Baseline characteristics of patients with improvement or progression of systemic sclerosis-associated interstitial lung disease (SSc-ILD) during the SENSCIS trial

⁸Boehringer Ingelheim International GmbH, Ingelheim am Rhein, Germany; ⁹Department of Rheumatology, University Hospital Zurich, University of Zurich, Zurich, Switzerland.

INTRODUCTION

- The course of SSc-ILD is variable and may include periods of stability or improvement in forced vital capacity (FVC) as well as periods of decline.¹
- A number of studies have identified characteristics associated with FVC decline in patients with SSc-ILD,¹⁻³ but the course of disease for an individual patient cannot be predicted.

AIM

• To investigate the baseline characteristics of patients with SSc-ILD in the placebo group of the SENSCIS trial whose ILD improved or progressed over 52 weeks.

METHODS

Trial design⁴

- Patients had SSc with first non-Raynaud symptom in the prior ≤7 years, extent of fibrotic ILD on high-resolution computed tomography (HRCT) \geq 10%, FVC \geq 40% predicted and DLco 30–89% predicted.
- Patients taking prednisone ≤ 10 mg/day and/or stable therapy with mycophenolate or methotrexate were allowed to participate.
- Patients were randomised to receive nintedanib or placebo until the last patient had reached week 52 but for ≤ 100 weeks.

Analyses

We investigated the baseline characteristics of patients in the placebo group in subgroups based on the course of SSc-ILD over 52 weeks:

Improvement	Stability	Progression	Significant progressi
absolute increase in FVC ≥5% predicted	absolute decline or increase in FVC <5% predicted	absolute decline in FVC ≥5% predicted	absolute decline in FVC \geq 10% predicted

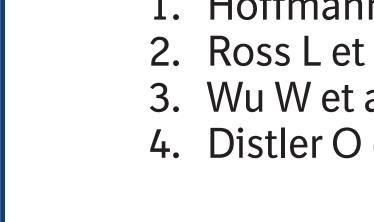
- Missing FVC data at week 52 were imputed using a worst observation carried forward approach.
- P-values based on ANOVA or Chi-squared tests were used to compare the baseline characteristics of the patients who showed improvement, stability, and progression.

CONCLUSIONS

• In the SENSCIS trial, most baseline characteristics were similar across subgroups based on progression of SSc-ILD over 52 weeks, but patients who had higher DLco % predicted or who were taking mycophenolate at baseline were less likely to show progression, while patients with a greater extent of fibrosis on HRCT were numerically more likely to show progression.

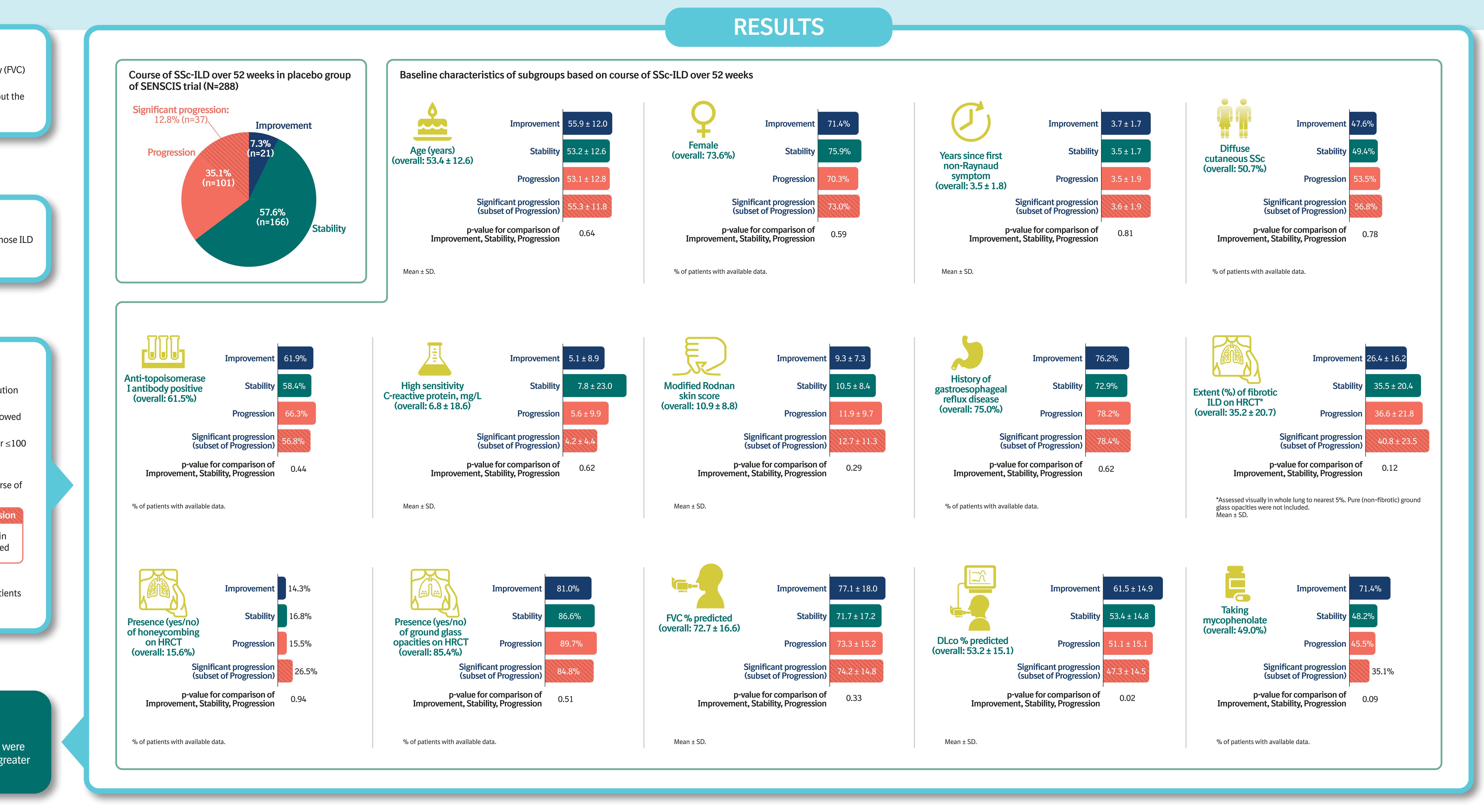
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Anna-Maria Hoffmann-Vold,¹ Eric Hachulla,² Ariane L Herrick,³ Teng Moua,⁴ Gabriela Riemekasten,⁵ Madelon C Vonk,⁶ Alexandra James,⁷ Margarida Alves,⁸ Oliver Distler⁹ on behalf of the SENSCIS trial investigators ¹Head of the inflammatory and fibrotic rheumatic disease research area, Oslo University of Manchester, Northern Care Alliance NHS Foundation Trust, Manchester, UK; ⁴Division of Pulmonary and Critical Care Medicine, Mayo Clinic Rochester, Rochester, Rochester, MN, USA; ⁵Rheumatology, University Hospital Schleswig-Holstein, Lübeck, Germany; ⁶Department of Rheumatology, Chiversity Hospital Schleswig



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