

Abstract S9 Table 1

Case	Diagnosis	Immunosuppression Regimen	Onset of symptoms to ECMO initiation	CT DADCT (%)	Total Abnormality (%)	SOFA Score	CRP
1	Eosinophilic pneumonia; Hypereosinophilic syndrome	IVMP	30 21	100	82.5	7	344
3	Eosinophilic pneumonia	IVMP	26 12	0	80.0	9	285
10	Organising pneumonia	IVMP + CYC	52 30	10	66.8	12	226
11	Acute interstitial pneumonitis	IVMP + RTX	44 17	100	88.8	11	497
12	Anti-Jo 1 associated acute interstitial pneumonitis DD: AIP, eosinophilic pneumonia,	IVMP + CYC + RTX	42 25	10	82.1	11	350
13	Organising pneumonia	IVMP	35 19	90	91.7	13	266
Mean			38.220.7	51.7	82.0	10.5	328
NON-RESPONDERS							
2	Acute interstitial pneumonitis	IVMP + CYC	54 129	88.4	68.4	6	70
4	Idiopathic pleuropulmonary fibroelastosis	None	45 140	81.3	81.2	7	117
5	Acute Interstitial pneumonitis; Organising pneumonia	IVMP + CYC + RTX plus heart lung transplant	46 26	50	85.9	9	153
6	Unclassifiable	IVMP + CYC + RTX	20 46	100	96.7	7	66
7	Bleomycin-induced fibrosis Clinically amyopathic Dermatomyositis with acute interstitial pneumonitis	IVMP	46 29	82.5	85.8	9	111
8		IVMP + RTX	29 172	100	95.6	4	71
Mean			40 90.3	83.7	85.6	7.0	98
P-values			0.790.04	0.19	0.53	0.01	0.046

Key: IVMP: Intravenous Methylprednisolone, RTX: Rituximab, CYC: Cyclophosphamide

score ($p = 0.01$) and a lower preponderance of diffuse alveolar damage (DAD) on CT ($p = 0.19$) although there was no difference in overall extent of CT abnormality. (Table 1).

Conclusions The use of ECMO and early immunosuppression led to a 58.3% survival in a group of ILD associated SRF who would otherwise have been highly likely to die. The responders were characterised by a more acute and more inflammatory presentation. We suggest that ECMO and immunosuppression should be considered in patients with ILD and SRF who are failing mechanical ventilation.

S10 COST BURDEN OF N-ACETYLCYSTEINE (NAC) IN ADULT PATIENTS WITH IDIOPATHIC PULMONARY FIBROSIS

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Introduction and objectives New data from the US IPFNET PANTHER Study¹ has failed to demonstrate efficacy of NAC in adult IPF patients with mild to moderate disease. However, use of NAC in adults with Idiopathic Pulmonary Fibrosis (IPF) is commonplace in the UK² despite weak clinical evidence and limited support from clinical guidelines. NICE recently estimated that between 30 and 45% of patients with moderate IPF are treated with NAC monotherapy at an annual cost of £158 per patient³. We wanted to estimate the cost burden of NAC prescribing in England based on the actual acquisition cost to the NHS.

Methods We obtained the actual prices of NAC at a dose of 600 mg TDS from 11 different sources in England including IPF specialist centres, UK Medicines Information and guidance from Area Prescribing Teams and applied the average price into the NICE IPF costing template assuming 45% of moderate IPF (just over 3000 patients) patients receive NAC and 90% are still taking treatment at 52 weeks.

Results The average annual cost of NAC from 11 different sources was £675.63 (425% greater than NICE cost assumptions) with costs ranging from £144–£1078 per annum. This equates to an estimated annual cost of NAC in England of £2,070,266.

Conclusion NAC is unlicensed with a recent trial demonstrating limited benefit in treating IPF. The estimated annual cost burden of NAC to the NHS in England is very high. In light of the current financial position of the NHS more should be done to reduce the use of ineffective treatments that offer poor value for money. Physicians should re-evaluate the use of NAC in the management of IPF.

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(<http://www.nice.org.uk/guidance/ta282/resources/ta282-idiopathic-pulmonary-fibrosis-pirfenidone-costing-template>)

S11 PIRFENIDONE POST-AUTHORISATION SAFETY REGISTRY (PASSPORT)–INTERIM ANALYSIS OF IPF TREATMENT

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Introduction Pirfenidone (Esbriet®) is approved for mild/moderate idiopathic pulmonary fibrosis (IPF). PASSPORT is a post-authorisation safety registry required by the European Medicine Agency.

Objective To present interim data from PASSPORT.

Abstract S11 Table 1

	Patients w/ADR (≥10%)	Patients w/SADR	All ADR Events	All SADR Events
	n (%)	n (%)	N	N
Any ADR	311 (58.7)	31 (5.8)	820	45
GI	161 (30.4)	8 (1.5)	219	10
Photosensitivity/ Rash	101 (19.1)	5 (0.9)	120	5
Fatigue	98 (18.5)	1 (0.2)	102	1
Weight Loss	56 (10.6)	4 (0.8)	60	4

Method Up to 140 EU sites will enrol 1000 patients. Safety data are recorded at routine clinic visits for 2 years. Adverse drug reactions (ADR: a noxious, unintended drug response at therapeutic doses) and serious ADRs (SADR: ADRs that are life-threatening; cause death, disability, congenital anomaly; require hospitalisation or an intervention to prevent permanent impairment) are collected.

Results Data from 530 patients enrolled by 68 sites in 7 countries are included. Age was 69 ± 8.8 years (mean \pm SD); IPF diagnosis duration was 1.8 ± 3.51 years; 81% were men. Median time in study was 5.5 months; total exposure was 284 person-years.

Of 311 patients with ADRs, 85 discontinued due to ADR and 41 discontinued for other reasons. Approximately 1/3 of patients with ADRs had their dose adjusted.

For patients who experienced an ADR:

- 55% of patients without a dose adjustment were able to continue treatment, while 69% of those with a dose adjustment were able to continue treatment.
- 20% discontinued due to the ADR after having a dose adjustment, but 31% discontinued due to the ADR without a dose adjustment.

When ADRs were managed by dose adjustment, dose adjustment was associated with continuing treatment.

Conclusion PASSPORT ADRs are comparable to those in clinical trials of pirfenidone in IPF. No new safety issues emerged. Dose adjustment may influence long-term tolerability of pirfenidone.

S12 EFFECT OF BASELINE FVC ON DECLINE IN LUNG FUNCTION WITH NINTEDANIB: RESULTS FROM THE INPULSIS™ TRIALS

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Background Nintedanib, an intracellular inhibitor of tyrosine kinases, is in development for the treatment of idiopathic pulmonary fibrosis (IPF). The INPULSIS™ trials were two replicate randomised, double-blind, placebo-controlled, 52-week Phase III trials that assessed the efficacy and safety of nintedanib 150 mg twice daily in patients with IPF. The primary endpoint was the annual rate of decline in forced vital capacity (FVC), which was

significantly reduced in the nintedanib group compared with placebo in both trials.

Aim To assess the impact of baseline FVC on the effect of nintedanib on rate of decline in FVC.

Methods A pre-specified subgroup analysis of patients with baseline FVC >70% versus ≤70% of predicted value was undertaken using pooled data from both trials.

Results 700 patients (nintedanib 431, placebo 269) had baseline FVC >70% predicted and 361 patients (nintedanib 207, placebo 154) had baseline FVC ≤70% predicted. For patients with a baseline FVC >70% predicted, mean age was 67.4 years, 76.9% were male, 55.7% were White and mean carbon monoxide diffusion capacity (DL_{CO}) was 4.0 mmol/min/kPa. For patients with a baseline FVC ≤70% predicted, mean age was 65.5 years, 83.9% were male, 60.4% were White and mean DL_{CO} was 3.6 mmol/min/kPa. There was no significant treatment by subgroup interaction: the difference in adjusted annual rate of decline in FVC between the nintedanib and placebo groups was comparable in both subgroups.

Conclusion A subgroup analysis of pooled data from the INPULSIS™ trials showed that nintedanib 150 mg twice daily slowed the decline in lung function in patients with IPF, independent of severity of lung function impairment at baseline.

Clinical management of lung infection

S13 INCIDENCE AND RISK FACTORS FOR THE DEVELOPMENT OF HOSPITAL ACQUIRED PNEUMONIA IN OLDER HOSPITALISED PATIENTS

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Introduction and objectives Older people are at risk of hospital-acquired pneumonia (HAP). Few data exist on the incidence or risk factors for HAP in non-intensive care patients. Our aim was to determine the incidence and key risk factors for HAP in a sample of older people.

Methods A prospective survey of people >65 years admitted to Acute Medical, Medicine for the Elderly and Orthopaedic wards in NHS Tayside (Dundee, UK) over a 12 month period. HAP was defined in accordance with the European and Scottish National Prevalence Survey of Healthcare Associated Infection and Antimicrobial Prescribing, June 2011. Key analyses included: incidence of case-defined HAP, risk factors for development using Cox regression analysis and the percentage of clinically diagnosed HAP that met the diagnostic criteria for case-defined HAP.

Results A total of 1302 patients were included in the survey, 539 (41%) male, and mean age 82 years (SD 8). Median length of hospital stay was 14 days (IQR 20). 157 episodes of HAP were suspected clinically in 143 patients (incidence 10.9%), but only 83 episodes (53% of total) in 76 patients met the diagnostic criteria (incidence 5.8%). Case fatality rate was 29% in patients with confirmed HAP, and 19% in patients with suspected but not confirmed HAP. Risk of HAP increased by 0.3% per day spent in hospital. Swallowing problems were the single most important risk factor; HR 3.7 (95% CI 2.2 to 6.1, p < 0.001).

Conclusion HAP is common but overdiagnosed in older hospitalised patients. Older patients with swallowing problems have a greater risk of developing HAP. Given the high mortality rate,