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## **R1: Primary Sjögren's Syndrome: Longitudinal Real-world, Observational Data on Health-related Quality of Life**

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### **Ethics statement:**

Research ethics approval was granted by the UK North-West Research Ethics Committee.

### **Competing interest statement:**

None of the authors have competing interests related to the submitted work. W-FN reports personal fees from GlaxoSmithKline, MedImmune, Novartis, and BMS; personal fees and grant support from Abbvie; and grant support from Resolves Therapeutics, Nascient, outside of the submitted work.

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## **Abstract (200 words)**

### Introduction

Primary Sjögren's syndrome (pSS) is a chronic inflammatory condition, which presents with symptoms of dryness, pain, fatigue and often symptoms of anxiety and depression. Health related quality of life is significantly reduced in pSS and the direct and indirect health costs of pSS are substantial. This study aims to determine how symptom burden, disease activity and demographics associate with HRQoL longitudinally over a median of 24-month follow-up period in pSS.

### Methods

Longitudinal EQ-5D-3L data from the Newcastle pSS cohort (n=377) were evaluated using a survival analysis strategy. Kaplan-Meier and Cox proportional hazards analysis were performed using baseline Newcastle Sjogren's Stratification Tool (NSST) subgroup, EULAR Sjogren's Syndrome Patient Reported Index (ESSPRI), EULAR Sjogren's Syndrome Disease Activity Index (ESSDAI), disease duration, age, and sex as covariates including polypharmacy and comorbidity score, where data were available (n = 191).

### Results

Of the 377 pSS participants analysed in this study 16% experienced a decline in HRQoL to a health state comparable to or worse than death. NSST subgroup and ESSPRI score had a significant relationship with time to 'EQ-5D event' whereas baseline ESSDAI, age, disease duration and sex did not.

### Conclusion

In pSS symptom burden and to a great extent NSST subgroup, rather than systemic disease activity, has a significant relationship with HRQoL longitudinally. Improvements in symptom burden have the potential to produce significant impacts on long-term HRQoL in pSS.

### **Keywords**

Health-Related Quality of Life, Sjogren's, Longitudinal.

## Introduction

Primary Sjögren's syndrome (pSS) is a chronic inflammatory condition which commonly presents with symptoms of dry eyes, dry mouth, pain, and fatigue. Symptoms of anxiety and depression are also common. There is currently no effective treatment for pSS and the direct and indirect health costs of pSS are substantial.

Health related quality of life (HRQoL) estimates are a key contributor to health economic evaluations. Cost-utility analyses for new treatments are assessed in Quality-Adjusted-Life-Years (QALYs) which combine HRQoL and survival<sup>1</sup>. EuroQoL-5 dimension (EQ-5D) is a standardised instrument for estimating HRQoL on five different dimensions: mobility, self-care, usual activities, pain/discomfort and anxiety/depression. The score is mapped to a single utility value or 'EQ-5D score' using reference data from the UK population provided by the EuroQoL group (<http://www.euroqol.org>). Scores 0 to 1 represent death and full health respectively whereas scores below zero indicate health states 'worse than death'. EQ-5D is a generic utility instrument and can be compared across diseases. EQ-5D is also often used as a key metric in cost-utility analysis in therapeutic development.

In pSS HRQoL is significantly reduced<sup>2</sup>. The most important correlates of EQ-5D UK utility are pain/discomfort and anxiety/depression<sup>2,3</sup>. However, it is not known how disease activity and symptom burden affects HRQoL longitudinally. Recently we identified distinct subgroups within the UKPSSR cohort, demonstrated biological differences between those subgroups and developed a stratification tool (NSST)<sup>4</sup>. NSST uses patient reported symptom scores for dryness, fatigue, pain, anxiety and depression to assign pSS sufferers into four symptom burden-based subgroups, namely the High Symptom Burden (HSB), Low Symptom Burden (LSB), Dryness Dominant Fatigue (DDF) and Pain Dominant Fatigue (PDF) subgroups. Patients in the HSB subgroup report high scores for all 5 symptoms, LSB group patients report low scores for all symptoms, PDF group patients report high scores for dryness, pain and fatigue and DDF group patients report high scores for dryness and fatigue. In this study we explore the relationship between NSST subgroup, symptom burden, disease activity and the trajectory of HRQoL in pSS.

## Methods

### Subjects

All longitudinal data were collected from a regional Sjogren's clinic based in Newcastle-upon-Tyne between August 2009 and December 2020 (n = 507). All participants fulfil the American European Consensus Group classification criteria<sup>5</sup>. Data were collected prospectively using standardised proforma at the time of clinic appointment. For all patients attending the regional Sjogren's clinic, the following data are collected as part of their routine care: EULAR Sjögren's Syndrome Disease Activity Index (ESSDAI)<sup>6</sup>, EULAR Sjögren's Syndrome Patient Reported Index (ESSPRI)<sup>7</sup>, Hospital Anxiety and Depression Scale (HADS)<sup>8</sup>, EQ-5D UK utility, Profile of Fatigue (Pro-F)<sup>9</sup>. Follow-up data were available for 377 subjects (Table 1.) with a median follow-up time of 2.1 years. Patients who had not yet attended their follow-up appointment at the time of analysis were not included. Baseline polypharmacy and comorbidity data were available from the UK Primary Sjogren's Registry (UKPSSR, <http://www.sjogrensregistry.org>) for a proportion of participants (n = 191). The following variables were available at baseline for all subjects: Age, Disease Duration, Sex, Ro/La status, ESSDAI, ESSPRI, HADS, EQ-5D UK utility, Pro-F.

### Polypharmacy and Comorbidity Score

Polypharmacy Score was calculated as the sum of medications at the time of clinic appointment. Details of comorbid conditions were collected prospectively, standardised, and converted to clinically meaningful categories using Clinical Classifications Software Refined (CCSR) tools<sup>10</sup>. A Chronic Conditions Indicator score (CCI) was calculated using CCSR tools which was used in risk analyses.

### Data analysis

Longitudinal health outcome data (EQ-5D UK utility) were analysed. As the data were collected during routine clinic appointments the time between visits and total number of visits differed between patients. The EQ-5D UK utility scores were calculated as previously described<sup>2</sup> and evaluated using a survival analysis strategy. As EQ-5D UK utility scores can represent quality of life at death or worse than death we used an EQ-5D UK utility threshold of greater than zero to represent 'survival'. The follow up time at which EQ-5D UK utility fell to zero or below was recorded as an 'EQ-5D event'. Time to event analysis was performed using baseline NSST subgroup,

ESSPRI, ESSDAI, disease duration, age, sex, polypharmacy score and comorbidity score as covariates. Kaplan-Meier estimator curves and Cox proportional hazards analysis were performed in R.

### Patient and Public Involvement

Patients were involved in the planning and conduct of this research and have identified priority areas for pSS research that are most relevant to their experience of the disease which include fatigue and general wellbeing. Patient partner representatives are included in the FOREUM project steering committee.

### **Results**

The distribution of EQ-5D scores in this pSS cohort is bimodal with a peak around 0 and another around 0.75, there is possibly a third peak of patients who report an EQ-5D score of 1, perfect health. Of the 377 pSS participants analysed in this study 69 (18%) experienced a low (<0.5) EQ-5D utility score and 59 (16%) experienced a decline in quality of life to a health state comparable to or worse than death.

NSST subgroup at baseline had a significant relationship with time to threshold EQ-5D event ( $p < 0.001$ ) (Figure 1). Increased risk of an 'EQ-5D event' was most highly associated with membership of the HSB subgroup, defined by an overall high symptom burden at baseline (Figure 1.). No members of the LSB subgroup reported an EQ-5D of zero or below and the DDF subgroup reported very few 'EQ-5D events' ( $n = 3$ , 5%). In the PDF and HSB groups the proportions of 'EQ-5D events' are 15% ( $n = 15$ ) and 41% ( $n = 41$ ) respectively. The median EQ5D utility values at baseline and time of event or end of follow up are 0.85 and 0.80 respectively for the LSB group and 0.74 and 0.69 respectively for the DDF group. Whereas, the median EQ5D utility values at baseline and time of event or end of follow up are 0.52 and 0.19 respectively for the HSB group and 0.69 and 0.68 respectively for the PDF group. See Supplementary Table 1 for further details.

Analysis of Cox proportional hazards identified the NSST subgroup as the most significant 'risk factor' for an 'EQ-5D event' (Figure 2, A.) The HSB subgroup was associated with the highest hazard ratio (HR) (estimated HR = 26.30, confidence interval (CI) = 3.5–199.7),  $p = 0.002$ ). This effect was consistent after correction for polypharmacy score and CCI. CCI has a close relationship with polypharmacy score and is associated with a small but significant (estimated HR = 1.30, CI = 1.1–1.5),  $p < 0.001$ ) risk of reduced EQ-5D. Baseline ESSDAI, age at baseline visit, disease duration and sex were not significant risk factors for an 'EQ-5D event' (Figure 2, B.). High ESSPRI score (Figure 2, C.) is a significant risk factor for a decline in EQ-5D (estimated HR = 2.02, 1.6–2.6,  $p < 0.001$ ). NSST strata are calculated using five patient reported symptom scores. The impact of each score at baseline (Figure 2, D.) indicates that symptoms of Pain, Fatigue, and Anxiety contribute most significantly to the risk of 'EQ-5D event', although, the HR of individual symptom are relatively low (estimated HR = 1.30, 1.30, 1.10, CI = 1.1–1.5, 1.1–1.6 and 1.0–1.2, respectively).

### **Discussion**

In pSS, patients have a significantly lower health utility values compared to the UK general population which is confirmed in this study<sup>2</sup>. The median EQ-5D utility value in this cohort is lower than the UK population norm for this age group<sup>11</sup>. Using longitudinal data, we observe that in a small proportion of the cohort HRQoL declines significantly in a relatively short time-frame. The membership of a HSB subgroup has a significant relationship with health-related quality-of-life longitudinally even after adjustment for other factors associated with quality-of-life decline such as age, polypharmacy, and chronic comorbid conditions. LSB and DDF groups have very good quality of life outcomes longitudinally whereas PDF and especially HSB groups show reduced quality of life at baseline and further decline during the study period. Heterogeneity in the range and severity of key symptoms of pSS poses a challenge for patient care, experimental design, and therapeutic development<sup>4,12</sup>. Classification of patients using patient reported scores is a promising new approach to stratified medicine. The NSST is an easily applicable method for patient stratification in large cohorts using symptom burden scores. Our observation that NSST subgroup is the strongest predictor for EQ-5D UK utility decline underscores the value of the NSST stratification tool in clinical management and therapeutic development. For instance, our data support the development of an effective clinical strategy to manage symptoms such as pain, fatigue and low mood in the HSB and PDF subgroups, which likely requires a personalised, holistic approach<sup>13</sup>. In chronic conditions such as pSS, improving the HR-QoL is critical, and HR-QoL and health utility are key considerations in therapeutic

development especially in public-funded healthcare systems. Therefore, we would advocate cautions in the inclusion of the LSB group in trials of novel therapies as there is very little potential improvement in terms of HR-QoL and QALY gains for this group. In contrast, by targeting treatments to the HSB and PDF subgroups may lead to more cost-effective treatment strategies.

The individual domains that comprise the assignment of NSST subgroups are derived from the individual ESSPRI domains and HADS anxiety and depression subscores. The total ESSPRI Score, fatigue, pain, and to a small extent anxiety are significantly related to EQ-5D UK utility decline. Importantly, this mirrors the key concerns highlighted by patient partner representatives.

In this study, clinical measures of disease activity in pSS, such as ESSDAI, are poor predictors of EQ-5D UK utility decline. The median ESSDAI score in this cohort is relatively low which may potentially impact on the ability to demonstrate any significant relationship between ESSDAI and EQ-5D utility value over time. Nonetheless, our findings call for caution in using ESSDAI as the main clinical endpoint to assess therapeutic efficacy of new therapies.

The limitations of this study are that the data are observational from a single regional centre, therefore independent validation using international cohorts is necessary. It is important to note also that EQ-5D UK utility may not represent the impact of all aspects of pSS on HRQoL therefore other assessment tools should be also be explored, for example ICECAP-A<sup>14</sup>.

## Key messages

### What is already known about this subject?

- pSS is a chronic disease with heterogeneous symptoms and no curative treatment available to date
- HRQoL in pSS is significantly lower than the general population
- Some pSS patients have a lower HR-QoL than others

### What does this study add?

- Some NSST pSS subgroups are more likely to have decline in HRQoL over time
- Pain and fatigue are important symptoms predicting HRQoL decline
- Disease activity as measured by ESSDAI is a poor predictor of HRQoL decline

### How might this impact on clinical practice or future developments?

- HRQoL is a key metric for cost-utility analysis in therapeutic development. Patient stratification could aid more effective trial design as well as clinical practice

Clinical Characteristics (n = 377)	Baseline	
Age	57 (49 – 67)	
Disease duration (AECG years)	6.7 (2 – 8)	
BMI	26.0 (23.4 – 29.8)	
Sex	331 f, 46 m	
Ro/La positivity	123 negative, 253 positive	
Symptom Burden Group	DDF 68, HSB 99, LSB 41, PDF 169	
Follow up time (years)	2.1 (1.2 – 5.1)	
Total number of follow up appointments	3 (2, 4)	
	<b>Baseline</b>	<b>Follow up</b>

ESSDAI Score	2.0 (0.0 - 4.0)	1.0 (0.0 - 3.0)
ESSPRI Score	6.0 (4.6 - 7.6)	6.3 (4.7 - 7.6)
EQ-5D Score	0.69 (0.4 - 0.8)	0.69 (0.2 - 0.8)

Table 1. Clinical and demographic characteristics of the cohort at baseline visit. Values shown are median values with (25th and 75th) percentiles.

#### Figure Legends

Figure 1. Kaplan-Meier estimator curves showing time to 'EQ-5D event' data between 4 symptom burden groups. 'EQ-5D event' = EQ-5D  $\leq$  0. Strata = NSST subgroup, n = 377.

Figure 2. Graphical summaries of 4 Cox Proportional Hazards models (A-D). The estimated HR, 95% CI of the HR, and p-value are shown for each covariate in each model. The models show the impact of (A) NSST subgroup, (B) disease activity (ESSDAI), (C) ESSPRI, on risk of 'EQ5D event' occurrence using demographic covariates Age, Sex, Disease Duration, Polypharmacy Score and CCI. (D) This model includes individual symptom scores used in NSST stratification. HSB = High Symptom Burden, PDF = Pain Dominant with Fatigue, LSB = Low symptom Burden, DDF = Dryness Dominant with Fatigue, HADS=Hospital Anxiety and Depression Scale, CCI=Chronic Condition Index. CI = Confidence Interval.

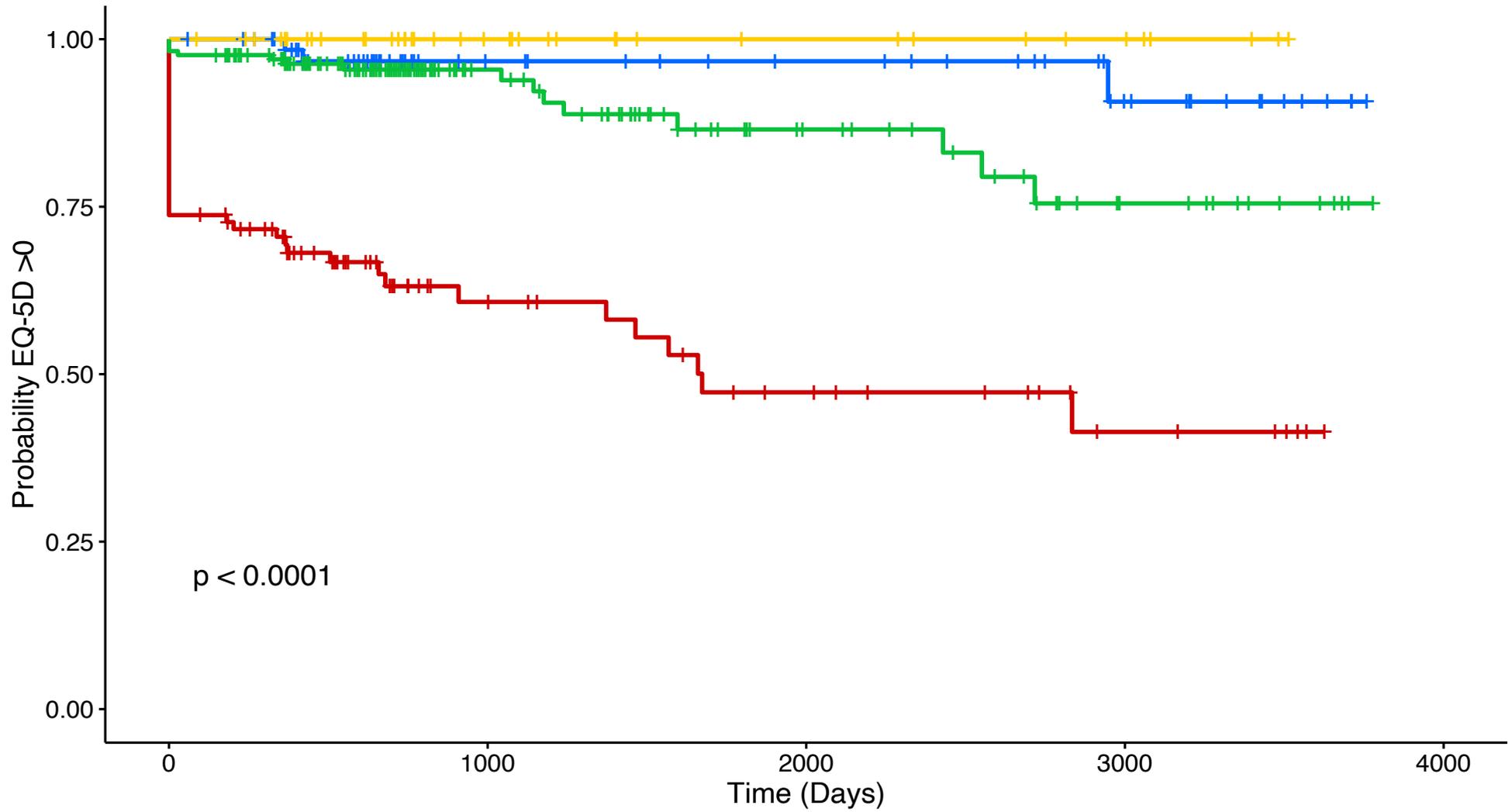
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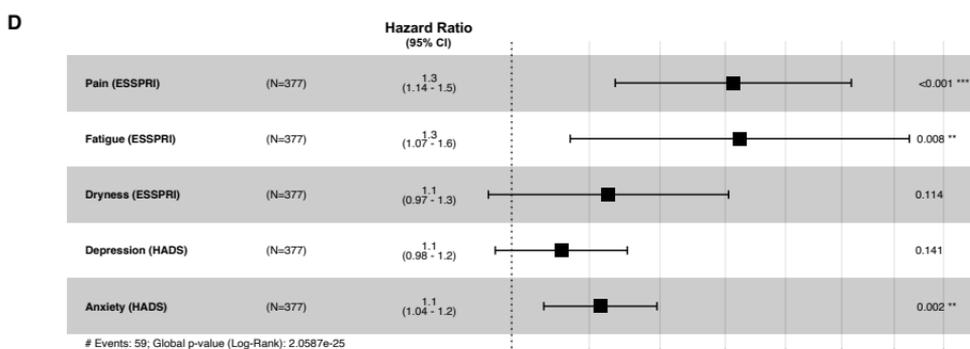
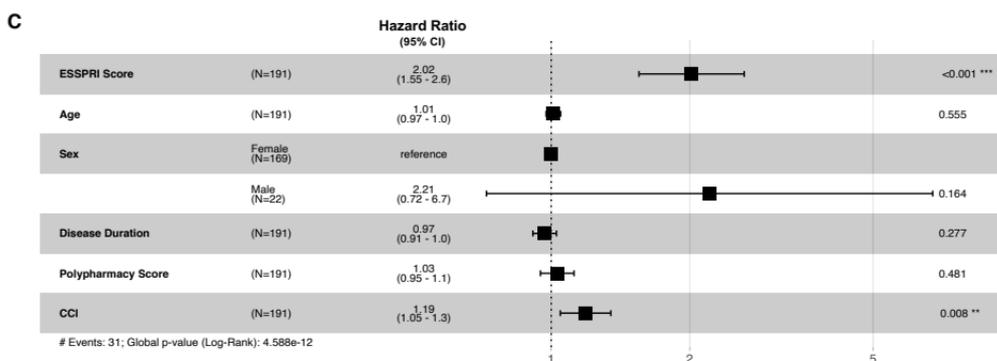
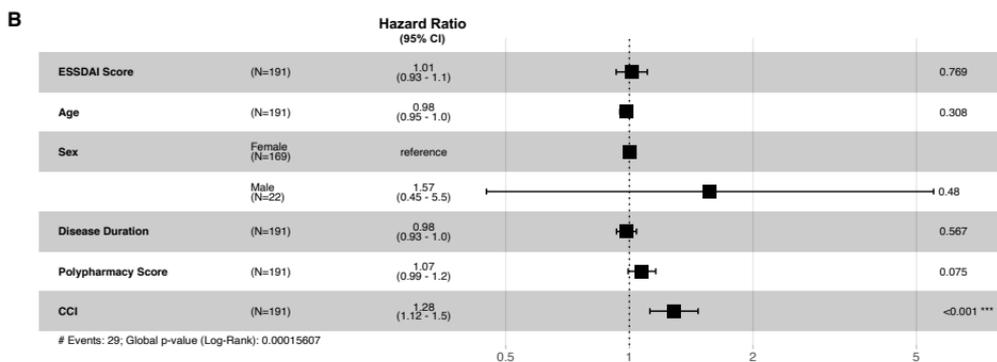
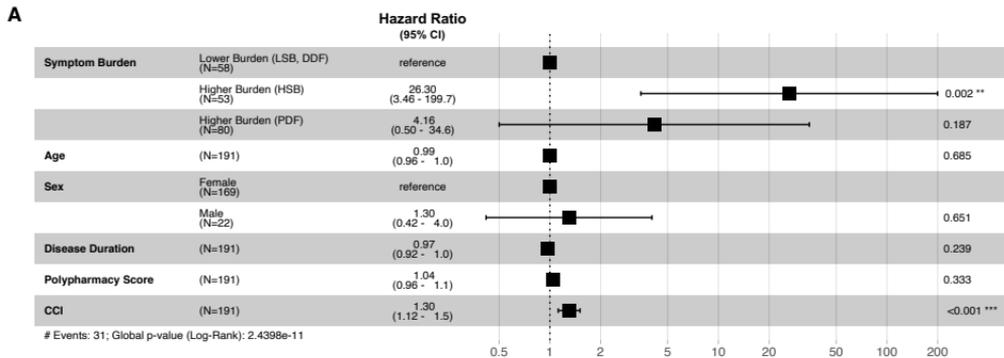
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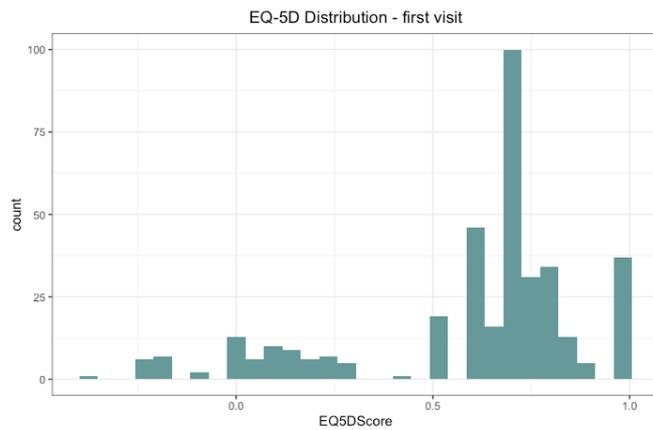
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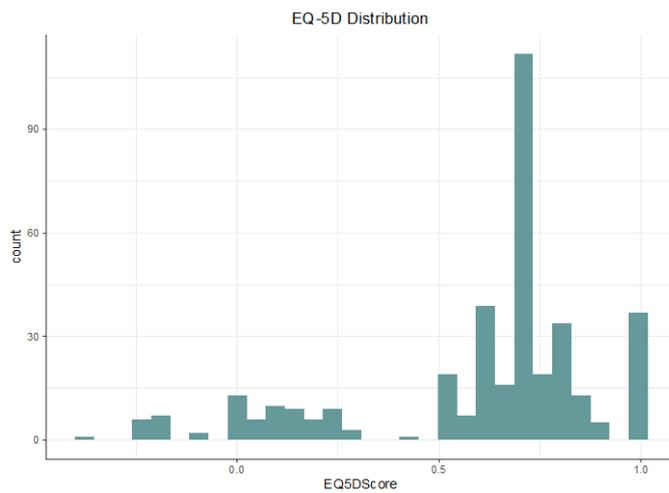
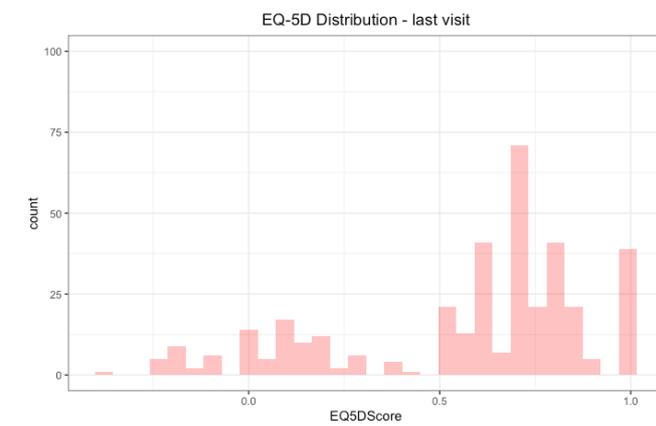


## R1:Supplementary Materials

A



B



Supplementary Figure S1. Histogram of EQ-5D UK utility distribution showing 3 groupings of patients centered around EQ-5D UK utility scores of 0, 0.6 and 1. A, First Visit; B, Last Visit; C, Baseline values are shown in teal with end of follow up values overlaid in red.

Strata	Time Point	EQ-5D UK Utility		
		median	quantile 25%	quantile 75%
DDF	Baseline	0.74	0.69	0.85
	Time of event / End of Follow up	0.69	0.62	0.85
HSB	Baseline	0.52	-0.02	0.66
	Time of event / End of Follow up	0.19	-0.07	0.64
LSB	Baseline	0.85	0.73	1.00
	Time of event / End of Follow up	0.80	0.73	1.00
PDF	Baseline	0.69	0.62	0.73
	Time of event / End of Follow up	0.69	0.52	0.76