ILD 多專科討論會

日期: 2020/04/30 09:00-10:00

地點:第一醫療大樓4樓內科部會議室

No.	姓名	病歷號	收案日期	VS	風濕科診斷	影像學診斷
1	叢成玲	501836A	2019/6/17	謝祖怡	SLE with RA	ILD, UIP should
						be considered
2	賴苡岑	1242140I	2020/3/2	洪維廷	Sjogren's syndrome	NSIP pattern
						Progressive
						change
3	邱法準	27549541	2019/10/25	林靖才	Sjogren's syndrome	Definite UIP
4	陳朝森	2562986B	2019/3/18	林靖才	Sjogren's syndrome	CPFE with
						probable UIP

No.	姓名	病歷號	收案日期	VS	風濕科診斷	影像學診斷
4	叢成玲	F0102CA	2010/6/17	謝祖怡	SLE with RA	ILD, UIP should be
1	取及り	501836A	2019/6/17	动性后	SLE WILLI KA	considered

This is a 58 y/o female with 26 years history of SLE overlapping RA, characterized by arthritis(bilateral knees and PIPs), positive ANA, dsDNA, low C3/C4, antiphospholipid syndrome, high RF, anti-CCP. Interstitial lung disease was suspected s/p endoxan pulse therapy in 1995/6. Followed up HRCT showed UIP pattern. Lung condition of HRCT became relatively stable since 2018. Golimumab was shifted to Tofacitinib since 2020.

Current medication:

- Bronchodilator: Relvar ellipta QD(Fluticasone, VilanteroL ellipta)
- Immunosuppressive agent: AZA 50mg TIW, Tofacitinib 11mg QD(2020-), Prednisolone 10mg QD, Golimumab Q2M(2017-2020)
- Anti-fibrotic agent: nil
- Pulmonary hypertension agent: nil
- Others: HCQ 200mg QD, montelukast 10mg HS, erythromycin 750mg QD

■ Laboratory

Immun	ologic profile			Bi	olo	gic r	narke	ers in	ILD			
ANA	1:1280	Ferritin 9.81 (2020/02/26)										
SS-A	> 240	ESR	2	7		(202	20/02/	26)				
SS-B	220	hs-CRP	0	.01	1	(202	20/02/	26)				
RF	85.9	CA-199	1	.49		(20	19/04/	/22)				
Scl-70	Negative	CA-153	1	9.19	9	(20	19/04	/22)				
Myositis Ab	Ku :++/ Ro-52:+++	CA-125	1	45		(20	19/06	/05)				
Jo-1	Negative	NT-ProBNP	7	8.6	7	(20	20/01	1/03))			
		6MWT										
		(2019/11/18)			 MH THE		SaO2	 Distar 	ice MET	O2 Cost	Borg Scale	O2 L/min
			į	Pre	† – – L	80	95			5	3	†
				Post	162 129	129	62	405	3.0	 - 	5	 †+-
			ŀ		 	- + FVC	-	FEV1	_ FEV1%	- FEV1: 	+ — — - /FVC(%	+ + - 6) 1
			į	PRE-	EX'	N/A	N/A	N/A	N/A	N/A		
				POS	Г-ЕХ		N/A		N/A	N/A		
				sp02	-	:143 :62%			木息一分銀	童後 sp0	2:95%	

□ Pulmonary function test

日期 2019/06/17 2019/09/06 2019/11/29 2020/02/24	
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FVC	1.47	(52%)	1.36	(50%)	1.33	(48%)	1.41	(51%)
FEV1	1.19	(52%)	1.11	(49%)	1.09	(48%)	1.16	(50%)
FEV1/FVC	81 %		81%		82%		82%	
FEF 25-75%	1.27	(50%)	1.15	(46%)	1.14	(45%)	1.26	(50%)
TLC	2.33	(52%)	2.25	(52%)	2.67	(60%)	2.29	(51%)
DLCO	7.73	(51%)	6.58	(44%)	7.52	(50%)	6.04	(40%)

□ HRCT [2020/02/26]

Finding:

Non-contrast CT scan of the chest showed:

Patient did not receive contrast medium administration. Tissue perfusion and vascular patency could not be evaluated and subtle lesion might be under estimated.

- > Reticulation over periphery of right lower lobe and lower lobe with honeycombing pattern, interstitial lung disease, UIP should be considered. Suggest clinical correlation. No obvious change as compared with previous CT on 20190328
- > Some small LNs in middle mediastinum. > No enlargement of bil. adrenal glands.
- > No obvious air-trapping noted in the expiratory phase.
- > DJD change of T-L spine with spur formation.

Impression:

- 1. Stable lung condition as compared with previous CT on 20190328.
- 2. For other details and DDx, please seen above description.
- \Box Cardiac ultrasound [2019/07/12]

CONC. LVH (1.1, 1.1 CM)

AORTIC ROOT DILATATION (3.8 CM) WITH MILD AR

PROLAPSE OF ANTERIOR MITRAL LEAFLET WITH MILD MR

MILD TR WITH PEAK SYSTOLIC PRESSURE GRADIENT -- 20 MMHG

DILATED PA TRUNK (-- 2.8 CM) WITH MILD PR REVERSE MV E/A RATIO

THE LV EJECTION FRACTION IS 53 % NORMAL LV SYSTOLIC WALL MOTION.

- □ 討論事項及結論:■
- 1. 是否為 ILD? □是 □否
- 2. 是否為 Indeterminate?□是 □否
- 3. 是否為 UIP?□是 □否
- 4. 是否還有 NSIP pattern?□是 □否
- 5. 是否還有免風疾病活動性(activity) 病變?□是 □ 否
- 6. 是否 ILD 持續進展?□是 □否
- 7. 是否調整免疫治療藥物?□是 □否
- 8. 是否建議使用抗肺纖維化藥物?□是 □否

No.	姓名	病歷號	收案日期	VS	風濕科診斷	影像學診斷
2	賴苡岑	12421401	2020/3/2	洪維廷	Sjogren's syndrome	NSIP pattern
	相以今	12421401	2020/3/2	洪維廷	Sjogren's syndrome	Progressive change

This is a 28 y/o female with 3 years history of Sjogren's syndrome, characterized by dry eye, dry mouth, positive Schirmer's test, sialoscintigraphy, SSA(52KD). Skin hyperpigmentation suspected HCQ related was noted later. She came to IMRH OPD for second opinion since 2018. Proximal muslce weakness and elevated CK were noted during followed up, dermatomyositis was suspected. Myositis survey was arranged but negative finding(EMG/NCV or muscle scan), while interstitial lung disease was noted. She accepted MTP pulse 400mg*6(2019/01,2019/07), rituximab 500mg*3(2019/07-08, 2020/02), MTP pulse 500mg*3(2020/02) for relapsing elevated CK and NSIP. HRCT showed progressive NSIP in 2020/02. MTP pulse was suggested but patient refused for fear of COVID-19. Oral Endoxan was prescribed since 2020/03.

Current medication:

- Bronchodilator: NEXThaler Foster(FormoteroL6+Beclomethasone100mcg) BID
- Immunosuppressive agent: CYC 50mg Q2D, Metholone tab 16mg(PD 0.76mg/kg/D)
- Anti-fibrotic agent: nil
- Pulmonary hypertension agent: nil
- Others: HCQ 200mg QD, montelukast 10mg HS

□ Laboratory

Immunologic	profile (2020/03/02)	Biologic markers in ILD					
ANA	Negative	Ferritin	1579.42 (2020/02/03)				
SS-A	> 240	ESR	21 (2020/03/02)				
SS-B	Negative	hs-CRP	5.241(2020/02/03)> 0.145(2020/03/02)				
RF	RF Negative		26.70				
Scl-70	Negative	CA-153	34.04				
Myositis Ab	Ro-52:+++	CA-125	32.90				
Jo-1	Negative	NT-ProBNP	116.00				
		6MWT	已預約排程				

■ Pulmonary function test

日期	2020/02/03	2020/03/02
FVC	0.91 (35%)	1.25 (49%)
FEV1	0.86 (37%)	1.14 (49%)
FEV1/FVC	95 %	91%
FEF 25-75%	1.27 (43%)	1.50 (51%)

TLC	2.00 (59%)	NA
DLCO	NA	6.08 (42%)

□ HRCT [2020/02/12]

Finding:

HRCT with patient in supine position, without contrast enhancement and with both inspiration phase and expiration phase, in axial and coronal reformation, shows:

- > Patches of mixed reticular and ground glass opacities over basal portion of RLL and LLL, increased the involvement lung parenchyma and extending to subpleural region, the picture could be compatible with NSIP pattern and suggest active inflammatory process.
- > Mild traction bronchiectasis over basal portion of RLL and LLL.
- > Diffuse centrilobular small ground glass nodular opacities of both lungs with some cluster over subpleural region, as a pattern of follicular bronchiolitis. In favor of inflammatory foci of both lungs.
- > No air trapping.
- > The diameter of main pulmonary artery is larger than a rta at the same level(Ser3,Img15), C/W pulmonary hypertension.
- > Prominent spleen.
- > No enlarged mediastinal node.
- > Otherwise, no other significant finding.

Impression:

- > C/W NSIP pattern. Progressive change is noted as compared with 2018/08/27.
- > C/W pulmonary hypertension.

\Box Cardiac ultrasound [2019/01/07]

PROLAPSE OF ANTERIOR MITRAL LEAFLETS WITH MILD MR

MILD TR WITH PEAK/MEAN SYSTOLIC PG -- 42/29 MMHG

SUGGEST PULMONARY HYPERTENSION

MILD AR, MINIMAL PR

NORMAL LV SYSTOLIC WALL MOTION.

THE LV EJECTION FRACTION IS 58 % MV E/A RATIO > 1

- □ 討論事項及結論:■
- 1. 是否為 ILD? □是 □否
- 2. 是否為 Indeterminate?□是 □否
- 3. 是否為 UIP?□是 □否
- 4. 是否還有 NSIP pattern ? □是 □否
- 5. 是否還有免風疾病活動性(activity) 病變?□是 □ 否
- 6. 是否 ILD 持續進展?□是 □否
- 7. 是否調整免疫治療藥物?□是 □否

8.	是否建議使用抗肺纖維化藥物?口是 口否

No.	姓名	病歷號	收案日期	VS	風濕科診斷	影像學診斷
3	邱法準	27549541	2019/10/25	林靖才	Sjogren's syndrome 無免風科重大傷病	Definite UIP
					有肺癌,甲狀腺癌,膀胱癌重大傷病	

This is a 57 y/o male with bladder cancer(s/p operation, high grade, cT1), thyroid cancer(pT4bN1bM1, stage IVB), lung cancer(s/p operation, cT1c) and 3 years history of Interstitial lung disease, characterized by PIPs, DIPs arthritis, dyspnea, positive ANA(fine speckled), RF(113.5 IU/mL), SSA(52KD). He came to CMUH first, HCQ BID and Myfortic 180mg BID were given. He came to IMRH OPD for second opinion in 2019/09. HRCT showed Definite UIP. For poor lung function, self funded Ofev(nintedanib) was prescribed since then. No data for anti-CCP, Schirmer's test or sialoscintigraphy.

Smoking history: ex-smoker, 1PPD for 15 years, quit since 1996.

Current medication:

■ Bronchodilator: Spiolto(Tiotropium/OlodateroL 2.5/2.5mcg) QD

Immunosuppressive agent: nil

Anti-fibrotic agent: Ofev(nintedanib) 150mg BID

Pulmonary hypertension agent: nil

Others: HCQ 200mg BID

■ Laboratory

Immun			Bi	olo	gic n	narke	rs in	ILD				
ANA	Ferritin	18	82.3	1	(2020/	03/16	5)				
SS-A	61	ESR	1	1		(2	2020/0	3/16)			
SS-B	Negative	hs-CRP	0.	.263		(2	2020/0)3/16)			
RF	113.5	CA-199	5.	.44		(:	2020/	03/02)			
Scl-70	Negative	CA-153	23	3.32		(2020/	03/02	2)			
Myositis Ab	Ro-52:+++	CA-125	37	7.41		(2020/	03/02	?)			
Jo-1	Negative	NT-ProBNP	10	6.91								
		6MWT (2019/11/25)		POST HR 1 sp02	EX'	FVC N/A 121 121 121 121 121 121 121 1	98 92 FVC%	525 FEV1 N/A N/A	+	5 Cost	0 2	O2 L/min

□ Pulmonary function test

日期	2019/10/25	2020/02/17
FVC	2.67 (61%)	2.62 (60%)
FEV1	2.02 (57%)	2.18 (62%)
FEV1/FVC	76%	83%
FEF 25-75%	1.60 (44%)	2.34 (65%)
TLC	4.34 (66%)	4.18 (65%)
DLCO	15.60 (67%)	21.95 (94%)

□ HRCT [2020/02/23]

Finding:

Without contrast enhanced HRCT of lung with both inspiratory phase and expiratory phase:

- Reticular opacities and honeycombing with subpleural predominance and apicobasal gradient, traction bronchiectasis and bronchiolectasis with basilar lung predominance are noted. The image pattern might be definite usual interstitial pneumonia (UIP).
- Multiple paraseptal emphysema and bullae in RLL are noted.
 Compared with previous CT on 2019/09/24, the lesions show progressing change.
- 3. Pleural thickening in the bilateral lower chest, especially R't side, is noted.
- 4. Dilatation of the esophagus and pulmonary artery are also noted.
- 5. According to the above finding, the possibility of progressive systemic sclerosis (PSS) interstitial lung disease (ILD) could not be excluded.
- 6. Some small lymph nodes in the pretracheal and subcarinal of mediastinum are noted.

Impression:

- 1. Definite UIP
- 2. Possibility of PSS-ILD could not be excluded, F/U
- □ Cardiac ultrasound [2019/10/30]

CONC. LVH (1.1, 1.1 CM)

AORTIC ROOT DILATATION (3.8 CM) WITH MINIMAL AR

DILATED PA TRUNK (-- 2.6 CM) WITH MILD PR
PROLAPSE OF ANTERIOR MITRAL LEAFLETS WITH MINIMAL MR
MILD TR WITH PEAK/MEAN SYSTOLIC PG -- 22/15 MMHG
REVERSE MV E/A RATIO THE LV EJECTION FRACTION IS 56 %
NORMAL LV SYSTOLIC WALL MOTION. MV E/E' SEPTAL — 11.61
MV E/E' LATERAL — 9.23

- □ 討論事項及結論:■
- 1. 是否為 ILD? □是 □否
- 2. 是否為 Indeterminate?□是 □否
- 3. 是否為 UIP? □是 □否
- 4. 是否還有 NSIP pattern ? □是 □否
- 5. 是否還有免風疾病活動性(activity) 病變?□是 □ 否
- 6. 是否 ILD 持續進展?□是 □否
- 7. 是否調整免疫治療藥物?□是 □否
- 8. 是否建議使用抗肺纖維化藥物?□是 □否

No.	姓名	病歷號	收案日期	VS	風濕科診斷	影像學診斷
4	4 陳朝森	2562986B	2019/3/18	林靖才	Ciagran's syndrama	CPFE with probable
4					Sjogren's syndrome	UIP

This is a 55 y/o male with 4 years history of COPD and Sjogren syndrome, characterized by institial lung disease with respiratory failure, s/p ETT+MV, positive SSA(60KD, 52KD), Schirmer test, Saxon test. Followed up 2D echo showed pulmonary hypertension(51/42mmHg) in 2019. Revatio was applied. Followed up HRCT showed combined pulmonary fibrosis and emphysema(CPFE) with probable UIP and disease progression.

Smoking history: ex-smoker, 3-4PPD for 20+ years, quit since 2007.

Current medication:

■ Bronchodilator: Spiolto(Tiotropium/OlodateroL 2.5/2.5mcg) QD

■ Immunosuppressive agent: Metisone 4mg QD

Anti-fibrotic agent: nil

Pulmonary hypertensionagent: Revatio(Sildenafil) 20mg TID

Others: HCQ 200mg QD

■ Laboratory

Immunologic profile (2020/03/13)		Biologic markers in ILD										
ANA	1:1280	Ferritin	139.27									
SS-A	> 240	ESR	15									
SS-B	> 320	hs-CRP	2 1.136									
RF	Negative	CA-199	41.58									
Scl-70	Negative	CA-153	74.99									
Myositis Ab	Ro-52:+++	CA-125	NA									
Jo-1	Negative	NT-ProBNP	134.20									
		6MWT	1 ,									
		2019/06/10		 	MHF THR	I HR	SaO2	Distan	ce MET	S Cost	Borg Scale	O2 L/min
			Pre 103 91 5 0		0	† — — - 						
				Post	166/ 132	133	81	391 2.9 4				
						 	_	 	-			
				Ĺ 	<u>i</u>	FVC	FVC%	FEV1	FEV1%	FEV1	/FVC(%	i) L
			PRE-EX' 2		2.88	82	2.05 71		71		i L	
				POS	г-ех	2.73	77	2.09	73	77		
			HR peak:145 sp02 peak:79%									
			Dynamic hyperinflation after exercise.									

□ Pulmonary function test

日期 2019/06/10 2019/09/02 2019/11/25 2020/02	/17
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FVC	2.84 (80%)	2.98 (89%)	3.05 (91%)	2.90 (87%)
FEV1	1.95 (68%)	2.27 (83%)	2.05 (75%)	2.08 (76%)
FEV1/FVC	69 %	76%	67%	72%
FEF 25-75%	1.13 (37%)	1.78 (60%)	1.14 (39%)	1.37 (47%)
TLC	3.99 (72%)	4.63 (86%)	4.35 (82%)	4.56 (85%)
DLCO	5.92 (30%)	5.46 (28%)	5.53 (28%)	5.90 (30%)

□ HRCT [2020/02/17]

Finding:

HRCT with patient in supine position, without contrast enhancement and with both inspiration phase and expiration phase, in axial and coronal reformation, shows:

- 1. CPFE with probable UIP.
- 2. More extensive fibrosis is noted esp. in basal portion of both lower lobe. Progressive change is considered.
- 3. Main PA measuring 3.47 cm. Suggest cardiac echo.
- 4. No enlarged mediastinal node.
- 5. Spot calcification of LAD.
- 6. Otherwise, no other significant finding.

Impression:

CPFE with probable UIP.

Progression of disease as compared with 2019/02/20.

\Box Cardiac ultrasound [2020/03/16]

LA(4.5), RV(3.2) CHAMBER DILATATION

CONC. LVH (1.1, 1.2 CM)

AORTIC VALVE THICKENED WITH MILD AR

PROLAPSE OF ANTREIOR MITRAL LEAFLETS WITH MILD MR

MILD TR WITH PEAK/MEAN SYSTOLIC PG -- 43/27 MMHG

DILATED PA TRUNK (-- 2.7 CM) WITH MINIMAL PR

NORMAL LV SYSTOLIC WALL MOTION.

THE LV EJECTION FRACTION IS 64 %

REVERSE MV E/A RATIO MV E/E' SEPTAL— 4.2 MV E/E' LATERAL — 3.9

□ 討論事項及結論:

- 1. 是否為 ILD?□是 □否
- 2. 是否為 Indeterminate? 口是 口否
- 3. 是否為 UIP?□是 □否
- 4. 是否還有 NSIP pattern?□是 □否

- 5. 是否還有免風疾病活動性(activity) 病變?□是 □ 否
- 6. 是否 ILD 持續進展?□是 □否
- 7. 是否調整免疫治療藥物?□是 □否
- 8. 是否建議使用抗肺纖維化藥物?□是 □否