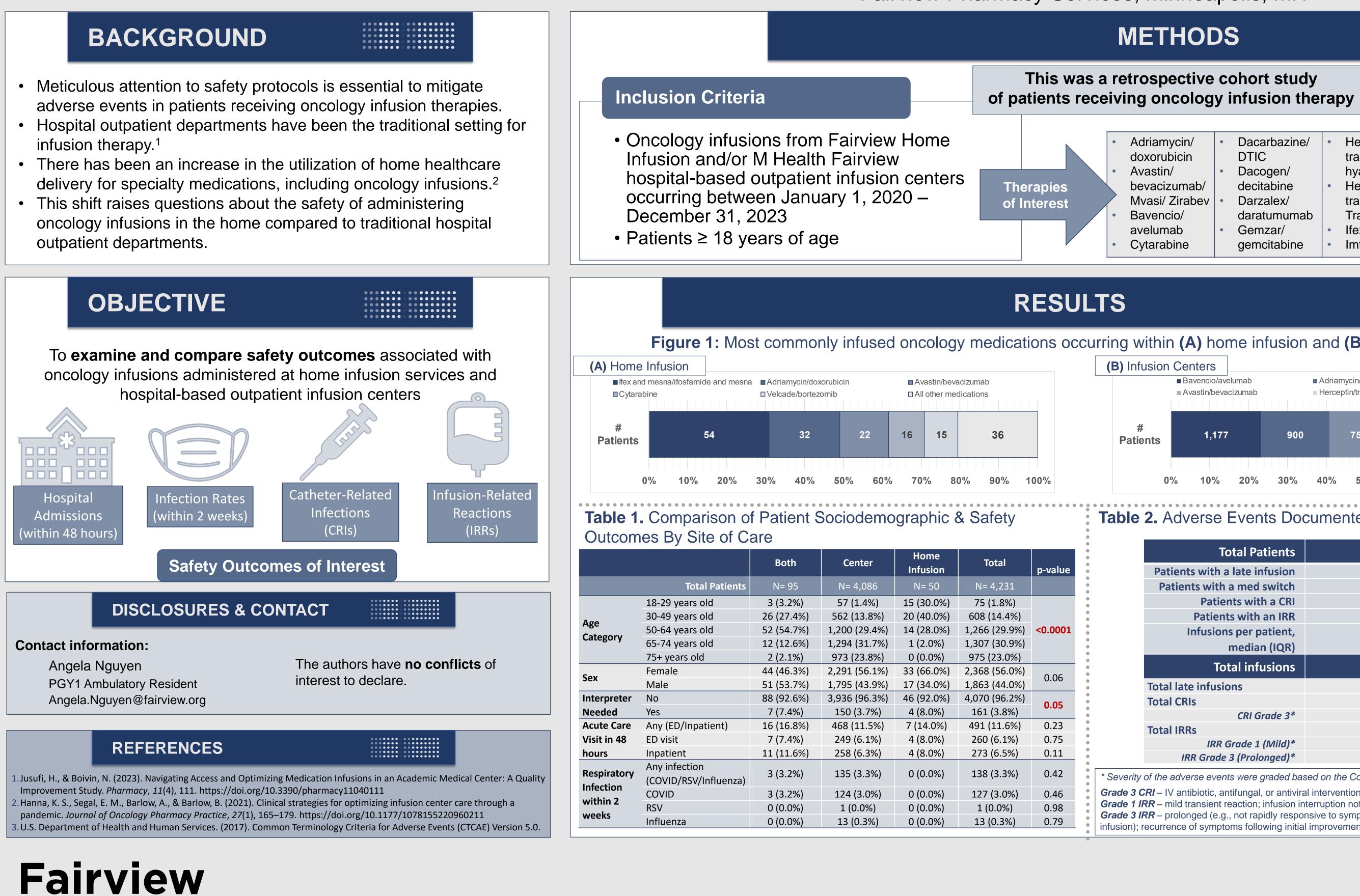
Infusing Safety: Comparing Oncology Infusion Outcomes at Home Infusion Services vs. Hospital-Based Outpatient Infusion Centers



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Figure 1: Most commonly infused oncology medications occurring within (A) home infusion and (B) infusion centers

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		Both	Center	Home Infusion	Total	p-value	Pat
	Total Patients	N= 95	N= 4,086	N= 50	N= 4,231		Pa
Age Category	18-29 years old 30-49 years old 50-64 years old	3 (3.2%) 26 (27.4%) 52 (54.7%)	57 (1.4%) 562 (13.8%) 1,200 (29.4%)	15 (30.0%) 20 (40.0%) 14 (28.0%)	75 (1.8%) 608 (14.4%) 1,266 (29.9%)	<0.0001	
	65-74 years old 75+ years old	12 (12.6%) 2 (2.1%)	1,294 (31.7%) 973 (23.8%)	1 (2.0%) 0 (0.0%)	1,307 (30.9%) 975 (23.0%)		
Sex	Female Male	44 (46.3%) 51 (53.7%)	2,291 (56.1%) 1,795 (43.9%)	33 (66.0%) 17 (34.0%)	2,368 (56.0%) 1,863 (44.0%)	0.06	Tota
nterpreter Needed	No Yes	88 (92.6%) 7 (7.4%)	3,936 (96.3%) 150 (3.7%)	46 (92.0%) 4 (8.0%)	4,070 (96.2%) 161 (3.8%)	0.05	Tota
Acute Care /isit in 48 nours	Any (ED/Inpatient) ED visit Inpatient	16 (16.8%) 7 (7.4%) 11 (11.6%)	468 (11.5%) 249 (6.1%) 258 (6.3%)	7 (14.0%) 4 (8.0%) 4 (8.0%)	491 (11.6%) 260 (6.1%) 273 (6.5%)	0.23 0.75 0.11	Tota
Respiratory nfection within 2 weeks	Any infection (COVID/RSV/Influenza)	3 (3.2%)	135 (3.3%)	0 (0.0%)	138 (3.3%)	0.42	* Severity of the
	COVID RSV Influenza	3 (3.2%) 0 (0.0%) 0 (0.0%)	124 (3.0%) 1 (0.0%) 13 (0.3%)	0 (0.0%) 0 (0.0%) 0 (0.0%)	127 (3.0%) 1 (0.0%) 13 (0.3%)	0.46 0.98 0.79	Grade 3 CRI – I Grade 1 IRR – r Grade 3 IRR – p
		· · ·	· · · · · ·	` <i>`</i>	*		infusion); recurre

Table 2. Adverse Events Documented within Home Infusion

	Total Patients	145	
	Patients with a late infusion	27 (18.6%)	
	Patients with a med switch	30 (20.7%)	
	Patients with a CRI	5 (3.4%)	
	Patients with an IRR	14 (9.7%)	
	Infusions per patient, median (IQR)	5 (2,10)	
	Total infusions	1,242	
	Total late infusions	43 (3.5%)	
	Total CRIs	6 (0.5%)	
	CRI Grade 3*	6(0.5%)	
	Total IRRs	17 (1.4%)	
	IRR Grade 1 (Mild)*	15 (1.2%)	
	IRR Grade 3 (Prolonged)*	2 (0.2%)	
rerity	of the adverse events were graded bas	sed on the Common Terminology Criteria for Ac	dverse E
le 1 e 3	RR – mild transient reaction; infusion ir RR – prolonged (e.g., not rapidly respo	al intervention indicated; invasive intervention in nterruption not indicated; intervention not indicated; intervention not indicated onsive to symptomatic medication and/or brief in al improvement; hospitalization indicated for clin	ted. hterruptic

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	•	Dacarbazine/	•	Herceptin Hylecta/	•	Keytruda/
		DTIC		trastuzumab and		pembrolizumab
	•	Dacogen/		hyaluronidase	•	Navelbine/
/		decitabine	•	Herceptin/		vinorelbine
ev	•	Darzalex/		trastuzumab/	•	Velcade/
		daratumumab		Trazimera		bortezomib
	•	Gemzar/	•	lfex/ifosfamide	•	Vidaza/
		gemcitabine	•	Imfinzi/ durvalumab		azacytidine

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Prs ncio/avelumab tin/bevacizumab		riamycin/doxoruk rceptin/trastuzum		 Gemzar/gemcitabine All other medications 		
1,177	900	753	684	422	1,155	
10% 20%	30% 40	% 50%	60%	70%	80% 90%	100%

DISCUSSION

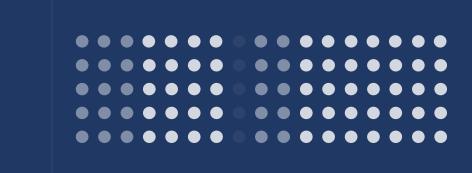
Statistical Analysis:

using chi-squared tests

- No significant difference in the incidence of hospital admissions and respiratory infections across sites of care (Table 1).
- Both home infusion and infusion centers may provide comparable safety outcomes in immediate post-infusion complications and short-term infection rates.
- Low rates of CRIs and IRRs within patients receiving care through home infusion (Table 2).
- Favorable safety profile for home infusion with a low incidence of serious adverse events.
- Future analysis will explore differences in rates and severity of CRIs and IRRs across sites of care to provide further insights regarding the comparative safety of home infusion vs. infusion centers.

CONCLUSION

- These findings contribute to the ongoing discussion surrounding oncology care delivery.
- Home infusion has the potential to enhance patient-centered care and maintain high safety standards.
- By understanding the safety outcomes with home infusion around oncology therapies, healthcare providers may make informed and personalized decisions regarding site of care and resource allocation.



Demographics and safety events were compared across sites-of-care



4,082 patients; 50,624 infusions seen within hospital-based outpatient infusion centers

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