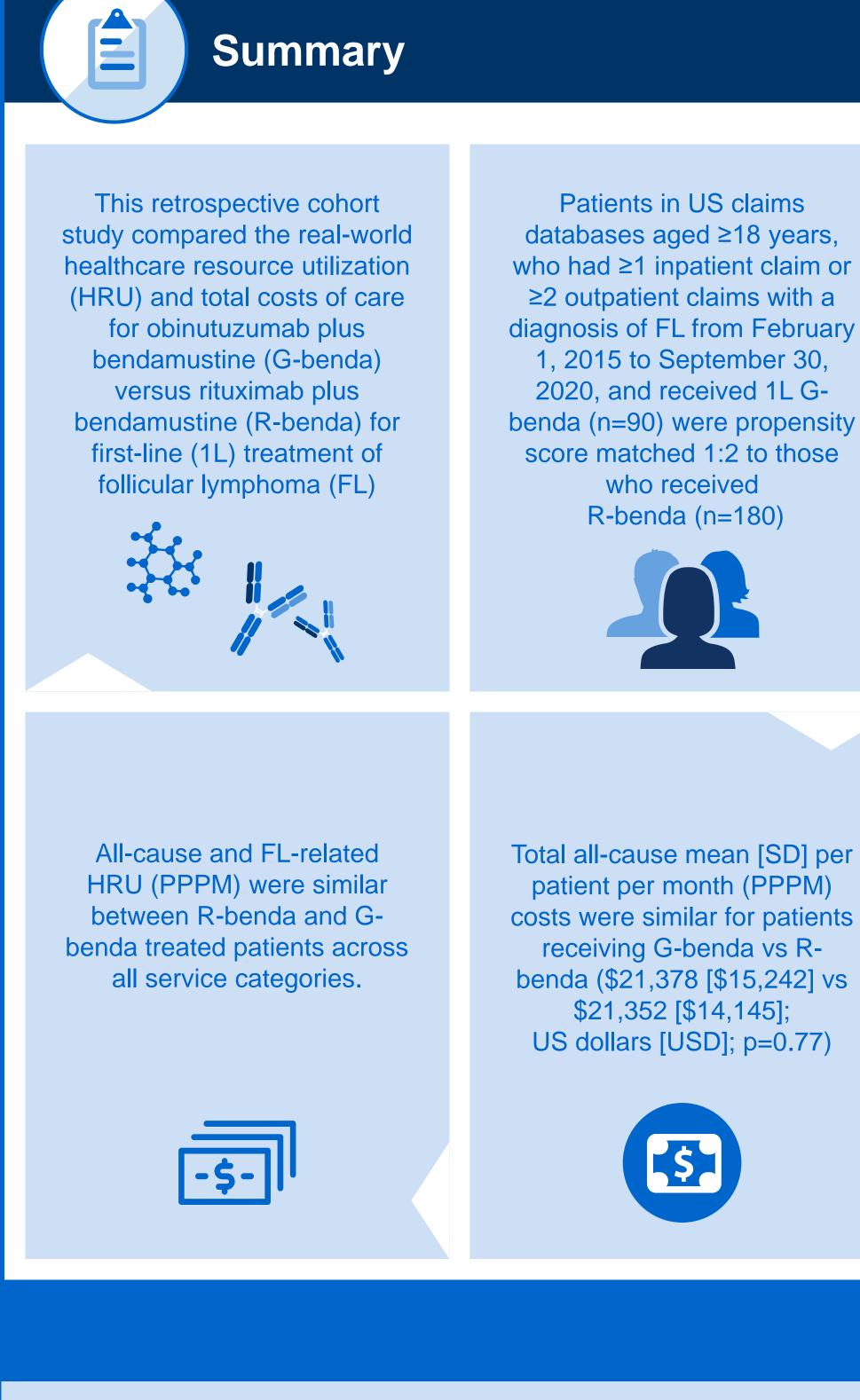
P3004

Healthcare Resource **Utilization and Costs** Associated with **Obinutuzumab plus Bendamustine versus Rituximab plus Bendamustine** for First-Line Treatment of Follicular Lymphoma

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INTERACTIVE



Patients included in this retrospective cohort study had a diagnosis of FL between February 1, 2015 and September 30, 2020, and received 1L R-benda or G-benda (Figure 1)

Inclusion criteria

• Aged ≥18 years • \geq 1 inpatient claim or \geq 2 outpatient claims with a diagnosis of FL between February 1, 2015 and

September 30, 2020 Received 1L R-benda or G-benda between February 1, 2016 and March 31, 2020

- data availability.



Table 1: Demographics and baseline characteristics of FL patients treated with 1L G-benda propensity score matched 1:2 with those treated with 1L R-benda

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Background

• Obinutuzumab (G) is an anti-CD20 monoclonal antibody approved in the US for 1L treatment of FL, relapsed or refractory FL, and 1L chronic lymphocytic leukemia.

• G plus chemotherapy (G-chemo) demonstrated superior progression-free survival versus rituximab (R) plus chemotherapy (R-chemo) in patients with previously untreated FL in the Phase III, randomized GALLIUM study (NCT01332968).¹

• R-benda and G-benda are among the most commonly used chemoimmunotherapy (CIT) regimens for FL,² and information on comparative real-world HRU and realworld costs associated with G-chemo vs R-chemo in previously untreated FL patients is limited.

• The aim of this study was to compare HRU and costs for G-benda and R-benda for the 1L treatment of FL using US claims databases.

Figure 1: Inclusion and exclusion criteria

Exclusion criteria

 During the pre-index period: presence of other primary cancers (excluding
lymphomas/leukemias), diffuse large B-cell
lymphoma, National Comprehensive Cancer
Network (NCCN)-recommended FL treatment or
stem cell transplant

· During the study period: clinical trial participation or diagnosis of end-stage renal disease

This study used administrative claims data from IQVIA PharMetrics[®] Plus and IBM[®] MarketScan Commercial and Medicare Supplemental databases.

• Date of the first claim for FL treatment was the index date.

• All patients had \geq 12 months of pre- and \geq 6 months of post-index continuous enrollment (CE) in medical and pharmacy benefits.

Patients initiating 1L G-benda were propensity score matched 1:2 with patients initiating 1L R-benda based on age, sex, Charlson Comorbidity Index, region, and insurance payer type, which were determined during the pre-index period.

• All-cause and FL-related (i.e. claim that included an FL diagnosis) HRU and costs (2020 USD) PPPM during the follow-up period were reported. FL treatment-related costs (2020 USD) PPPM were also evaluated.

• Patients were followed until the earliest of initiation of second-line therapy, end of CE, or end of

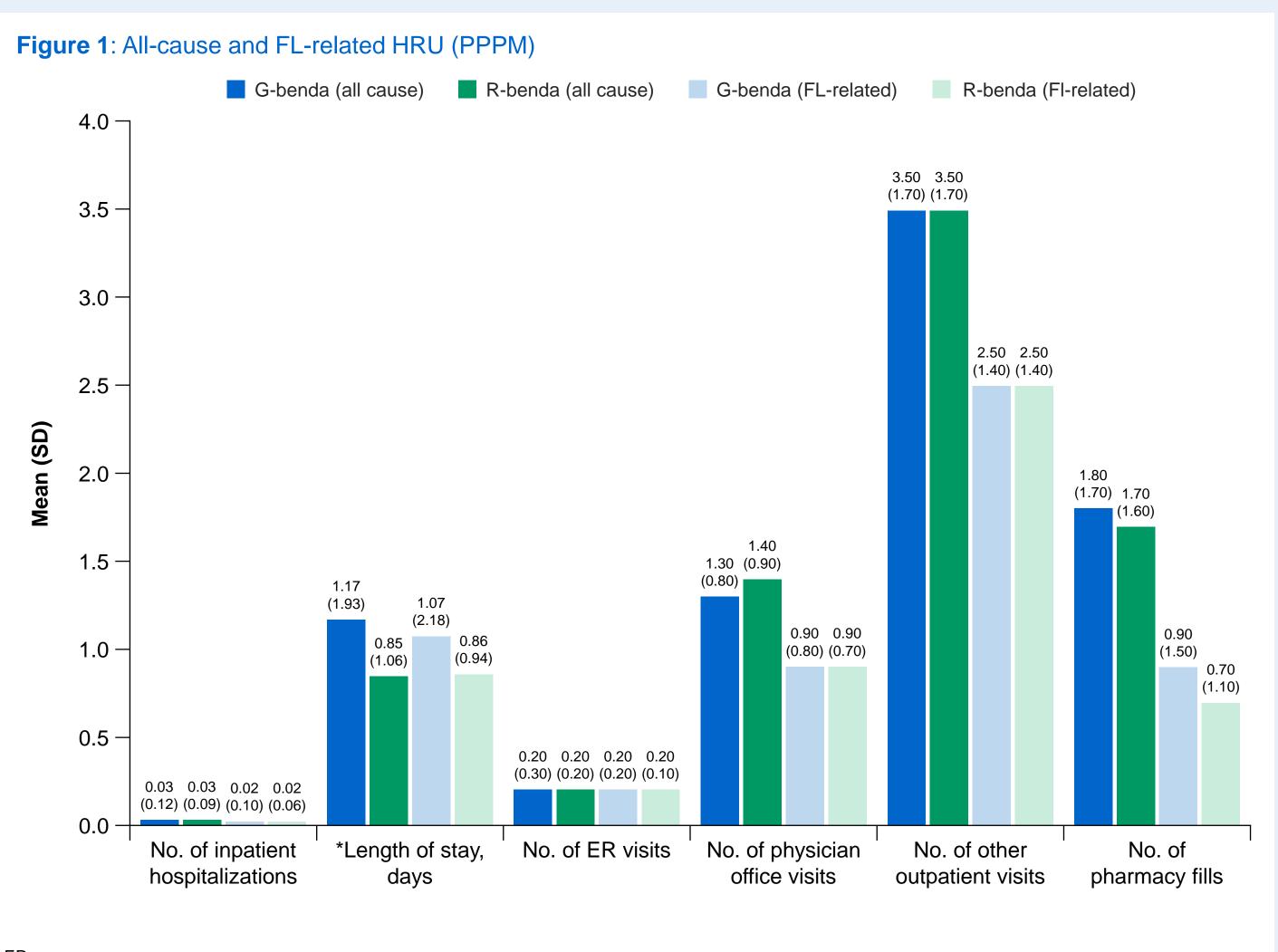
Results

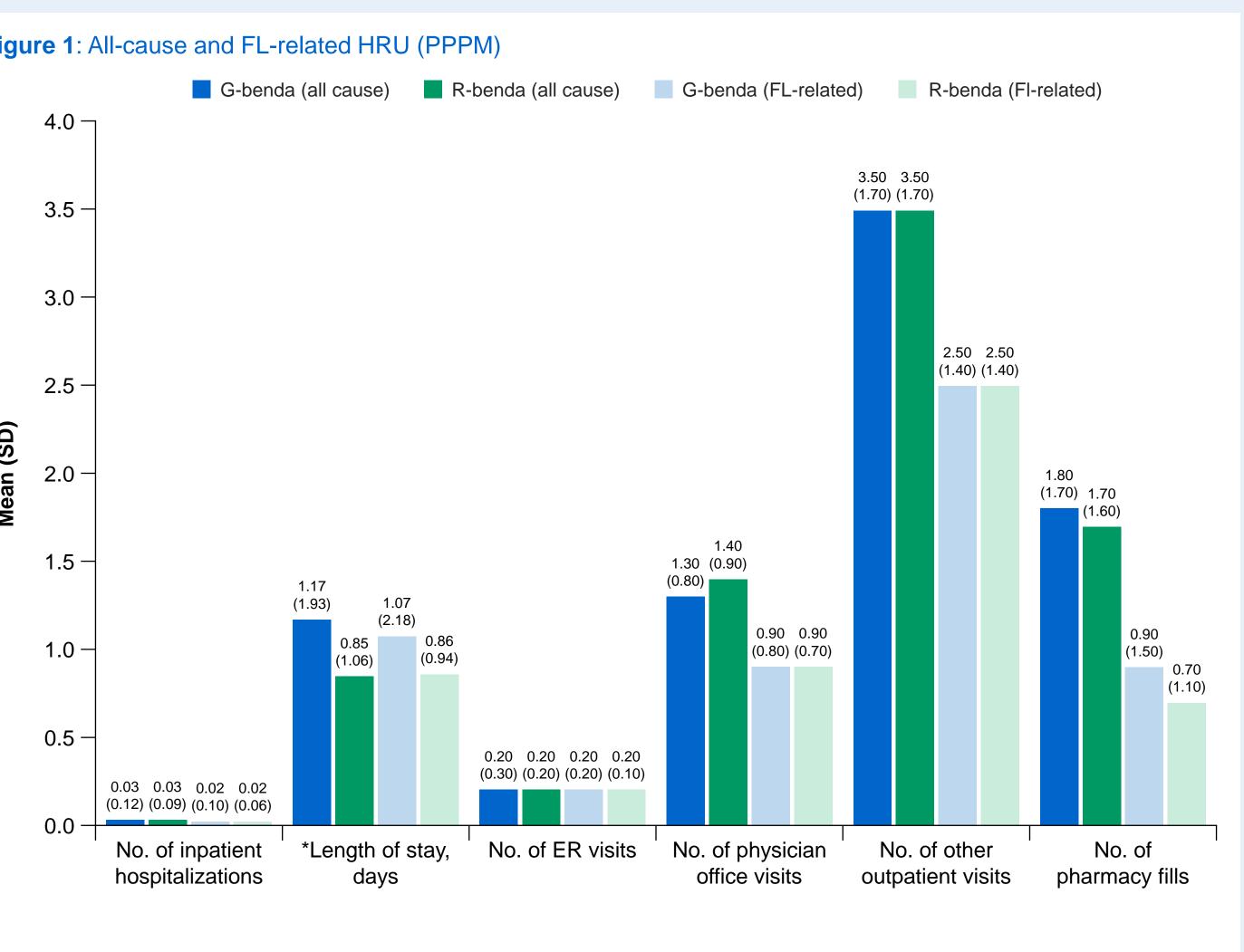
Overall, 270 patients were included in the matched 1L

• A total of 91 patients receiving 1L G-benda and 839 patients receiving R-benda were identified. • After propensity score matching, 90 (33.3%) patients receiving G-benda and 180 (66.7%) patients receiving R-benda for 1L treatment of FL were included.

• After matching, baseline characteristics were well-balanced between R-benda and G-benda patients (standardized mean difference [SMD] <0.1; Table 1).

All N=270	G-benda N=90	R-benda N=180	SMD	P-value		
59.1 (9.9)	58.9 (9.3)	59.2 (10.3)	-0.04	0.74		
122 (45.2%)	44 (48.9%)	78 (43.3%)	0.11	0.39		
81 (30%)	25 (27.8%)	56 (31.1%)				
29 (10.7%)	11 (12.2%)	18 (10%)	0.09	0.92		
116 (43%)	39 (43.3%)	77 (42.8%)				
44 (16.3%)	15 (16.7%)	29 (16.1%)				
181 (67%)	62 (68.9%)	119 (66.1%)				
51 (18.9%)	17 (18.9%)	34 (18.9%)	0.11	0.96		
38 (14.1%)	11 (12.2%)	27 (15%)				
1.7 (1.1)	1.8 (1.1)	1.7 (1.2)	0.01	0.62		
12.1 (9.3) 7.4	11.5 (8.5) 7.6	12.4 (9.7) 7.4	-0.10	0.96		
	N=270 59.1 (9.9) 122 (45.2%) 81 (30%) 29 (10.7%) 116 (43%) 44 (16.3%) 181 (67%) 51 (18.9%) 38 (14.1%) 1.7 (1.1) 12.1 (9.3)	N=270 N=90 59.1 (9.9) 58.9 (9.3) 122 (45.2%) 44 (48.9%) 81 (30%) 25 (27.8%) 29 (10.7%) 11 (12.2%) 116 (43%) 39 (43.3%) 44 (16.3%) 15 (16.7%) 181 (67%) 62 (68.9%) 51 (18.9%) 11 (12.2%) 38 (14.1%) 11 (12.2%) 1.7 (1.1) 1.8 (1.1) 12.1 (9.3) 11.5 (8.5)	N=270 N=90 N=180 59.1 (9.9) 58.9 (9.3) 59.2 (10.3) 122 (45.2%) 44 (48.9%) 78 (43.3%) 81 (30%) 25 (27.8%) 56 (31.1%) 29 (10.7%) 11 (12.2%) 18 (10%) 116 (43%) 39 (43.3%) 77 (42.8%) 44 (16.3%) 15 (16.7%) 29 (16.1%) 181 (67%) 62 (68.9%) 119 (66.1%) 51 (18.9%) 17 (18.9%) 34 (18.9%) 38 (14.1%) 11 (12.2%) 27 (15%) 1.7 (1.1) 1.8 (1.1) 1.7 (1.2) 12.1 (9.3) 11.5 (8.5) 12.4 (9.7)	N=270N=90N=180SMD $59.1 (9.9)$ $58.9 (9.3)$ $59.2 (10.3)$ -0.04 $122 (45.2\%)$ $44 (48.9\%)$ $78 (43.3\%)$ 0.11 $81 (30\%)$ $25 (27.8\%)$ $56 (31.1\%)$ $81 (10\%)$ $29 (10.7\%)$ $11 (12.2\%)$ $18 (10\%)$ 0.09 $116 (43\%)$ $39 (43.3\%)$ $77 (42.8\%)$ $44 (16.3\%)$ $15 (16.7\%)$ $29 (16.1\%)$ $181 (67\%)$ $62 (68.9\%)$ $119 (66.1\%)$ $51 (18.9\%)$ $17 (18.9\%)$ $34 (18.9\%)$ $38 (14.1\%)$ $11 (12.2\%)$ $27 (15\%)$ $1.7 (1.1)$ $1.8 (1.1)$ $1.7 (1.2)$ $12.1 (9.3)$ $11.5 (8.5)$ $12.4 (9.7)$		





ER, emergency room FL-related = claim that included an FL diagnosis *Among those with hospitalizations

All-cause and FL-related costs were similar for patients receiving 1L G-benda or R-benda

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	G-benda	R-benda	G-benda	R-benda	
Total costs,*	\$21,378 (\$15,242)	\$21,352 (\$14,145)	\$17,353 (\$11,370)	\$17,724 (\$13,350)	
Total medical costs	\$20,214 (\$15,557)	\$20,509 (\$14,424)	\$16,556 (\$11,694)	\$17,079 (\$13,641)	
Total inpatient costs	\$612 (\$2,171)	\$789 (\$3,647)	\$355 (\$1,987)	\$249 (\$1,146)	
Total outpatient costs	\$19,602 (\$15,425)	\$19,720 (\$14,096)	\$16,200 (\$11,459)	\$16,830 (\$13,649	
Total ER costs	\$69 (\$210)	\$68 (\$188)	\$12 (\$84)	\$4 (\$27)	
Total physician office visit costs	\$143 (\$116)	\$175 (\$162)	\$100 (\$108)	\$116 (\$108)	
Total other outpatient service costs	\$19,390 (\$15,394)	\$19,478 (\$14,037)	\$16,089 (\$11,426)	\$16,710 (\$13,621)	
Total pharmacy costs	\$1,164 (\$4,346)	\$844 (\$3,296)	\$797 (\$2,803)	\$646 (\$3,201)	

*All values are mean (SD) FL-related = claim that included an FL diagnosis. USD = United States Dollar.

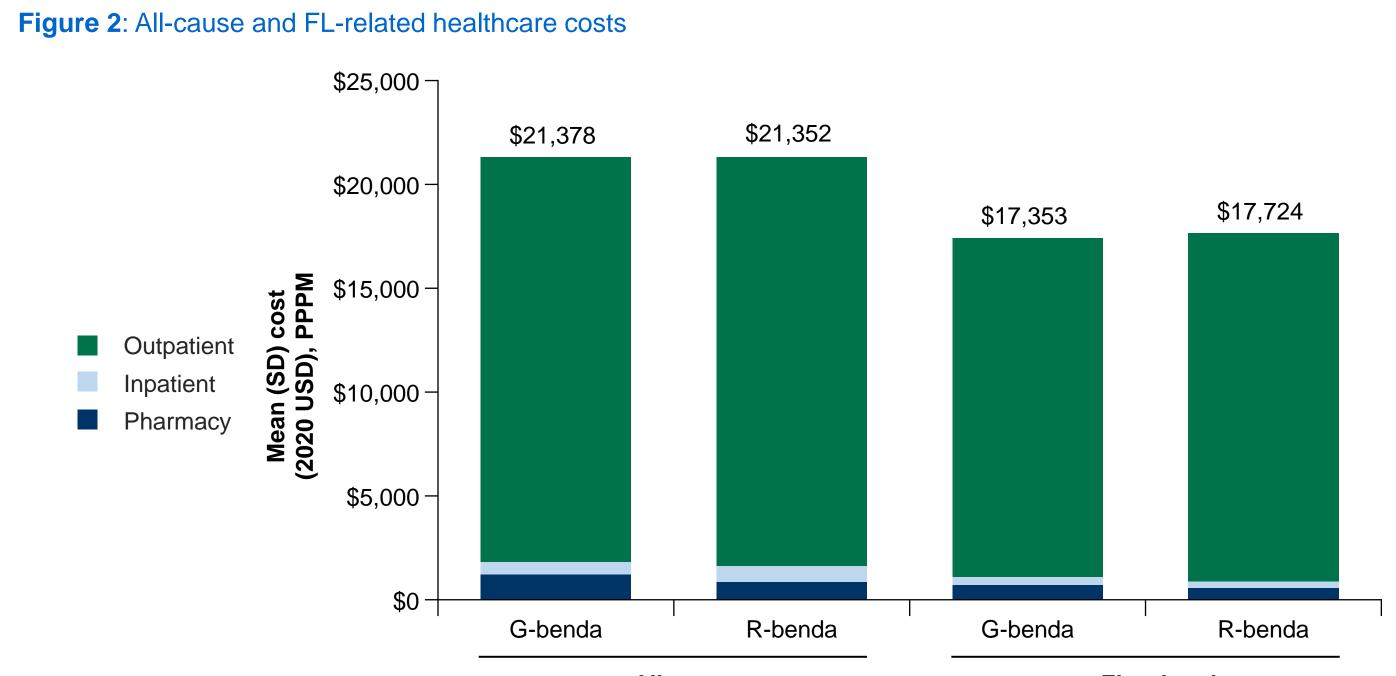
References 1. Marcus R, et al. N Engl J Med 2017;377:1331–4. 2. Ta J, et al. J Clin Oncol 2021;39(15 Suppl): Abstract e19534.

Acknowledgements

All-cause and FL-related HRU (PPPM and frequency counts) were similar for patients receiving 1L G-benda or R-benda

Both all-cause and FL-related HRU were similar between R-benda and G-benda treated patients across all service categories (Figure 1 and Table 2).

• Mean [SD] total all-cause PPPM costs were similar for G-benda vs R-benda patients (\$21,378 [\$15,242] vs \$21,352 [\$14,145]; p=0.77 based on the nonparametric Wilcoxon rank sum test; **Figure 2**). • The majority of total costs were FL-related, which were similar across both patient groups: \$17,353 (\$11,370) for Gbenda vs \$17,724 (\$13,530) for R-benda (p=0.71).



FL-related

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Disclosures

TMT, JT: employment: Genentech; equity: Roche; AS: employment: Genentech; RW: employment: Genentech; previous employment: The SPHERE Institute; equity: Roche, Oragenics, Inc., Novavax, Inc., Aurinia Pharmaceuticals Inc., TG Therapeutics, Inc.; DL: employment and stockholder: Genentech; previous employment: AbbVie; equity: BMS and AbbVie; **SS**: employment: Genentech; equity: Roche.

Table 2. All-cause and FL-related HRU frequency during follow-up*

	G-benda n=90	R-benda n=180	P-value
All-cause HRU, n (%)			
Any inpatient hospitalizations	15 (17%)	30 (17%)	1.00
Any ER visit	23 (26%)	52 (29%)	0.56
Any physician office visit	84 (93%)	170 (94%)	0.72
Any other outpatient visit	90 (100%)	180 (100%)	N/A
Any pharmacy fill	71 (79%)	149 (83%)	0.44
FL-related HRU, n (%)			
Any inpatient hospitalizations	11 (12%)	18 (10%)	0.58
Any ER visit	8 (9%)	11 (6%)	0.40
Any physician office visit	68 (76%)	148 (82%)	0.20
Any other outpatient visit	88 (99%)	177 (98%)	0.75
Any pharmacy fill	39 (44%)	67 (37%)	0.33

*Follow-up times were variable across patients in the cohort

FL treatment costs were similar for patients receiving 1L G-benda or R-benda

- Mean (SD) total FL treatment-related costs PPPM were \$17,070 (\$14,064) for G-benda,
- which were comparable to \$16,138 (\$11,828) PPPM for R-benda (p=0.39; **Table 3**). • Differences in administration costs were likely due to differences in administration times
- for G and R

Table 3: FL treatment-related costs					
	G-benda n=90	R-benda n=180	P-value		
All FL treatment-related costs, mean (SD)	\$17,070 (\$14,064)	\$16,138 (\$11,828)	0.39		
Medical	\$16,148 (\$13,169)	\$15,594 (\$11,454)	0.39		
Pharmacy	\$922 (\$4,051)	\$544 (\$2,796)	0.64		
Administration	\$748 (\$722)	\$529 (\$703)	0.01		

FL treatment-related costs were defined as costs related to administration of FL treatment. Medical costs were derived from procedure codes; pharmacy costs derived through National Drug Codes; administration costs were derived from procedure codes for chemotherapy administration.



- Our study found similar HRU and costs of care among patients with FL receiving 1L G-benda versus those receiving R-benda.
- This real-world economic analysis demonstrated similar costs with G-benda and R-benda, which complements clinical trial data that had demonstrated improved outcomes with G-chemo over R-chemo¹.

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