(n = 58). An additional 18 items were discussed and modified prior to inclusion in the Delphi.

Several themes were identified following the reflective exercise encapsulating the group experience. Motivation to work in the RSG whether professionally or personally driven felt complementary, resulting in a sense of connexion; personal/professional belonging and learning together (Table 1).

Discussion We advocate the RSG model as feasible, sustainable and enriching component of the research experience, specifically in PRO development to enhance content validity. Participating in group reflection has enhanced our understanding of the RSG dynamic.

P5

QUALITY OF LIFE AND FUNCTIONAL OUTCOMES IN POST-TRANSPLANT IPF PATIENTS AGED OVER 70

P Riddell, S Winward, K Redmond, JJ Egan. *Mater Misericordiae University Hospital, Dublin, Ireland*

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Introduction In recent years there has been a large increase in rates of lung transplantation for IPF patients. This has driven by the introduction of the Lung Allocation Score in the US, which prioritises patients based on treatment need and benefit. Increasing rates of transplantation have led to older patients being considered for transplant listing. The aim of this study was to assess the survival, functional capacity and quality of life of IPF patients aged over 70 attending our transplant programme.

Methods Post-transplant IPF patients aged 70 years or older were identified from the National Lung Transplant Registry. Health-related Quality of Life (HRQL) was assessed using the 36-item Medical Outcomes Survey Short Form (SF-36). Functional status was assessed by exercise tolerance, pulmonary function and level of respiratory support. HRQL was compared to published datasets from randomised clinical trials of drug therapy as well as prospective studies in lung transplant recipients.

Results 6 patients met the inclusion criteria, mean age 72.5 ± 0.8 yrs. The mean time from transplant was 3.8 \pm 1.5 yrs (range 2.3 - 7.0 yrs). Compared to the BUILD-1 trial (similar age, limited IPF), minimal important clinical differences (MID)¹ were seen across many components of the SF-36 score. These MIDs included physical functioning (+7.1), health perception (+29.2) and vitality (+17). Compared to a post-transplant cohort of younger IPF patients $(61.0 \pm 1.5 \text{ yrs})^2$ the mental component score (MCS) was higher in this study (+12.2). These benefits in MCS were maintained when compared to patients in the IFIGE-NIA study of N-acetylcysteine and the STEP-IPF study of sildenafil. The mean reported exercise tolerance of our patient group was 1.2 km, and no patient required supplementary oxygen or respiratory support. Compared to pre-transplant status large benefits in function were noted (mean pre-transplant 6MWT was 314 ± 91 m with 6 L oxygen/minute).

Conclusion Lung transplantation provides clinically meaningful benefits in HRQL and functional outcomes in patient's ≥ 70 yrs old. This study highlights that these benefits are comparable to younger IPF patients who receive lung transplant and more beneficial to those reported in drug trials.

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P6

EARLY CLINICAL EXPERIENCE WITH NINTEDANIB — A TWO CENTRE REVIEW

¹E Nuttall, ²M Crooks, ¹S Gudur, ¹C Leonard, ²C Major, ²S Hart, ¹N Chaudhuri. ¹University Hospital South Manchester, Manchester, UK; ²Hull and East Yorkshire Hospital NHS Trust, Hull, UK

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Introduction Clinical trials of pirfenidone and nintedanib have shown similar reduced rates of lung function decline in patients with idiopathic pulmonary fibrosis (IPF). In 2013 NICE approved pirfenidone for use in IPF patients with forced vital capacity (FVC) between 50% and 80% predicted. More recently, nintedanib has been available on an individual patient supply program (IPSP).

Aims Reporting early experience of nintedanib in two tertiary referral centres, focusing on characterising the treated population, assessing the indications for use, and evaluating adverse effects.

Method All IPF patients attending two tertiary referral centre ILD clinics who were commenced on nintedanib as part of the IPSP were included. Data were collected retrospectively from clinical records and local clinical databases. Data are presented as mean (range).

Results 75 patients (mean age 70.8 years (50–85), 76% male). The FVC was 79.2% predicted (35% - 123%) and transfer factor (DLCO) 45.8% predicted (13% - 74%) prior to commencing treatment. 54% of patients were prescribed nintedanib because they did not meet FVC criteria for pirfenidone (FVC >80% in 41% of patients and FVC <50% in 13%). Other indications included refusal of pirfenidone due to the side effect profile (15%) or adverse effects requiring pirfenidone discontinuation (13%). 39 patients (52%) experienced adverse effects on nintedanib, the most common being diarrhoea (25%), nausea (13%), abnormal liver function tests (8%) and lethargy (11%). Adverse effects required nintedanib to be discontinued in 7 (9%) patients (diarrhoea (n = 3), abnormal LFTs (n = 2) and patient choice (n = 2)), dose reduction in 13 (17%) patients, and temporarily stopped and restarted in 9 (12%) patients.

Conclusion Nintedanib is a relatively new medication and although there are modest numbers in this review only 9% had to discontinue treatment. Diarrhoea is the most quoted side effect from trial data (63% of patients in INPULSIS-2), but in our observational data only one quarter suffered diarrhoea and only 3 patients stopping due to this. Although the data is from early experience the discontinuation rate is favourable compared with published and local data on pirfenidone (drop out rate 15%). This needs continued review to further evaluate drug tolerability and real world efficacy.

P7

INTERIM ANALYSIS OF NINTEDANIB IN AN OPEN-LABEL EXTENSION OF THE INPULSIS® TRIALS (INPULSIS®-ON)

¹B Crestani, ²T Ogura, ³K Pelling, ⁴C Coeck, ⁵M Quaresma, ⁶M Kreuter, ⁷M Kaye. ¹Hôpital Bichat, Pneumologie, Paris, France; ²Department of Respiratory Medicine, Kanagawa Cardiovascular and Respiratory Center, Yokohama, Kanagawa, Japan; ³Boehringer Ingelheim Ltd, Bracknell, UK; ⁴SCS Boehringer Ingelheim Comm. V., Brussels, Belgium; ⁵Boehringer Ingelheim Pharma GmbH & Co. KG, Ingelheim Am Rhein, Germany; ⁶Department of Pneumology, Thoraxklinik, University of Heidelberg, and Translational Lung Research Center Heidelberg, German Center for Lung Research, Germany; ⁷Minnesota Lung Center, Ltd., Minneapolis, Minnesota, USA

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Introduction The INPULSIS® trials assessed the efficacy and safety of nintedanib 150 mg twice daily in patients with idiopathic pulmonary fibrosis. Nintedanib significantly reduced the annual rate of decline in forced vital capacity (FVC) compared with placebo in both trials. Patients who completed the 52-week treatment period and follow-up visit 4 weeks later (n = 807) could receive open-label nintedanib in an extension trial.

Aim To assess the long-term efficacy and safety of nintedanib. Methods Patients treated with placebo in the INPULSIS® trials initiated treatment with nintedanib in the extension; patients treated with nintedanib continued to receive nintedanib.

Results 734 patients were treated in the extension trial (430 continuing nintedanib; 304 initiating nintedanib). Baseline characteristics were similar between groups. For patients initiating nintedanib, mean (SD) duration of exposure was 16.0 (7.3) months; for patients continuing nintedanib, mean (SD) duration of exposure in the extension was 17.2 (6.6) months, resulting in a mean (SD) duration of exposure across the parent and extension trial of 29.2 (6.6) months. Among all patients treated in the extension, mean (SD) change in FVC from the start of the extension to week 48 was -87 (240) mL (-1.95 [7.09]% FVC predicted). In total, 92.8% of patients continuing nintedanib and 96.7% initiated on nintedanib had ≥1 adverse event during the extension. The most frequent adverse event was diarrhoea, reported in 63.3% of patients continuing nintedanib and 64.1% of patients initiated on nintedanib.

Conclusion An interim analysis of data from the INPULSIS®-ON extension trial confirmed the efficacy and safety observed in the INPULSIS® trials.

P8 POOLED ANALYSIS OF DATA FROM THE TOMORROW AND INPULSIS® TRIALS OF NINTEDANIB IN IPF

¹L Richeldi, ²KK Brown, ³V Cottin, ⁴M Selman, ⁵T Kimura, ⁵S Stowasser. ¹National Institute for Health Research Southampton Respiratory Biomedical Research Unit and Clinical and Experimental Sciences, University of Southampton, Southampton, UK; ²National Jewish Health, Denver, Colorado, USA; ³Louis Pradel Hospital, University of Lyon, Lyon, France; ⁴Instituto Nacional de Enfermedades Respiratorias, Mexico City, Mexico; ⁵Boehringer Ingelheim Pharma GmbH & Co. KG, Ingelheim Am Rhein, Germany

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Background The 52-week, Phase II TOMORROW trial and two replicate 52-week, Phase III INPULSIS® trials investigated the efficacy and safety of nintedanib 150 mg twice daily (bid) versus placebo in patients with idiopathic pulmonary fibrosis (IPF).

Aim A pooled analysis of data from the TOMORROW and INPULSIS® trials was conducted to obtain a more precise estimate of the treatment effect of nintedanib.

Methods Results for annual rate of decline in forced vital capacity (FVC), time to first investigator-reported acute exacerbation, change from baseline in St George's Respiratory Questionnaire (SGRQ) total score and mortality over 52 weeks were analysed.

Results 1231 patients (nintedanib 150 mg bid n = 723, placebo n = 508, reflecting the 3:2 randomisation in the INPULSIS® trials) were included. Baseline characteristics were comparable between treatment groups and across trials. The overall adjusted annual rate of decline in FVC was -112.4 mL/year with nintedanib and -223.3 mL/year with placebo (difference: 110.9 mL/year [95% CI: 78.5, 143.3]; p < 0.0001). The overall hazard ratio for time to first acute exacerbation was 0.53 (95% CI: 0.34, 0.83; p = 0.0047) in favour of nintedanib. The overall adjusted mean change from baseline in SGRQ total score at

week 52 was 2.92 with nintedanib and 4.97 with placebo (difference: -2.05 [95% CI: -3.59, -0.50; p = 0.0095]). Hazard ratios for time to all-cause and on-treatment mortality were 0.70 (95% CI: 0.46, 1.08; p = 0.0954) and 0.57 (95% CI: 0.34, 0.97; p = 0.0274), respectively, in favour of nintedanib.

Conclusion Pooled data from the TOMORROW and INPULSIS® trials confirm a significant beneficial effect of nintedanib on reducing disease progression in patients with IPF.

P9 NINTEDANIB FOR THE TREATMENT OF IDIOPATHIC PULMONARY FIBROSIS – INITIAL CLINICAL EXPERIENCE IN A UK COHORT

¹SV Fletcher, ¹MG Jones, ²E Renzoni, ³H Parfrey, ⁴R Hoyles, ⁵K Spinks, ²M Kokosi, ⁶A Kwok, ⁶C Warburton, ⁵V Titmuss, ²T Maher, ²F Chua, ²A Wells, ¹L Richeldi, ⁶LG Spencer. ¹University Hospital Southampton, Southampton, UK; ²ILD Unit, Royal Brompton Hospital, London, UK; ³Papworth Hospital, Cambridge, UK; ⁴John Radcliffe Hospital, Oxford, UK; ⁵Queen Alexandra Hospital, Portsmouth, UK; ⁶Aintree University Hospital, Liverpool, UK

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Introduction and objectives Nintedanib (OFEV®) is the second drug licensed for the treatment of Idiopathic Pulmonary Fibrosis (IPF). Evidence from the INPULSIS study demonstrated that it reduced annual FVC decline by approximately 50%. Nintedanib has been available in the UK from October 2014 through the Individual Patient Supply Programme (IPSP); initially for those with FVC >50% predicted, latterly available for all with a diagnosis of IPF regardless of FVC. We present preliminary findings of clinical experience with nintedanib in routine UK clinical practice.

Methods A multi-centre, cohort review was undertaken across 6 NHS Trusts. Data were collected from clinical records of individuals receiving nintedanib for the treatment of IPF from October 2014 to July 2015.

Results 210 patients (161 male) had consented to nintedanib IPSP by July 2015. Mean age (\pm S. D.) at diagnosis was 70.0 \pm 7.7 years. Reasons for starting nintedanib included ineligibility for pirfenidone (FVC >80% predicted: 67 (31.9%) and FVC <50% predicted: 12 (5.7%)), intolerance to pirfenidone 63 (30%), patient preference 54 (25.7%), and clinical progression on pirfenidone 8 (3.8%). Pre-treatment lung function was FVC 72.2 \pm 19.0% and DL_{CO} 40.1 \pm 17.2% predicted (Domiciliary oxygen was administered to 66 (31.4%) of the cohort.

Mean duration of treatment was 2.4 months (range 0 – 8 months) and 78 patients had completed 3-month follow up. Of these 14/78 patients (17.9%) had discontinued nintedanib due to diarrhoea (5 patients), other GI side effects (3), death/lung transplant (2/1), miscellaneous reasons (3). The commonest potential adverse drug reaction (ADR) was diarrhoea occurring in 21/78 (26.9%), which required a dose reduction in 11 patients. Other common ADRs included nausea 11/78 (14.1%), abdominal pain 11/78 (14.1%), decreased appetite 7/78 (9.0%), and weight loss 5/78 (6.4%).

Conclusions These data demonstrate that at 3 months follow up, Nintedanib is generally well tolerated when used in routine UK practice in patients with IPF across a wide range of FVC's. The incidence of diarrhoea at 3 months is much lower than the 12 month reported rate in the INPULSIS study. Ongoing longitudinal follow up of this cohort will further inform our understanding of the use of nintedanib for the treatment of IPF.

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