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Characteristics and management of patients with idiopathic pulmonary fibrosis treated with pirfenidone capsule or tablet formulation

V. Cottin/, S. Guéguen², S. Jouneau³, H. Nunes⁴, B. Crestani³, P. Bonniaud⁴, L. Wemeau³, D. Israel-Biet⁴, M. Chevereau², I. Dufaure-Garé², S. Amselem², A. Clément⁸

*HCL UCBL - Lyon, "Radico - Paris, "CHU de Rennes - Rennes, "CHU d'Avicanne - Avicanne, "CHU de Paris-Bichat - Paris, "CHU de Dijon - Dijon, "ChRU de Lille - Lille, "CHU de Paris - HCGP - Paris, "CHU de Paris - Trousseau - Paris - Fris

INTRODUCTION

- pulmonary fibrosis (IPF) disease is a chronic ory progressive lung disorder characterized by scare hin the lung and involving activated macrophages and bithelial cells. [1][1]
- oral epithelial cells. [414]
 ridone (Esbriet*) is indicated in the treatment of the IPF and is available in tablets instead of capsules.
 study aims to describe management of patients treated with ridone and the course of change of treatment between the 2 land formulations.

METHODS



- The RaDGO-PIO cohort is a longitudinal, national, non-randomizad, retrospective and prospective multicorter study assessing any patients diagnosed with IPF based on current guidelines. IP Remutaling contres and patients were sought by relying on the support of the Raza Disease Network for rare pulmonary diseases (RespiritL Filler Maldies Rams dis Maldels Reputations Rams) and the involvement of French prieter associations.
- Main inclusion criteria: The target study population included IPF patients recruited in the RaDiCo-PID cohort treated at lea once with pirfenidone between 1 July 2017 and 30 June 2019.
- Exclusion criterias: Participation in a trial involving an anti-fibrotic drug or an investigational drug in the IPF indication; patients aged < 18 years.

Objectives

Primary objective: to describe patients treatment with pirfenidone and the change of treatment between the two dosage formulations (capsule or tablet).

Secondary objectives: to assess treatment persistency and describe IPF patients (socio-demographic and medical characteristics and quality of life).

RESULTS

A total of 826 patients were recruited between 1 July 2017 and 30 June 2019.
 Three populations were defined (Pop1, Pop2 and Pop3) (Figure 2).



- A total of 288 patients were treated with pirfenidone (83% started with pirfenidone capsule). Among them 162 patients (56.3%) newly initiated pirfenidone (69.8% starting with pirfenidone capsule).
- priferiolone (69.8% starting with prireridone capsule).

 There were no manningful differences between the baseline characteristics (gender, age at inclusion/at diagnosis) by formulation of the 256 pts treated with priferiodne during the potential switch.

 Table 1: Demography at inclusion Included population, pop1 (N=288)

| Tablet | Capsule | Switch | Total | (M=48) | (M=138) | (M=128) | (M=288) | (M=138) | (M=128) | (M=288) | (M=128) | (M=288) | (M=2888) | (M=2888)

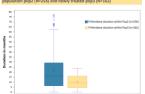
Mean FEV FVC fraction (SD)	0.7 (0.3)	0.7 (0.3)	0.7 (0.3)	0.7 (0.3)
Tebacco status, n (%)				
No	8 (16.7%)	36 (30.8%)	28 (23.0%)	72 (25.1%)
Active		5 (4.3%)	5 (4.1%)	10 (3.5%)
Passive		5 (4.3%)	2 (1.64%)	7 (2.4%)
Deprived	40 (83.3%)	71 (60.7%)	87 (71.31%)	298 (69.0%)
Mean duration between diagnosis and treatment, month (SD)	12.2 (33.1)	10.1 (17.8)	25.8 (23.2)	17.1 (24.3)
Concomitant treatments, n (%)				
Orygen	16 (34.8%)	40 (48.2%)	44 (38.3%)	300 (41.0%)
Steroids	15 (31.9%)	44 (53.7%)	40 (35.1%)	99 (40.7%)
Comorbidities and Risk factors, n (%)				
Cardiovascular disease	33 (70.2%)	86 (75.4%)	100 (83.3%)	219 (77.9%)
Gastrointestinal disease	16 (33.3%)	53 (46.9%)	59 (50.4%)	128 (46.0%)
Endocrine disease	16 (14.8%)	33 (29.7%)	35 (30.2%)	84 (30.8%)
Symptoms, n (%)				
Dyspnea	40 (90.9%)	95 (88.0%)	106 (93.8%)	241 (90.9%)
Cough	33 (76.7%)	80 (74.8%)	75 (66.4%)	188 (71.5%)
fatigue	5 (10.6%)	12 (10.7%)	18 (15.1%)	35 (12.6%)

- Formulation switch

 Within the switch population (patients treated with primitione, at least until April 2018), the switch rate from capuale to tablets was 45% witch a 95%/cit. [83.83, 51.02]. Within the newly treated population (first prientione prescription after 1 July 2017), the switch rate from capuale to tablet formulation was 50% of the product of the formulation was forward to the formulation was forward to the formulation was forward to the product of the product of the propulation respectively (Figure 3).



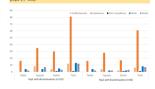
- population and newly reactive population. Oceral, mean treatment duration was 21.5 months (±18.7) and median (Q1;Q3) was 16.2 (63,2 9.3) with a mean dose of 210.6.7 (±460.7) mg/day. In newly treated patients at inclusion (Pop3), the mean treatment duration was 10.3 ±7.01 months.



- Overall, 119/256 patients (46.5%) discontinued treatment, 81/119 (63.1%) for intilerance and 21/119 (10.1%) for ineffectiveness.

 There were globally less discontinuations in the tablets and switch groups compared to the capsules only group.

	Tablet	Capsule	Switch	Total
Switch population: pop2	48	89	119	256
Treatment discontinuation	22 (45.8%)	54 (60.7%)	43 (35.1%)	119 (46.5%)
95NCI	[35.88; 54.79]	[51.90;69.45]	[27.50; 44.77]	[37.52; 55.45]
Newly treated population: pop3	48	53	61	162
Treatment discontinuation	22 (45.8%)	36 (67.9%)	25 (41.0%)	83 (51.2%)
any cu	[22.22, 66.24]	(66.71-70.64)	DR 64, 63 330	THE 65, 63 763



Treatment duration

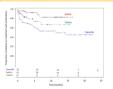
Time to priferidone discontinuation

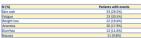
Time to priferidone discontinuation

As shown in Figure 6, there were globally less discontinuation in the population and newly treated population.

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Figure 6: Kaplan-Meier analysis of time to pirfenidone discontinuation (N=162)





CONCLUSION

- This study shows real-life data in patients with IPF treated with or switching between the two dosage forms of pirferidone (capsule or
- Among newly diagnosed patients 30% started pirfenidone treatmen with the tablet formulation.

- The rate of reverse switch from tablet to capsule was very low.
 These observations suggest a good acceptability of the tablet for by patients and physicians.

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