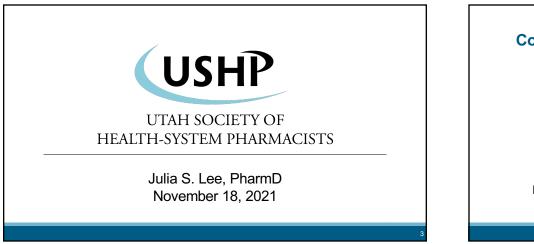


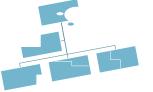
## **Speaker Introduction**

Julia grew up in the San Francisco Bay Area, then migrated to Southern California for undergraduate studies at Harvey Mudd College. After two years working in vaccine research, she returned to school for her PharmD at the University of California, San Francisco. She then moved to Salt Lake City for her PGY1 at University of Utah Health, and continues as a PGY2 resident in hematology/oncology at the Huntsman Cancer Institute. Her interests include learning about novel therapies (of which there is no shortage in the hematology/oncology world) and pharmacy education.

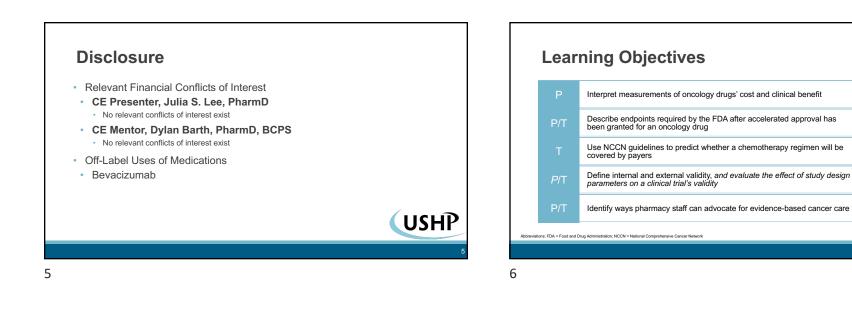


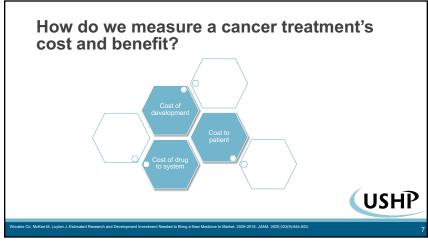


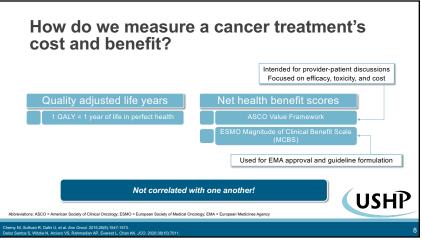
## Common Pitfalls in Oncology Clinical Trials



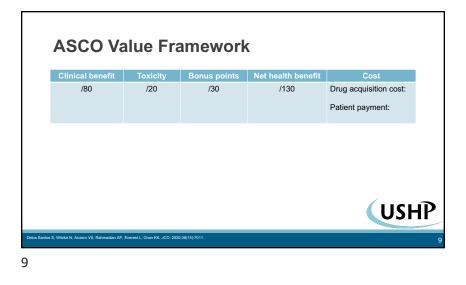
Julia S. Lee, PharmD PGY2 Hematology/Oncology Pharmacy Resident Huntsman Cancer Institute at University of Utah Health Julia.Lee@utah.edu

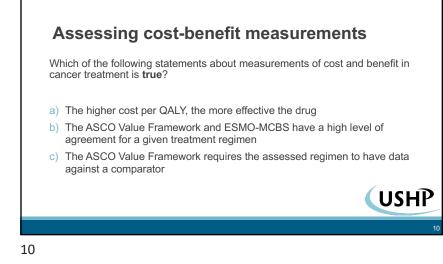


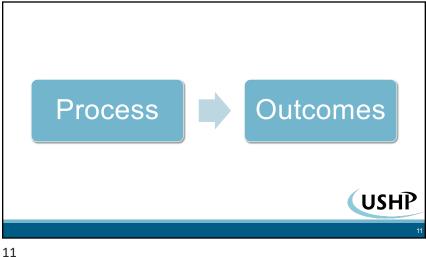


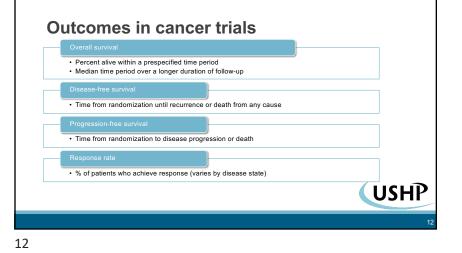


USHP

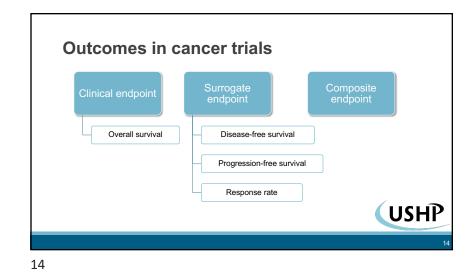


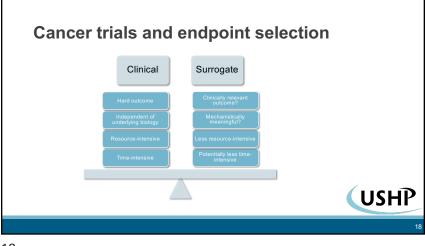






Out	comes in cance	er trials	
	Clinical endpoint	Surrogate endpoint	
	Improves function	Predicts clinical benefit	
	Prolongs survival		
			USHP
			13
13			





What d	oes the FDA red	quire?	
	Regular approval	Accelerated approval	
Trial evidence	Improved <b>survival</b> , quality of life, or established surrogate	Benefit based on outcome reasonably likely to predict clinical benefit	
Postmarketing requirements	Safety	Verification of clinical benefit Safety	
			USH
	te endpoint or on an effect on a clinical endpoint other than survival or October 9, 2021. <u>https://www.fda.cov/drugs/information-bealth-care-pro</u>		

	The ECHELO	<b>PFDA what it wants</b> N-1 study was an open-label, multicenter, randomized f brentuximab vedotin assessing a surrogate outcome.	
	Population Intervention Comparator	Adults with untreated stage III-IV Hodgkin's lymphoma Brentuximab vedotin, doxorubicin, vinblastine, and dacarbazine (A+AVD) Bleomycin, doxorubicin, vinblastine, dacarbazine (ABVD) Modified progression-free survival (mPFS), defined as time to	
	Outcome	progression, death, or noncomplete response and use of subsequent therapy	
	Assuming mPl FDA, which ap	FS is deemed an established surrogate outcome by the proval pathway(s) would be reasonable?	USHP
Connors JM,	Jurczak W, Straus DJ, et al. N Engl J I	Med. 2018.378(4):331-344.	22
22			

## Give the FDA what it wants

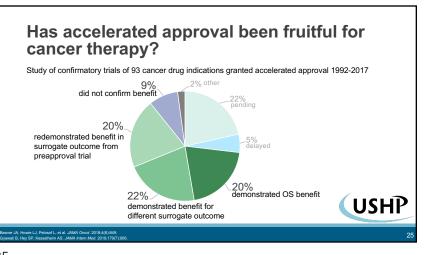
The ECHELON-1 study was an open-label, multicenter, randomized phase 3 trial of brentuximab vedotin assessing a surrogate outcome.

Assuming mPFS is deemed an established surrogate outcome by the FDA, which approval pathway(s) would be reasonable?

- a) Regular approval, based on improved survival
- b) Regular approval, based on improved mPFS
- c) Accelerated approval, based on improved survival
- d) Accelerated approval, based on improved mPFS

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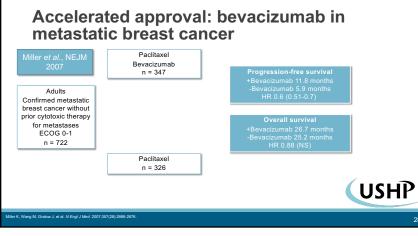
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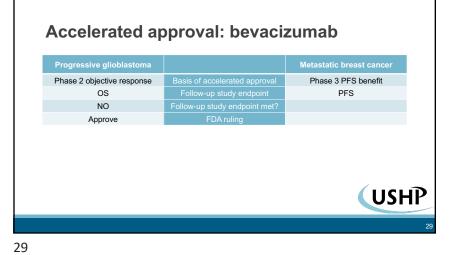
USHP

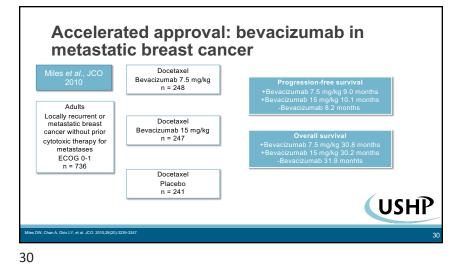
Progressive glioblastoma		Metastatic breast cancer
	Basis of accelerated approval	
	Follow-up study endpoint	
	Follow-up study endpoint met?	
	FDA ruling	
		US

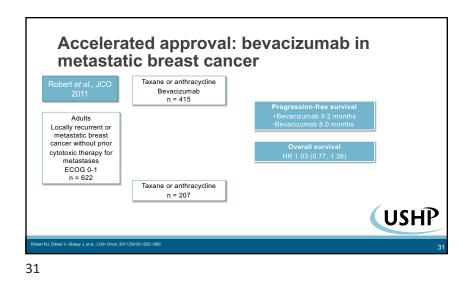
## Accelerated approval: bevacizumab

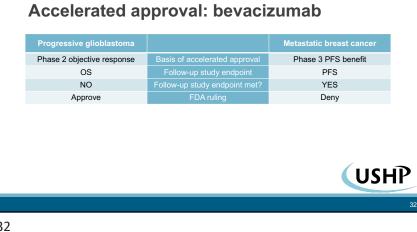
Progressive glioblastoma		Metastatic breast cancer
Phase 2 objective response	Basis of accelerated approval	
OS	Follow-up study endpoint	
NO	Follow-up study endpoint met?	
Approve	FDA ruling	
		USF
		USF

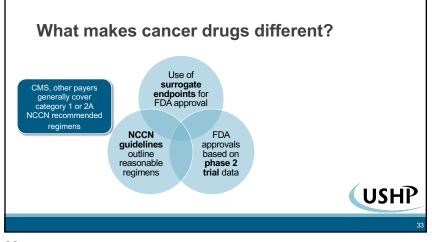


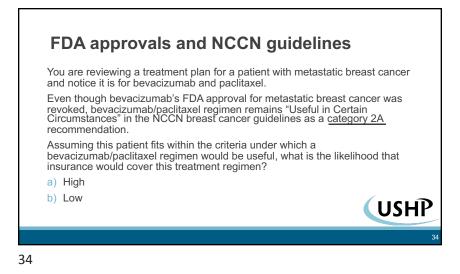


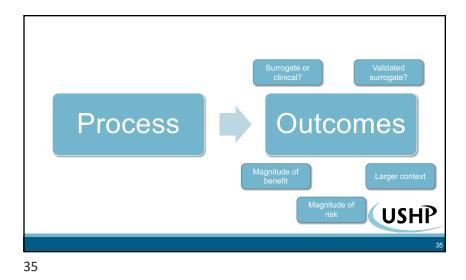


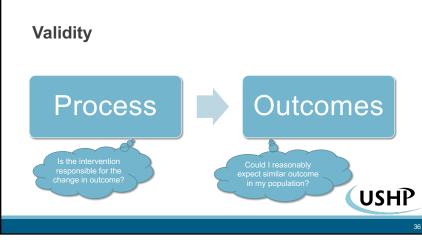


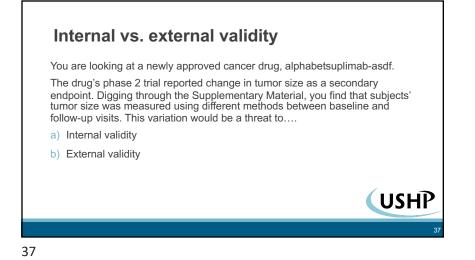


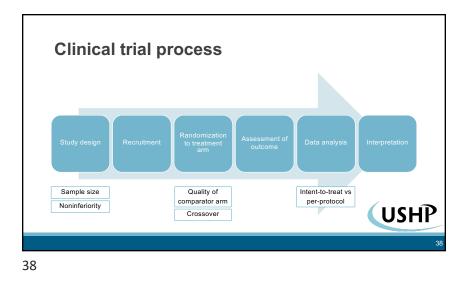


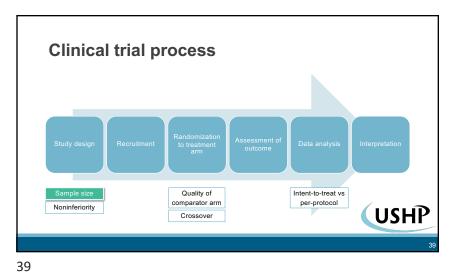


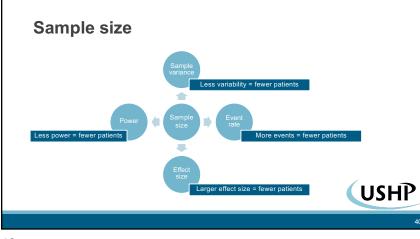


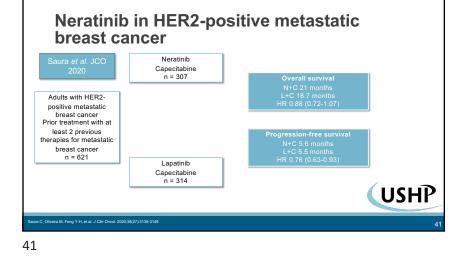


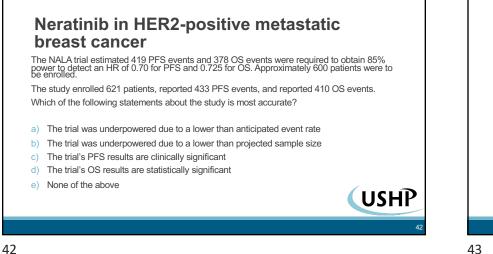


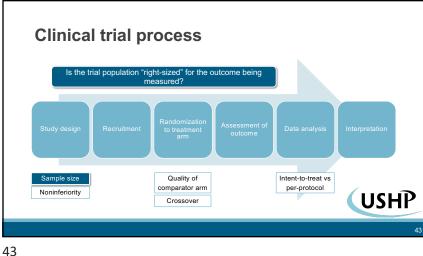


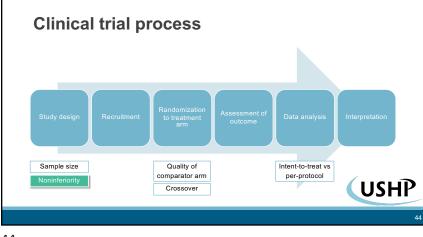


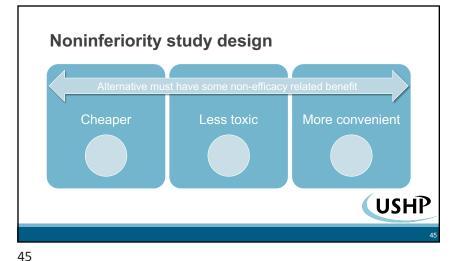


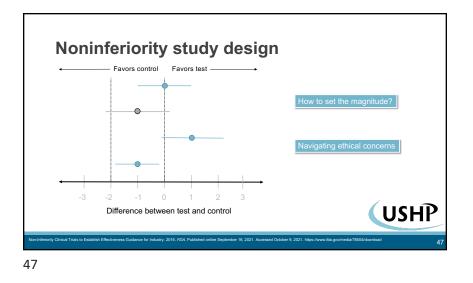


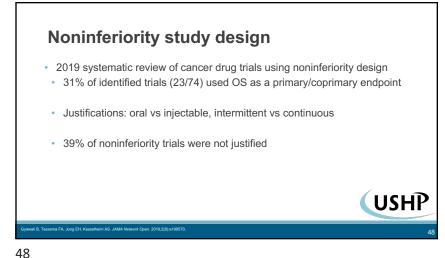


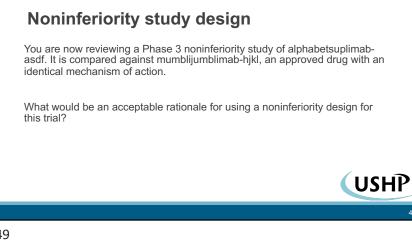


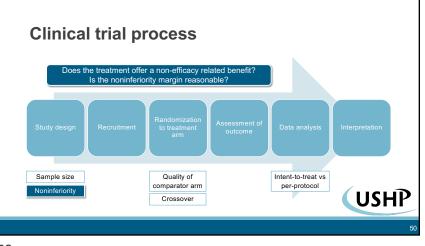


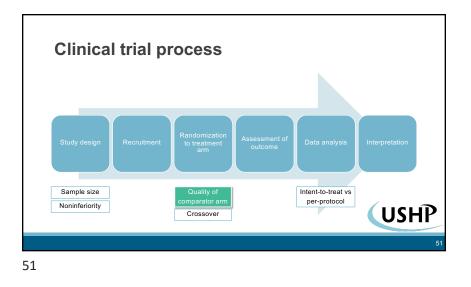


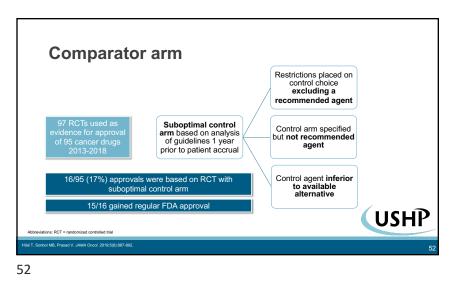


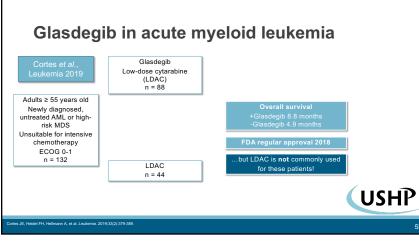


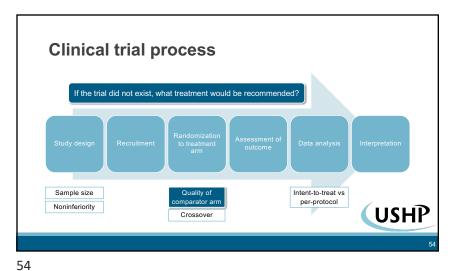


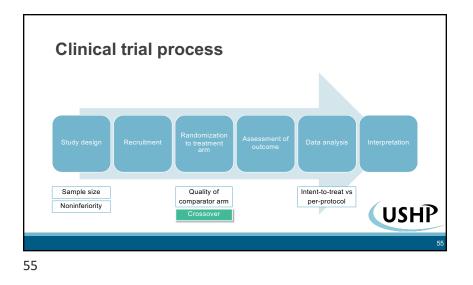


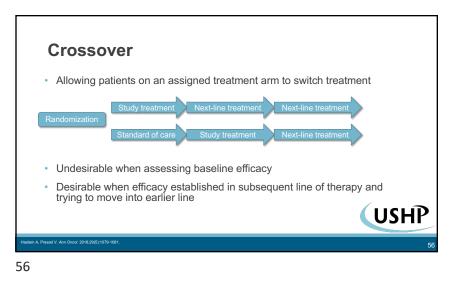


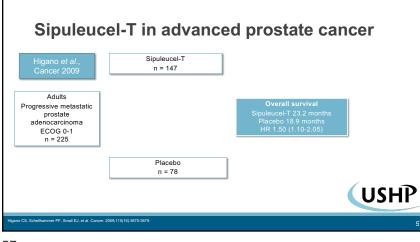


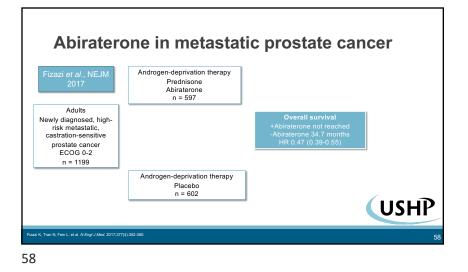


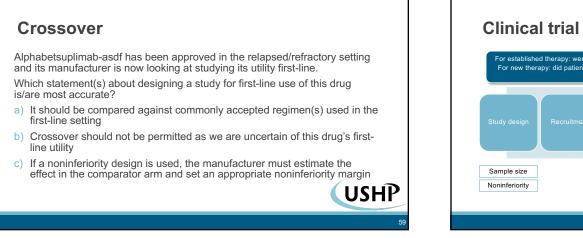


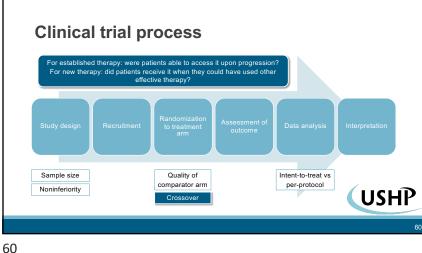


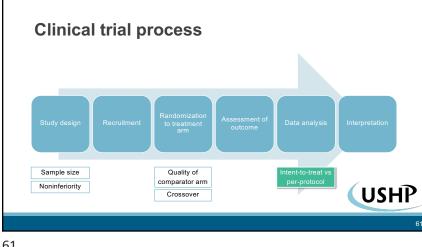


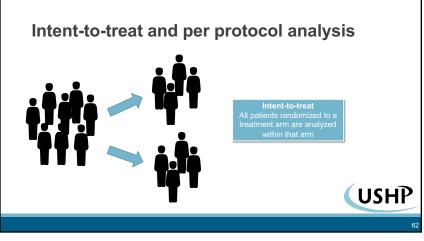


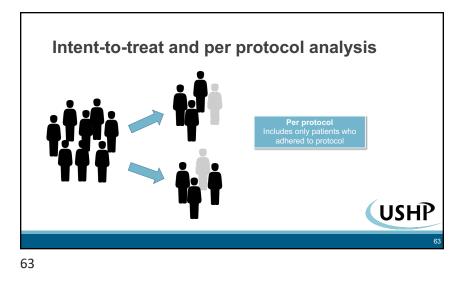


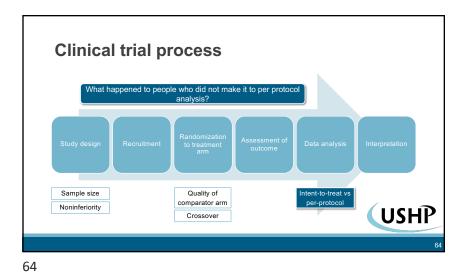




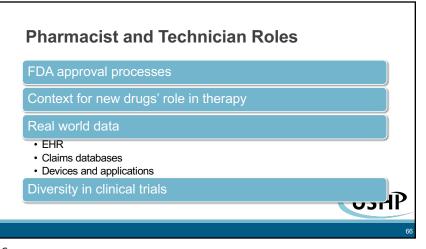




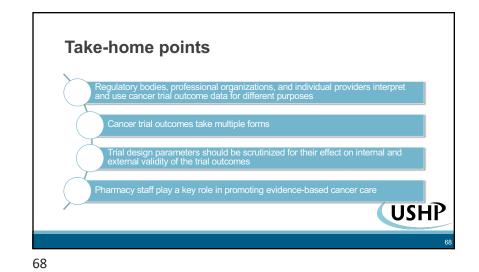












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