



ΕΠΙΣΤΗΜΟΝΙΚΗ ΕΤΑΙΡΕΙΑ ΓΙΑ ΤΗ ΜΥΟΣΚΕΛΕΤΙΚΗ ΥΓΕΙΑ

14^ο Πανελλήνιο Συνέδριο ΕΠΕΜΥ

Υβριδικό
Με φυσική παρουσία



Ρόδος

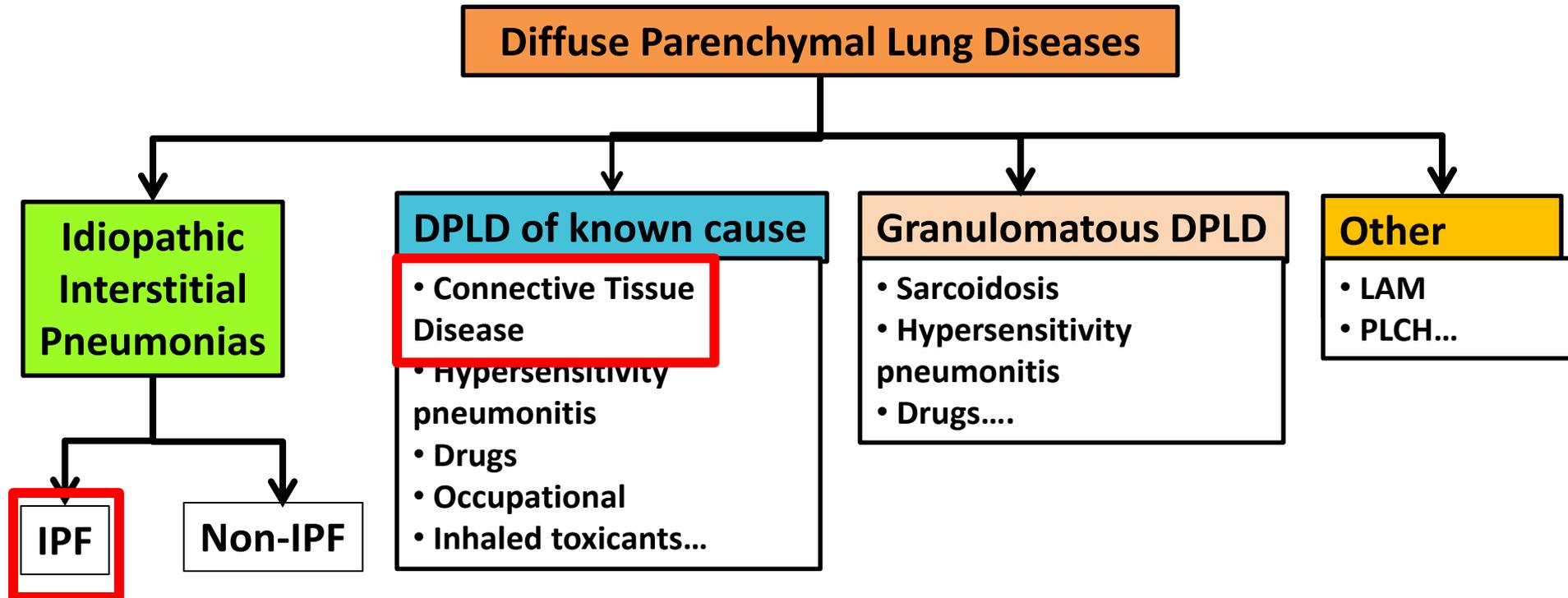
29 ΣΕΠΤΕΜΒΡΙΟΥ **-2** ΟΚΤΩΒΡΙΟΥ **2022**

Ξενοδοχείο Rodos Palace

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Η θέση του αντι-ινωτικού παράγοντα στη θεραπευτική των ασθενών με νοσήματα του συνδετικού ιστού και διάμεση πνευμονοπάθεια

DPLD classification



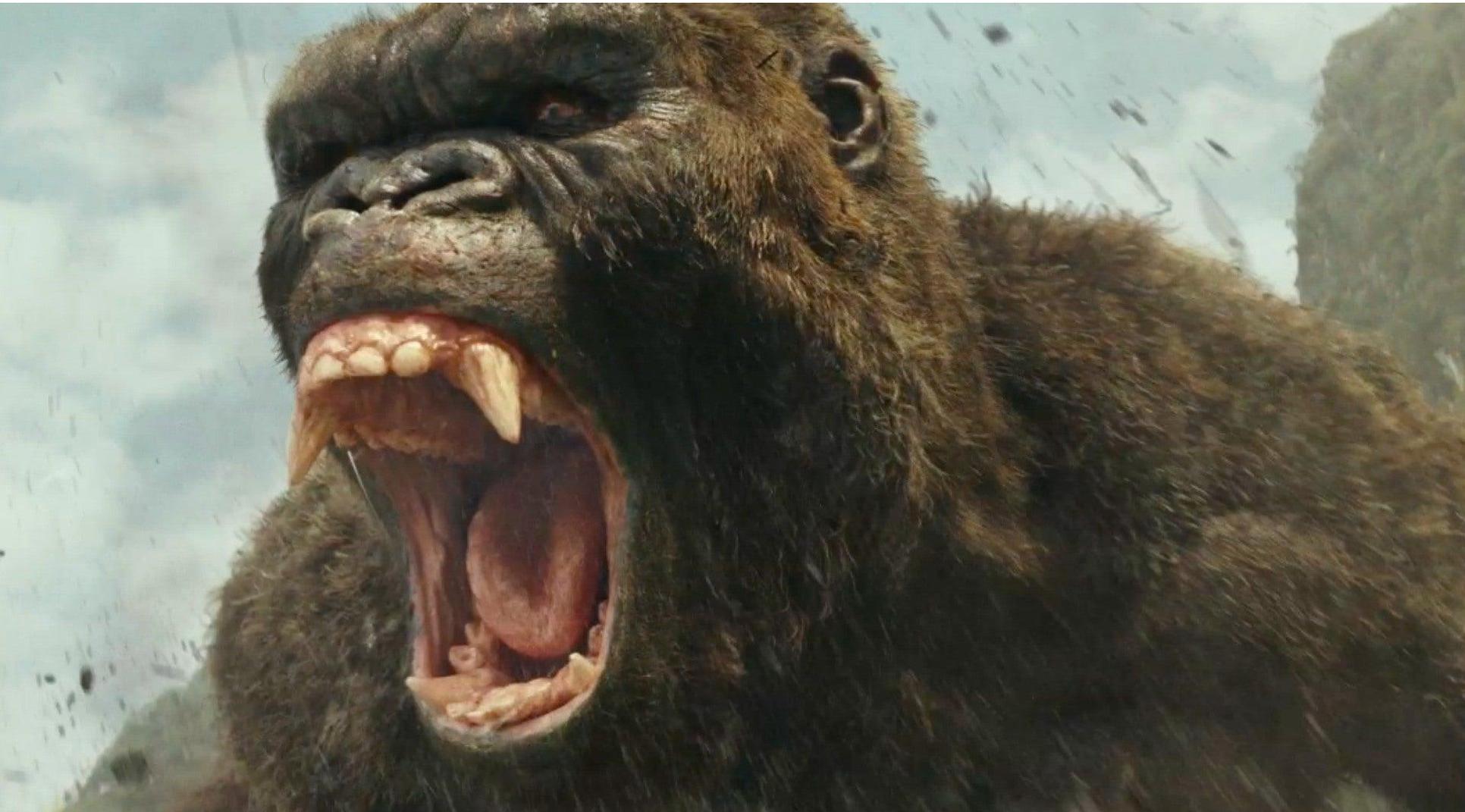
Respiratory involvement in CTDs

Manifestation	RA	SLE	SS	DM-PM	Sjögren's syndrome	MCTD	AS
Pleural effusion	++	++	±	-	±	+	-
Pleural fibrosis	+	-	-	-	-	-	-
Pneumothorax	+	-	-	-	±	-	+
Pneumomediastinum	-	-	-	+	-	-	-
Upper airway involvement	+	-	-	-	++	-	+
Bronchiolitis/bronchiectasis	+++	+	+	-	+	+	-/±
<u>UIP</u>	++	+	+	++	-/±	+	+
<u>NSIP</u>	+	+	+++	+++	-/±	++	+
Apical fibrobullous disease	±	-	±	-	-	±	++
LIP	-/±	-/±	-/±	-	+	-	-
Lymphoproliferative disorders	±	-	-	-	+	-	-
CPFE	+	-	±	-	-	±	±
DIP/RB-ILD	+	-	+	-	-	-	-
<u>COP/AEOP</u>	+	+	+	++	+	+	-
Eosinophilic pneumonia	-/±	-	-	-	-	-	-
DAD/ARDS	+	++	+	++	-	+	-
Pulmonary nodules	+	-	-	-	-	-	-
Pulmonary infections	+	+++	+	+	±	+	+
Aspiration pneumonia	-	-	++	++	-	+	±
Lung cancer	-	-	++	++	-	+	-
Pulmonary amyloidosis	-/±	-	-	-	-	-	-
PAH	+	+	++	+	-	++	±
DAH/capillaritis	-/±	+	-/±	-/±	-	±	-
Vasculitis	+	+	-	+	-	+	±
Pulmonary thromboembolism	+	++	+	±	-	+	-
Acute reversible hypoxemia	-	+	-	-	-	-	-
Respiratory muscle dysfunction	-/±	+	-	++	-	-	±
Thoracic cage involvement	±	-/±	-	±	-	-	+
Obstructive sleep apnea	±	-	-	-	-	-	++

Interstitial Lung Disease in CTD

- **Rheumatoid arthritis: UIP, NSIP**
- **Systemic Sclerosis: NSIP, UIP**
- **Polymyositis-dermatomyositis: OP/NSIP**
- **Sjogren syndrome: NSIP**

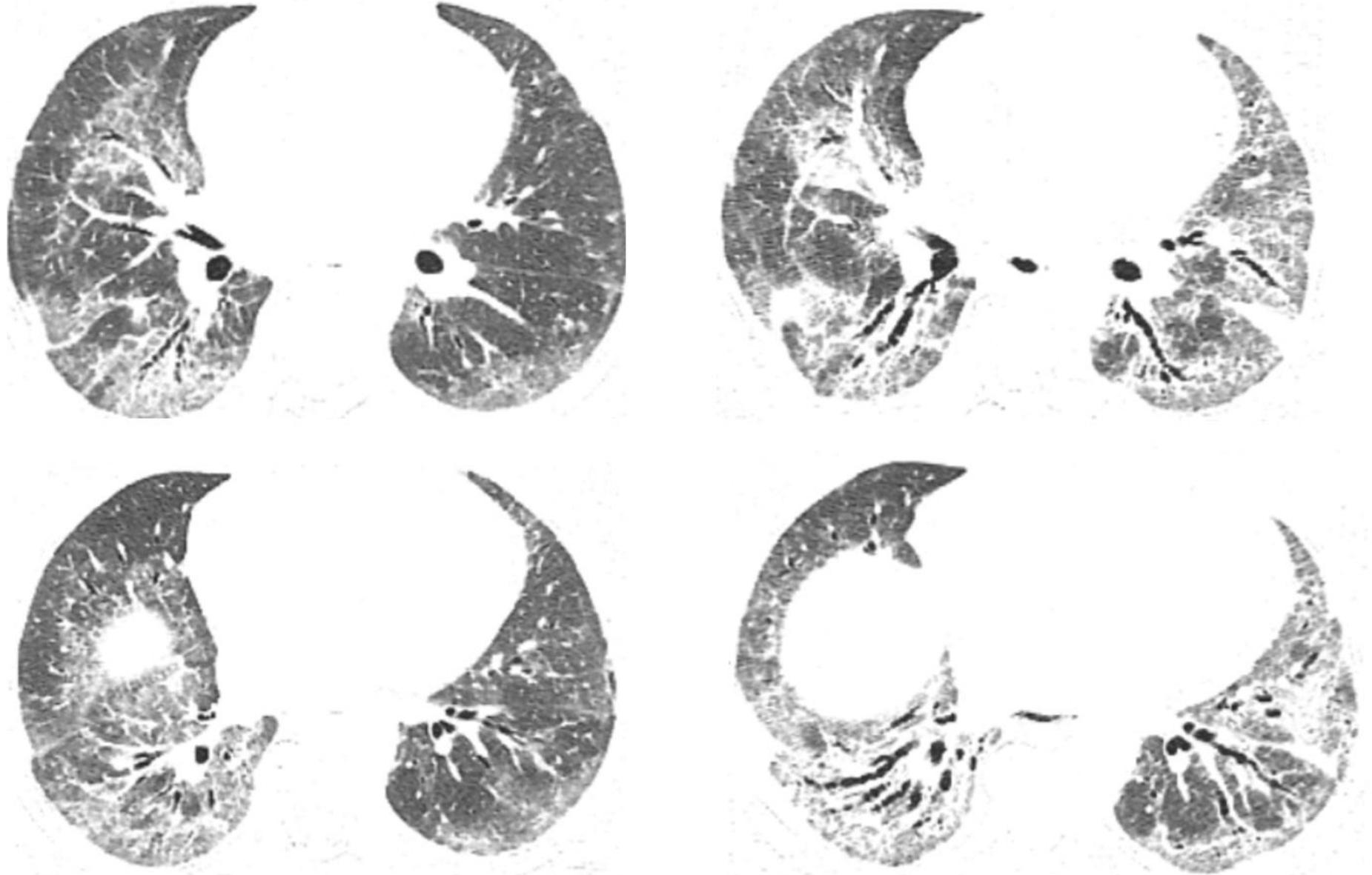
Usual Interstitial Pneumonia



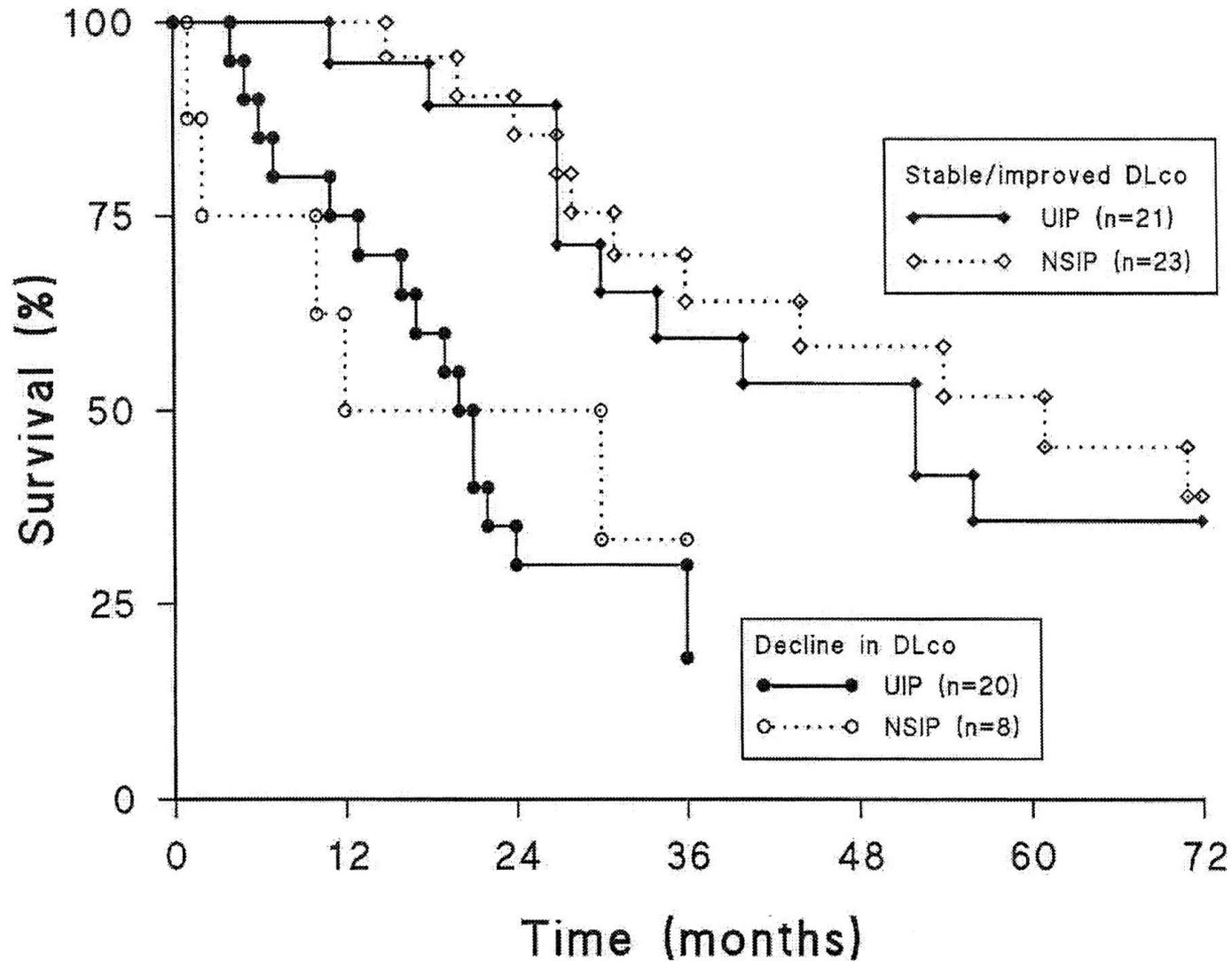
Importance of behavior



48F. Rheumatoid arthritis. Evolution in 3,5 months.



Progression more important than pathology pattern



Classification according to **DISEASE BEHAVIOR**



Idiopathic Interstitial Pneumonias:

Classification according to **DISEASE BEHAVIOR**

Clinical Behavior	Treatment Goal	Monitoring Strategy
Reversible and self-limited (e.g., many cases of RB-ILD)	Remove possible cause	Short-term (3- to 6-mo) observation to confirm disease regression
Reversible disease with risk of progression (e.g., cellular NSIP and some fibrotic NSIP, DIP, COP)	Initially achieve response and then rationalize longer term therapy	Short-term observation to confirm treatment response. Long-term observation to ensure that gains are preserved
Stable with residual disease (e.g., some fibrotic NSIP)	Maintain status	Long-term observation to assess disease course
Progressive, irreversible disease with potential for stabilization (e.g., some fibrotic NSIP)	Stabilize	Long-term observation to assess disease course
Progressive, irreversible disease despite therapy (e.g., IPF, some fibrotic NSIP)	Slow progression	Long-term observation to assess disease course and need for transplant or effective palliation

Expanding the paradigm *beyond IIPs*

Clinical Behavior

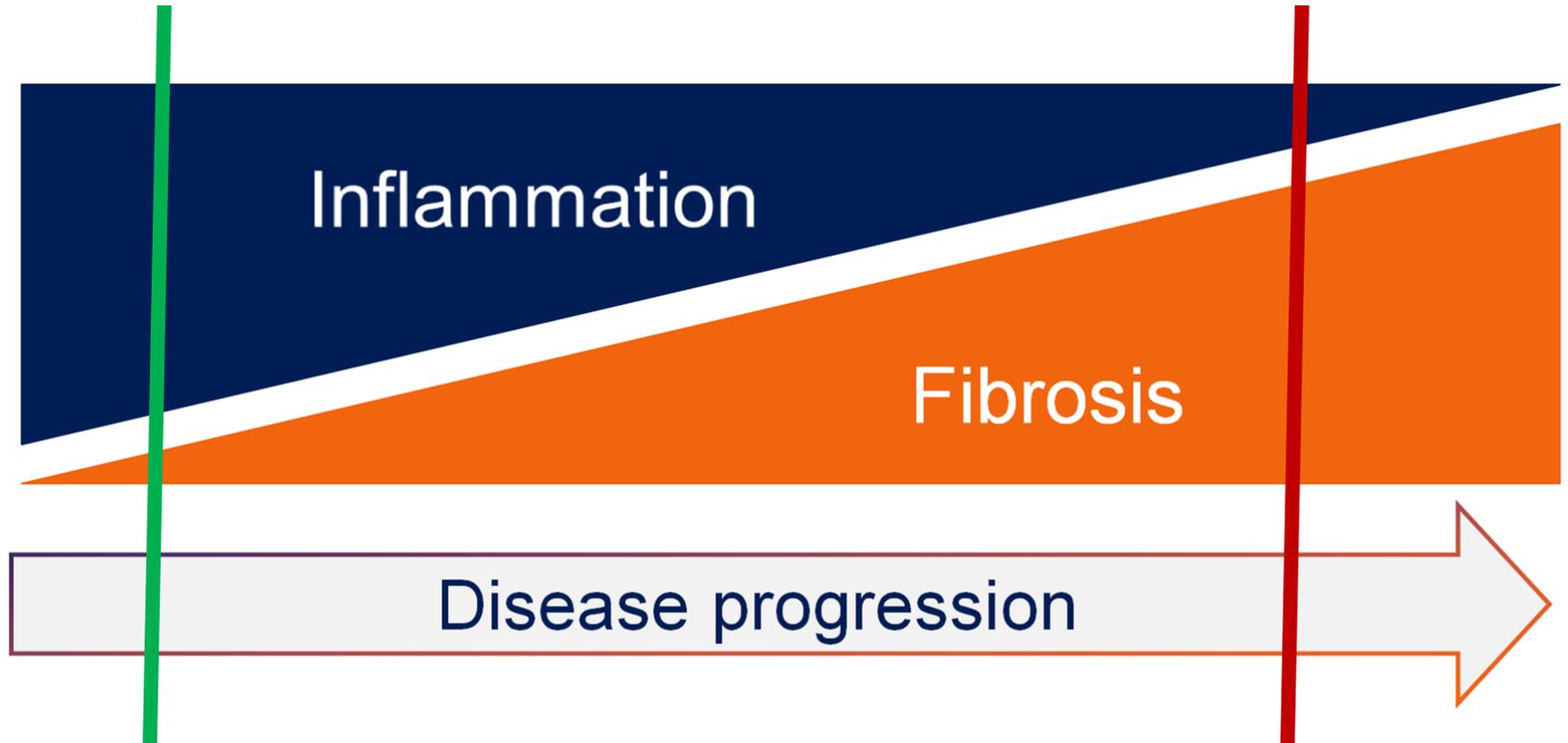
Reversible (self-limited)

Reversible (risk of progression)

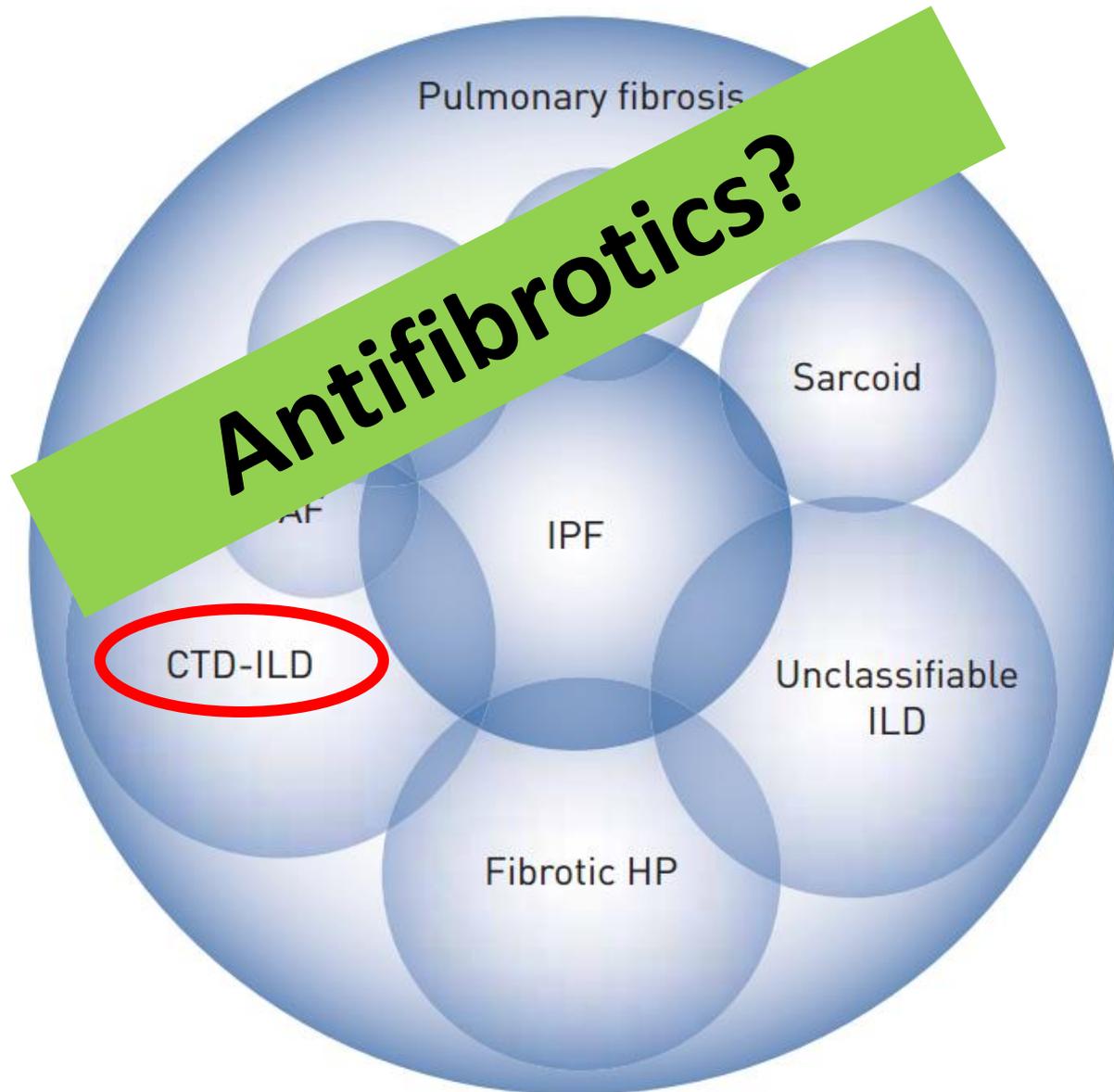
Stable (with residual disease)

Progressive, irreversible
(potential for stabilization or slowing progression)

Concept of disease evolution in CTD-ILDs



Longitudinal disease behavior in ILDs



INBUILD: Key inclusion criteria

- Age ≥ 18 years
- Physician-diagnosed ILD other than IPF
- Features of diffuse fibrosing lung disease (reticular abnormality with traction bronchiectasis, with or without honeycombing) of $>10\%$ extent on HRCT performed ≤ 12 months prior to screening, confirmed by central review
- Progressive phenotype
- FVC $\geq 45\%$ predicted
- DLco $\geq 30\%$ - $<80\%$ predicted

Progressive phenotype (at least one)

A

Relative FVC decline >10%

B

Relative FVC decline 5-10%

Worsening symptoms

OR

Progressive HRCT

C

Worsening symptoms

AND

Progressive HRCT

INBUILD: Baseline characteristics of overall population (1/2)

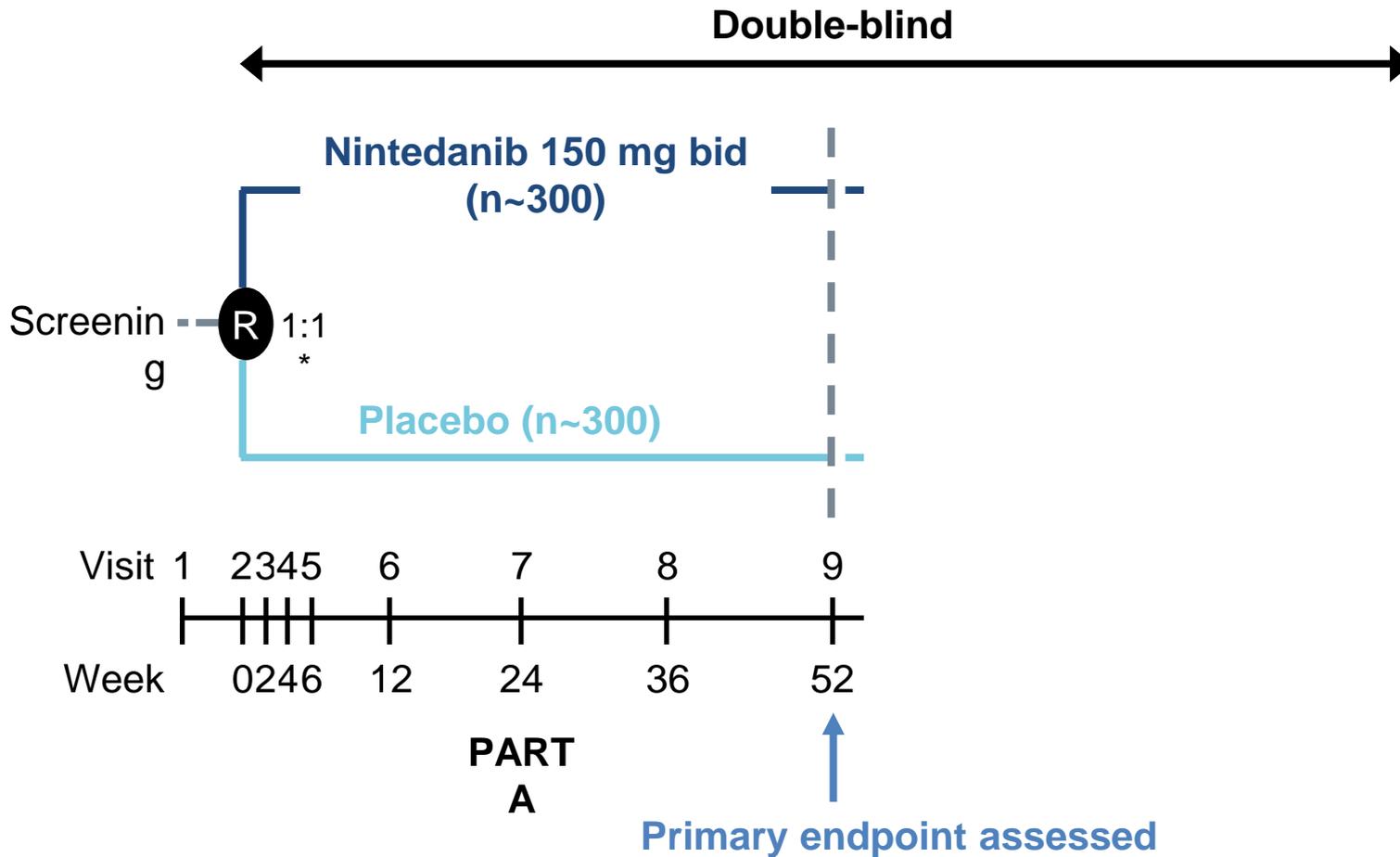
	Nintedanib (n=332)	Placebo (n=331)
Age, years, mean (SD)	65.2 (9.7)	66.3 (9.8)
Male, n (%)	179 (53.9)	177 (53.5)
Body mass index, kg/m², mean (SD)	28.1 (5.1)	28.4 (5.5)
Current or former smoker, n (%)	169 (50.9)	169 (51.1)
Race, n (%)*		
White	242 (72.9)	246 (74.3)
Asian	83 (25.0)	80 (24.2)
Black/African-American	5 (1.5)	5 (1.5)
American Indian/Alaska Native/Native Hawaiian/other Pacific Islander	1 (0.3)	0

INBUILD: Clinical ILD diagnoses in overall population

	Nintedanib (n=332)	Placebo (n=331)
Hypersensitivity pneumonitis	84 (25.3)	89 (26.9)
<u>Autoimmune ILDs</u>	82 (24.7)	88 (26.6)
Rheumatoid arthritis-associated ILD	42 (12.7)	47 (14.2)
Systemic sclerosis-associated ILD	23 (6.9)	16 (4.8)
Mixed connective tissue disease-associated ILD	7 (2.1)	12 (3.6)
Other autoimmune ILDs	10 (3.0)	13 (3.9)
Idiopathic non-specific interstitial pneumonia	64 (19.3)	61 (18.4)
Unclassifiable IIP	64 (19.3)	50 (15.1)
Other fibrosing ILDs*	38 (11.4)	43 (13.0)

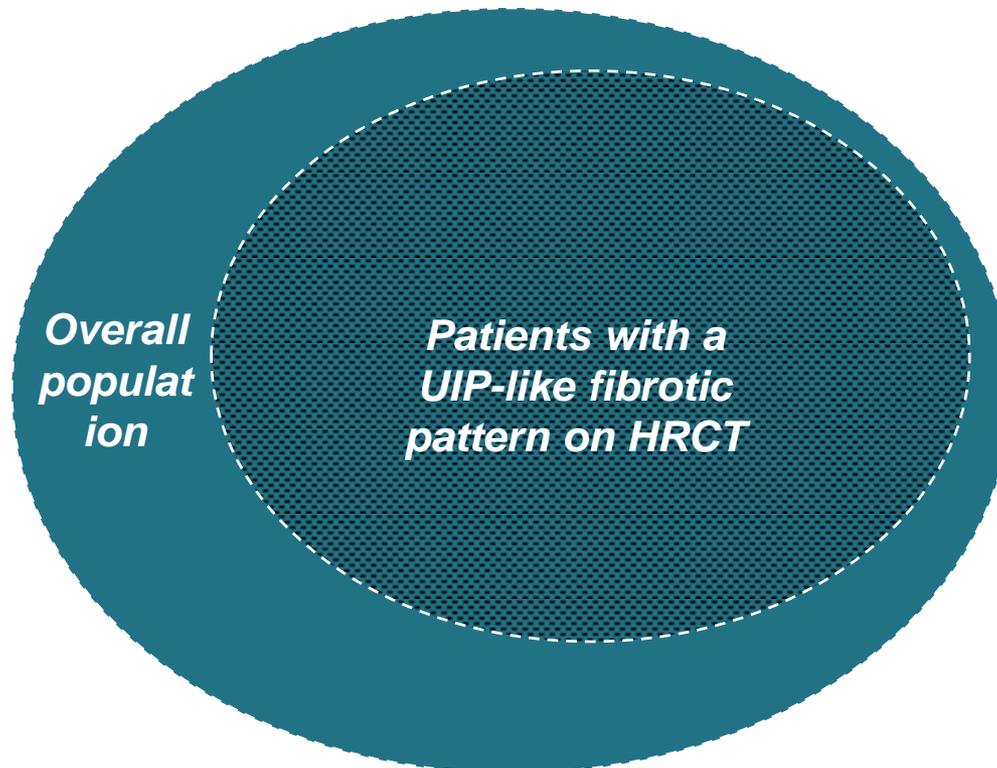
Data are n (%) of patients.

INBUILD: Trial design

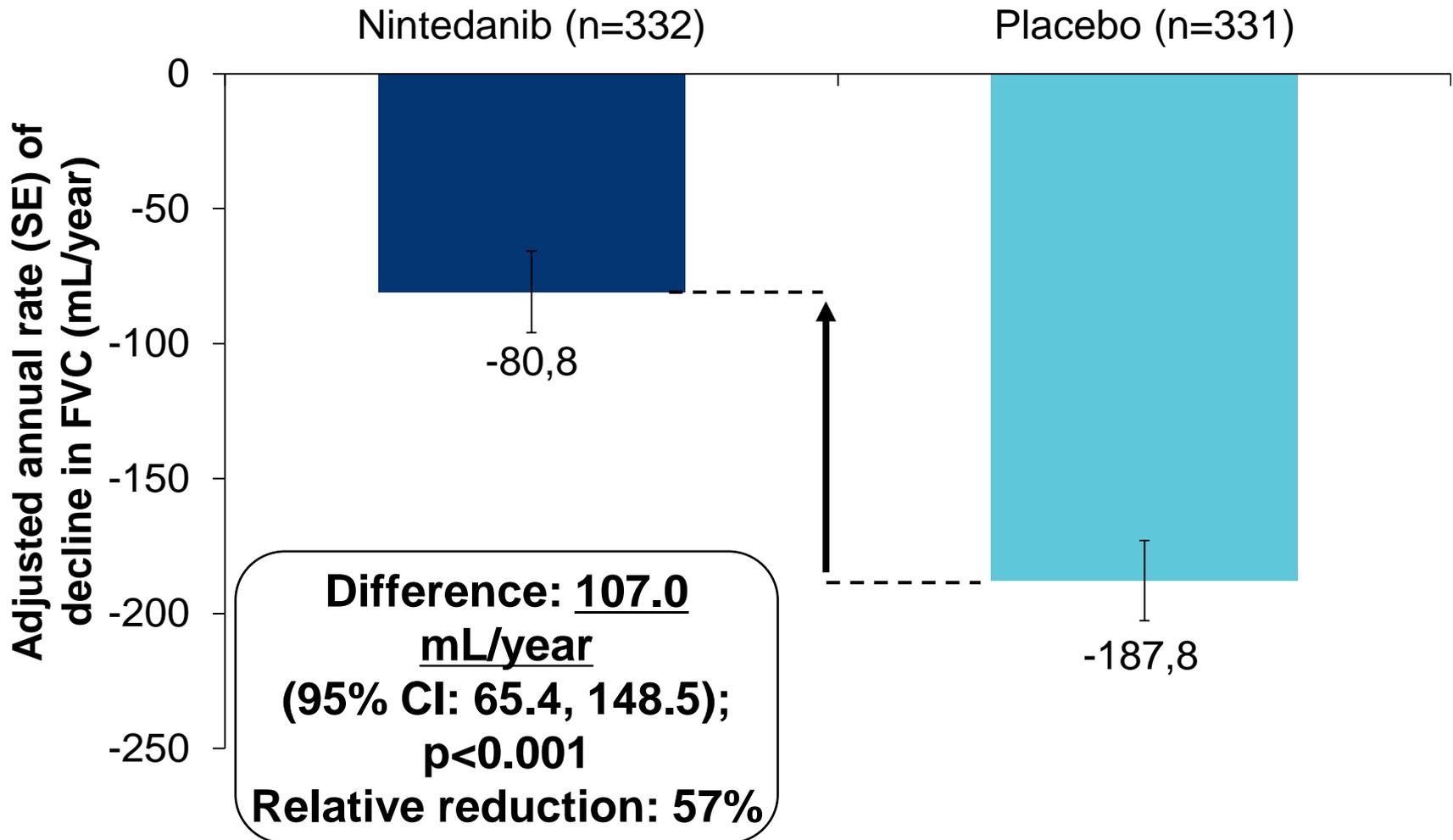


INBUILD: Primary endpoint

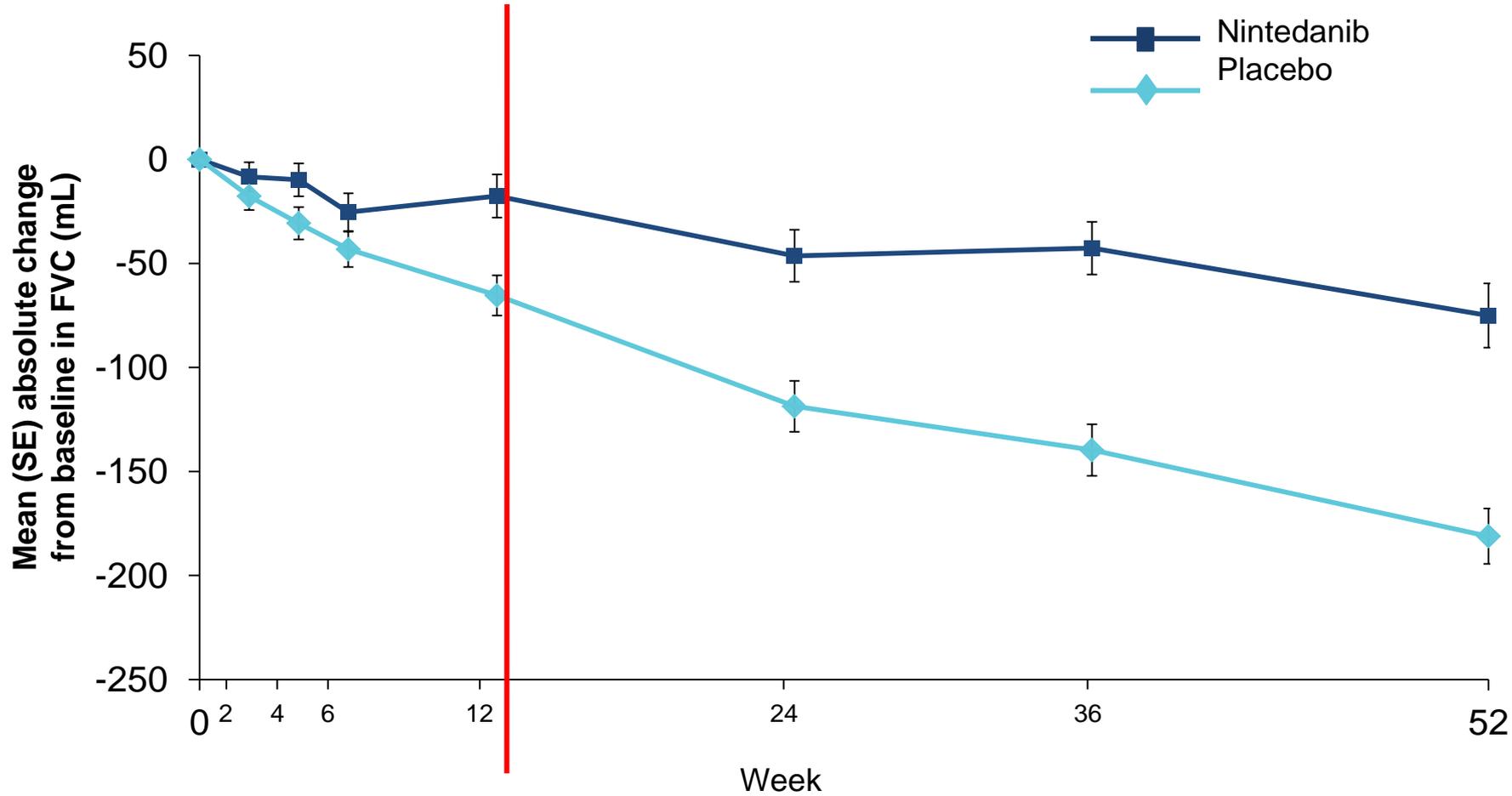
- **Primary endpoint: annual rate of decline in FVC (mL/year) assessed over 52 weeks**



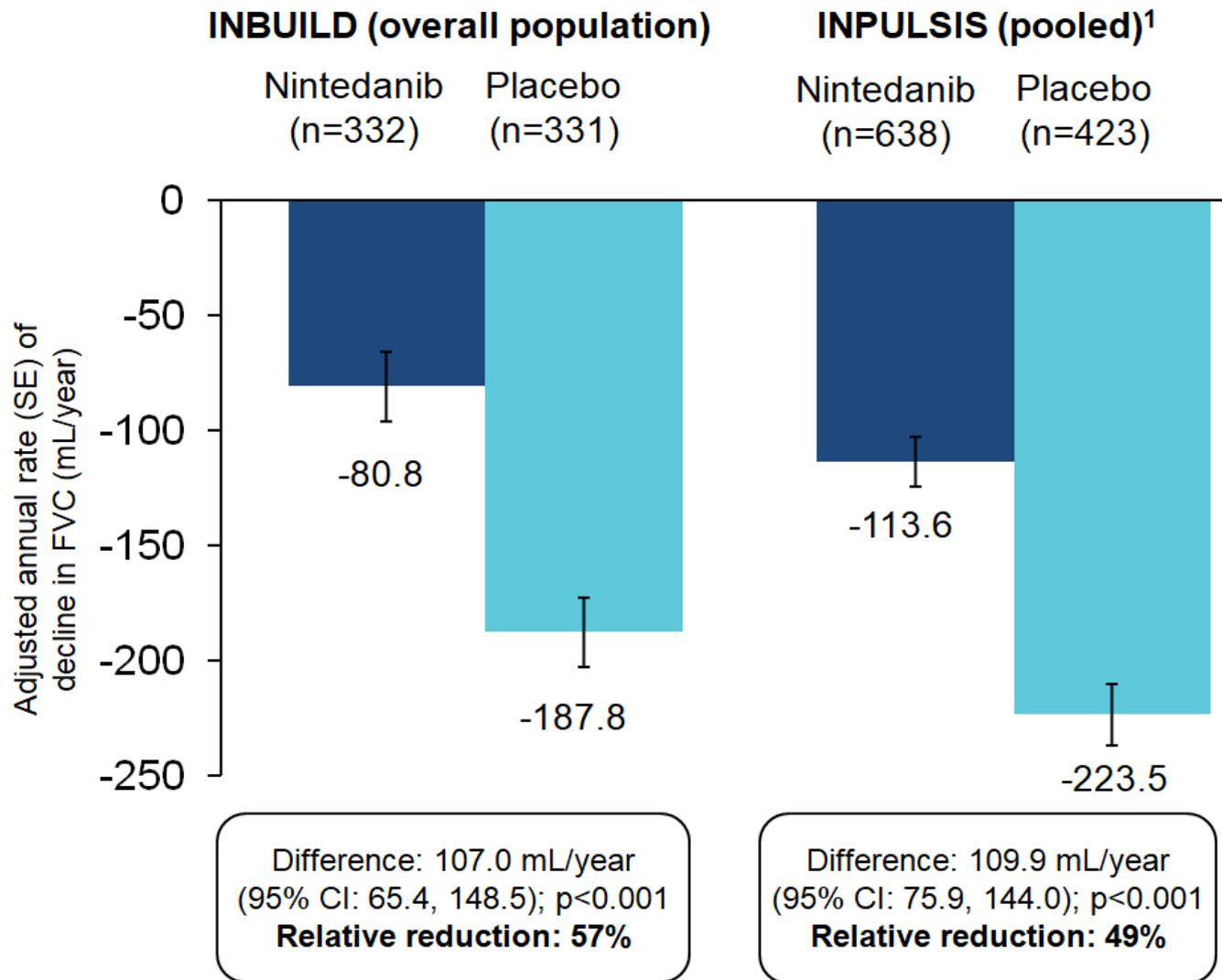
Annual rate of decline in FVC (mL/year) over 52 weeks in overall population



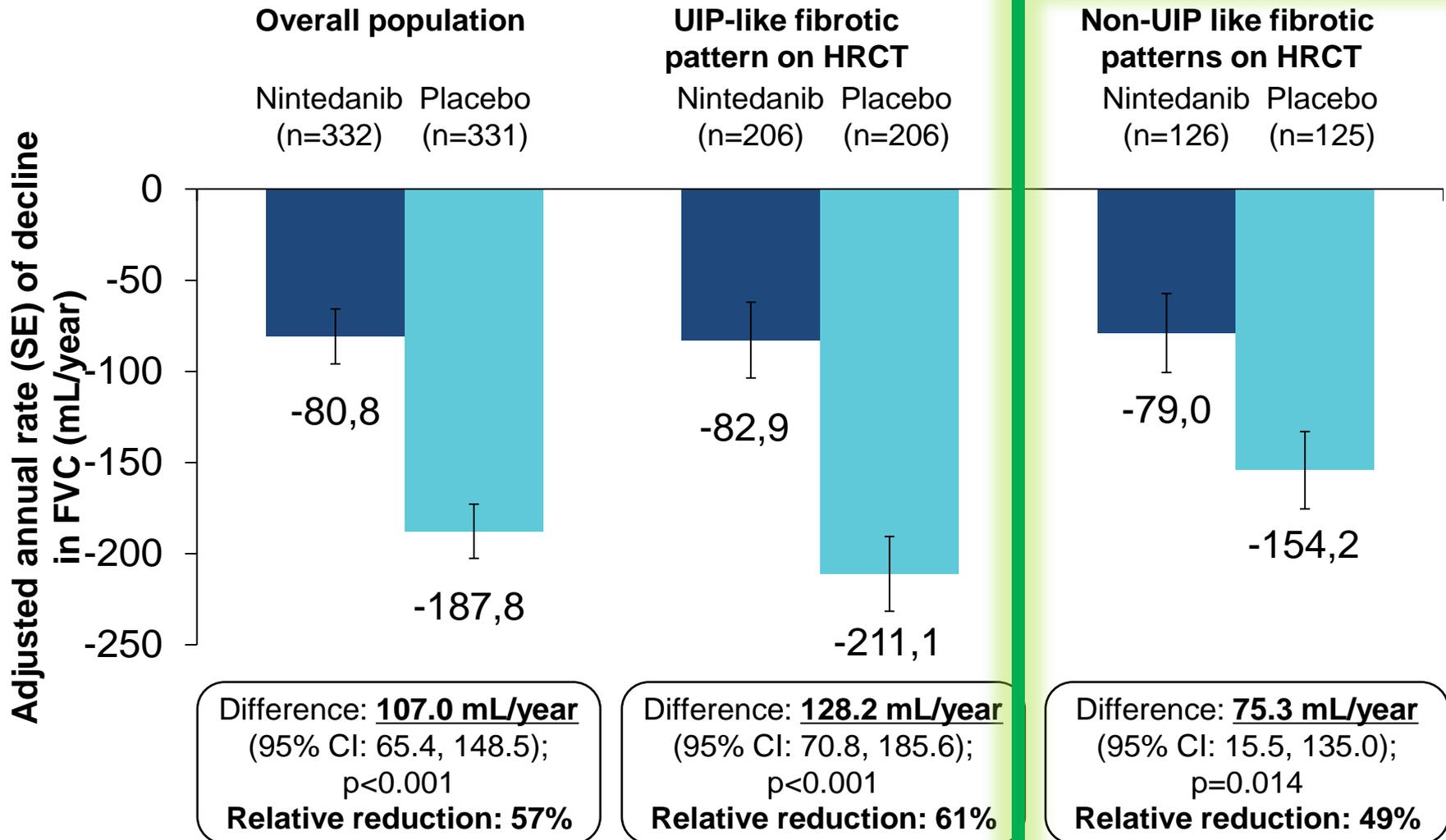
INBUILD: Change from baseline in FVC (mL) over 52 weeks in overall population



INBUILD and INPULSIS: Annual rate of decline in FVC (mL/year) over 52 weeks



INBUILD: Effect is preserved regardless HRCT pattern

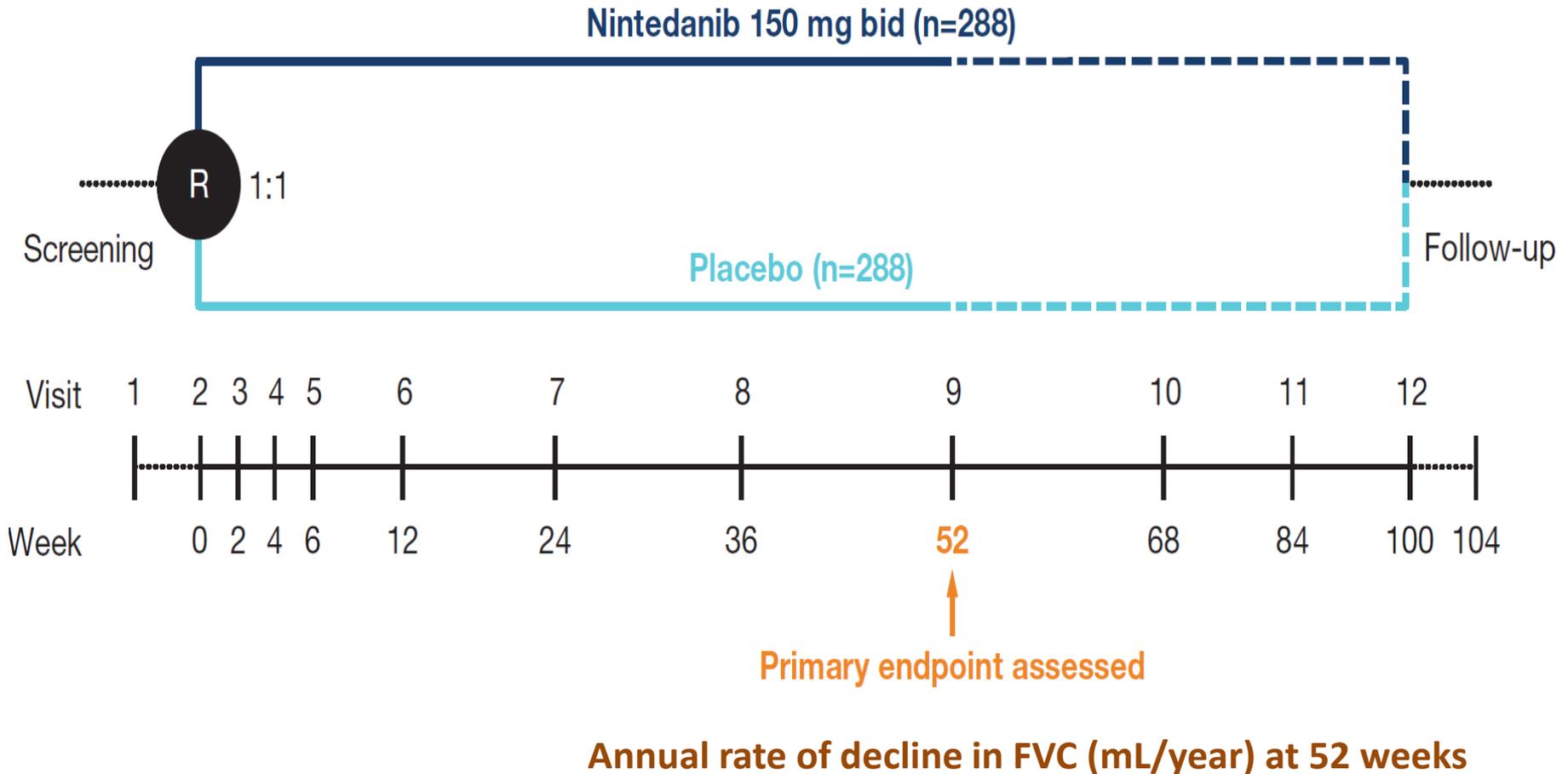


SENCIS trial-Systemic Sclerosis

- ≥ 18 years
- First non-Raynaud's symptom within 7 years before screening
- Extent of fibrosis (HRCT) $\geq 10\%$
- FVC $\geq 40\%$
- DLco: 30-89%

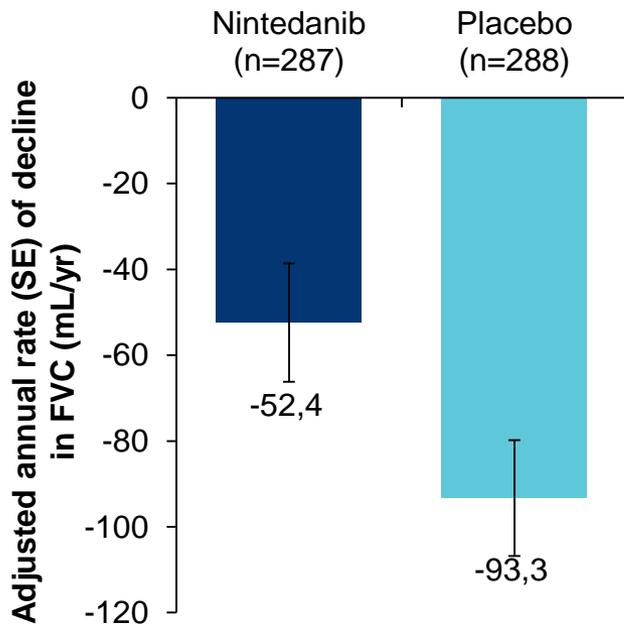
PROGRESSION WAS NOT AN INCLUSION CRITERION

SENCIS: Trial design



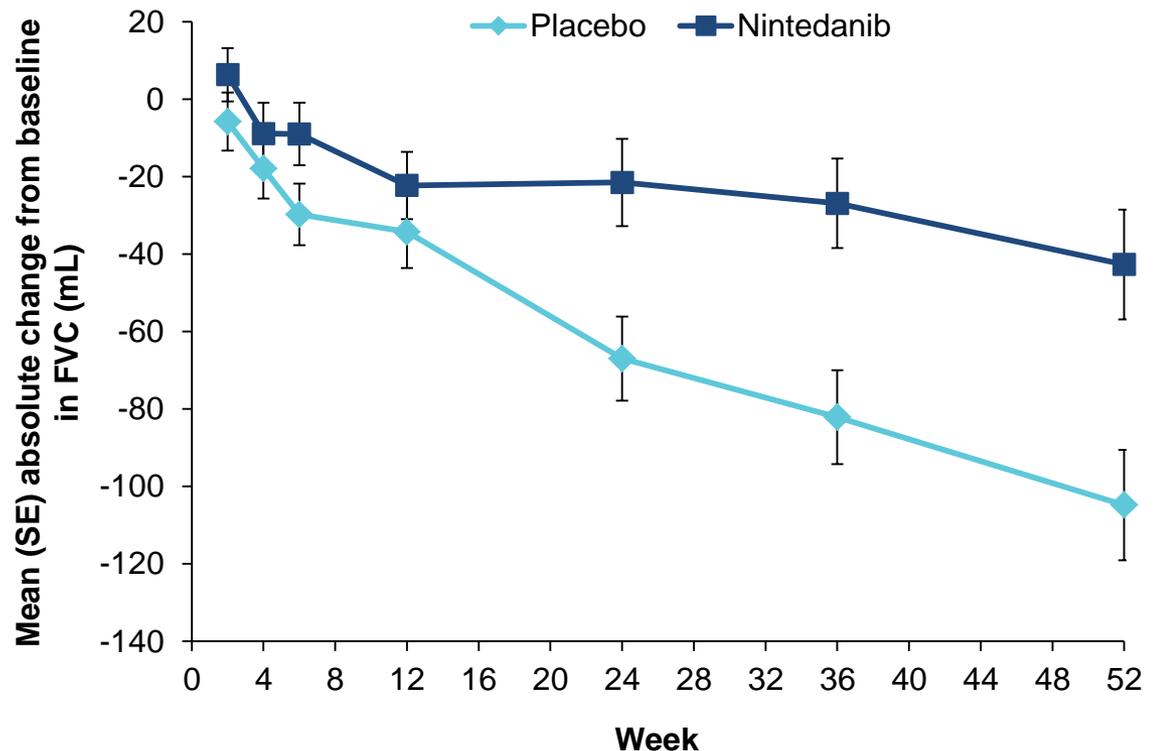
Decline in FVC over 52 weeks

Annual rate of decline in FVC (mL/yr) (primary endpoint)

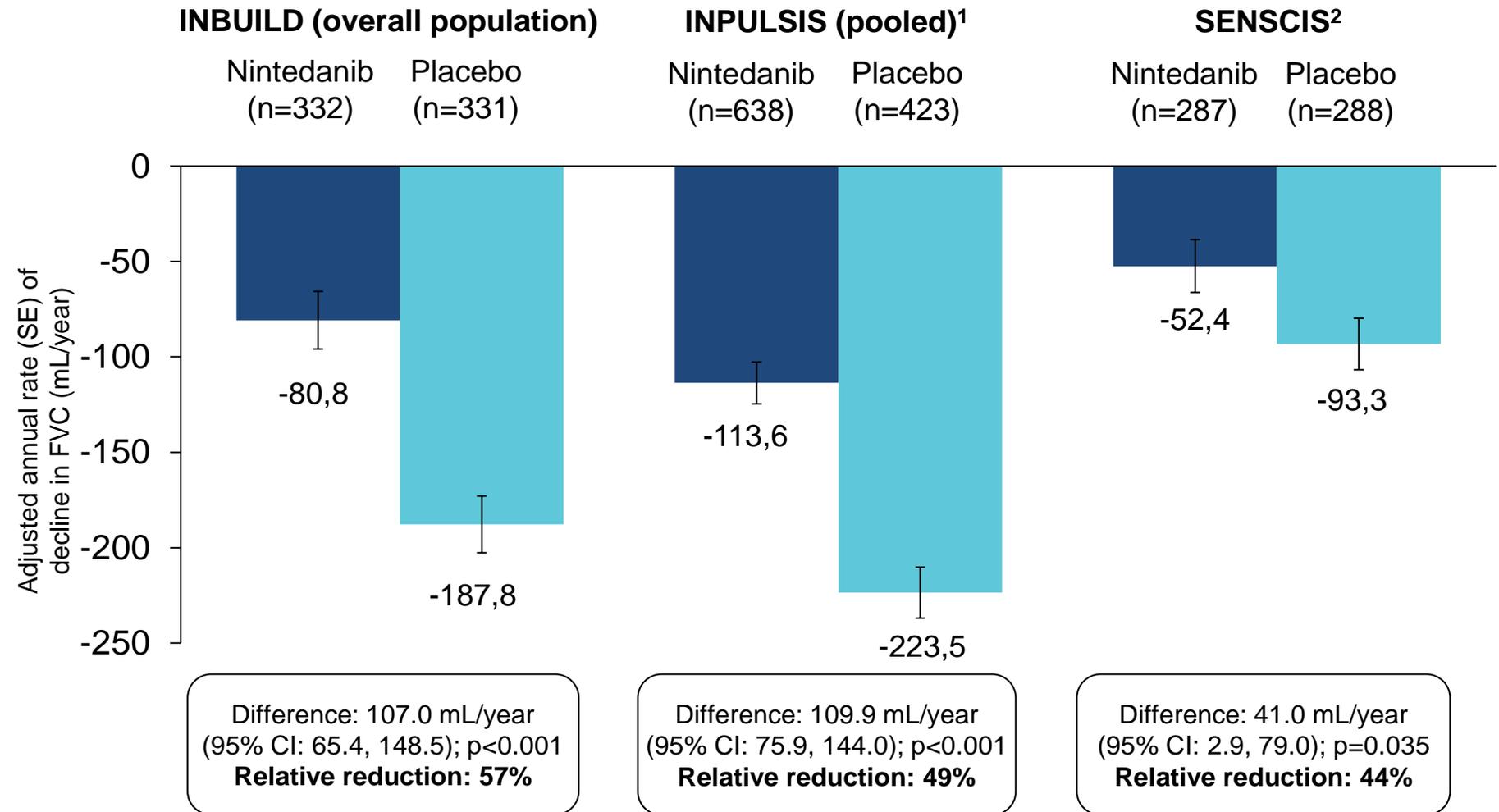


Difference: 41.0 mL/yr
(95% CI: 2.9, 79.0); p=0.04
Relative reduction: 44%

Change from baseline in FVC (mL) over 52 weeks



INBUILD, INPULSIS and SENSICIS: Annual rate of decline in FVC (mL/year) over 52 weeks



Idiopathic Pulmonary Fibrosis (an Update) and Progressive Pulmonary Fibrosis in Adults

An Official ATS/ERS/JRS/ALAT Clinical Practice Guideline

Pirfenidone. We recommend further research into the efficacy, effectiveness, and safety of pirfenidone in both 1) non-IPF ILD manifesting PPF in general and 2) specific types of non-IPF ILD manifesting PPF.

*Nintedanib.
We suggest nintedanib for the treatment of PPF in patients who have failed standard management for fibrotic ILD, other than IPF*

Progressive phenotype

HRCT

UIP or probable UIP pattern

Pulmonary Function Tests

FVC decline >10%

FVC decline 5-10%

Worsening symptoms

Progressive HRCT



Take home messages

- **Monitor disease progression**
 - ✓ **Clinical**
 - ✓ **Functional**
 - ✓ **Imaging**
- **Ask for previous PFTs, HRCTs**
- **Co-operation with pulmonologists**

- **Ευχαριστώ!**