*

^f *Alma Mater*

^g *Clinical and*

Pulmonol. 2019;25(3):149–153



PULMONOLOGY

www.journalpulmonology.org



ORIGINAL ARTICLE

Pirfenidone and Nintedanib in idiopathic pulmonary fibrosis: Real-life experience in an Italian referral centre



E. Bargagli^{a,*}, C. Piccioli^a, E. Rosi^a, E. Torricelli^a, L. Turi^a, E. Piccioli^a, M. Pistolesi^a,
K. Ferrari^a, L. Voltolini^b

Pirfenidone in real life: a retrospective observational multicentre study in Italian patients with idiopathic pulmonary fibrosis

Vancheri C, Sebastiani A, Tomassetti S, Pesci A, Rogliani P, Tavanti L, Luppi F, Harari S, Rottoli P, Ghirardini A, Kirchgaessler K-U, Albera C.

Respir Med 2019

IRENE was a multicentre, retrospective, observational study of Italian patients with IPF treated with pirfenidone in ***real-world clinical practice***.

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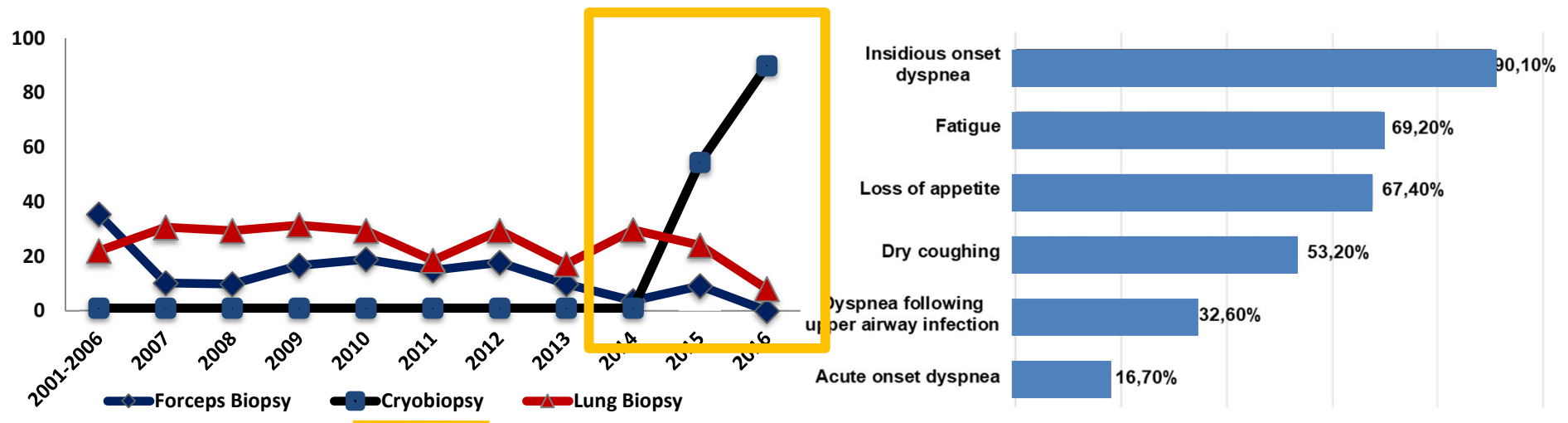
| Characteristic ^a | All patients (N = 379) |
|---|------------------------|
| Age, years | 67.6 (7.1) |
| Male, n (%) | 296 (78.1) |
| BMI, kg/m ^{2b} | 28.9 (4.1) |
| Smoking status, n (%) | |
| Former smoker | 261 (68.9) |
| Nonsmoker | 91 (24.0) |
| Time since first symptom onset, months | 28.1 (30.3) |
| Time since diagnosis of IPF, months | 5.9 (19.1) |
| HRCT pattern at diagnosis, n (%) ^c | |
| Definite UIP | 259 (71.9) |
| Possible UIP | 99 (27.5) |
| Inconsistent with UIP | 2 (0.6) |
| Biopsy type, n (%) ^d | |
| Transbronchial cryobiopsy | 29 (43.9) |
| Surgical lung biopsy | 37 (56.1) |
| Bronchoalveolar lavage, n (%) ^e | 143 (38.1) |
| FVC, % predicted | 80.1 (16.4) |
| DLco, % predicted | 53.5 (13.9) |
| FEV ₁ /FVC ratio, % | 89.6 (13.0) |
| 6MWD, m ^f | 411.3 (114.2) |

17%



The European IPF Registry

525 IPF subjects recruited between 11/2009 and 10/2016.



Change in biopsy procedures in IPF over time.
Data are given as percentage of the respective procedure undertaken in IPF subjects in the year of first diagnosis.

Distribution of self-reported symptoms of IPF patients.
Data are presented as percentage of all patients with reported symptom.

ERS International Congress 2018

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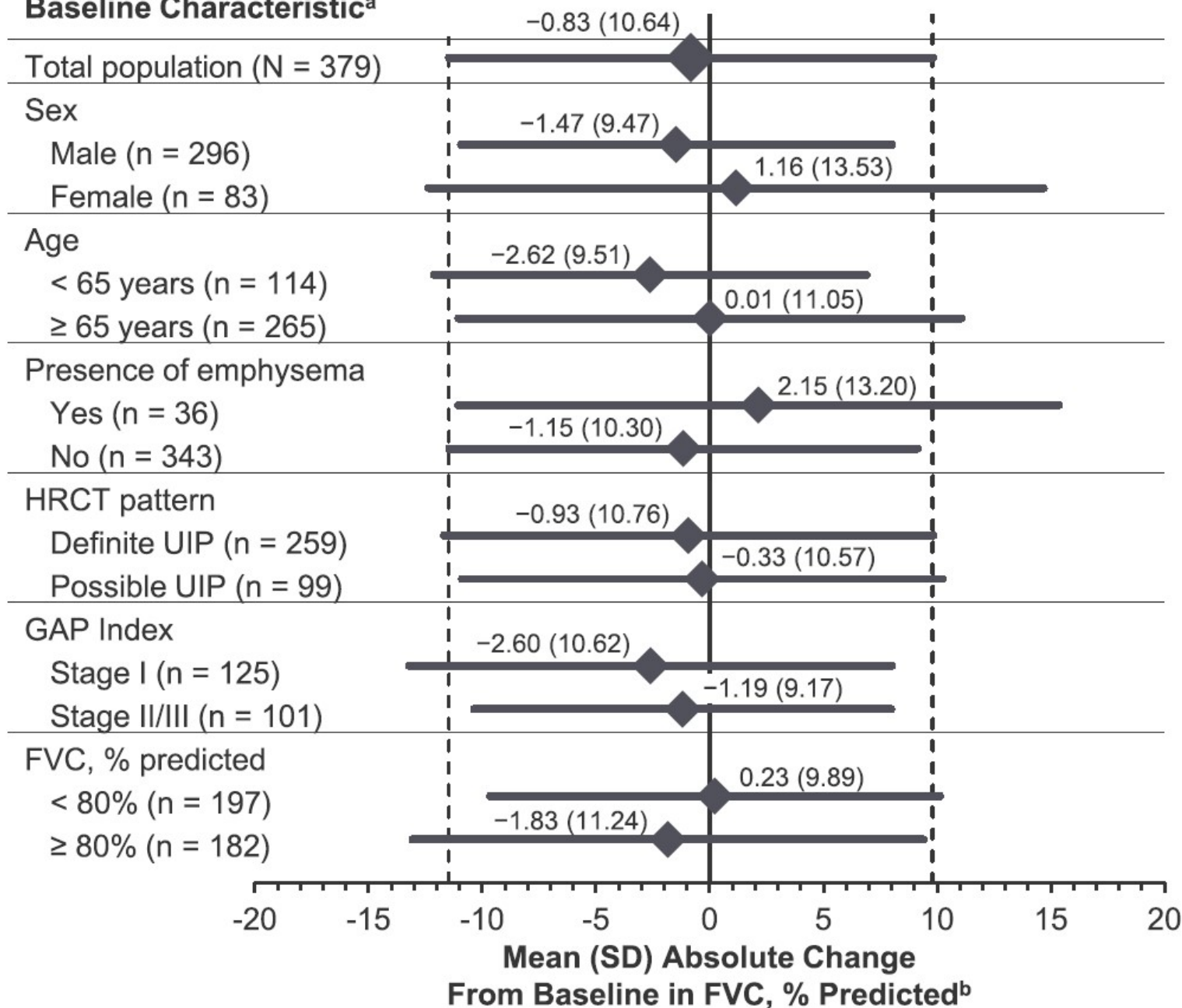
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Effectiveness outcomes in the total population

| Outcome | All patients (N = 379) ^a | |
|---|-------------------------------------|-------------------|
| | Month 6 | Month 12 |
| Absolute change from baseline in FVC | (n = 359) | (n = 268) |
| Mean (SD), mL | – 98.6 (484.3) | – 81.8 (419.6) |
| P value (paired t-test) | < 0.001 | 0.002 |
| Absolute change from baseline in | (n = 372) | (n = 274) |
| % predicted FVC | | |
| Mean (SD) | 0.20 (8.98) | – 0.83 (10.64) |
| P value (paired t-test) | 0.661 | 0.199 |
| Patients with ≥ 10% absolute decline in | (n = 372) | (n = 274) |
| % predicted FVC | | |
| Percentage (95% CI) | 10.5 (7.8, 14.0) | 16.0 (12.2, 20.9) |

**Patient Subgroup per
Baseline Characteristic^a**



Summary of adverse events over 12 months

| Patients with ≥ 1 event, n (%) | All patients (N = 379) |
|--|------------------------|
| ≥ 1 AE | 149 (39.3) |
| ≥ 1 AE of mild intensity | 107 (28.2) |
| ≥ 1 AE of moderate intensity | 32 (8.4) |
| ≥ 1 AE of severe intensity | 24 (6.3) |
| ≥ 1 SAE | 31 (8.2) |
| ≥ 1 AE related to pirfenidone ^a | 95 (25.1) |
| ≥ 1 SAE related to pirfenidone ^a | 9 (2.4) |
| AE leading to discontinuation of pirfenidone | 9 (2.4) |
| AE leading to death | 15 (4.0) |

AE, adverse event; SAE, serious adverse event.

^a Investigator judgment.

The real-world nature of this study may capture a more complete picture of pirfenidone effectiveness than controlled clinical trials.

No data were captured in patients who discontinued pirfenidone at or before month 6, and the number of excluded patients was not recorded.

We step back

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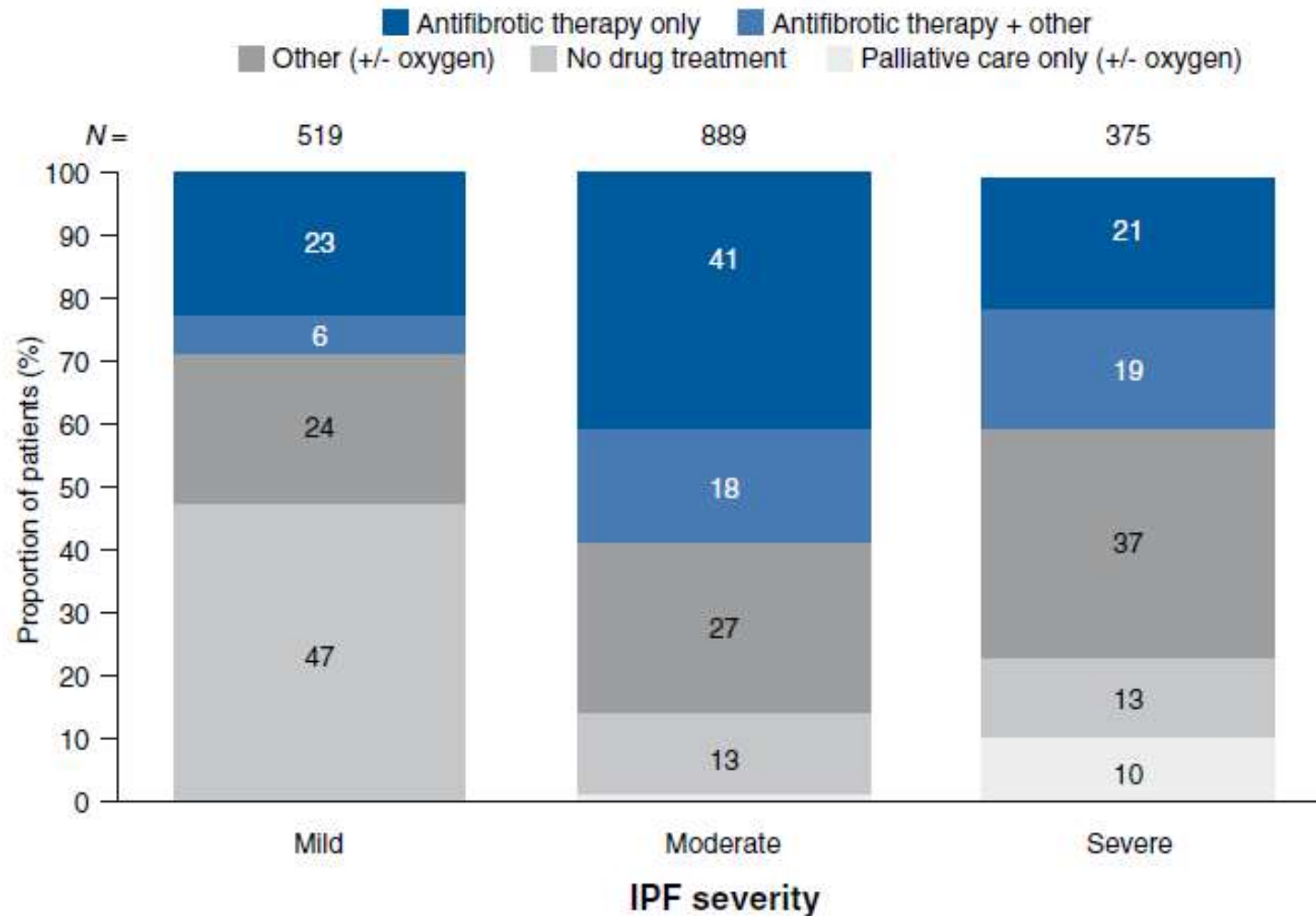
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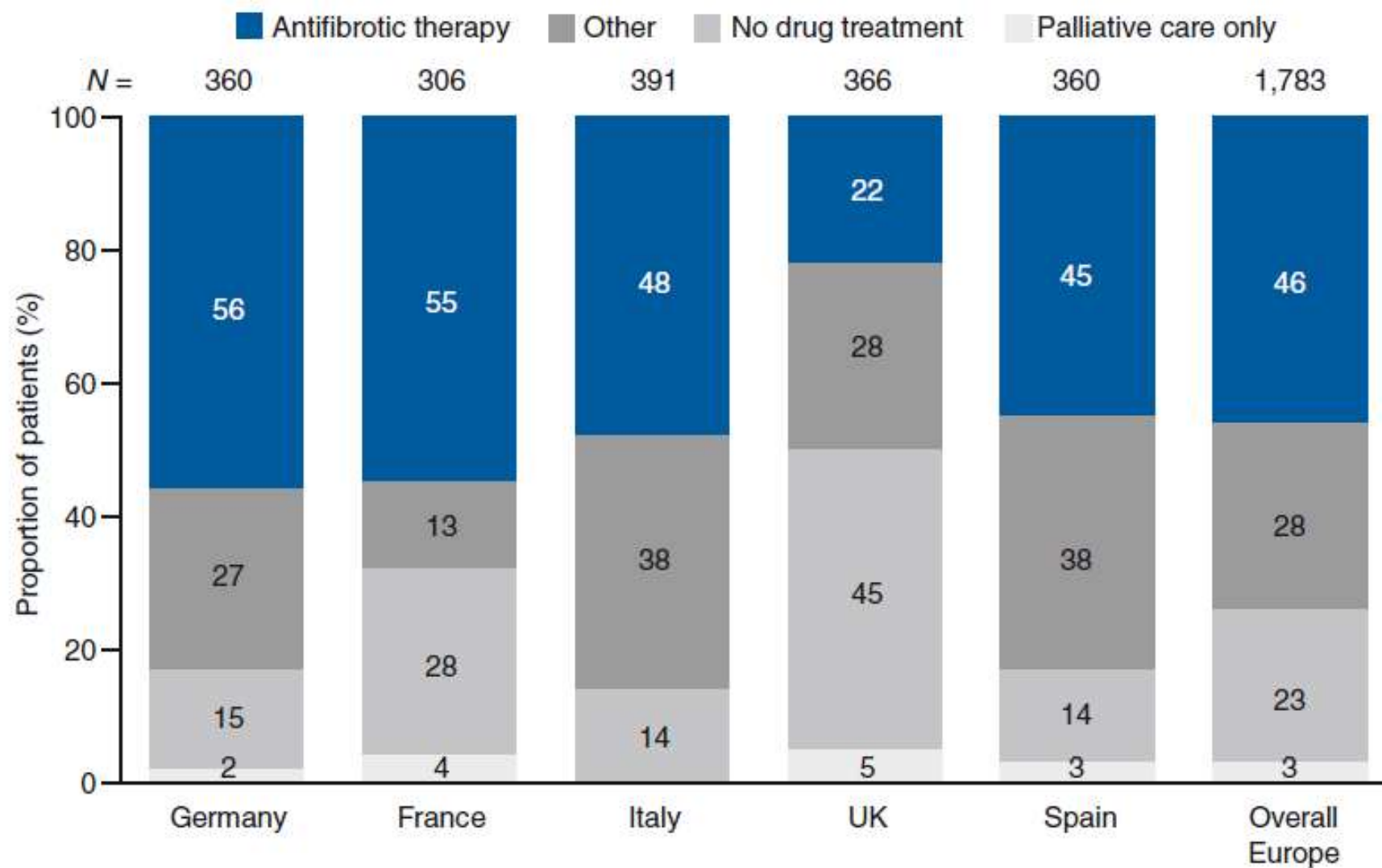
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Patients with mild IPF are least likely to receive treatment

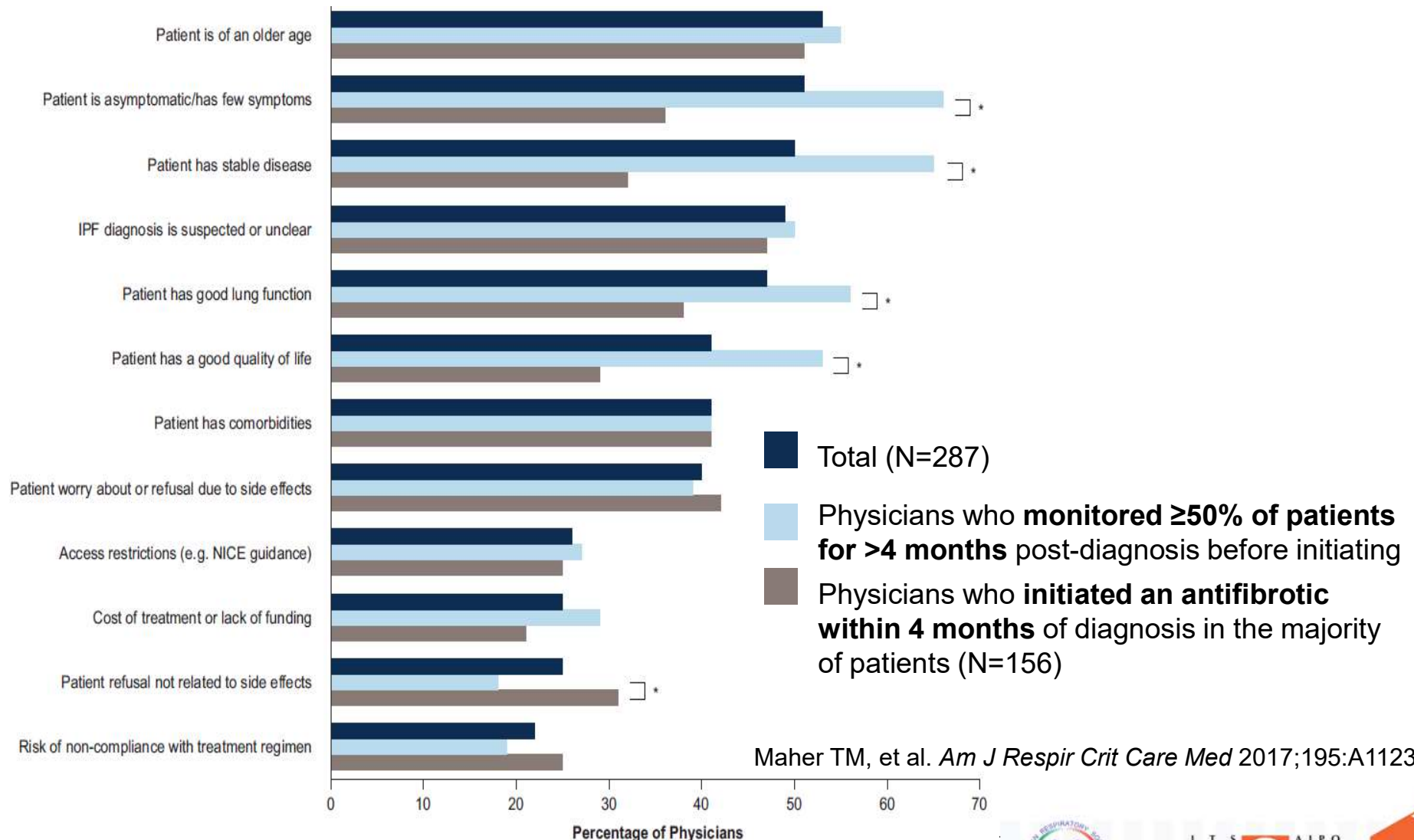


Maher et al. BMC Pulmonary Medicine (2017) 17:124



Maher et al. BMC Pulmonary Medicine (2017) 17:124

Reasons cited by physicians for not treating patients with mild IPF



Maher TM, et al. *Am J Respir Crit Care Med* 2017;195:A1123

Approximately 40% of European patients with confirmed IPF do not receive antifibrotic treatment despite the regulatory approval of two antifibrotic therapies and the recommendation in international guidelines

Maher et al. BMC Pulmonary Medicine (2017) 17:124

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New Italian results

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Clinical course of IPF in Italian patients during 12 months of observation: results from the FIBRONET observational study

*Poletti V, Vancheri C, Albera C, Harari S, Pesci A, Refini RM, Campolo B, Rizzoli S,
on behalf of FIBRONET study group, ERS Congress 2019*

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Study design



IPF diagnosis

- Diagnosed within last 3 months based on 2011 ATS/ERS/JRS/ALAT guidelines¹



- 36 patients withdrew
– 13 died



20 Italian
pulmonary centres



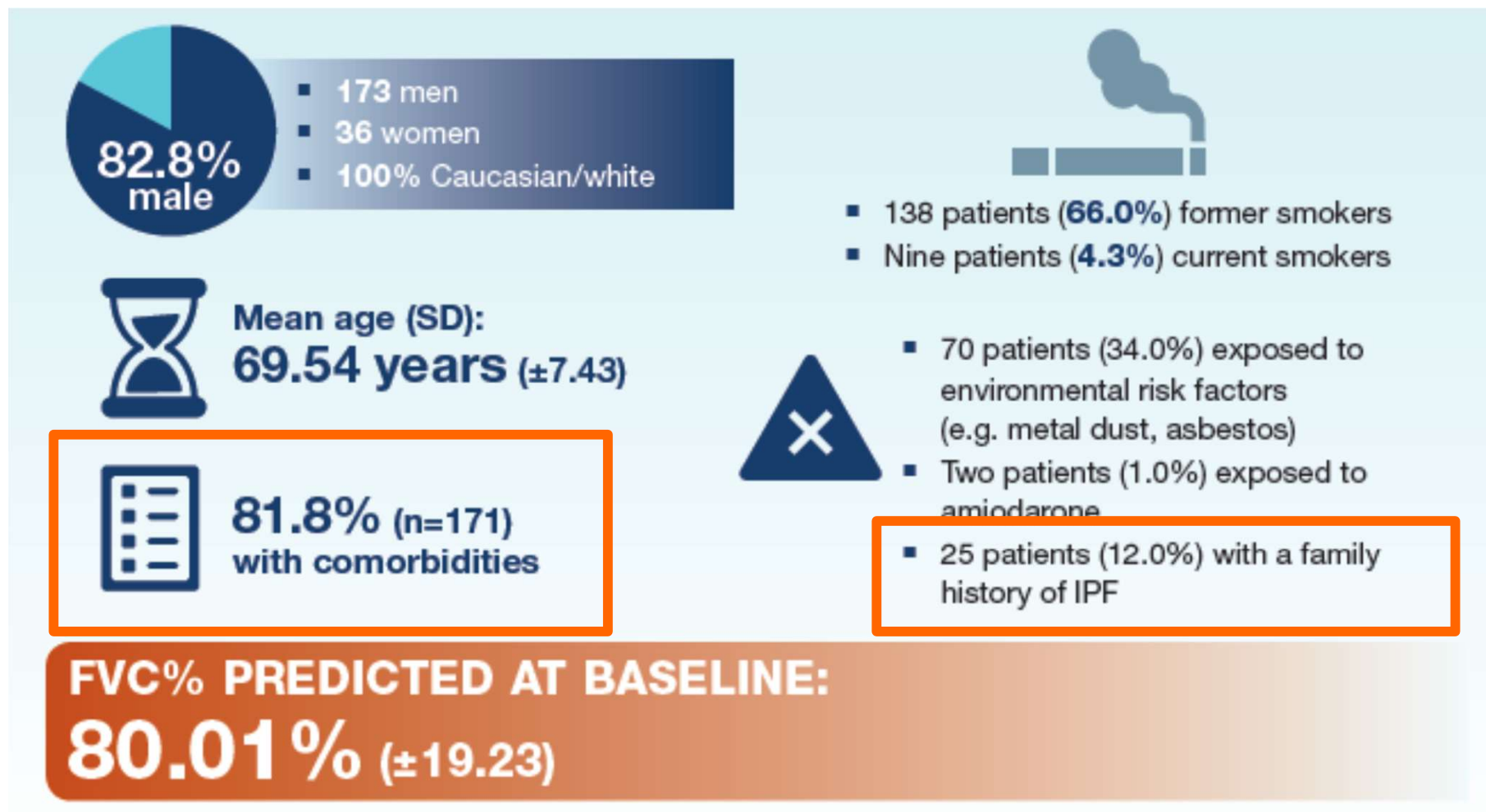
- 12-month, observational, prospective, cohort study
- Three intermediate evaluations at 3, 6 and 9 months

AIM: To describe the baseline characteristics of patients with IPF and the clinical course of the disease during 12 months of observation in term of changes in lung function (FVC% predicted)

Clinical course of IPF Italian patients during 12-month of observation: results from the FIBRONET observational study.
Poletti V. et Al.: Thematic poster Session: Interstitial lung disease registries, ERS Congress 2019



Patients characteristics



Clinical course of IPF Italian patients during 12-month of observation: results from the FIBRONET observational study.
Poletti V. et Al.: Thematic poster Session: Interstitial lung disease registries, ERS Congress 2019



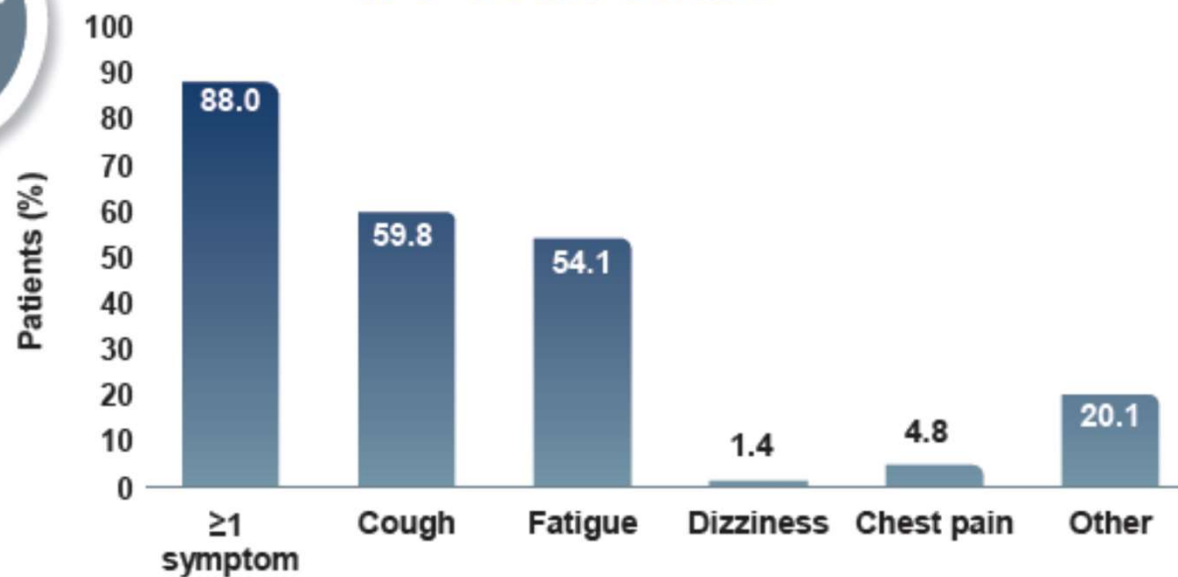
EXERCISE TOLERANCE

6-Minute Walk Test

Mean (SD) **395.70 metres** (± 121.70) at baseline



IPF SYMPTOMS



88% of patients had ≥ 1 symptom at baseline



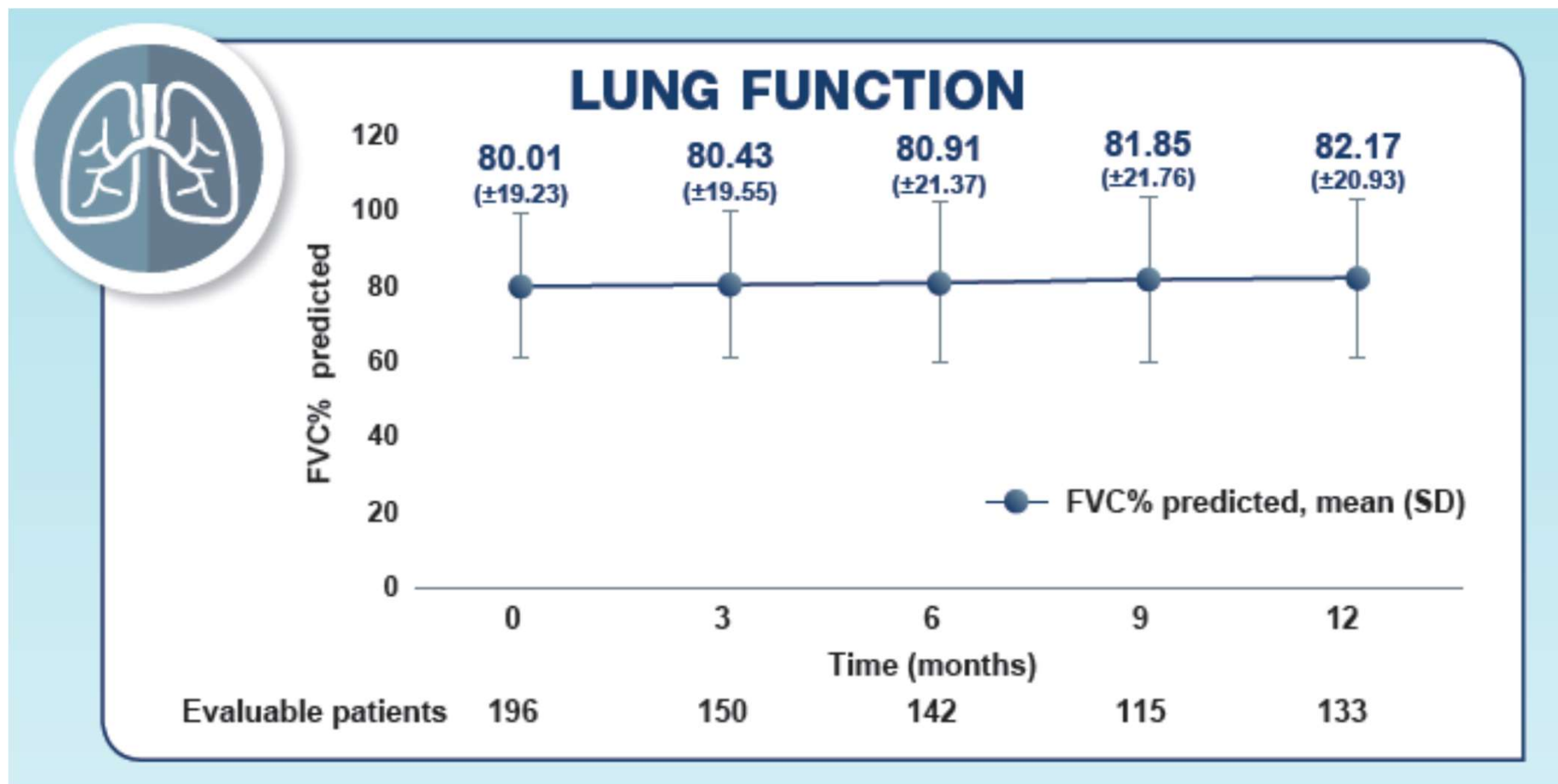
Antifibrotic treatment



- Percentage of patients receiving antifibrotic therapy increased during the 12 months:
 - baseline: **15.8%** (n=33)
 - 3 months: 72.3% (n=138)
 - 6 months: 80.8% (n=139)
 - 12 months: **83.9%** (n=146)



Clinical course of IPF Italian patients during 12-month of observation: results from the FIBRONET observational study.
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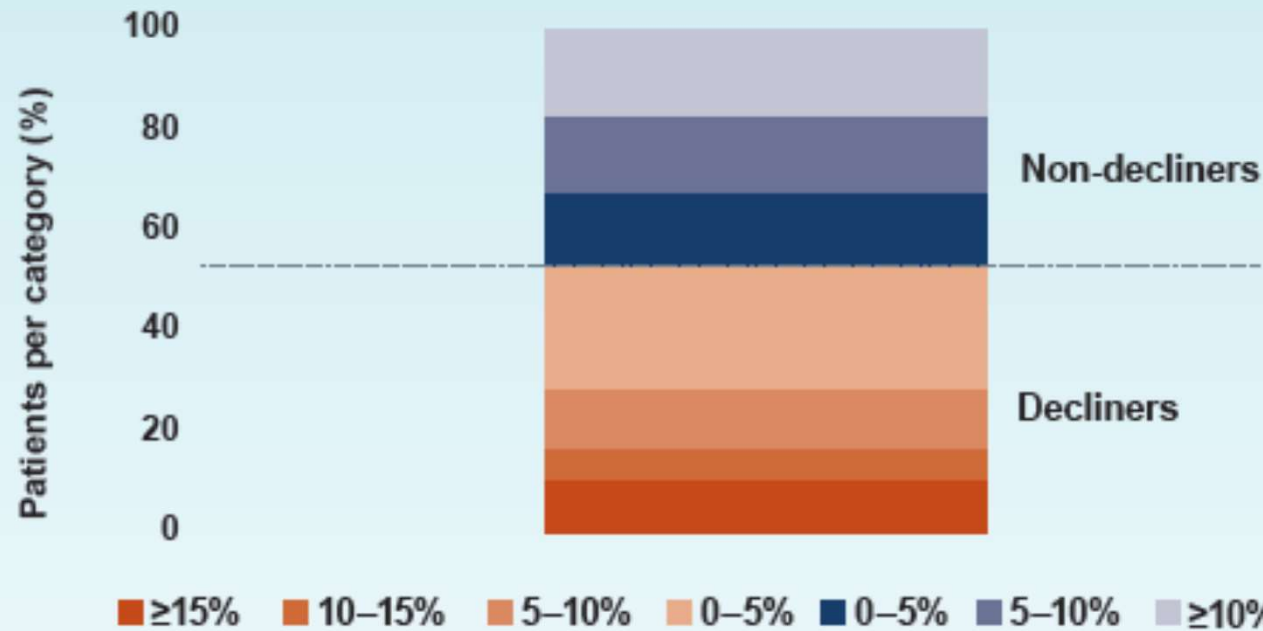
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FVC% predicted: relative change (12-month follow-up)

- Considering the relative change in FVC% predicted at 12 months versus baseline:



47.4%

patients had no decline in FVC% predicted after 12 months



52.6%

patients had a decline in FVC% predicted after 12 months



Discussion

- Socio-demographic and clinical characteristics of FIBRONET patients are consistent with those described in the literature for patients with IPF
- Mean FVC is relatively preserved and consistent with other Italian data, suggesting that, in Italy, **patients are diagnosed early**
- In FIBRONET **the average time between diagnosis and start of antifibrotic therapy was short** – only 6.38 weeks
- We speculate that this **early therapeutic intervention** resulted in the high proportion of patients with no decline in FVC

Clinical course of IPF Italian patients during 12-month of observation: results from the FIBRONET observational study.
Poletti V. et Al.: Thematic poster Session: Interstitial lung disease registries, ERS Congress 2019

Key Finding

After 12 months of real-world observation, 84% of patients newly diagnosed with IPF were receiving antifibrotic therapy, and 47% of patients had no decline in FVC% predicted

Clinical course of IPF Italian patients during 12-month of observation: results from the FIBRONET observational study.
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Conclusion

Early diagnosis of IPF might enable early initiation of antifibrotic therapy, which may improve patient outcomes (average 6 weeks between diagnosis and therapy initiation, with an average FVC of 80.01% predicted at baseline)

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Optimal clinical management of patients with IPF is multifaceted

Modified from Raghu G and Richeldi L. Respir Med 2017, 129: 24-30



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Nutrition in patients with idiopathic pulmonary fibrosis: critical issues analysis and future research directions

Faverio P, Bocchino ML, Caminati A, Fumagalli A, Gasbarra M, Iovino P, Petruzzi A, Scalfi L, Sebastiani A, Stanziola A, Sanduzzi A

submitted

NutrIPF: Nutritional assessment in IPF Multicenter pilot study

Monza, CasateNovo, Milano, Garbagnate, Novara, Brescia, ...

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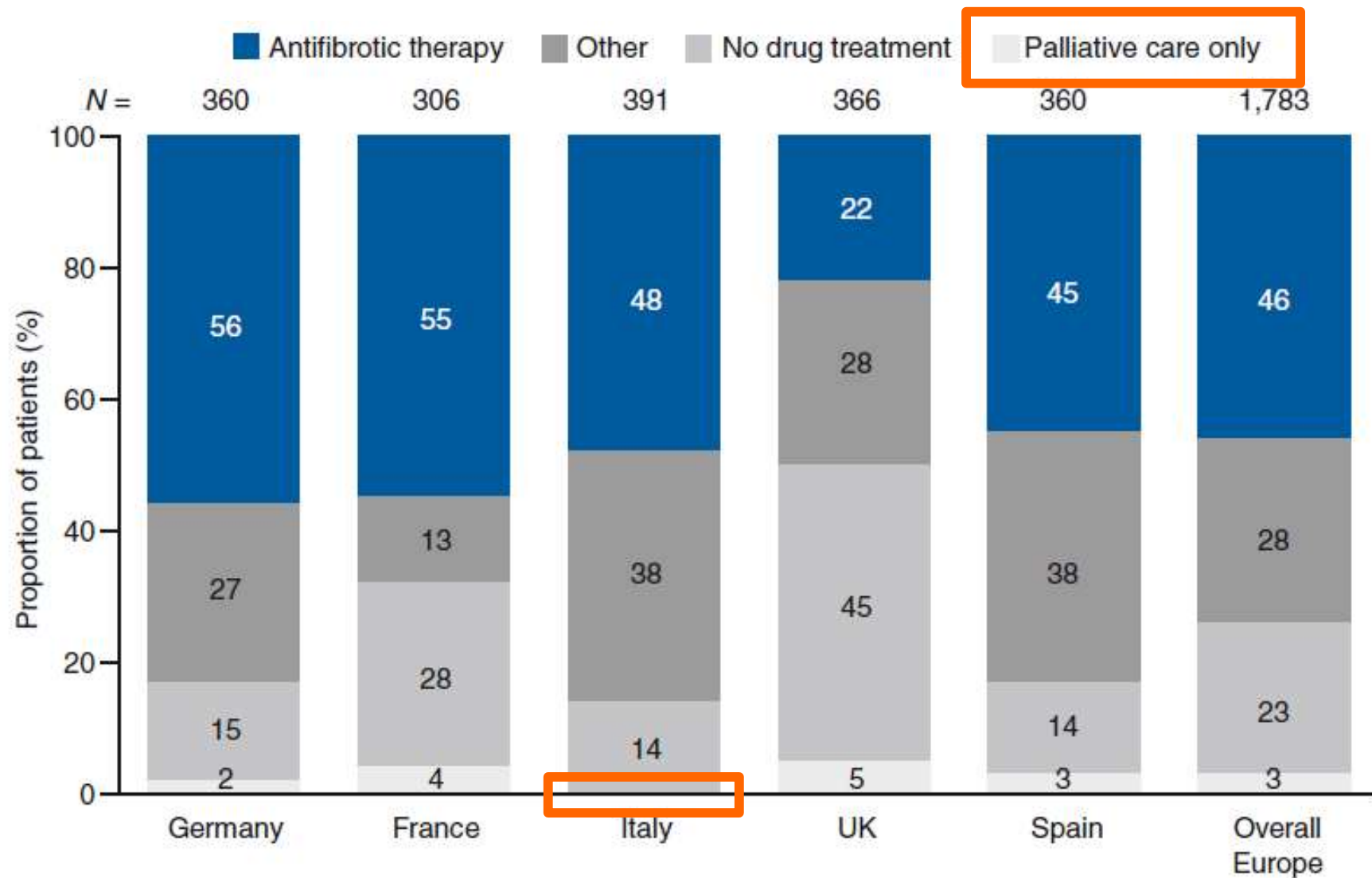
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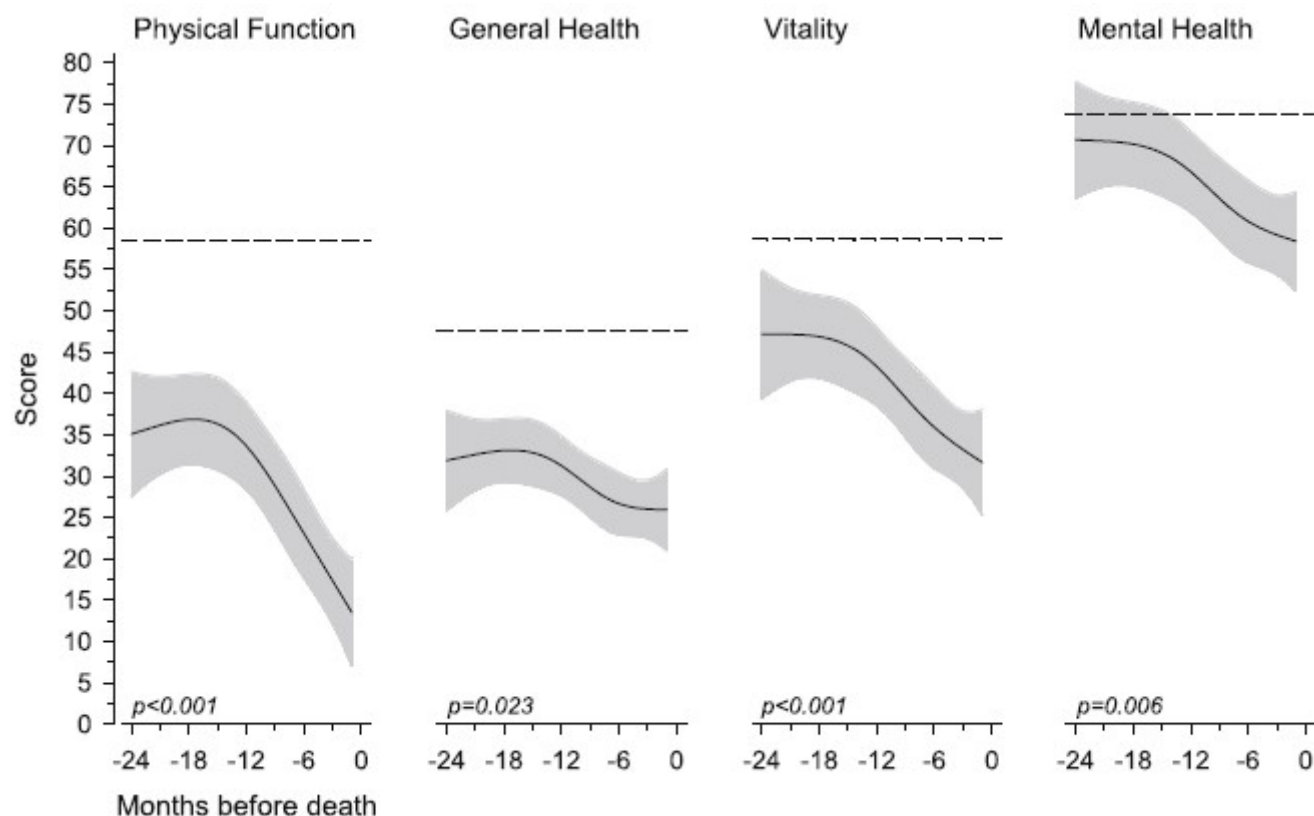
Maher et al. BMC Pulmonary Medicine (2017) 17:124

Many patients appeared to receive inadequate additional symptom management measures. Oxygen therapy and supportive treatments, such as anti-cough treatments, vaccines, etc., were used in only half of patients overall and in approximately a quarter of patients in the treated population

3% of overall patients and 10% with severe disease received palliative care

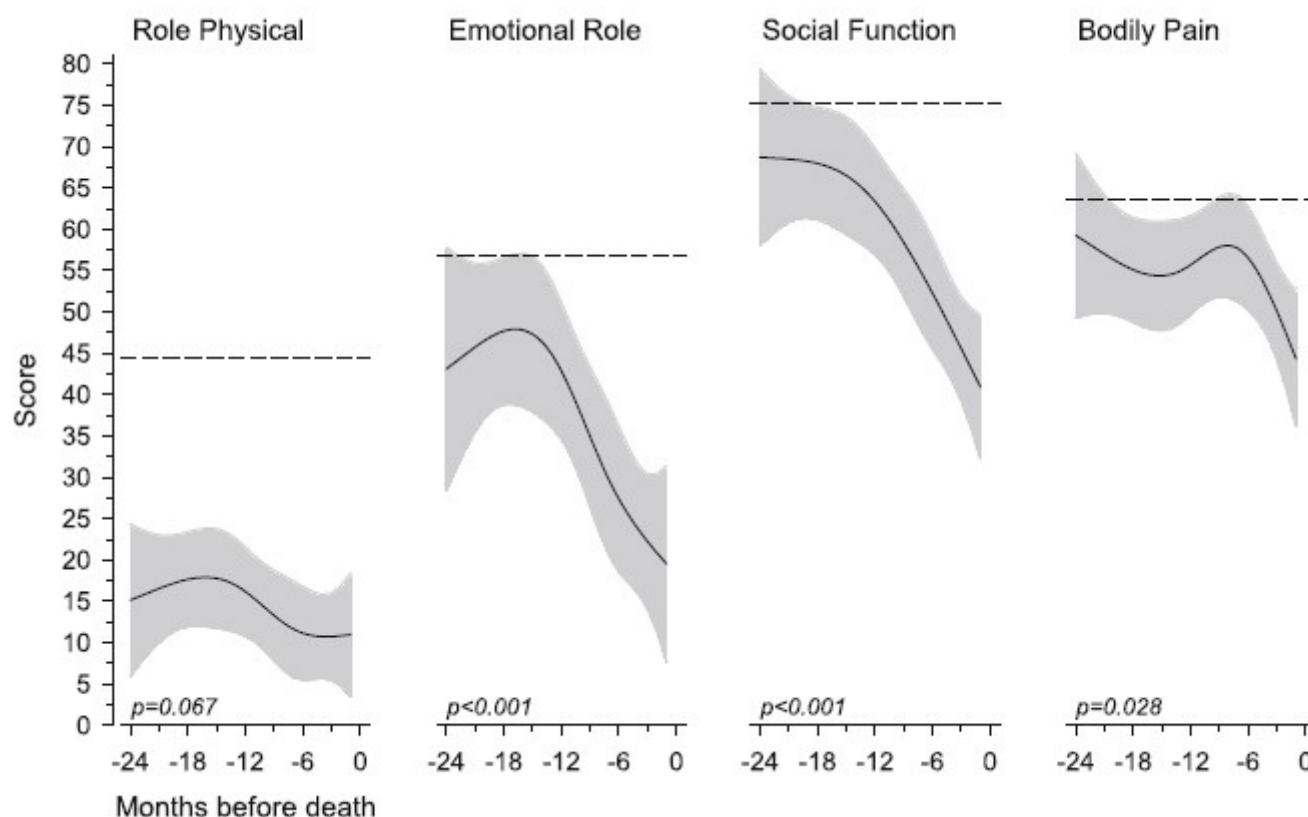
Maher et al. BMC Pulmonary Medicine (2017) 17:124

Marked deterioration in the quality of life of patients with idiopathic pulmonary fibrosis during the last two years of life

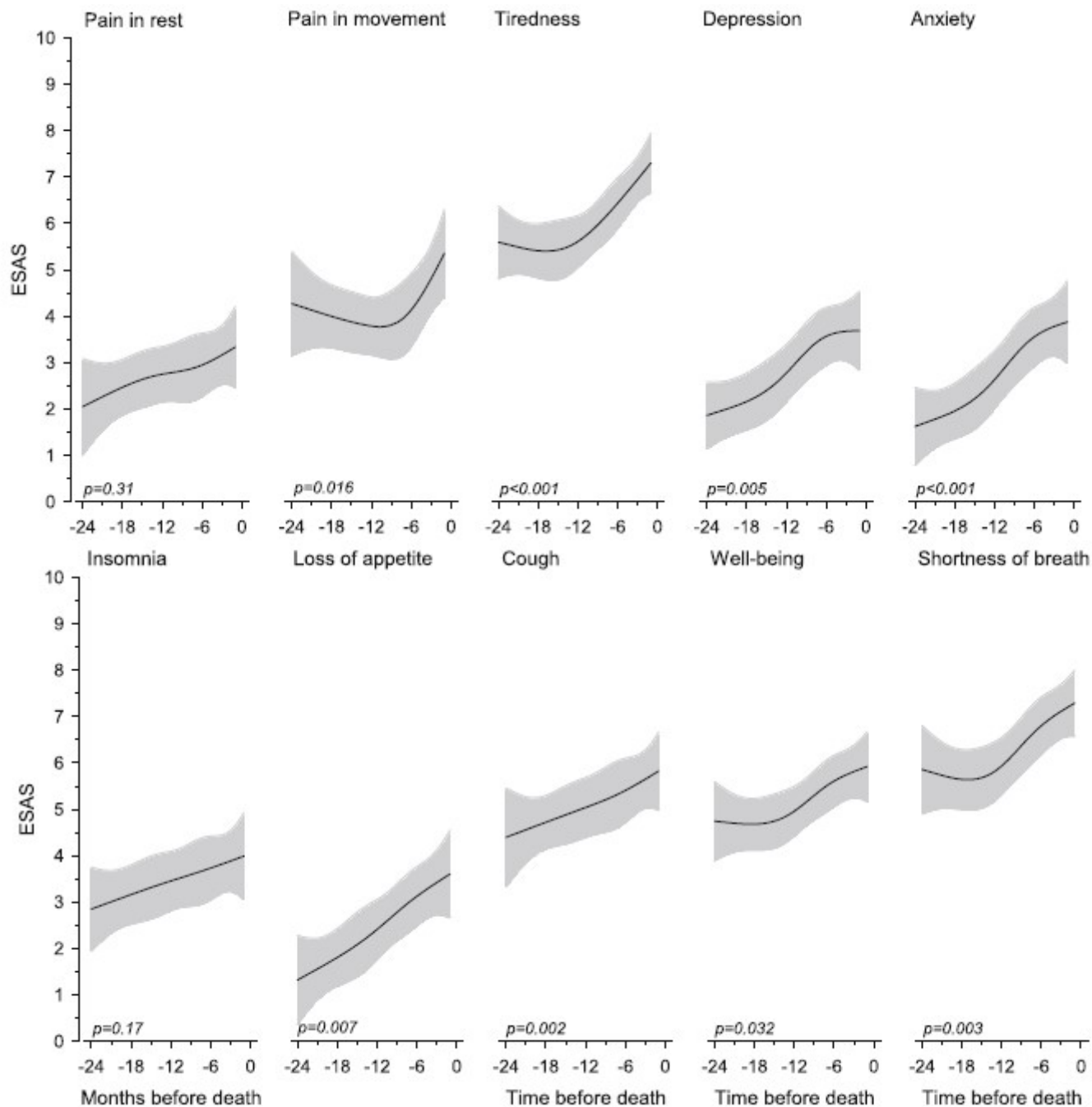


Rajala K et al. BMC Pulmonay Medicine 2018; 18 : 172

Marked deterioration in the quality of life of patients with idiopathic pulmonary fibrosis during the last two years of life



Rajala K et al. BMC Pulmonay Medicine 2018; 18 : 172



Low HRQOL was actually an independent prognostic factor

The relief of activity-limiting symptoms together with psychosocial support may improve HRQOL in advanced IPF

Early integrated palliative care for patients with lung cancer has shown substantial benefits, such as lower depression scores, higher HRQOL, better communication of end-of-life care preferences, less aggressive care at the end-of-life, and longer overall survival

Structured measurements of HRQOL and symptoms are necessary to guide high-quality early-integrated palliative care and end-of-life planning in IPF patients.

Early referral to palliative care services in patients with IPF: a tool to take a step forward

Proposed criteria for the referral of patients with IPF to specialist palliative care service

IPF (presence of *two or more* of the following criteria)

- ▶ GAP index stage III.
- ▶ Baseline DLCO <40% of predicted.
- ▶ Disease progression, despite optimal medical management, defined as FVC decline $\geq 10\%$ and/or DLCO decline $\geq 15\%$ over 6 months.
- ▶ 6MWT desaturation ($\text{SpO}_2 < 88\%$) and/or 6MWT distance <250 m and/or decrease in 6MWD over 50 m at 6 months.
- ▶ Need for long-term oxygen therapy 24 hours/day and/or high oxygen requirements.
- ▶ Extent of fibrosis and honeycombing on HRCT and its progression during the follow-up, despite optimal medical management.
- ▶ At least one hospitalisation for acute exacerbation of IPF.
- ▶ Presence or development of pulmonary hypertension.

Faverio P, et al. BMJ Supportive & Palliative Care 2019

A timely and personalized communication

However, it is important to start explaining to the patient about the disease course and management so that they know what to expect.

The exact content of the discussion should be sensitively tailored to the individual, and is a process which will evolve over time.

Raising awareness on physician-patient communication in IPF: an Italian multicenter study exploring the pneumologist's perspective

Tomassetti S , Sebastiani A, Caminati A, Oggionni T, Davi M, Ghirardini A, Martinoli M.

Conclusions: An adequate training may ameliorate communication and drive towards patient-centeredness. Raising awareness on these topics is crucial to ensure IPF patients optimal care. The pulmonologists' needs emerged may help planning interventions.

submitted

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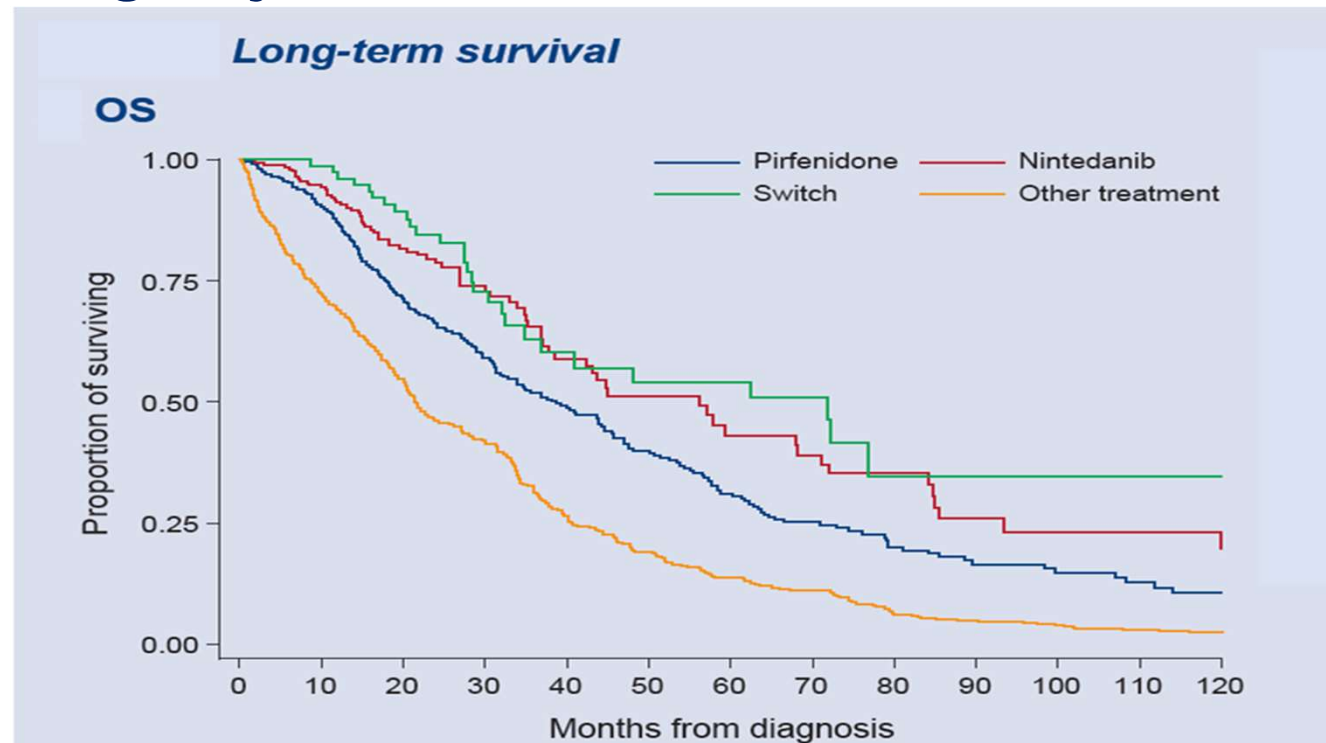


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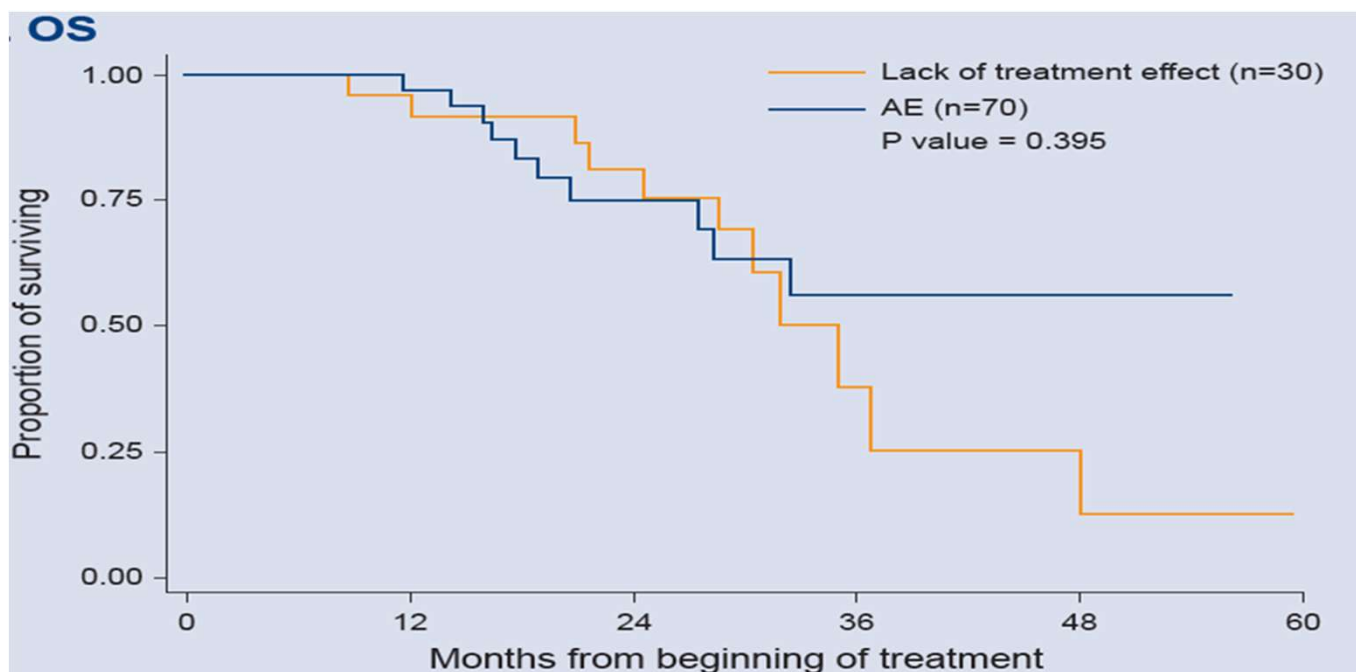
Long-term overall survival in IPF treated by Pirfenidone or Nintedanib or their switch: real-world data from the EMPIRE registry



| | Median survival (months) | 1-year survival (95% CI) | 5-year survival (95% CI) | 10-year survival (95% CI) |
|------------------------|--------------------------|--------------------------|--------------------------|---------------------------|
| Pirfenidone | 38.7 | 0.872 (0.831–0.904) | 0.311 (0.251–0.372) | 0.105 (0.060–0.163) |
| Nintedanib | 56.3 | 0.912 (0.867–0.943) | 0.430 (0.314–0.540) | 0.197 (0.097–0.323) |
| Switch | 71.9 | 0.961 (0.884–0.987) | 0.540 (0.382–0.674) | 0.347 (0.171–0.530) |
| Other treatment | 21.4 | 0.688 (0.633–0.737) | 0.138 (0.101–0.180) | 0.023 (0.011–0.042) |

Vašáková, M. Poster presented at the ERS Congress 2019

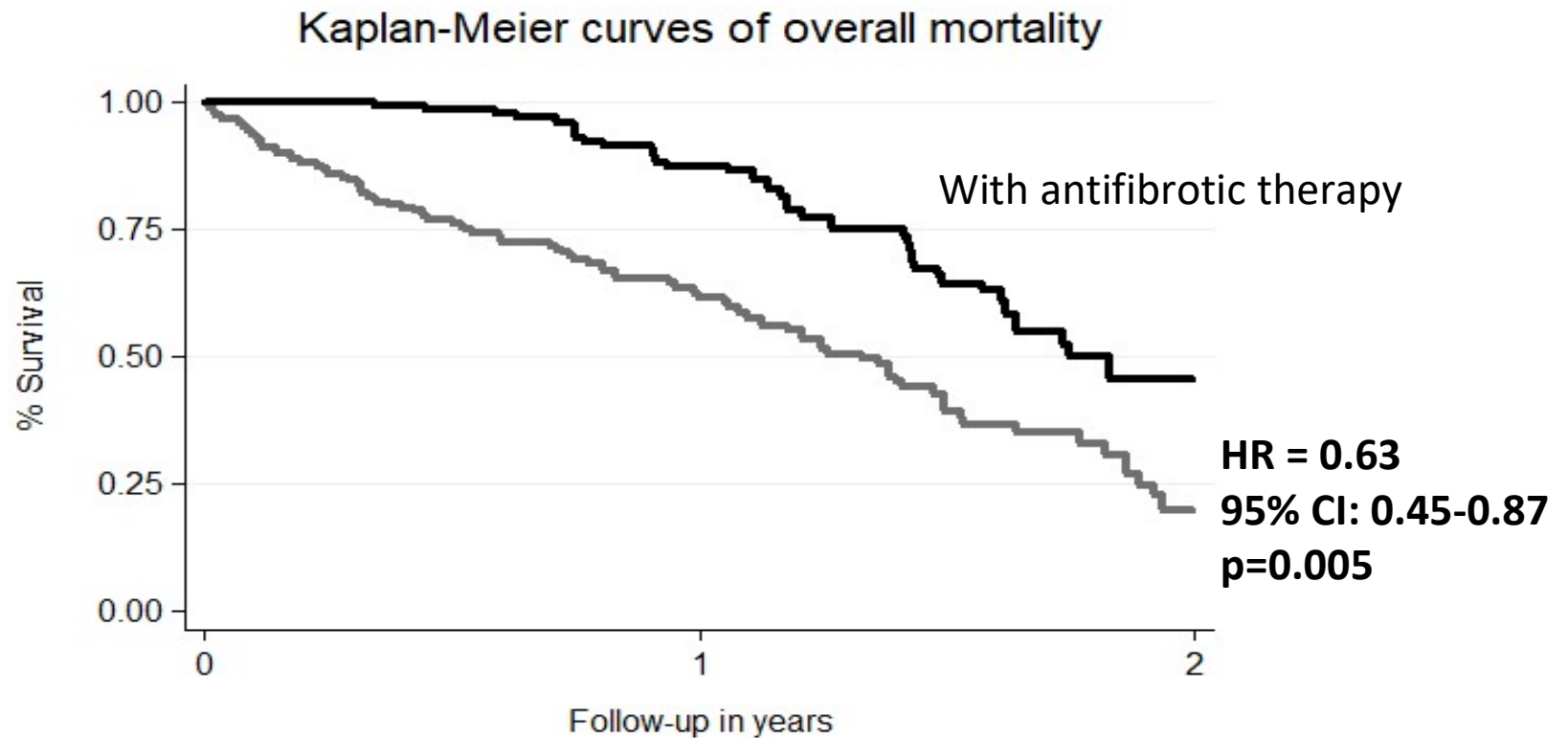
Survival in patients who switched treatment due to AEs or lack of treatment effect



| | Median survival (months) | 1-year survival (95% CI) | 2-year survival (95% CI) | 5-year survival (95% CI) |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| AE | 76.9 | 0.969 (0.798–0.996) | 0.752 (0.546–0.874) | 0.561 (0.316–0.748) |
| Lack of treatment effect | 34.9 | 0.915 (0.700–0.978) | 0.810 (0.566–0.925) | 0.126 (0.008–0.417) |

Vašáková, M. Poster presented at the ERS Congress 2019

INSIGHTS-IPF registry, ERS 2019



Number of patients at risk
With antifibrotic therapy
No antifibrotic therapy

281
252

129
139

57
93

Convegno di presentazione della
versione italiana delle linee guida per la
diagnosi di fibrosi polmonare idiopatica

Linee guida ufficiali
ATS/ERS/JRS/ALAT
per la pratica clinica



1 Febbraio
2020

Hotel
Enterprise
Milano



I T S
ITALIAN
THORACIC
SOCIETY

AIPO
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ITALIANA
PNEUMOLOGI
OSPEDALIERI

Grazie per l'attenzione

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