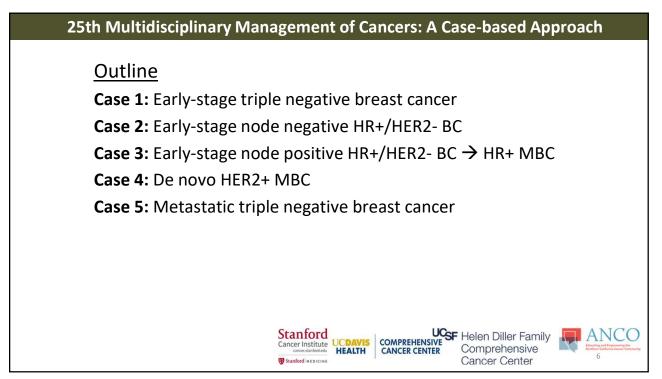


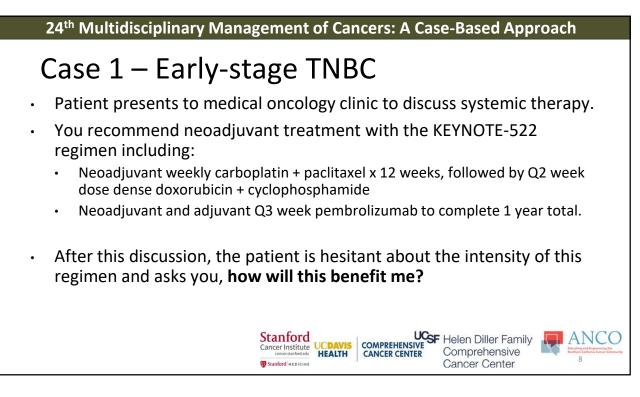


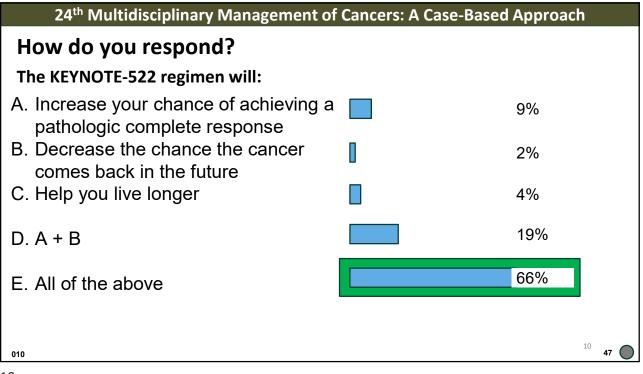
Allison Kurian	Panelist	Grants/Research Support2	Research support for an investigator-initiated study to my institution from Myriad Genetics, 2017-2019.
Amy McMullen	Panelist	Disclosed no relevant financial relationships.	
Catherine Park	Panelist	Disclosed no relevant financial relationships.	
Candice Sauder	Panelist	Disclosed no relevant financial relationships.	
imberly Stone	Panelist	Advisory Board or Panel (no finacanical realtionship)	Petal Surgical and Always Health
Melinda Telli	Panelist	Advisory Board or Panel Consultant Grants/Research Support2	Astra Zeneca, Arivinas, Blueprint Medicines, Daiichi Sankyo, Foresight Diagnostics, Genentech, GSK, Merck, Natera, Novartis, Pfizer DSMC: G1 Therapeutics, Gilead Astra Zeneca, Arivinas, Blueprint Medicines, Genentech, GSK, Hummingbird Bioscience, Merck, OncoSec Medical, Pfizer.

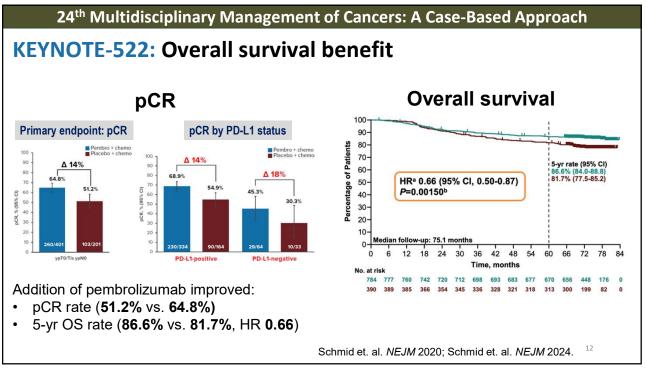
25th Multidisciplinary Management of Cancers: A Case-based Approach

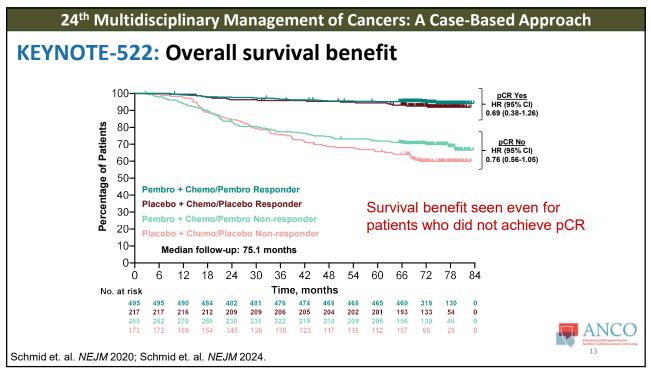


24<sup>th</sup> Multidisciplinary Management of Cancers: A Case-Based Approach Case 1 – Early-stage TNBC 45 yo pre-menopausal female palpates a right breast mass. Ultrasound and mammogram demonstrate a 2.5cm mass with one enlarged axillary LN MRI breast: 3cm right breast mass, level 1 lymphadenopathy Ultrasound-guided core needle biopsy: Grade 3 IDC, ER neg, PR neg, HER2 neg (IHC 1+, FISH non-amplified), Ki67 80%. Axillary LN: Metastatic carcinoma to the LN PET/CT no evidence of metastatic disease Genetic testing: No pathogenic mutations or VUS Cancer Institute Cancer Institute Cancer Centrer Stanford MEDICINE Stanford MEDICINE Stanford MEDICINE Stanford ANCO Stanford MEDICINE Cancer Center

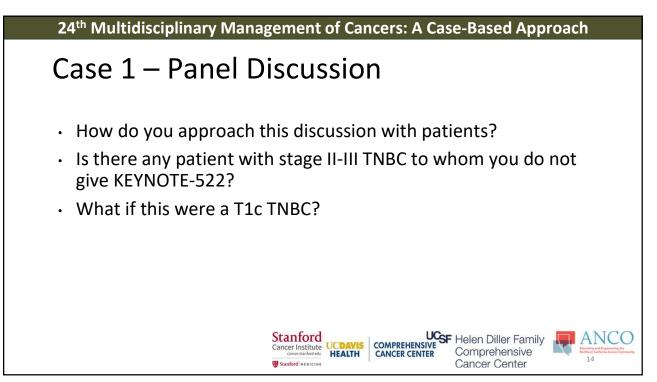


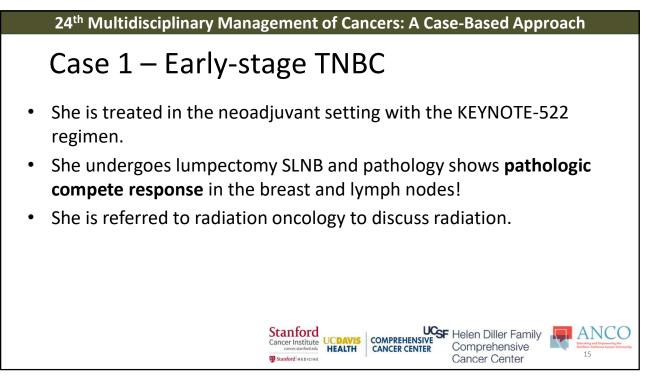


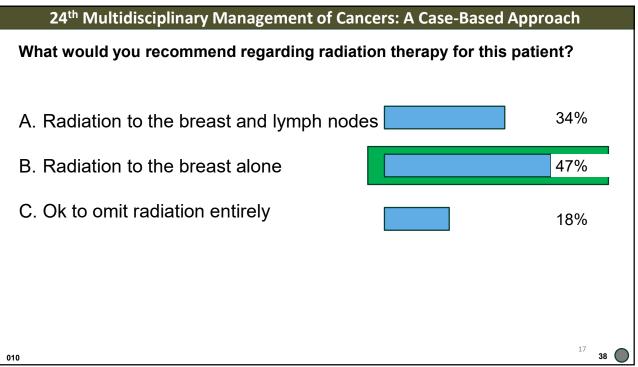


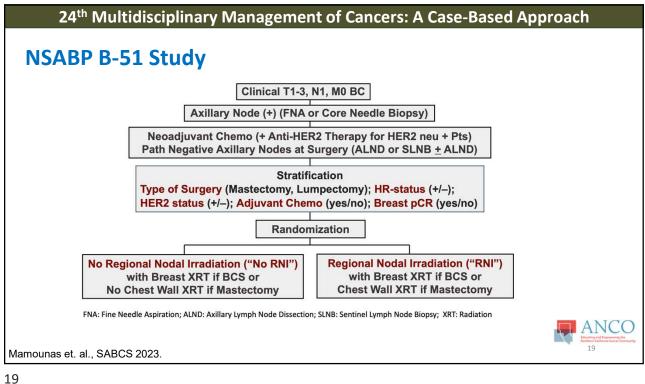




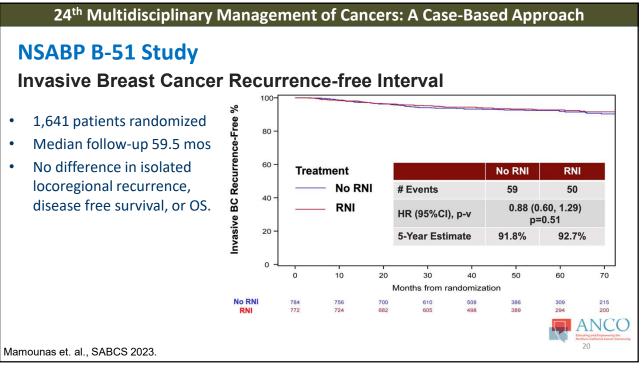


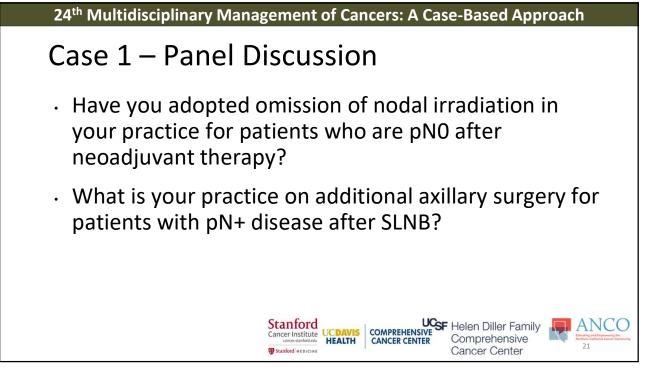


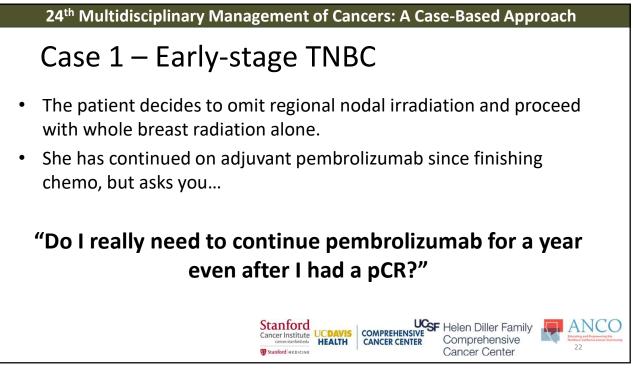


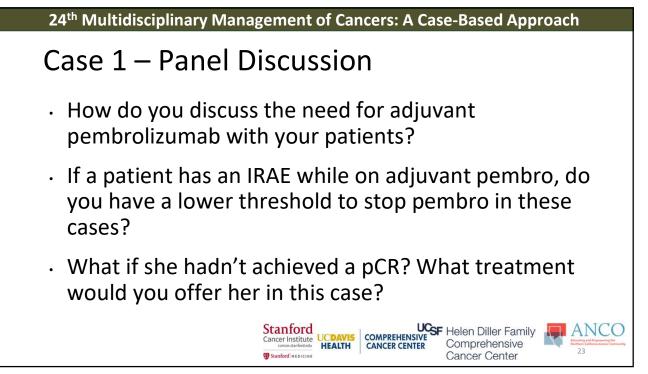


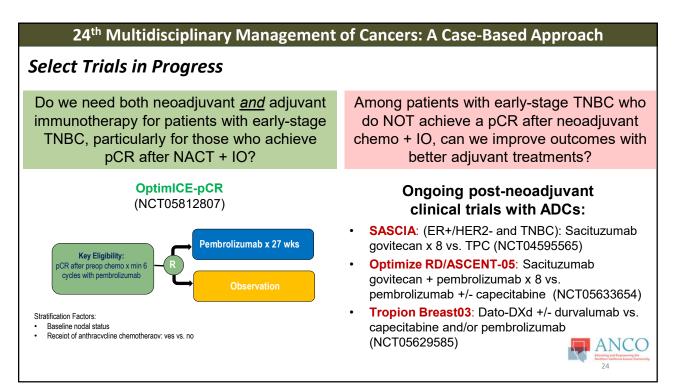




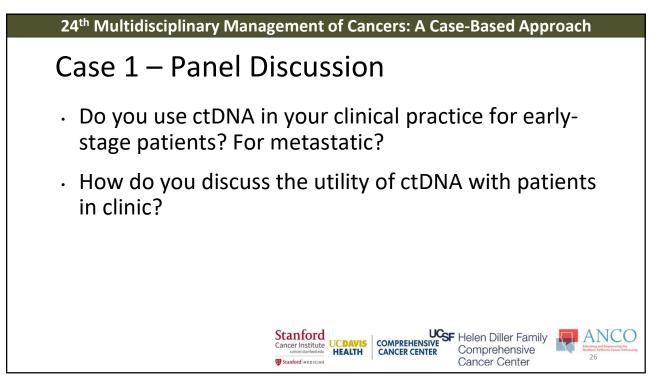


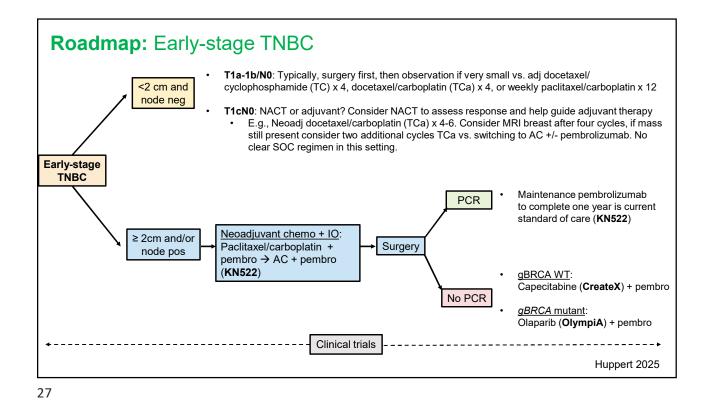




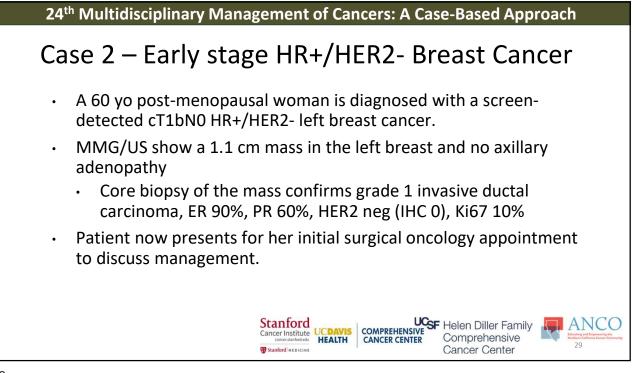


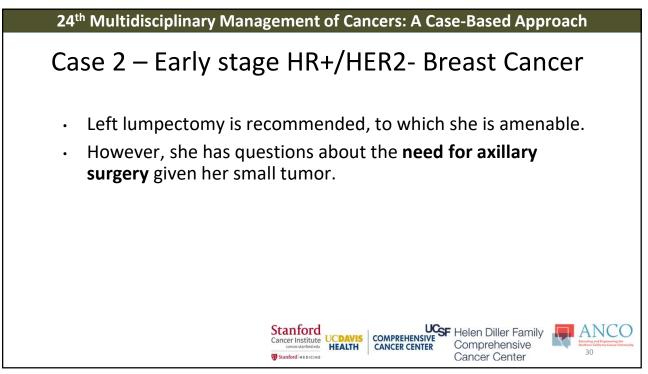
24<sup>th</sup> Multidisciplinary Management of Cancers: A Case-Based Approach
 Case 1 – Early-stage TNBC
 After the patient completes 1 year of pembrolizumab, you discuss that there will be no further systemic therapy.
 You plan to monitor with imaging and clinical exams.
 The patient asks about ctDNA and whether this should be used to monitor her cancer.





24 <sup>th</sup> Multidisciplinary Management of Cancers: A Case-Based Approach
Case 1 – Take Home Points
<ul> <li>For clinical stage II-III TNBC, standard of care neoadjuvant chemo- immunotherapy has shown improved rates of PCR, event-free survival, and overall survival(KEYNOTE-522)</li> </ul>
<ul> <li>For cN+ patients who achieve pCR in the node after neoadjuvant therapy, the NSABP-51 trial showed no difference in invasive breast cancer recurrence free interval at 5 yrs with the omission of nodal irradiation.</li> </ul>
<ul> <li>Currently, we do not have data to omit adjuvant pembrolizumab, but can consider enrolling patients to the ongoing OptimICE-pCR trial.</li> </ul>
<ul> <li>There is insufficient data to utilize ctDNA to guide adjuvant decision- making, so we do not recommend sending it outside the context of a clinical trial at this time.</li> </ul>
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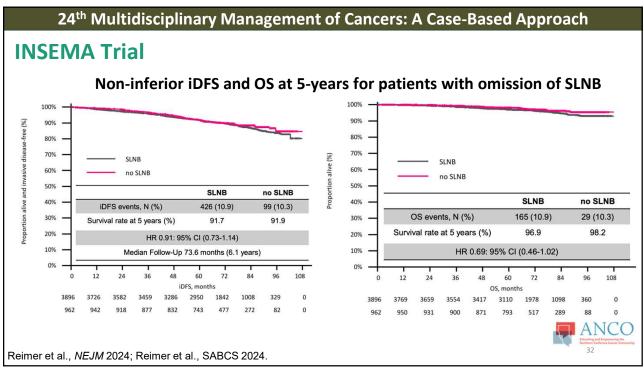


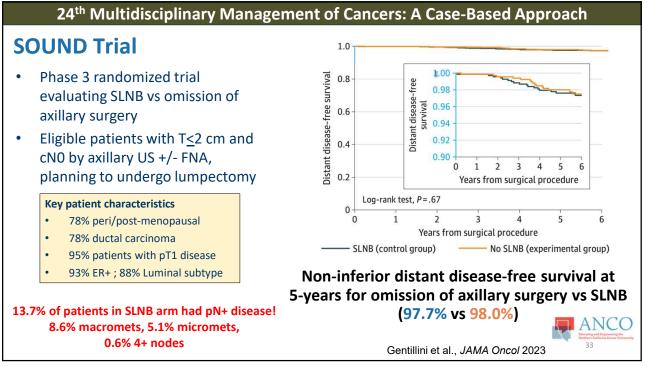


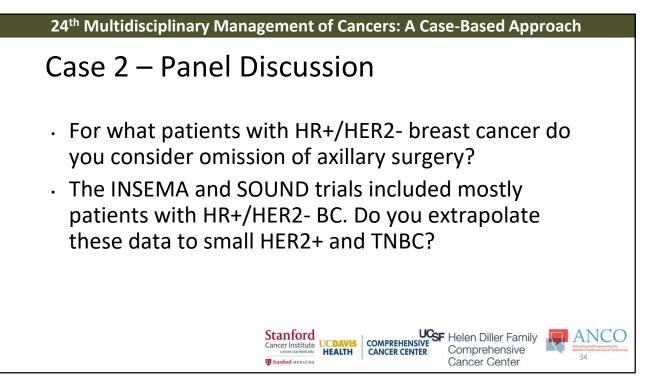
24<sup>th</sup> Multidisciplinary Management of Cancers: A Case-Based Approach

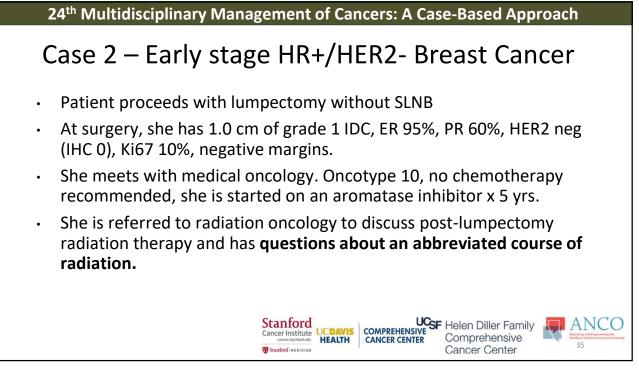
### **INSEMA Trial**

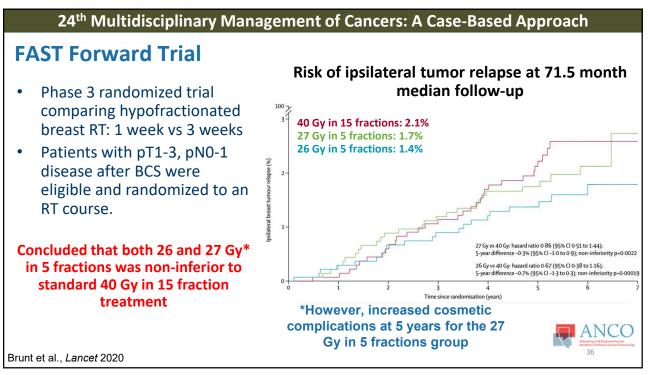
'2 (≤5 cm), cN0, As ned BCS and As	ssessed for eligibility N = 5502	Parameter	Category	No SLNB N=962 N (%)	SLNB N=3896 N (%)
operative irradiation		Age	median (IQR)	62 (53-68)	62 (53-68)
	Rando 1:4		<65 years	583 (60.6)	2387 (61.3)
		_	≥65 years	379 (39.4)	1509 (38.7)
no SLNB	SLNB	Preop. tumor size	≤2 cm	871 (90.5)	3521 (90.4)
n = 962	n = 3896		>2 cm	91 ( 9.5)	375 ( 9.6)
11 - 902	11 - 3030	Grading	G1	372 (38.7)	1463 (37.6)
			G2	552 (57.4)	2294 (58.8)
			G3	38 ( 3.9)	139 ( 3.6)
	NL (0()	Tumor type	NST	726 (75.5)	2828 (72.6)
Nodal Result	N (%)		Invasive/mixed lobular carcinoma	125 (13.0)	491 (12.6)
No SLN detected	38 (1.0%)		other	111 (11.5)	576 (14.8)
SLN negative	3275 (84.1%)	ER/PgR	both negative	15 ( 1.6)	58 ( 1.5)
OLITIOgative	0270 (04.170)	_	ER and/or PgR positive	946 (98.4)	3835 (98.5)
SLN micromet	133 (3.4%)	HER2 status	negative	914 (95.4)	3755 (96.7)
SLN positive (1-3 LN	J) 438 (11.3%)		positive	44 ( 4.6)	130 ( 3.3)
SLN positive ( <u>&gt;</u> 4 LN	8 (0.2%)				ANICO
	, , ,			3	ANCO

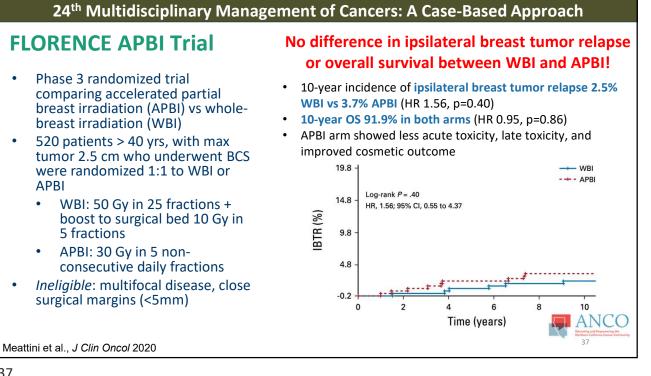




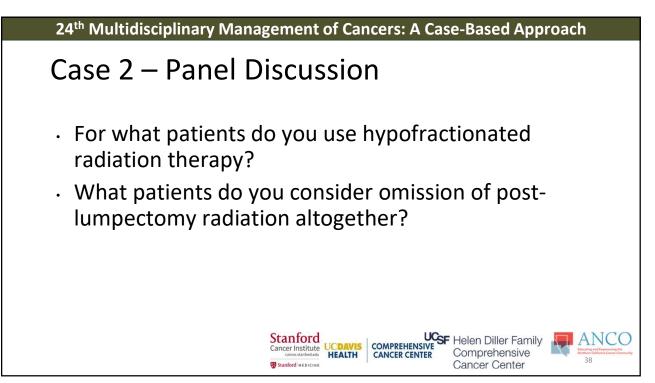


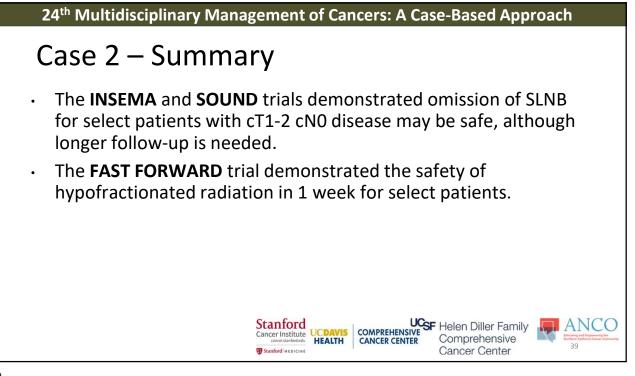


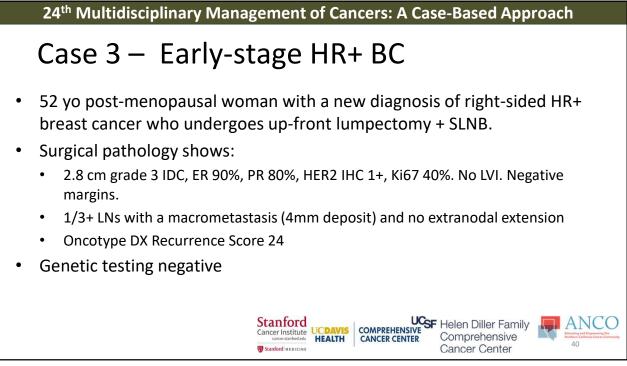




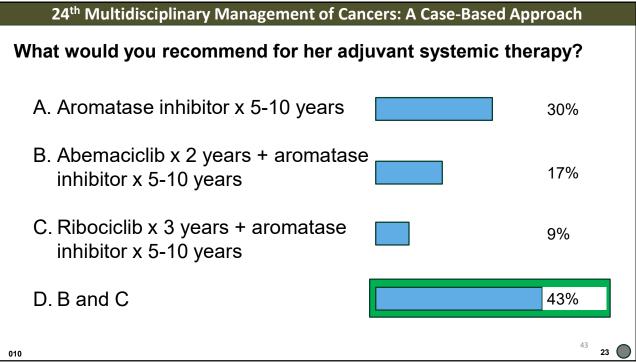


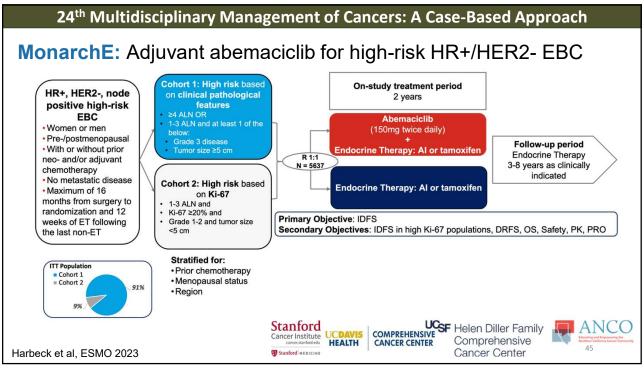




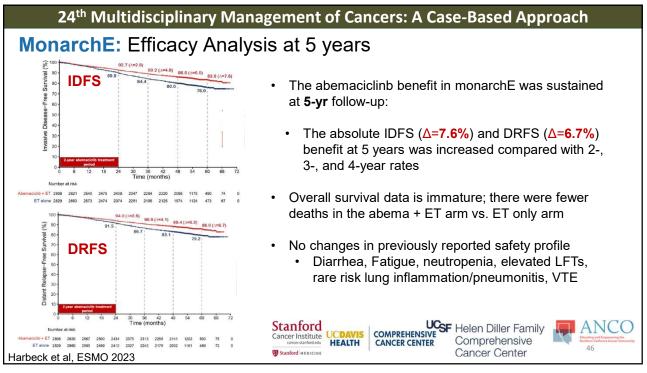


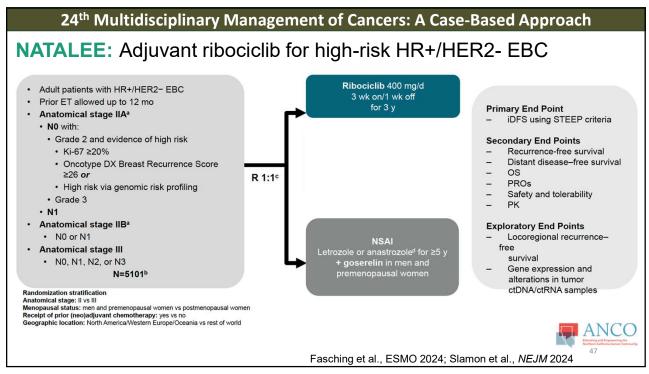
24<sup>th</sup> Multidisciplinary Management of Cancers: A Case-Based Approach
 Case 3 – Early-stage HR+ BC
 She meets with medical oncology, who does not recommend chemotherapy given Oncotype 24 in post-menopausal patient per RxPonder trial.
 She is started on adjuvant letrozole with plans to discuss adding a CDK4/6i after radiation
 She undergoes radiation to the breast and axilla
 She now presents to medical oncology to finalize her decision about whether to add a CDK4/6 inhibitor.

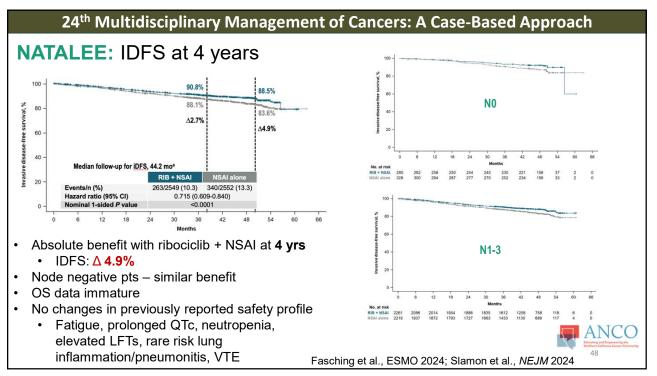




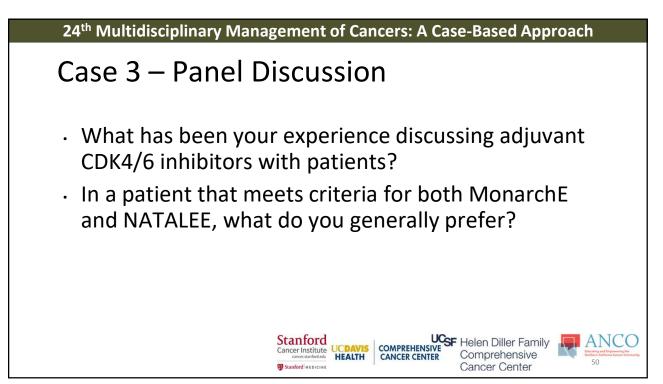


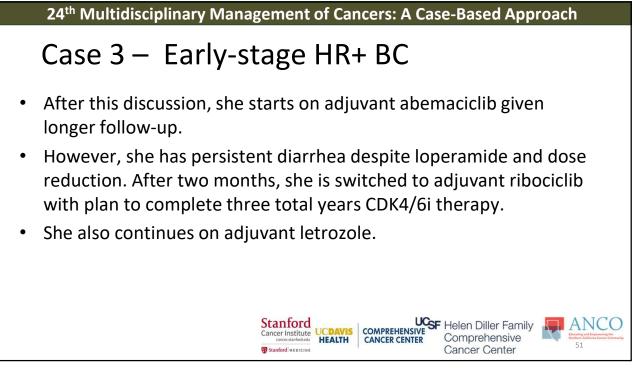


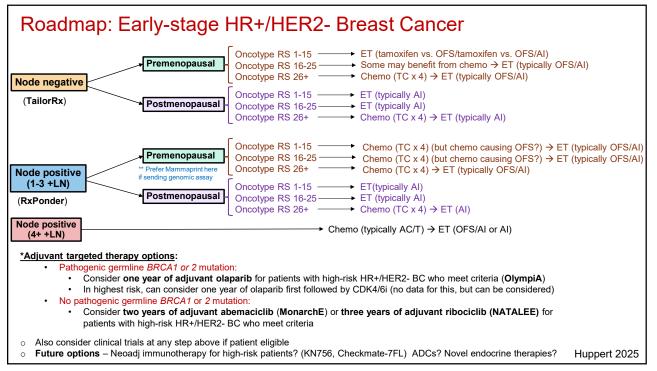




	monarchE	NATALEE
Study drug	abemaciclib	ribociclib
Dosing	150 mg twice daily	400 mg 3 wk on, 1 wk off
Duration of therapy	2 у	З у
ET	anastrozole, letrozole, exemestane, tamoxifen, +/- OFS	anastrozole, letrozole, +/- OFS
Eligible patients	4 + LN or 1 to 3+ LN and ● turnor size ≥ 5 cm or ★ • histologic grade 3 or • Ki-67 ≥ 20%	Any LN+ or tumor > 2 cm and ★ • G3 or • G2 and Ki-67 > 20% or • G2 and high genomic risk (oncotype RS > 26, MammaPrint high)
2-y invasive disease-free survival	∆ 3.5%, 92.2% abemaciclib vs 88.7% ET, HR 0.75, $P = .01^2$	∆ 3.3%, 90.4% ribociclib vs 87.1% ET, HR 0.748, P = .0014 <sup>1</sup>
Proportion who had completed treatment period	707 (12.5%) 2-y treatment period	515 (20%) 3-y treatment period
invasive disease-free survival	IDFS ∆ 7.6% at 5 years	IDFS ∆ 4.9% at 4 years
Proportion who had completed treatment period	100% (2,794 treated, including 510 early discontinuation)	62.8% (1,601 treated, 509 early discontinua
Any grade neutropenia (≥ G3)	44.6% (18.0%) <sup>2</sup>	62.1% (43.8%)1
Liver-related AE ( $\geq$ G3)	ALT: 9.5% (2.1%) <sup>2</sup>	25.4% (8.3%) <sup>1</sup>
Diarrhea (≥ G3)	82.2% (7.6%) <sup>2</sup>	14.2% (0.6%)1
QT prolongation ( $\geq$ G3)	0.0% (0.0%)2	5.3% (1.0%) <sup>1</sup>
ILD pneumonitis (> G3)	2.7% (0.3%)2	1.5% (0.0%) <sup>1</sup>







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24<sup>th</sup> Multidisciplinary Management of Cancers: A Case-Based Approach

# Case 3 – Metastatic HR+ BC

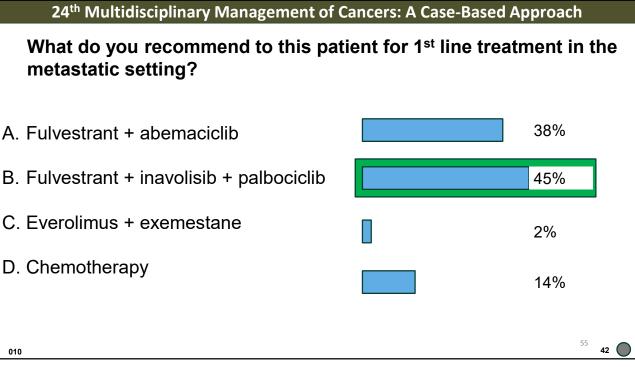
- Unfortunately, after completing 2 years of adjuvant ribociclib and letrozole, she is found to have a concerning rib lesion on CXR ordered by her PCP for rib pain.
- PET-CT shows 2 FDG-avid lesions at T12 and in one left posterior rib, as well as a 3.2 cm hypermetabolic liver lesion.
- CT-guided liver biopsy confirms metastatic breast adenocarcinoma, ER+ (80%), PR+ (70%), HER2 neg (IHC 1+)
- NGS from the liver biopsy is sent and returns with a PIK3CA mutation.

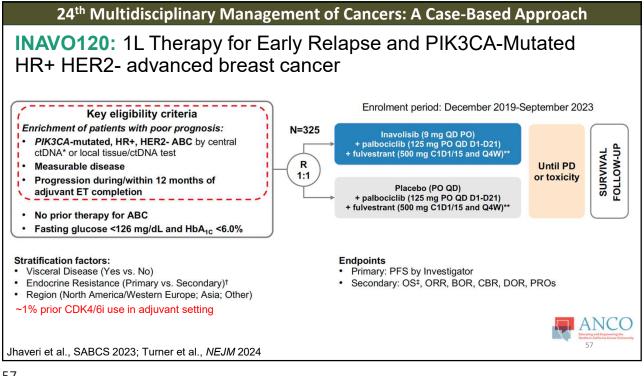
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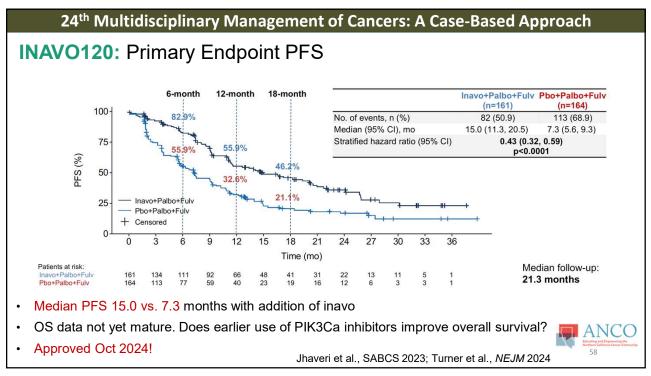
### She is seeing you in med onc clinic to discuss next steps.

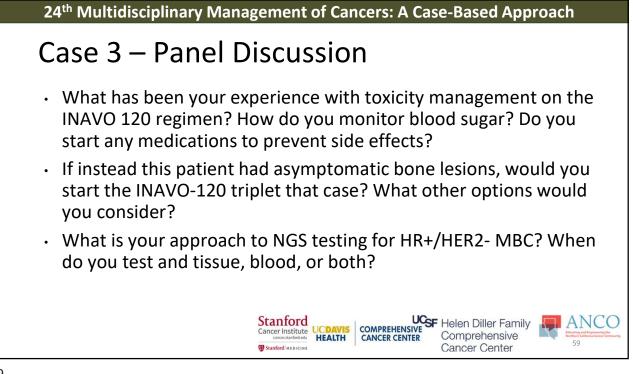
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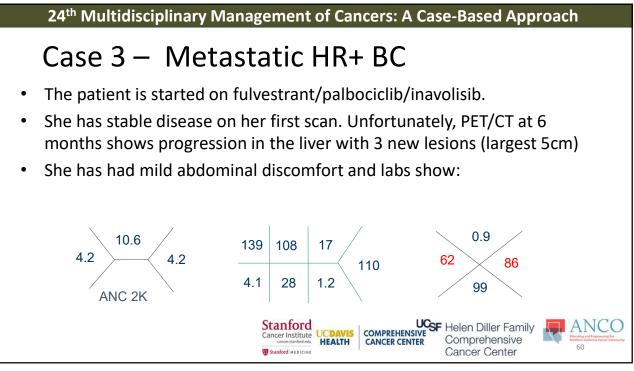


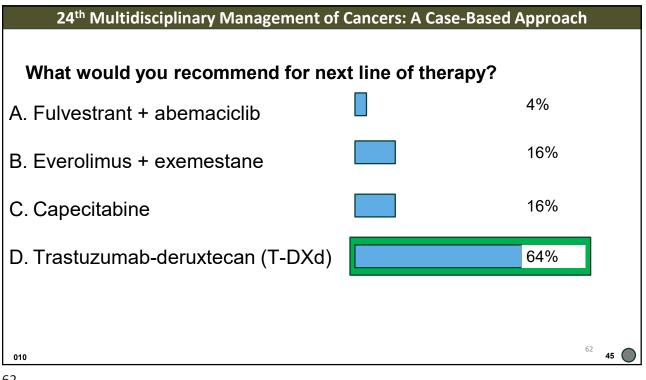


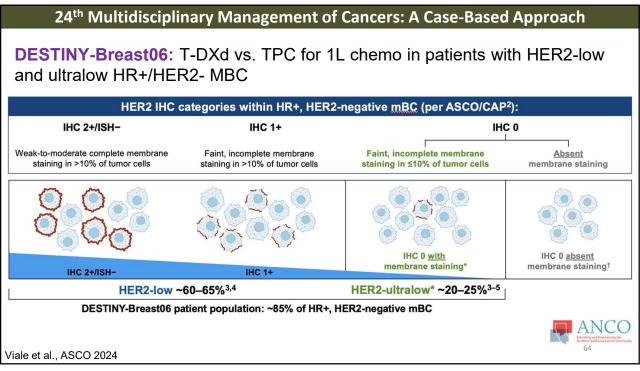


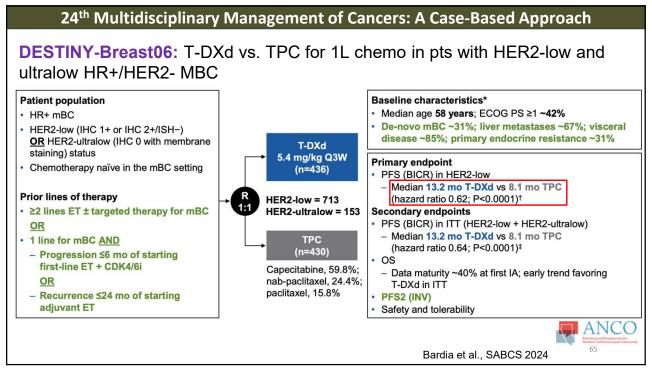


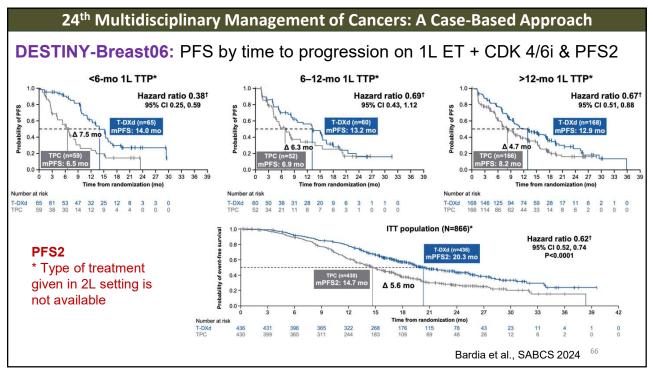


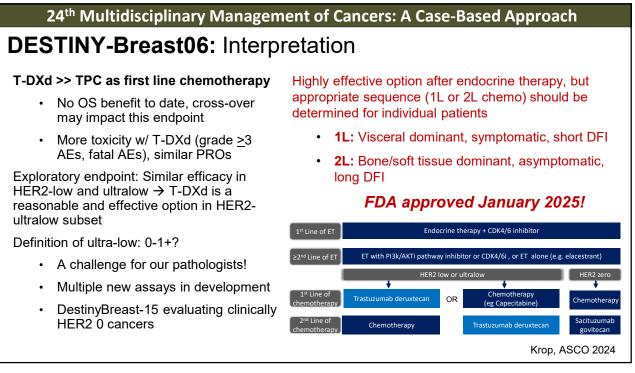


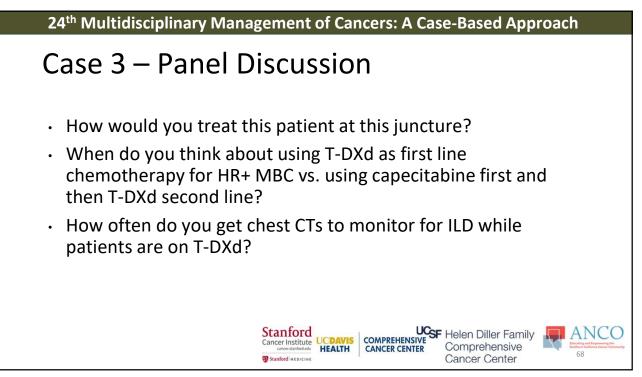




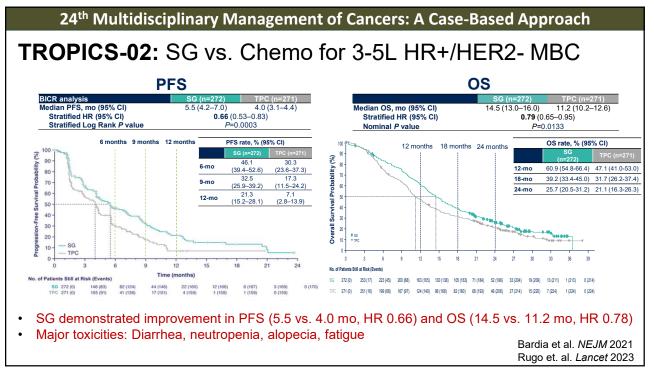


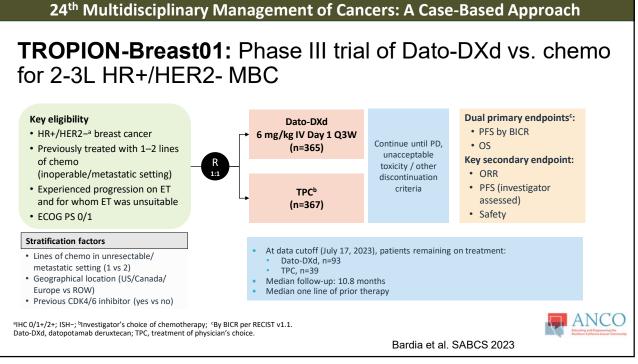




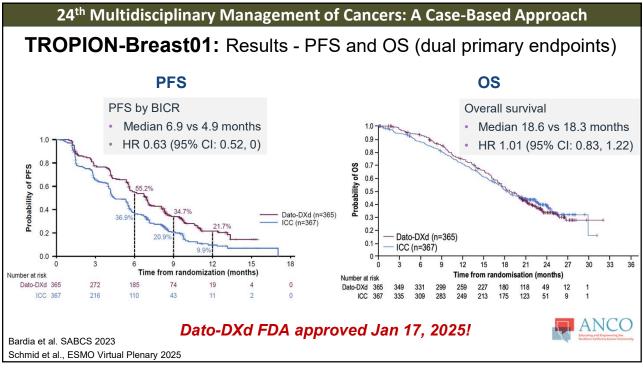


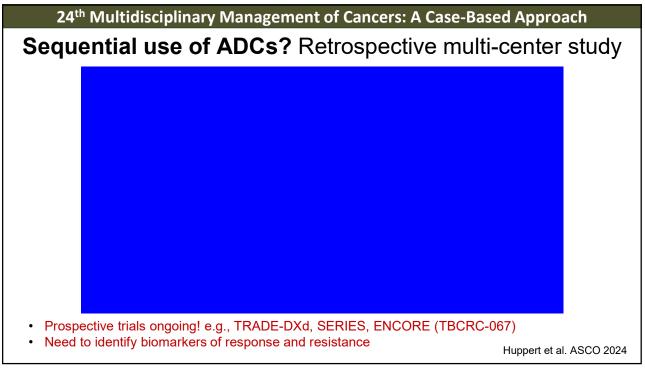
24<sup>th</sup> Multidisciplinary Management of Cancers: A Case-Based Approach Case 3 – Metastatic HR+ BC She is started on T-DXd given symptomatic disease with rapid progression over 6 months. • She tolerates T-DXd well and remains on treatment for 1 year until she has further PD in the liver. She has some abdominal discomfort, but it is mild and she is otherwise asymptomatic, ECOG 1, and her liver function remains normal. She is seeing you in clinic to discuss next line of therapy and you are considering another ADC. UCDAVIS HEALTH COMPREHENSIVE CANCER CENTER Comprehensive Stanford ANCO Cancer Institute Cancer Center Stanford MEDICINE

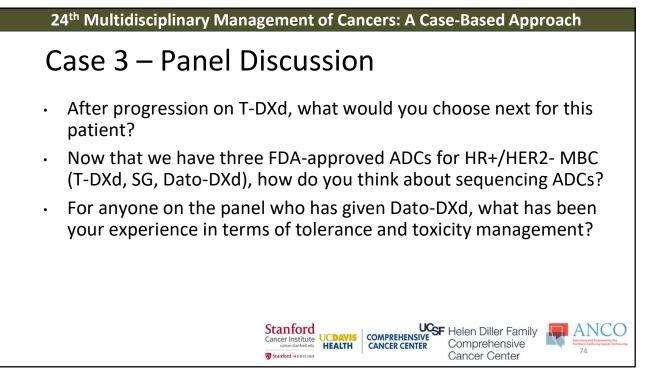


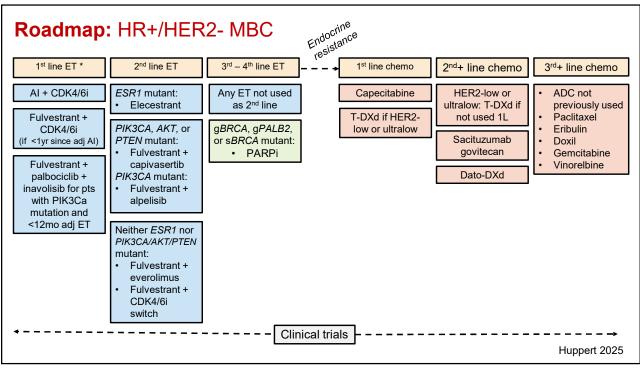












#### 24<sup>th</sup> Multidisciplinary Management of Cancers: A Case-Based Approach

## Case 3 – Summary

- **Ribociclib and abemaciclib** are approved for adjuvant high-risk nodepositive HR+ breast cancer. Longer follow up data available for abemaciclib at this time.
- The **INAVO-120** trial showed efficacy for inavolisib + fulvestrant + palbociclib for 1L therapy for early relapse in PIK3CA-Mutated HR+ HER2-advanced BC.
- T-DXd as 1L chemotherapy for HR+ MBC has shown efficacy in **DESTINY-Breast06**; whether to use it 1L vs. 2L depends on clinical context.

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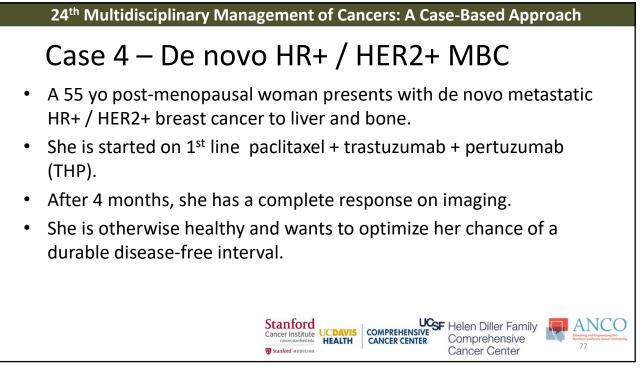
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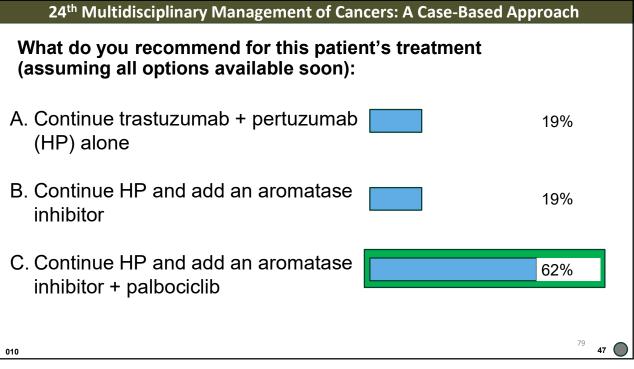
• Three ADCs now approved for HR+/HER2- MBC: **T-DXd**, **SG**, and most recently **Dato-DXd**.

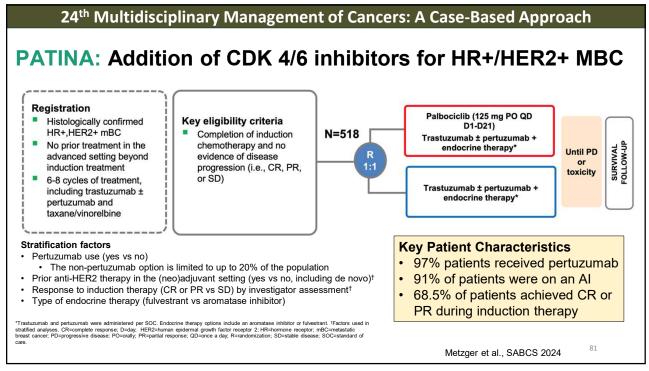
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Cancer Institute

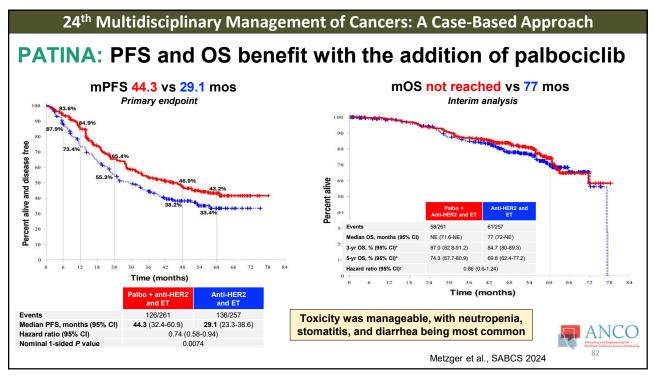
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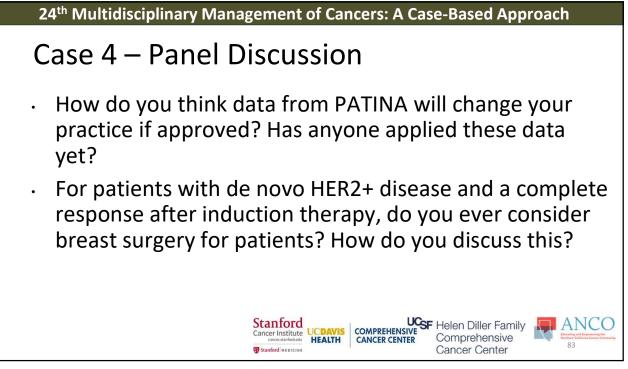


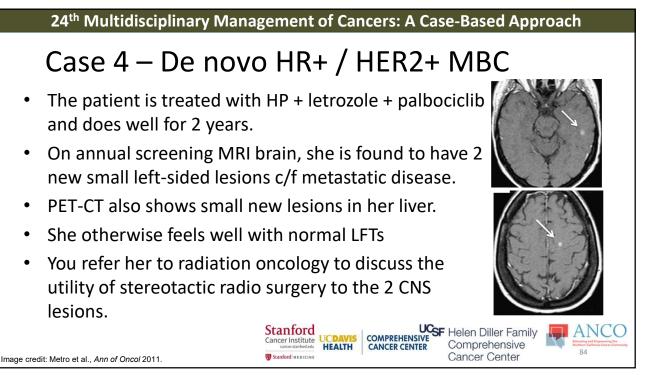


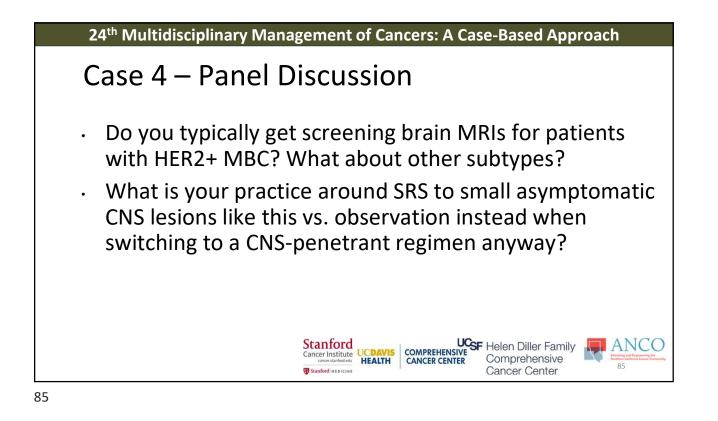


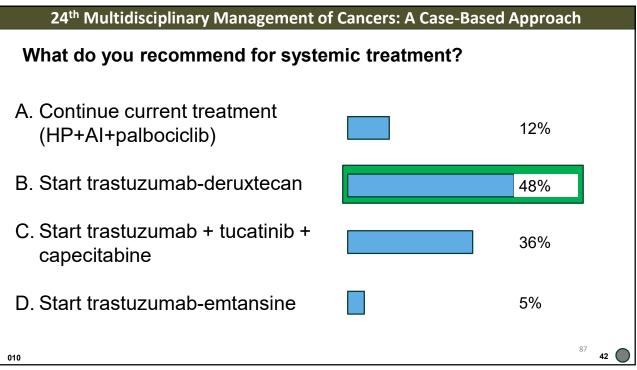


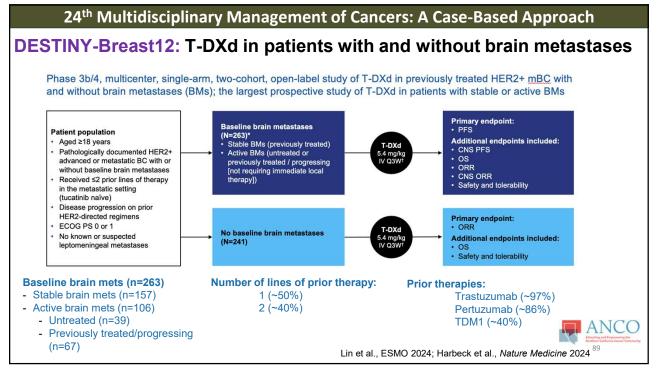


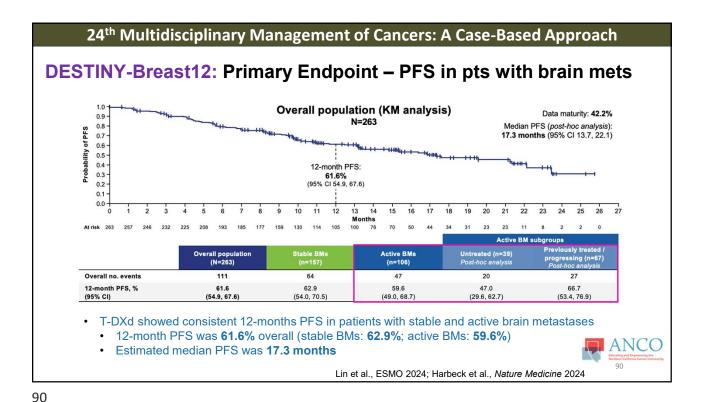


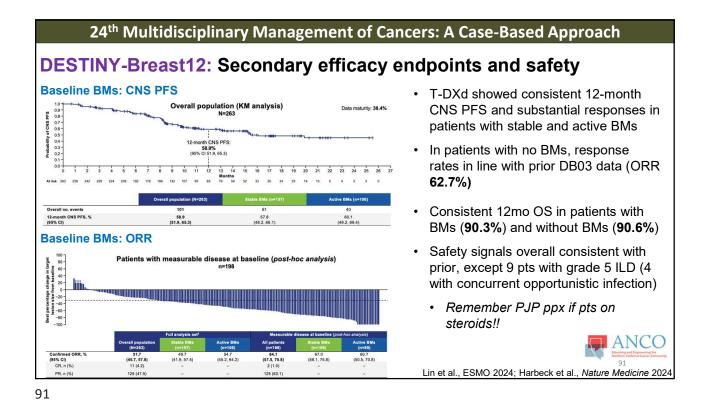




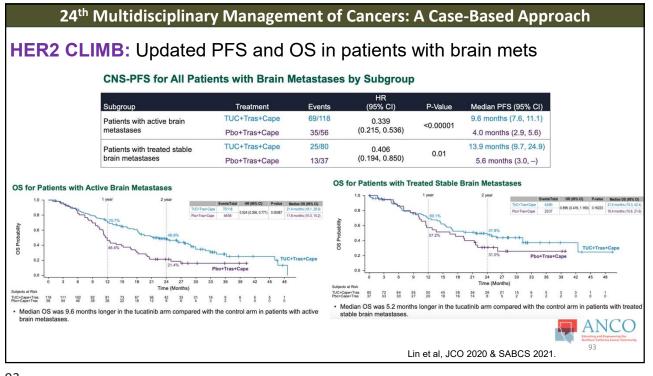




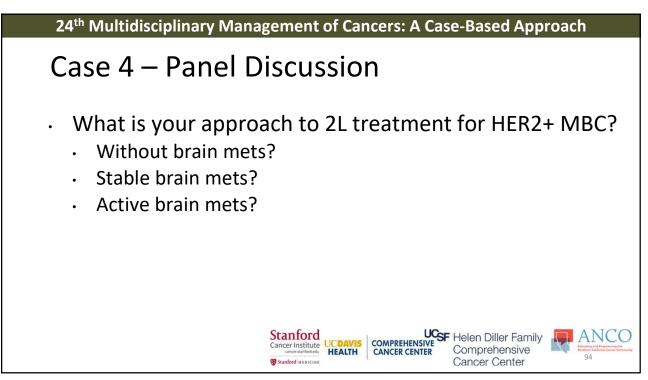




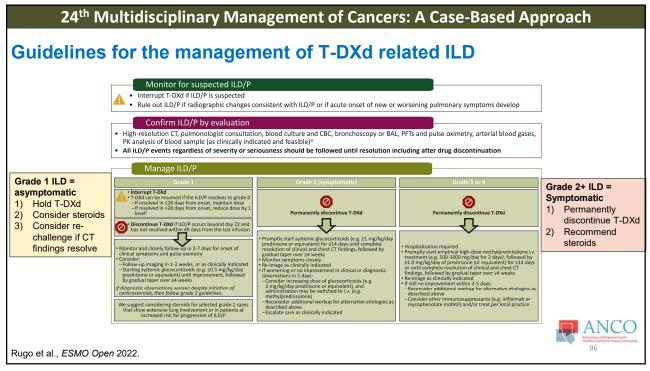
24<sup>th</sup> Multidisciplinary Management of Cancers: A Case-Based Approach HER2 CLIMB: Tucatinib - a potent and selective HER2 TKI Tucatinib + Trastuzumab + Capecitabine (21-day cycle) **Key Eligibility Criteria** N = 410Tucatinib 300 mg PO BID HER2+ metastatic breast cancer Prior treatment with trastuzumab, Trastuzumab 6 mg/kg Q3W (loading dose 8 mg/kg C1D1) pertuzumab, and T-DM1 ECOG performance status 0 or 1 Capecitabine 1000 mg/m<sup>2</sup> PO BID (days 1-14) R\* (2:1) Brain MRI at baseline Previously treated stable brain metastases Placebo + Trastuzumab + Capecitabine Untreated brain metastases not needing (21-day cycle) immediate local therapy Previously treated progressing brain Placebo metastases not needing immediate local therapy N = 202 Trastuzumab 6 mg/kg Q3W (loading dose 8 mg/kg C1D1) No evidence of brain metastases Capecitabine 1000 mg/m<sup>2</sup> PO BID (days 1-14) ANCO \*Stratification factors: presence of brain metastases (yes/no), ECOG status (0 or 1), and region (US or Canada or rest of world). 92 Murthy et al., NEJM 2024



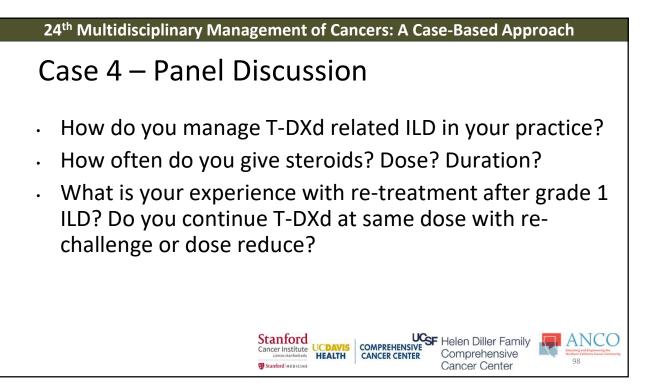


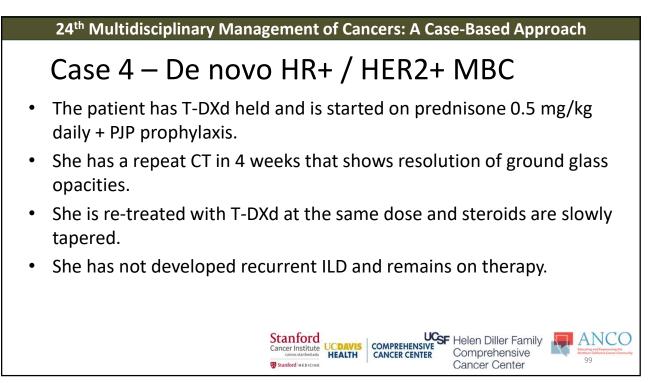


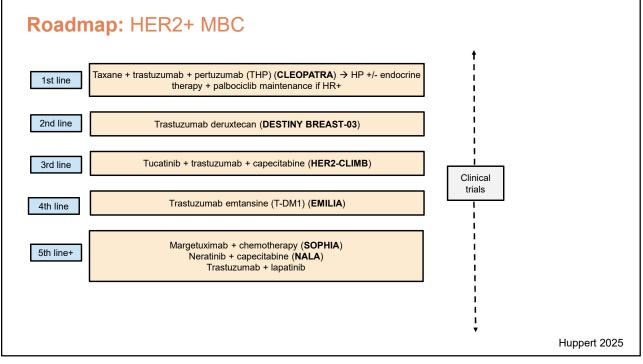
24<sup>th</sup> Multidisciplinary Management of Cancers: A Case-Based Approach
 Case 4 – De novo HR+ / HER2+ MBC
 She is started on T-DXd and tolerates treatment well, aside from nausea that is controlled with triplet IV therapy + addition of olanzapine.
 However, after 6 months on treatment, she is found to have ground glass opacities on a routine CT chest.
 She is asymptomatic and denies shortness of breath or cough. Normal O2 sat in clinic.
 She is diagnosed with T-DXd related Grade 1 interstitial lung disease.



24<sup>th</sup> Multidisciplinary Management of Cancers: A Case-Based Approach Retrospective data on re-challenge after grade 1 ILD Similar findings seen in real-world studies **Pooled data from DESTINY-Breast** French retrospective cohort study<sup>3</sup> trials<sup>1</sup> (n=2145) Median re-treatment duration not reported 9.0% rate of any grade ILD (n=193) 33% rate of recurrent ILD (grades not reported) 45 patients retreated; 50% received steroids 33% rate of recurrent ILD, all grade 1-2 UCSF retrospective cohort study<sup>2</sup> Median re-treatment duration 105 days Median time to recurrent ILD was 64 days 26% rate of recurrent ILD, all grade 1-2 (range 22-391) T-DXd retreatment Re-treatment with T-DXd after (N = 45)grade 1 ILD is safe with low rates Dose level of T-DXd retreatment Same dose, n (%) 31 (68.9) of recurrent ILD. Reduced dose, n (%) 14 (31.1) Patients can have ongoing clinical Median time to retreatment after ILD1 onset 28 benefit after re-treatment. (8-48) (range), days Median retreatment cycles (range) 5.0 (1-37) Patients with ILD2 (n = 15) 5.0 (2-23) Patients without ILD2 (n = 30) 4.5 (1-37) ANCO Rugo et al., ESMO Breast 2024 Median retreatment duration (range), days 85.0 (1-848) Canellas et al. ESMO 2024 Patients with ILD2 (n = 15) 85.0 (22-648) 2 Natsuhara et al., ESMO 2024 3. Patients without ILD2 (n = 30) 82.5 (1-848)







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24<sup>th</sup> Multidisciplinary Management of Cancers: A Case-Based Approach

## Case 4 – Summary

- The **PATINA** trial showed PFS and OS benefit to adding palbociclib to HP + endocrine therapy after induction chemo for HR+/HER2+ MBC; though, not yet FDA-approved.
- DESTINY-Breast12 demonstrated consistent benefit for patients with both stable and active brain metastases.
- Close monitoring is required for T-DXd related ILD. If patients develop asymptomatic grade 1 ILD, they can be re-treated with T-DXd if imaging findings resolve. Rechallenge not recommended for G2+ ILD.

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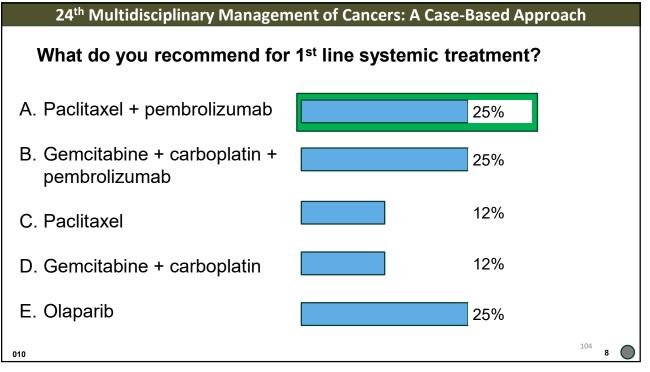
24<sup>th</sup> Multidisciplinary Management of Cancers: A Case-Based Approach

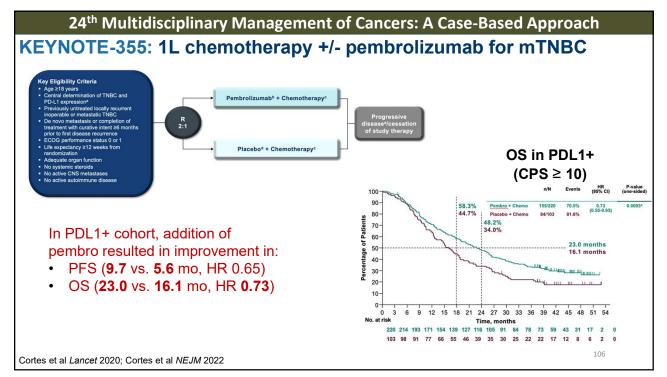
## Case 5 – Metastatic TNBC

- A 58 yo post-menopausal woman presents to her PCP with new back pain that has been present for three months and is worse over the last 2 weeks.
  - X-ray of her lumbar spine demonstrates a suspected lytic bone lesion
  - PET-CT demonstrates diffuse bone lesions and a 1.9 cm lung lesion.
- CT-guided biopsy of lung confirms breast adenocarcinoma that is ER neg, PR neg, HER2 neg (IHC 1+) with PD-L1 CPS 15.
- Germline genetic testing shows no pathogenic mutations
- She is referred to radiation oncology for palliative radiation to the spine lesion, and presents to medical oncology to discuss systemic treatment. ECOG 1.

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24<sup>th</sup> Multidisciplinary Management of Cancers: A Case-Based Approach
 Case 5 – Metastatic TNBC
 She is treated with paclitaxel + pembrolizumab.
 She is stable for 9 months, until staging PET/CT demonstrates a new 2.1 cm liver lesion.
 She presents to your clinic to discuss next line therapy.
 You recommend sacituzumab-govitecan and discuss the risks/benefits with her.

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