Continued treatment with nintedanib in patients with limited cutaneous systemic sclerosis (IcSSc) and interstitial lung disease (ILD)

Yannick Allanore,¹ Dinesh Khanna,² Vanessa Smith,³ Martin Aringer,⁴ Anna-Maria Hoffmann-Vold,⁵ Masataka Kuwana,6 Peter A. Merkel,⁵ Alexandra James,8 Steven Sambevski,9 Margarida Alves,9 Christopher P. Denton¹⁰ on behalf of the SENSCIS-ON trial investigators

¹Department of Rheumatology A, Descartes University, APHP, Cochin Hospital, Paris, France; ²Department of Medicine, University of Michigan, Ann Arbor, MI, USA; ³Department of Rheumatology, Department of Medicine III, University Medical Center and Faculty of Medicine, Carl Gustav Carus Technische Universität Dresden, Dresden, Germany; ⁵Head of the inflammatory and fibrotic rheumatology, Nippon Medicine, University of Pennsylvania, Philadelphia, PA, USA; ⁵Elderbrook solutions GmbH, Bietigheim-Bissingen, Germany; ¹Boehringer Ingelheim am Rhein, Germany; ¹Boehringer Ingelheim International GmbH, Ingelhe

INTRODUCTION

- ILD is a common manifestation of lcSSc, which may become progressive. Few data are available on the management of ILD, or on adverse events associated with drug treatment, in patients with lcSSc.
- Nintedanib is a tyrosine kinase inhibitor that inhibits pathways leading to pulmonary fibrosis.⁴ In the SENSCIS trial in patients with SSc and an extent of fibrotic ILD on HRCT≥10%, nintedanib reduced the rate of decline in forced vital capacity (FVC) compared with placebo, with adverse events that were manageable for most patients.⁵
- SENSCIS-ON (NCT03313180) is an open-label extension trial that is collecting data on decline in FVC and adverse events in patients treated with nintedanib over the long term.

AIM

• To assess the decline in FVC and adverse events in patients with IcSSc and ILD treated with nintedanib in SENSCIS-ON.

METHODS

Patients in SENSCIS-ON came from two parent trials:



- Patients with SSc-ILD were randomised to receive blinded treatment with nintedanib or placebo
- Patients remained on treatment until the last patient had reached week 52 but for ≤100 weeks
 Patients who completed the trial on treatment and attended a follow-up visit were eligible to

enter SENSCIS-ON

Open-label drug-drug interaction study of nintedanib and Microgynon (ethinylestradiol + levonorgestrel)⁶

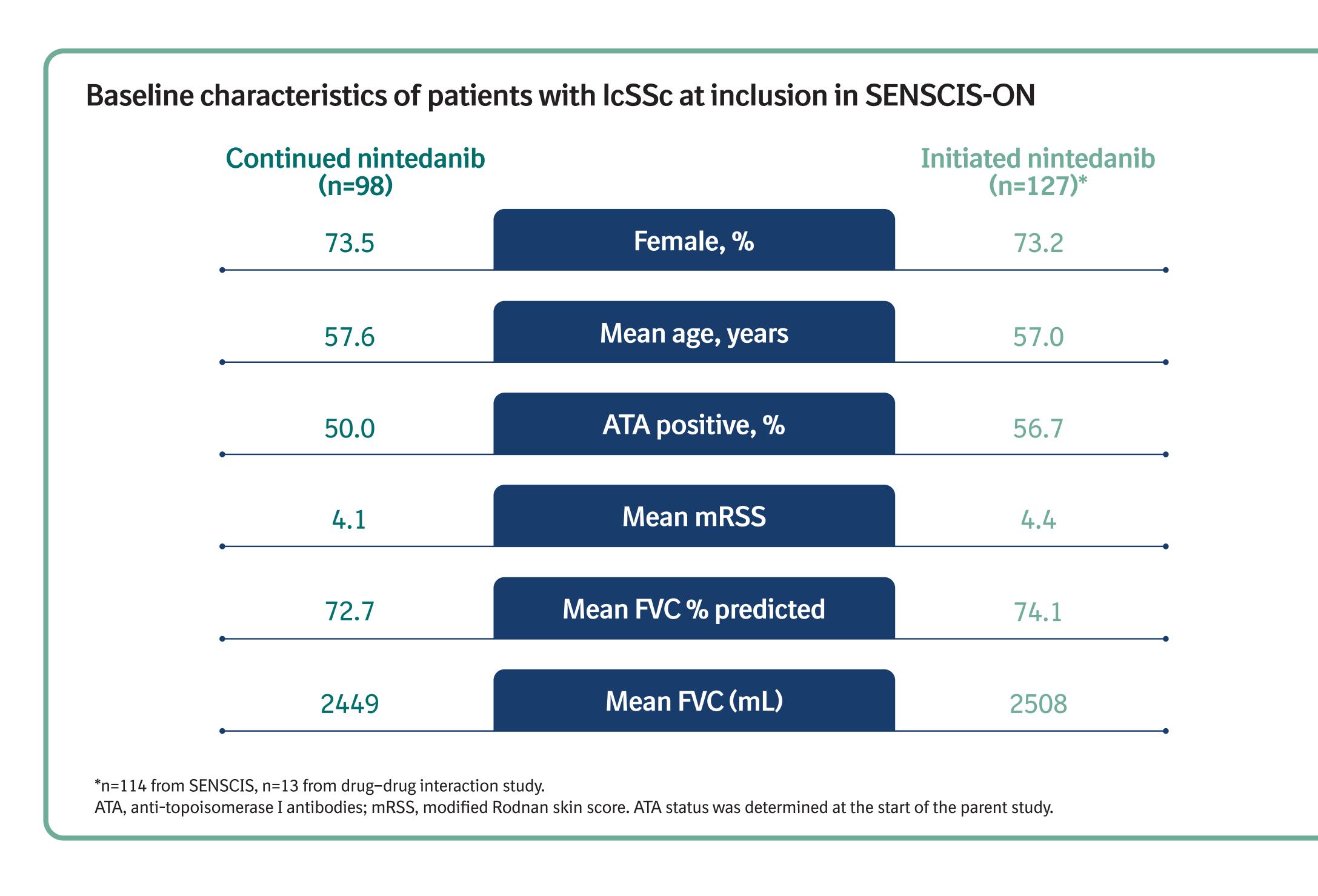
- Female patients with SSc-ILD received nintedanib over a period of ≥14 days to approximately 28 days
- Patients who completed the study on treatment were eligible to enter SENSCIS-ON
- Among patients with IcSSc, we analysed changes in FVC and adverse events over 52 weeks of SENSCIS-ON in:
- Patients who had received nintedanib in the SENSCIS trial and continued nintedanib in SENSCIS-ON ("continued nintedanib" group)
- Patients who received placebo in the SENSCIS trial and initiated nintedanib in SENSCIS-ON or who had received nintedanib for a short period in the drug-drug interaction study ("initiated nintedanib" group).

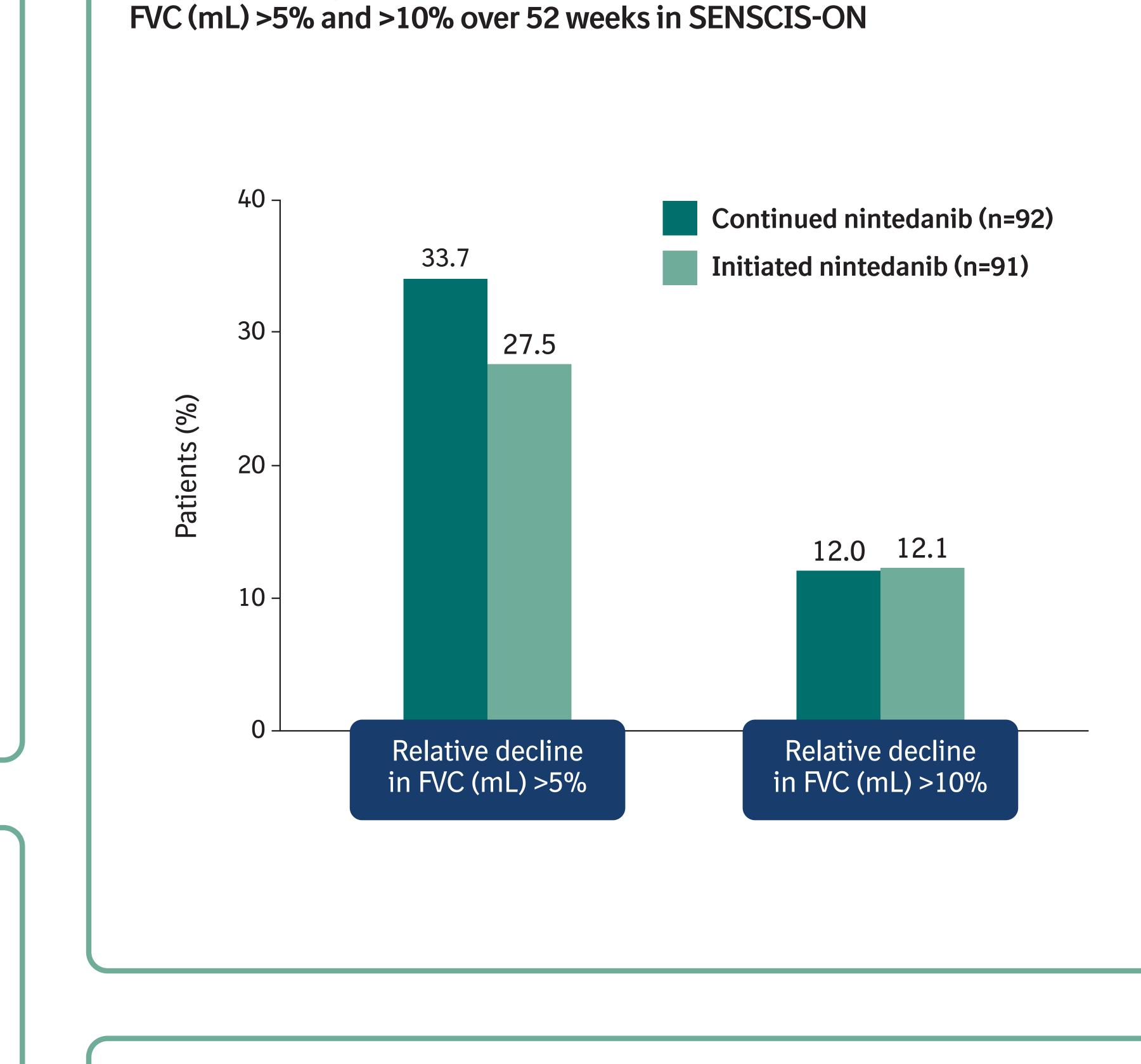
CONCLUSIONS

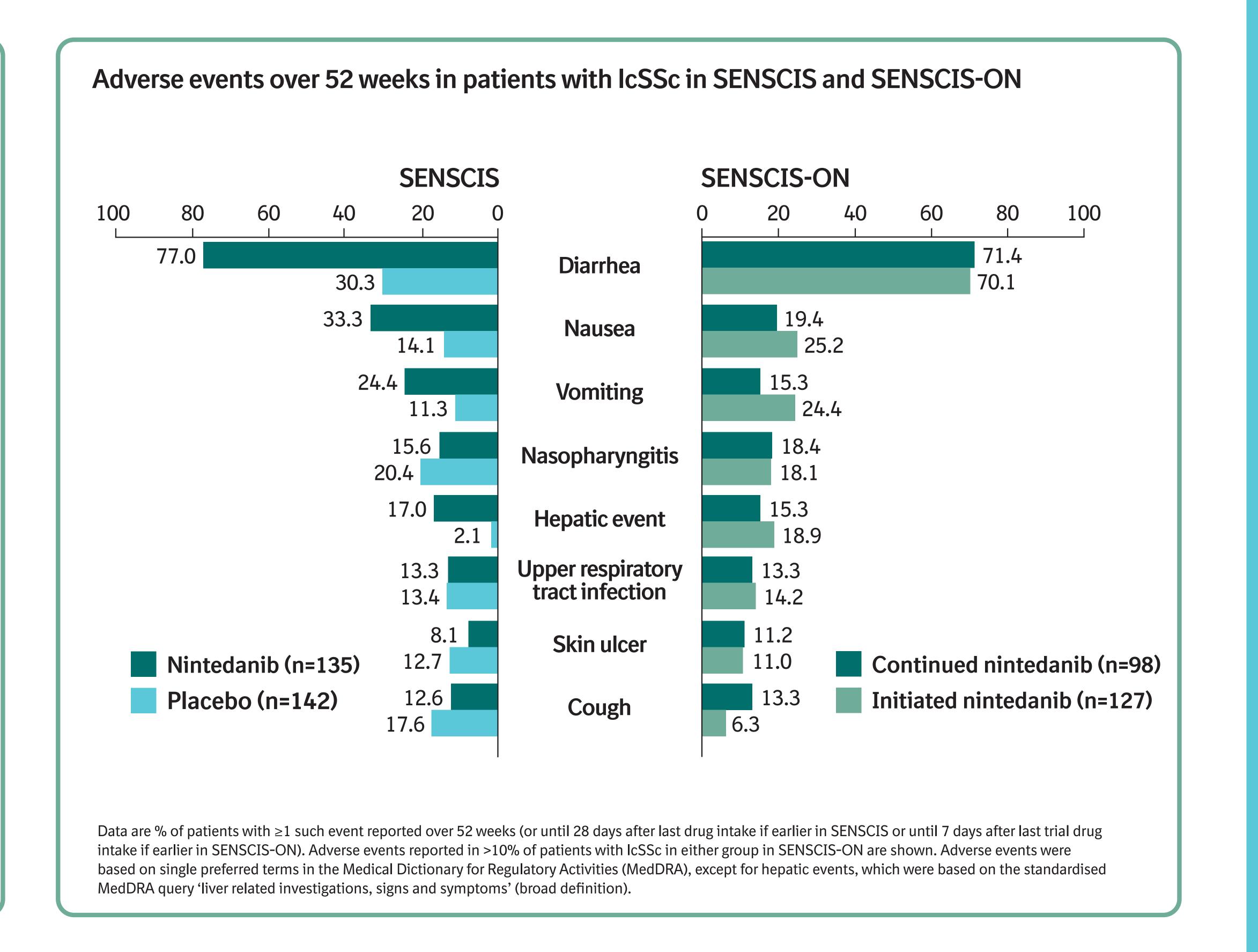
- Among patients with IcSSc and ILD who received nintedanib over 52 weeks of SENSCIS-ON, the change in FVC and the safety profile of nintedanib were similar to observations in patients with IcSSc and ILD who received nintedanib in SENSCIS.
- These analyses support a continued effect of nintedanib on targeting pulmonary fibrosis and slowing decline in FVC, and the ability to manage adverse events of nintedanib over the longer term in patients with IcSSc and ILD.

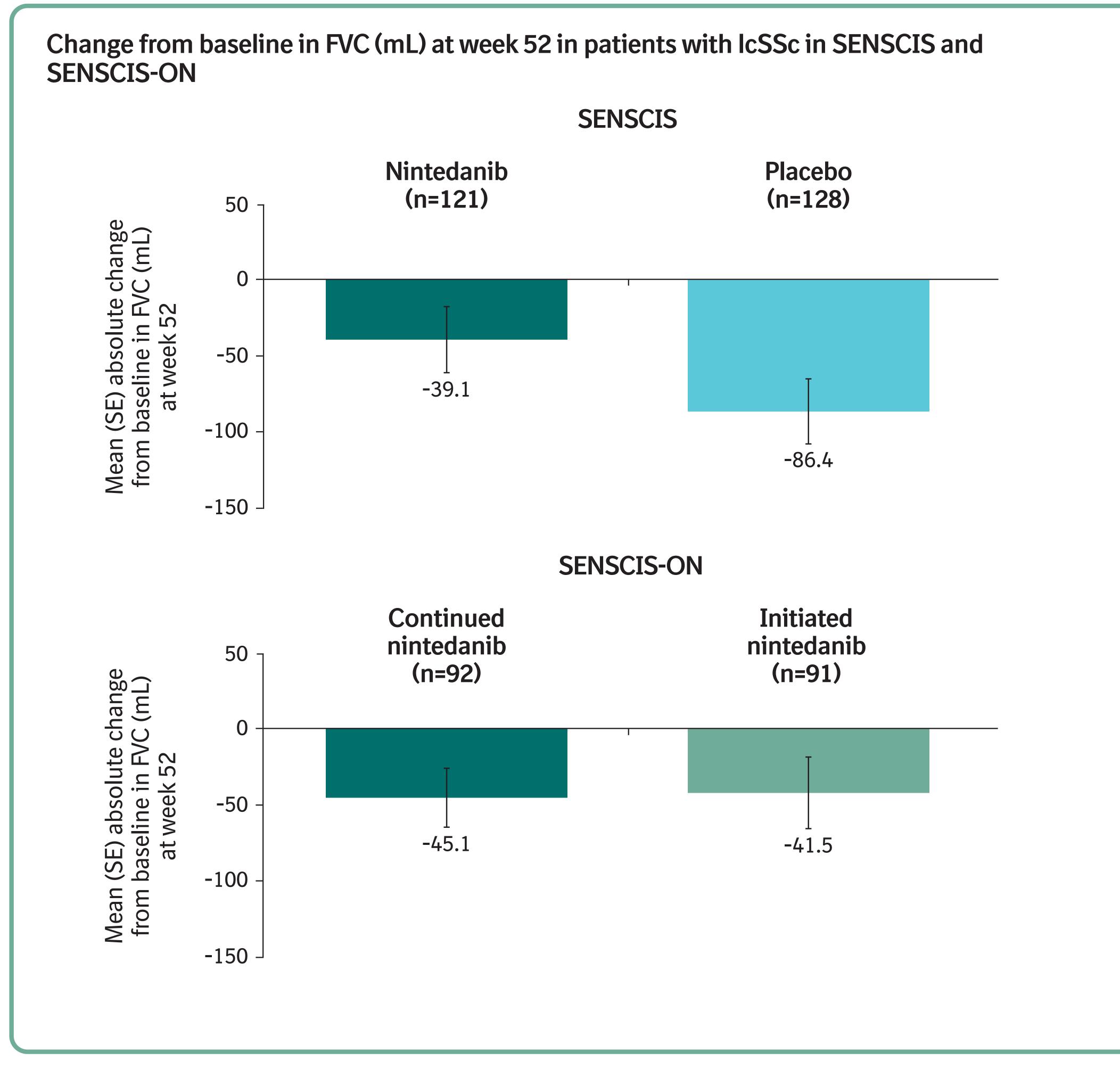
RESULTS

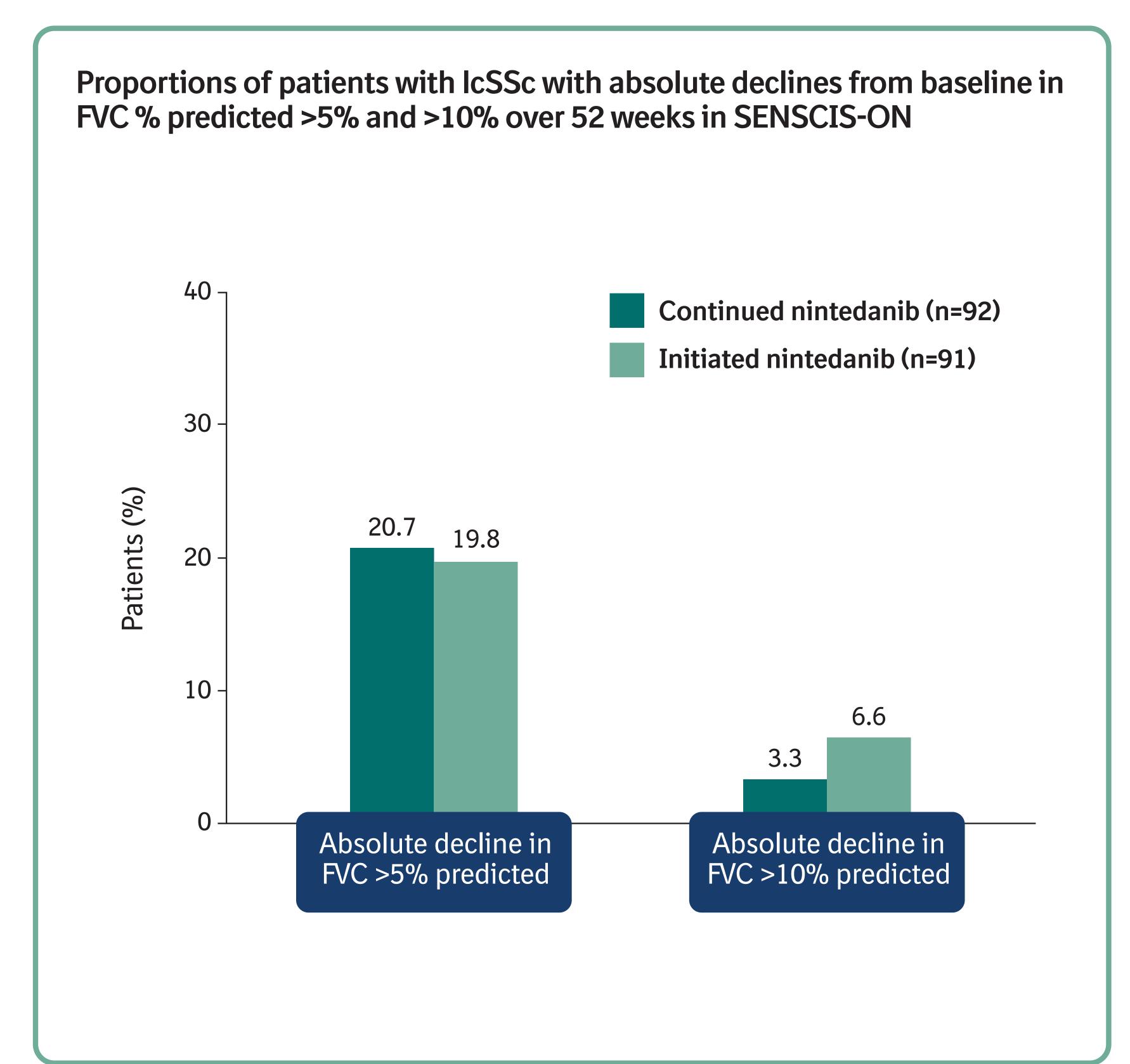
Proportions of patients with IcSSc with relative declines from baseline in

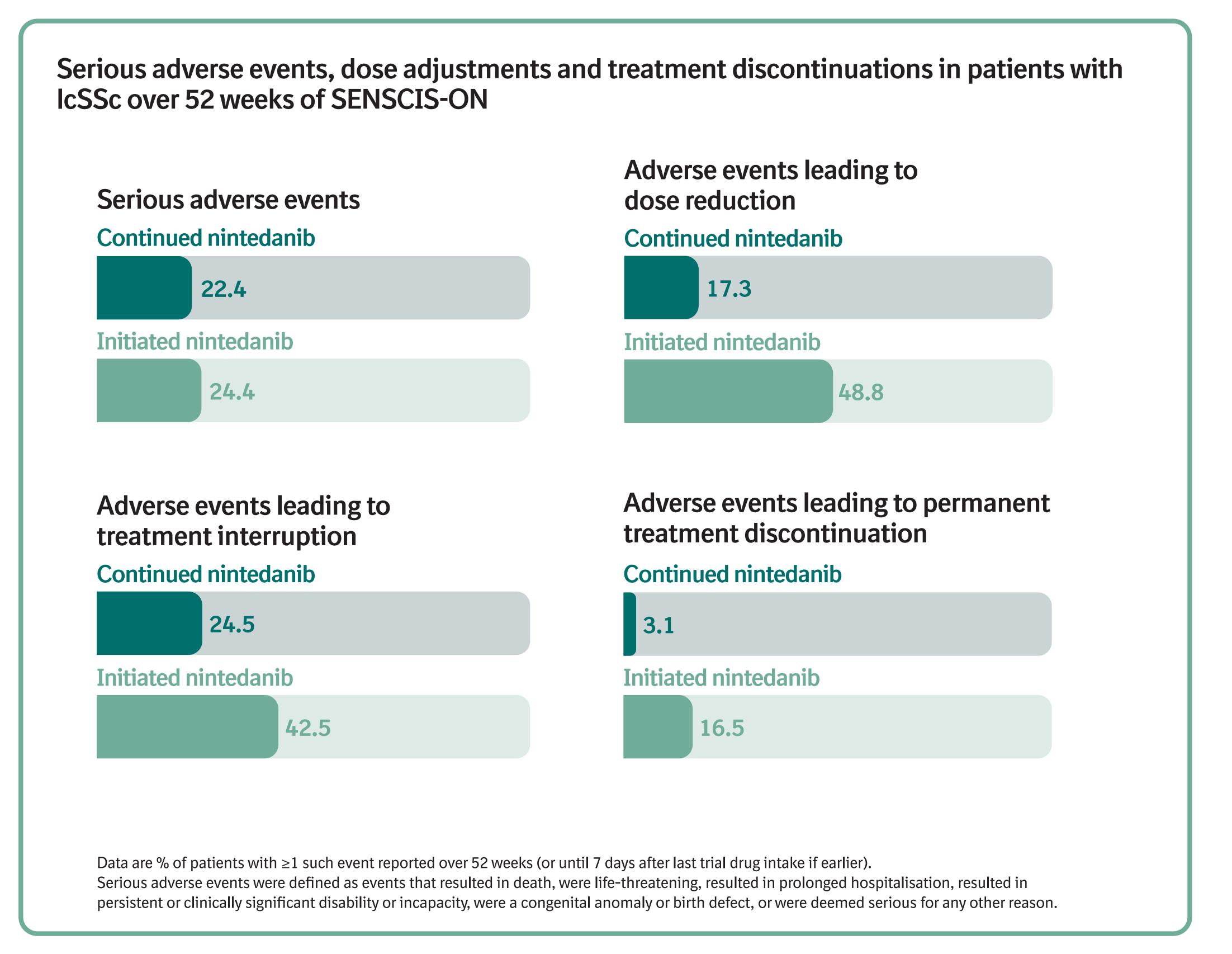












Scan QR code or visit URL for a device-friendly version of this poster including a voiceover from the lead author. Scan QR code or visit URL for a webpage featuring BI-supported publications at EULAR 2022. INTERACTIVE

REFERENCES

- 1. Frantz C et al. Autoimmun Rev 2020;19:102452.
- . Simeón-Aznar CP et al. Semin Arthritis Rheum 2012;41:789–800.
- 3. Nihtyanova SI et al. Arthritis Rheumatol 2014;66:1625–35. 4. Wollin L. Eur Respir J 2019;54:1900161.
- 5. Distler O et al. N Engl J Med 2019;380:2518–2528.
- 5. Vonk MC et al. Eur J Drug Metab Pharmacokinet 2022;47:81–89.

ACKNOWLEDGEMENTS AND DISCLOSURES

The SENSCIS and SENSCIS-ON trials were supported by Boehringer Ingelheim International GmbH (BI). The authors meet criteria for authorship as recommended by the International Committee of Medical Journal Editors (ICMJE). The authors did not receive payment for the development of this poster. Elizabeth Ng of Fleishman Hillard, London, UK, provided editorial and formatting assistance, which was contracted and funded by BI. BI was given the opportunity to review the poster for medical and scientific accuracy as well as intellectual property considerations. Yannick Allanore has received consulting fees and payment for presentations from BI; consulting fees from Sanofi; and has participated in a Data Safety Monitoring Board or advisory board for BI, Chemomab, Curizon, Medsenic, Menarini, Sanofi.