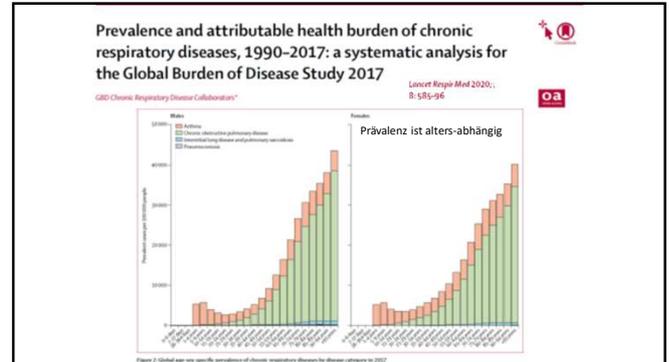
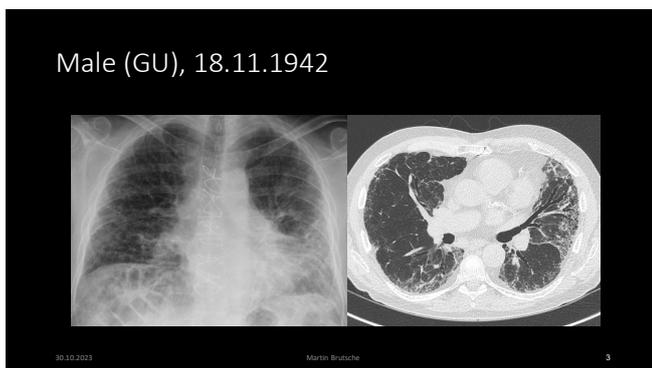




1



2



3

Male (GU), 18.11.1942

RISIKOFAKTOREN

- Ex-Raucher, zirka 10 PY, sistiert 1971, Negative FA, keine Exposition
- KLINIK
- Dyspnoe mMRC4 (e.g. Kleideranziehen), chronischer unproduktiver Husten
- Clubbing, BR 22/min, kachektisch
- Ko-MORBIDITÄT: schweres OSA, KHK, St.n. TIA, Osteoporose, leichte Anämie

BEFUNDE

- Histologie: UIP-Muster (VATS, 25.11.2010)
- Lungenfunktion: Restriktive Ventilationsstörung mit eingeschränkter Diffusionskapazität
- CT-Thorax vom 04.09.2013 : UIP-Muster
- 6-Minuten-Gehtest 610 m, minimale Sättigung 74% (14.05.2014)
- ILD-Board: Konsensdiagnose IPF 2010

30.10.2023 Martin Brutsche

4

Diagnosestellung (ATS, ERS 2018)

Table 4. High-Resolution Computed Tomography Scanning Patterns

UPP	Probable UIP	Indeterminate for UIP	Alternative Diagnosis
Subpleural and basal predominant distribution of reticular abnormalities with architectural distortion or honeycombing	Subpleural and basal predominant distribution of reticular abnormalities with architectural distortion or honeycombing	Subpleural and basal predominant distribution of reticular abnormalities with architectural distortion or honeycombing	Produce suggestion of another diagnosis, including: <ul style="list-style-type: none"> • COPD • Sarcoidosis • Scleroderma • Postoperative SGO • Pulmonary metastases • Connective tissue disease • Hypersensitivity pneumonitis • Usual interstitial pneumonia • Usual or non-usual interstitial pneumonia
Isolated or predominantly peripheral distribution of reticular abnormalities with architectural distortion or honeycombing	Isolated or predominantly peripheral distribution of reticular abnormalities with architectural distortion or honeycombing	Isolated or predominantly peripheral distribution of reticular abnormalities with architectural distortion or honeycombing	Produce suggestion of another diagnosis, including: <ul style="list-style-type: none"> • COPD • Sarcoidosis • Scleroderma • Postoperative SGO • Pulmonary metastases • Connective tissue disease • Hypersensitivity pneumonitis • Usual interstitial pneumonia • Usual or non-usual interstitial pneumonia
Isolated or predominantly peripheral distribution of reticular abnormalities with architectural distortion or honeycombing	Isolated or predominantly peripheral distribution of reticular abnormalities with architectural distortion or honeycombing	Isolated or predominantly peripheral distribution of reticular abnormalities with architectural distortion or honeycombing	Produce suggestion of another diagnosis, including: <ul style="list-style-type: none"> • COPD • Sarcoidosis • Scleroderma • Postoperative SGO • Pulmonary metastases • Connective tissue disease • Hypersensitivity pneumonitis • Usual interstitial pneumonia • Usual or non-usual interstitial pneumonia

Table 5. Histopathology Patterns and Features

UPP	Probable UIP	Indeterminate for UIP	Alternative Diagnosis
<ul style="list-style-type: none"> • Dense fibrosis with architectural distortion or obstructive emphysema and/or honeycombing • Multifocal distribution of fibrosis • Patchy involvement of lung parenchyma by fibrosis • Fibrotic foci • Absence of features to suggest an alternate diagnosis 	<ul style="list-style-type: none"> • Some histologic features consistent with UIP are present to an extent that precludes definite diagnosis of UIP • Absence of features to suggest an alternate diagnosis • Honeycombing only 	<ul style="list-style-type: none"> • Some histologic features consistent with UIP are present to an extent that precludes definite diagnosis of UIP • Absence of features to suggest an alternate diagnosis • Honeycombing only 	<ul style="list-style-type: none"> • Fibrotic plaques (consider scleroderma) • Distal emphysema (consider COPD) • COPD (consider emphysema) • Sarcoidosis • Scleroderma • Postoperative SGO • Pulmonary metastases • Connective tissue disease • Hypersensitivity pneumonitis • Usual interstitial pneumonia • Usual or non-usual interstitial pneumonia

5

Diagnosis of Idiopathic Pulmonary Fibrosis

An Official ATS/ERS/JRS/ALAT Clinical Practice Guideline 2018

Question 7: Should Patients with Newly Detected ILD of Unknown Cause Who Are Clinically Suspected of Having IPF Be the Subject of MDD for Decision-Making?

Putting the evidence together. For every 1,000 patients who undergo diagnostic decision-making, SDD and MDD will derive the same diagnosis in 700 patients and different diagnoses in 300 patients. If one accepts MDD as the reference standard, then as many as 300 patients will be potentially subject to incorrect therapy, delayed therapy, or unnecessary additional diagnostic testing.

Conclusions. The guideline panel agreed that MDD is preferred, because the notion that as many as 300 patients may be subject to incorrect therapy, delayed therapy, or unnecessary additional diagnostic testing was deemed unacceptable.

6

The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

A Phase 3 Trial of Pirfenidone in Patients with Idiopathic Pulmonary Fibrosis

Talmadge E. King, Jr., M.D., Williamson Z. Bradford, M.D., Ph.D., Socorro Castro-Bernardini, M.D., Elizabeth A. Fagan, M.D., Ian Glaspole, M.B., B.S., Ph.D., Marilyn K. Glassberg, M.D., Eduard Gorina, M.D., Peter M. Hopkins, M.D., David Kardatzke, Ph.D., Lisa Lancaster, M.D., David J. Lederer, M.D., Steven D. Nathan, M.D., Carlos A. Pereira, M.D., Steven A. Sahn, M.D., Robert Sussman, M.D., Jeffrey J. Swigris, D.O., and Paul W. Noble, M.D., for the ASCEND Study Group*

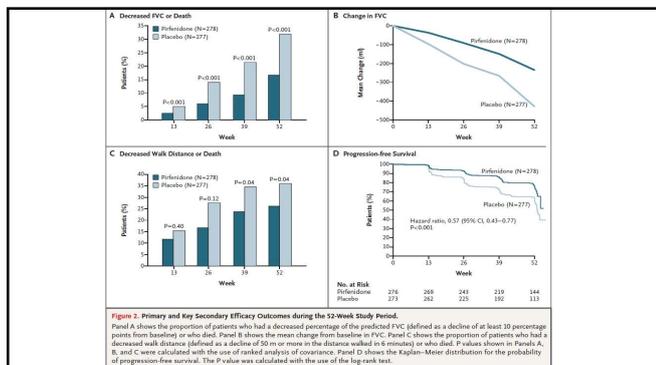
May 2014
N=555

7

Einschlusskriterien und Durchführung

- N=555
- 127 Zentren (87 in den USA - alle Kontinente ausser Afrika)
- 1:1 Randomisierung für Pirfenidon 3x3 Tbl à 267 mg per os oder Placebo für 52 Wochen
- Alter 40 – 80 Jahre
- IPF-Diagnose bestätigt durch zentrales Komitee
 - „definite IPF“
 - „possible IPF“ -> Bestätigung mit chirurgischer Biopsie
- DLCO 30-90%, FVC 50-90%, FEV1/FVC >0.8
- 6-Minuten Gehstest >150 m

8



9

Table 2. Mortality in the ASCEND and CAPACITY Trials.^a

Variable	Pirfenidone	Placebo	Hazard Ratio (95% CI) [†]	P Value [‡]
ASCEND trial				
No. of patients	278	277		
Death — no. (%)				
From any cause	11 (4.0)	20 (7.2)	0.55 (0.26–1.15)	0.10
Related to idiopathic pulmonary fibrosis [§]	3 (1.1)	7 (2.5)	0.44 (0.11–1.72)	0.23
Pooled data from ASCEND and CAPACITY trials				
No. of patients	623	624		
Death — no. (%)				
From any cause	22 (3.5)	42 (6.7)	0.52 (0.31–0.87)	0.01
Related to idiopathic pulmonary fibrosis [§]	7 (1.1)	22 (3.5)	0.32 (0.14–0.76)	0.006

10

Table 3. Adverse Events.^a

Adverse Event	Pirfenidone (N=278)	Placebo (N=277)
	no. of patients (%)	
Cough	70 (25.2)	82 (29.6)
Nausea	100 (36.0)	37 (13.4)
Headache	72 (25.9)	64 (23.1)
Diarrhea	62 (22.3)	60 (21.7)
Upper respiratory tract infection	61 (21.9)	56 (20.2)
Fatigue	58 (20.9)	48 (17.3)
Rash	73 (26.3)	24 (8.7)
Dyspnea	41 (14.7)	49 (17.7)
Dizziness	49 (17.6)	36 (13.0)
Idiopathic pulmonary fibrosis [†]	26 (9.4)	50 (18.1)
Bronchitis	39 (14.0)	36 (13.0)
Constipation	32 (11.5)	38 (13.7)
Back pain	30 (10.8)	37 (13.4)
Dyspepsia	49 (17.6)	37 (13.4)
Nasopharyngitis	33 (11.9)	30 (10.8)
Anorexia	44 (15.8)	18 (6.5)
Vomiting	36 (12.9)	24 (8.7)
Decrease in weight	35 (12.6)	22 (7.9)
Gastroesophageal reflux	33 (11.9)	18 (6.5)
Insomnia	31 (11.2)	18 (6.5)

11

The NEW ENGLAND JOURNAL of MEDICINE

ESTABLISHED IN 1827 MAY 29, 2014 VOL. 370 NO. 22

Efficacy and Safety of Nintedanib in Idiopathic Pulmonary Fibrosis

Luca Richeldi, M.D., Ph.D., Roland M. du Bois, M.D., Ganesh Raghu, M.D., Arata Azuma, M.D., Ph.D., Kevin K. Brown, M.D., Ulrich Costabel, M.D., Vincent Cottin, M.D., Ph.D., Kevin R. Flaherty, M.D., David M. Hansell, M.D., Yoshikazu Inoue, M.D., Ph.D., Dong Soon Kim, M.D., Martin Kolb, M.D., Ph.D., Andre G. Nicholson, D.M., Paul W. Noble, M.D., Moses Selman, M.D., Hiroaki Tanguchi, M.D., Ph.D., Michèle Brun, M.Sc., Florence Le Maulf, M.Sc., Mannaig Girard, M.Sc., Susanne Stowasser, M.D., Roza Schlenker-Herzog, M.D., Bernd Disse, M.D., Ph.D., and Harold R. Colford, M.D., for the INPULSIS Trial Investigators[†]

N=1061

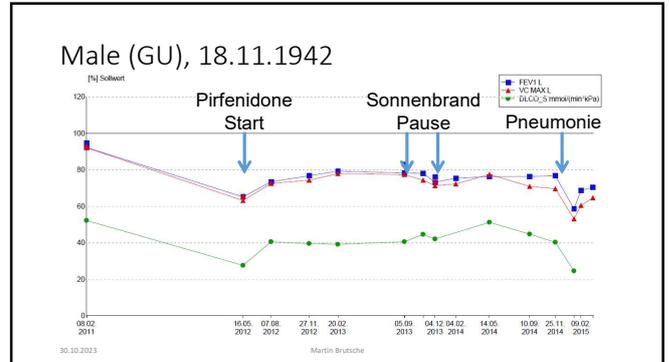
12

An Official ATS/ERS/JRS/ALAT Clinical Practice Guideline: Treatment of Idiopathic Pulmonary Fibrosis
 An Update of the 2011 Clinical Practice Guideline 2015

Therapieoptionen

- **Lungentransplantation!**
- Empfohlen und in der CH zugelassen
 - Pirfenidone (Esbriet)
 - Nintedanib (Ofev)
- PPIs, LOT bei Hypoxämie, APR
- Nicht empfohlen: Immunsuppression, Etanercept, Bosentan, IFN γ , OAK, NAC, Imatinib

13



14

Male (GU), 18.11.1942

VERLAUF

- makrozytäre, hyperchrome Anämie, frühes Ergrauen der Haare
- DD: Short-Telomer-Syndrom (...ist assoziiert mit IPF...)
- Telomerlängenmessung (Inselspital Bern) 08.05.2018 : kurze Telomerlängen für alle Lc-Subpopulationen, bei Granulozyten und naive T-Zellen unter der 1. Perzentile → Telomeropathie wahrscheinlich.
- Germline Panel für Telomer Störungen NGS im Blut (Inselspital) 06.9.2018: keine Mutationen nachweisbar
- Zytogenetik Knochenmark 16.07.2018 : del(20 q11.2-q13.3)

THERAPIE

- Seit 11/2018: Danazol 100mg 1-0-0

30.10.2023 Martin Brutsche

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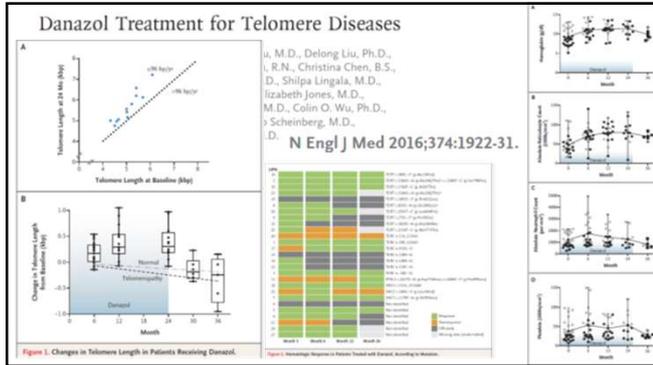
Danazol Treatment for Telomere Diseases

Table 1. Baseline Characteristics of the Patients.^a

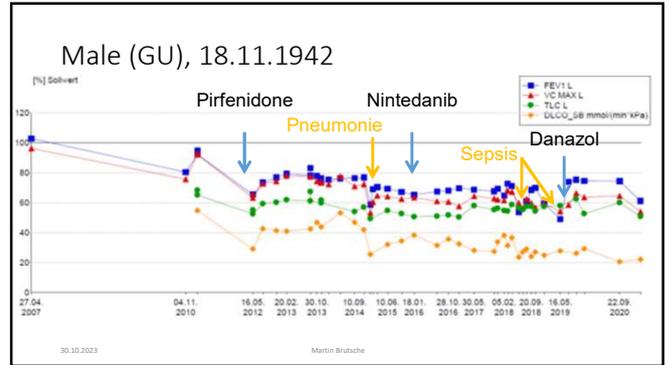
Characteristic	All Patients (N=27)	Patients with Mutation Identified				Patients with No Identified Mutation (N=4)
		TERT (N=15)	TERC (N=7)	DKC1 (N=1)	RTKL1 (N=1)	
Median age (range) — yr	41 (17-66)	49 (23-66)	44 (18-59)	42 (35-49)	28	28 (17-45)
Female sex — no.	13	6	5	1	0	3
Bone marrow failure — no.						
MAA	19	7	4	2	1	5
SAA	4	1	2	0	0	1
MDS	2	1	0	1	0	0
Transfusion dependency — no.						
Red cells	11	4	4	2	0	1
Red cells and platelets	2	1	0	0	0	1
Colony-forming cells — no.						
Clonal	10	3	4	2	0	1
Subclonal	13	6	3	1	1	4
Absent	2	1	0	0	0	1
Clonality — no.						
Clonal	4	3	1	1	1	0
Subclonal	3	1	0	1	0	1
Absent	18	6	6	1	0	5
Early greying of hair — no.	6	2	1	2	1	0
Family history of telomeropathy — no.	23	9	7	1	1	9

^a MAA denotes moderate aplastic anemia, MDS myelodysplastic syndrome, and SAA severe aplastic anemia.

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17

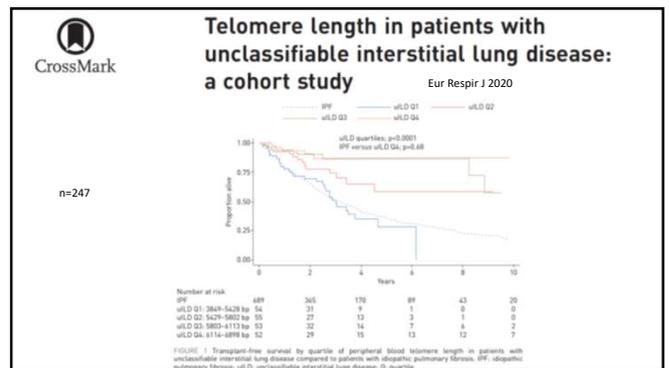


18

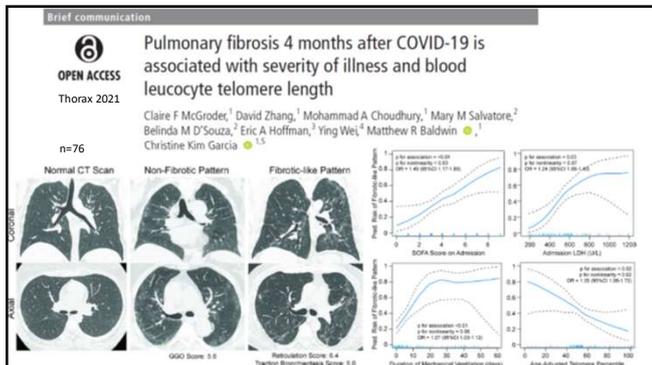
Telomer-Länge und fibrosierende ILDs

- Short Telomer-Syndrome sind assoziiert mit ILD
- Patienten mit IPF haben häufig eine verkürzte Telomer-Länge
- Eine verkürzte PBL-Telomer-Länge ist assoziiert mit:
 - Sterblichkeit bei IPF, cHP, nicht-klassifizierbare ILD, IPAF, Kollagenose-assoziiierter ILD
 - FVC-Verschlechterung bei IPF, IPAF, Kollagenose-assoziiierter ILD
- Im Mausmodell führt eine verkürzte Telomer-Länge von alveolären Epithelzellen Typ 2 (AEC2) zu fibrotischem Lung remodeling
- Telomer-Dysfunktion wird als pathogenetischer Faktor bei fibrosierenden ILDs unterschiedlicher Ätiologie vermutet

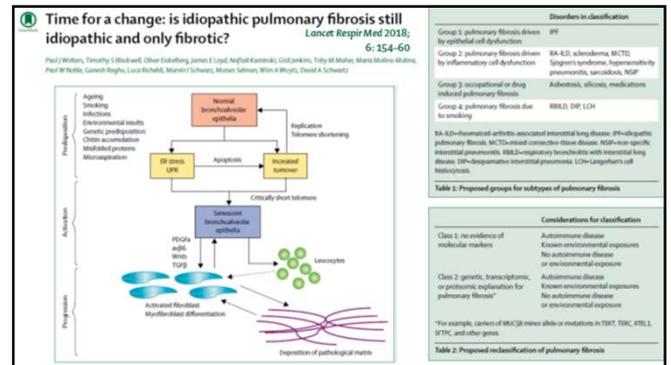
19



20



21



22

Male (SE), 1941

RISIKOFAKTOREN

- Nie-Raucher, ehem. Lokführer, neg. FA

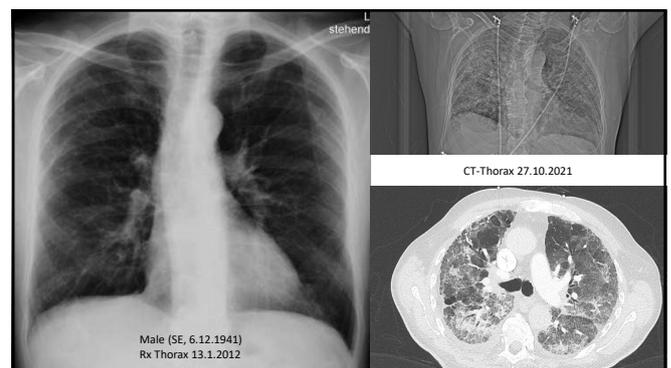
KLINIK

- seit 3 Tagen Fieber nachts und trockener Husten, progrediente Dyspnoe

BEFUNDE

- Respiratorische Partialinsuffizienz, BNP 100 pg/l, CRP 98 mg/l, Procalcitonin 0.48 ug/l, LDH 315 U/l, D-Dimer 1.71 ug/ml, Leukozyten 16 g/l, Neutrophile 92% Lymphozyten 3.8%
- Legionella pneumophila und Pneumokokken Ag: negativ, SARS-CoV-2 NP PCR: 2x negativ, SARS-CoV-2 Spike IgG >2080 BAU/ml, SARS-CoV-2 IgG und IgM negativ

23



24

Male (SE), 1941

BEFUNDE (bis)

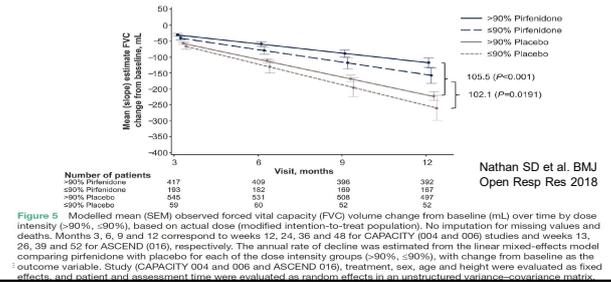
- Bronchoskopie-BAL: Bakt, Pilze, Mykobakterien, säurferste Stäbchen, SARS-CoV-2 PCR, respiratorische Viren-Multiplex-PCR, Pneumocystis jiroveci, Legionella-PCR: negativ
- Reaktiv leicht erhöhte Gammafraktion, ANA 1:80, Myositis-Blot: Mi-2-Alpha und SRP schwach positiv (unspezifisch)
- Rheumatologisches Konsil: kein Anhalt für Systemerkrankung

THERAPIE

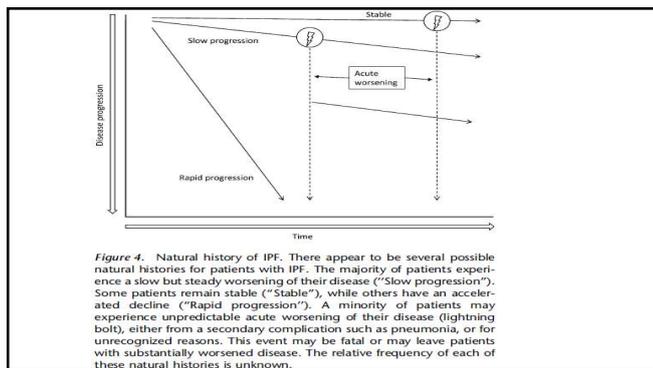
- Amoxicillin/Clavulansäure 24.10.2021 - 31.10.2021, Clarythromycin 27.10.2021 - 31.10.2021
- Sauerstoff-/nasale High-Flow-Therapie 28.10.2021 - 31.10.2021
- Kortisonstoss 75mg 29.10. - 12.22.2021; 25 mg vom 13.11. - 15.11.2021, erneut 75 mg bei resp. Verschlechterung vom 15.11 - 20.11.2021
- ILD-Board 19.11.2021: Konsensusdiagnose AIP bei Erstmanifestation einer IPF

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Lungenfibrose – Verlauf unter Therapie



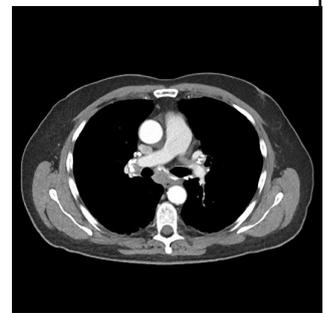
26



27

Male (JW), 1951

- History
 - Chronic cough, dyspnea mMRC1
 - 15 PY, stopped 35 y ago
 - Risikofaktoren
 - Construction manager, grandfather was stonemason (exposure?)
 - Neg. family history
 - Findings 2011
 - CT: calcified bilhar LAP
 - BAL: 39% lymph, CD4/CD8 4
 - Blood: ACE, sIL-2R norm
- Sarcoidosis w/o systemic activity



28

Progression 15.10.2019

- Progressive restriction and dyspnea mMRC2
- Blood: ACE, sIL-2R norm
- Bronchoscopy to find a granuloma...

Zytologische Diagnose MAM/ns
 5337-1:
 Differenzierte bronchioloalveoläre Lavage mit erhöhter Gesamtzellzahl (301,19 M/l) aufgrund deutlicher Vermehrung der Lymphozyten (58,5%).
 Der CD4/CD8-Quotient mit 7,7 erhöht.
 Pathologisch-anatomische Diagnose DBO/cm
 34602-1:
 Rechter Unter- und Mittellappen: Ein Kryobiopsat mit Anschnitten grösserer Bronchus- und Blutgefäße mit wenigen Herden einer organisierenden Pneumonie mit beginnender Konsolidierung und Proliferate glatter Muskulatur. Ein weiteres unauffälliges Kryobiopsat mit alveolärem Lungenparenchym und geringer Anthrakose sowie ein drittes bestehend aus Blutbestandteilen.

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Case Report
Cryptogenic Organizing Pneumonia with Sarcoidosis Overlap: An Atypical Case Study
 Case Reports in Medicine 2018

Ajmal Nazir Neelambra¹, Vishak Acharya², and Sowmya Sundararajan³

¹Department of General Medicine, Kasturba Medical College, Mangalore, India
²Department of Pulmonary Medicine, Kasturba Medical College, Mangalore, India
³Kasturba Medical College, Mangalore, India

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Academic Editor: Ting Fan Leung

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Case Summary: We present a case of a young female with subacute symptoms of cough and progressive dyspnea. On evaluation, the patient was diagnosed as cryptogenic organizing pneumonia based on her histopathological reports. However, her significant elevation of serum angiotensin-converting enzyme (ACE) levels which drop after treatment with oral steroids, relapse, and clinical presentation pointed towards sarcoidosis as clinical diagnosis. Discussion: Here, in this patient, transbronchial biopsy was suggestive of cryptogenic organizing pneumonia along with chest X-ray, and the HRCT finding was also favoring the same. But in this case, we have also seen elevated levels of serum ACE which dropped significantly to the normal level along with a complete clearance of lesions with systemic steroids, and this favors sarcoidosis. Also, the recurrence was in different areas of the lung, and lesions once again responded both clinically and radiologically to steroids with a consistent drop in serum angiotensin-converting enzyme (ACE) levels, which again is a feature common to sarcoidosis. In COPD, often complete clearance of the lesions is seldom seen, even though they also respond to steroids but not as dramatically as in our case. Also, recurrence of the lesion with BOP at different sites is uncommon as it generally progresses in the same site. Conclusion: This case report suggests that sarcoidosis as a possible cause of cryptogenic organizing pneumonia is worth considering with the mixed spectrum of presentation as in our case. And to our knowledge this type of presentation of cryptogenic organizing pneumonia with sarcoidosis as an overlap disease is very rare, and this possibility needs to be explored by more series of such cases.

30

2018 Progressive Fibrosis 2019

Thoracic Radiologist:
 «...definite UIP...»

31

Sarcoidosis and IPF in the same patient—a coincidence, an association or a phenotype?^{*}

Bridget F. Collins¹, Robyn L. McClelland², Lawrence A. Ho², Carmen R. Mikacenic², Jennifer Hayes², Carolyn Spada², Ganesh Raghu^{1,2}

¹Center for Inherited Lung Disease, University of Washington Medical Center, Seattle, WA, USA
²Department of Rheumatology, University of Washington School of Public Health, Seattle, WA, USA

Respiratory Medicine 2018

ABSTRACT

Background: Idiopathic Pulmonary Fibrosis (IPF) and Sarcoidosis are distinct clinical entities. Fibrotic disease in pulmonary sarcoidosis is typically upper lobe predominant. In IPF fibrosis is basilar and peripheral predominant (usual interstitial pneumonia (UIP) pattern). Sarcoidosis and UIP have rarely been observed in the same patient. We sought to characterize patients manifesting both sarcoidosis and IPF and compare clinical features and survival to that of patients with “Lone-IPF” (IPF only) and pulmonary sarcoidosis with fibrosis in a non-UIP pattern.

Methods: Patients were identified from a clinical database and data abstracted from medical records (1995–2016): 1) 25 patients with combined sarcoidosis and IPF (CSIPF) defined by clinical and histological features of sarcoidosis and HRCT features of possible or definite UIP or IPF by histopathology; 2) Randomly selected control patients during the same period: 28 Lone-IPF, 25-stage III/IV pulmonary sarcoidosis.

Results: The gender and race of patients with CSIPF and Lone-IPF patients were similar (68% male and 84% Caucasian), as were survival outcomes. Mean time from IPF diagnosis to death: 3.2 years CSIPF, 3.6 years Lone-IPF (log rank p value 0.49). Among patients with pulmonary sarcoidosis, mean time from diagnosis to death: 21.4 years.

Conclusions: Clinical characteristics/behavior of patients with CSIPF was similar to Lone-IPF patients. It is possible that patients with sarcoidosis coincidentally developed IPF and/or have occult genetic predisposition factors to manifest both diseases at different time points. Further study is needed.

32

ILD-Board 18.10.2019

Konferenzergebnis

Empfehlungsfreitext radiologisch UIP definitie im Rahmen von vorbestehender Sarkoidose
1. Steroidtherapie je nach Ansprechen antifibrotische Therapie

33

Nintedanib in Progressive Fibrosing Interstitial Lung Diseases

K.R. Flaherty, A.J. Wells, V. Cottin, A. Devaraj, S.L.F. Walsh, Y. Inoue, L. Richeldi, M. Kolb, K. Tetzlaff, S. Stowasser, C. Coeck, E. Clerisme-Beaty, B. Rosenstock, M. Quaresma, T. Haeufel, R.-G. Goeldner, R. Schlenker-Herzog, and K.K. Brown, for the INBUILD Trial Investigators*

No. of Patients		Nintedanib		Placebo	
Overall population	332	166	166	332	332
Nintedanib	332	166	166	332	332
Placebo	332	166	166	332	332
Patients with UIP-like fibrotic pattern	296	148	148	296	296
Nintedanib	296	148	148	296	296
Placebo	296	148	148	296	296

Flaherty KR et al. N Engl J Med 2019;381:1718-1727

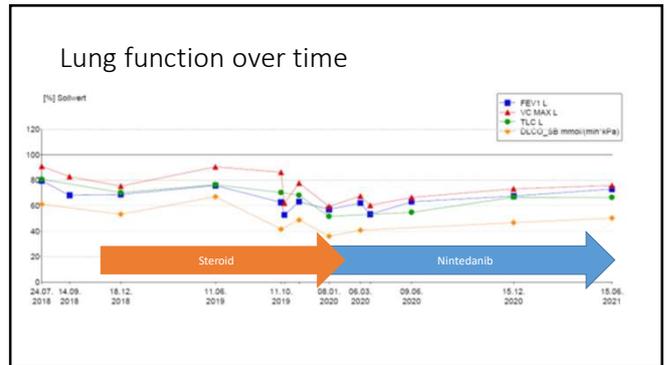
34

Table S2: Clinical ILD diagnoses (grouped) in the overall population

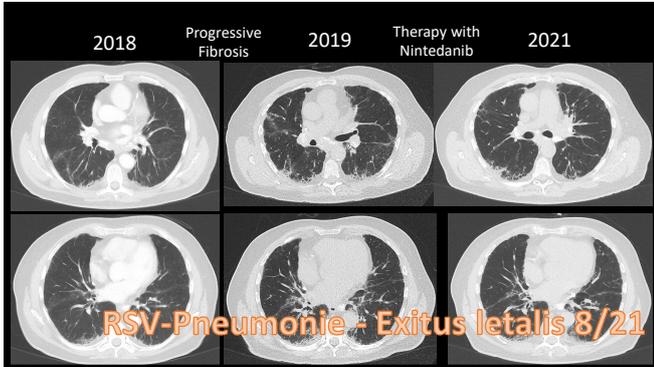
	Nintedanib (n=332)	Placebo (n=331)
Hypersensitivity pneumonitis	84 (25.3)	89 (26.9)
Autoimmune ILDs	82 (24.7)	88 (26.6)
Rheumatoid arthritis-associated ILD	42 (12.7)	47 (14.2)
Systemic sclerosis-associated ILD	23 (6.9)	16 (4.8)
Mixed connective tissue disease-associated ILD	7 (2.1)	12 (3.6)
Other autoimmune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

Data are no (%) of patients.
*Included sarcoidosis, exposure-related ILDs and selected other terms in "Other fibrosing ILDs".

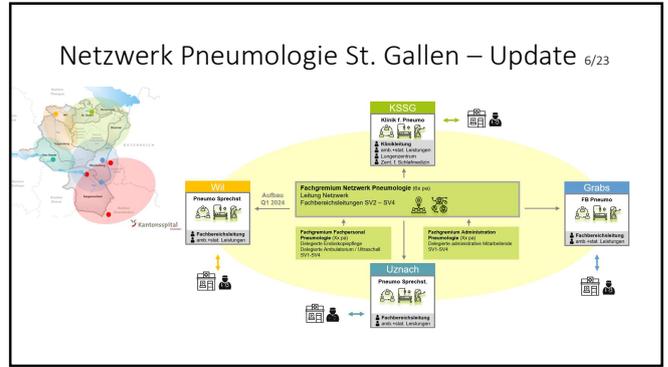
35



36



37



38

	Hi Kantonsspital St. Gallen		7/2018 Kantonsspital St. Gallen		5/2022 SpitalLinth		1/2024 Kantonsspital St. Gallen	
	Angebot	Durchführung	Angebot	Durchführung	Angebot	Durchführung	Angebot*	Durchführung
Pneumologische Sprechstunde	X	täglich	X	täglich	X	1.5 dp. W.	X*	2p. W.
Ambulatorium Lungenfunktion	X	täglich	X	täglich	X	1.5 dp. W.	X*	2p. W.
Bettenstation	X	24/7						
Beatmungswearing Unit	X	24/7						
Endoskopie	X	täglich	X		X	2xp. W.	X*	
Zentrumpneumologie	X	täglich						
Natalkdiagnostik (durch KSSG)	X	24/7/365	KSSG	24/7/365	KSSG	24/7/365	KSSG	24/7/365
Schlafmedizin	X	täglich	X	täglich	X	1.5 dp. W.	X*	2p. W.
Amb. Pulm. Rehabilitation (Lungemiga)	X	extern	X	extern				
Digitale Service (Online Sprechstunde)	X	täglich			X	täglich		
Rauchstoppberatung	X	täglich	X**		X**		X**	
Forschung	X	täglich	X***	täglich	X***	täglich	X***	täglich
Externe Sprechstunden	X***	Rehabilitationszentrum Walensschöben	X	PicoCare				

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- Interstitielle Lungenerkrankungen können komplex verlaufen und bedürfen einer interdisziplinären Zusammenarbeit
 - Fall 1: Endlich Bewegung bei der IPF – wirklich noch «idiopathisch»?
 - Fall 2: Der IPF-Verlauf ist heimtückisch...
 - Fall 3: Die Diagnose jederzeit hinterfragen wenn etwas nicht zusammenpasst!
- Netzwerk Pneumologie St. Gallen – es lebt ☺

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