

Case #4
Management of Recurrent Triple-Negative Breast Cancer: What's the Best Approach?

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Clinical Case Summary

- 44-year-old female
- Triple-negative breast cancer
- Recurrence of disease in lung and liver 12 months after completion of adjuvant anthracycline and taxane chemotherapy
- Symptomatic
- ECOG PS: 1
- No comorbid illnesses

Part I

Is this patient anthracycline/taxane resistant?

1. Yes

2. No

Part II

Which of the following systemic therapy options would you choose for this patient at the time of progression?

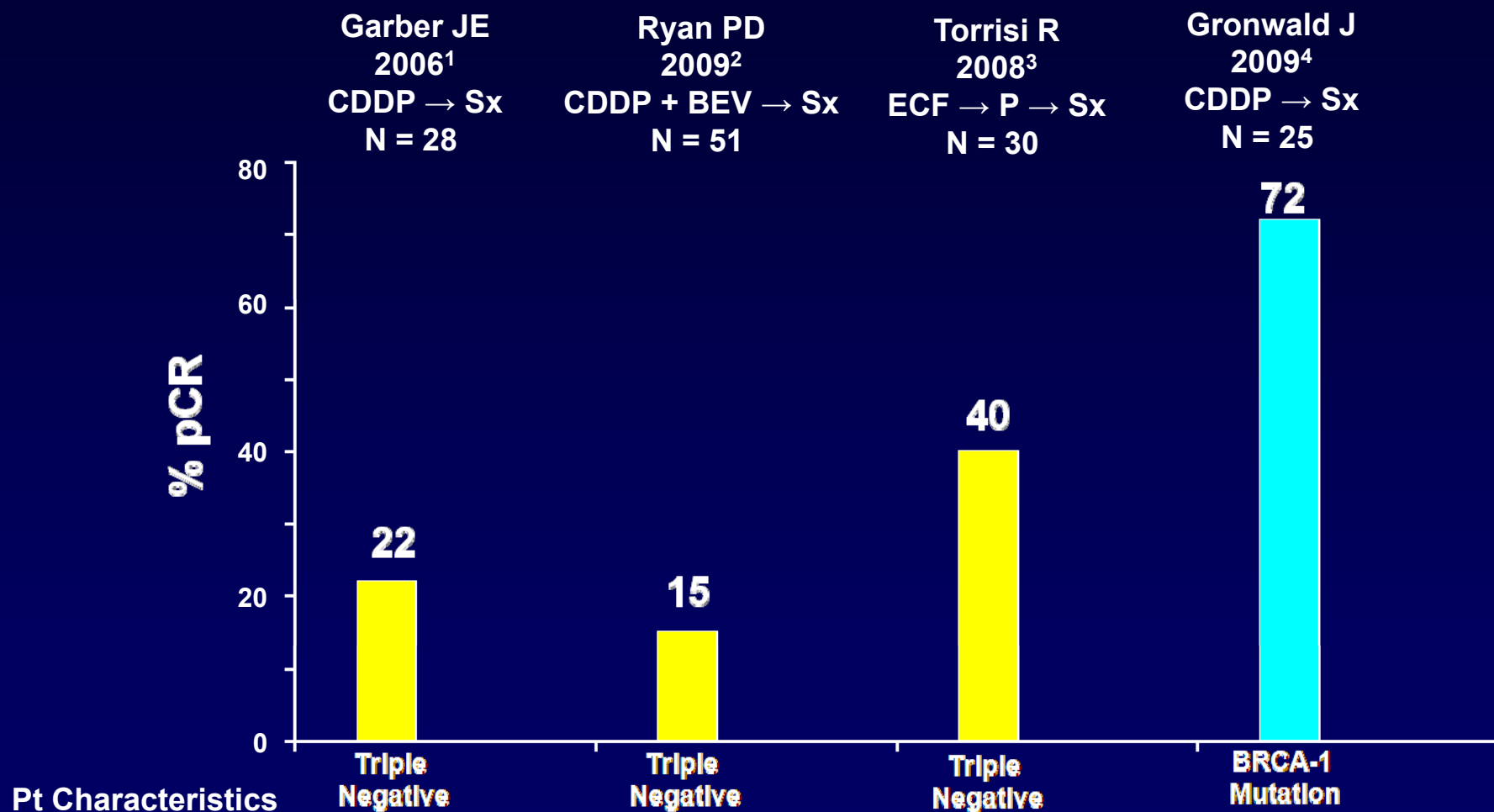
- 1. Combination chemotherapy (eg, capecitabine + docetaxel, gemcitabine + paclitaxel)**
- 2. Single-agent chemotherapy**
- 3. Platinum-based chemotherapy**
- 4. Chemotherapy + bevacizumab**
- 5. Clinical trial with PARP inhibitor and chemotherapy**

Chemotherapy for Metastatic Breast Cancer (MBC)

- **Sequential single agents preferred for most patients**
 - Variety of options—no single ‘gold standard’
 - Limits toxicity
 - Supported by clinical trial data
- **Combinations appropriate for rapidly progressive symptomatic disease**
 - Reduction in symptoms outweighs potential toxicity
 - May not be candidate for subsequent therapy if continued progression

Why Platinum Based Chemotherapy?

Neoadjuvant Chemotherapy with Platinum-Compounds: Phase II Trials



CDDP, cisplatin; Sx, surgery; BEV, bevacizumab; ECF, epirubicin-cisplatin-5FU; P, paclitaxel; pCR, pathologic complete response

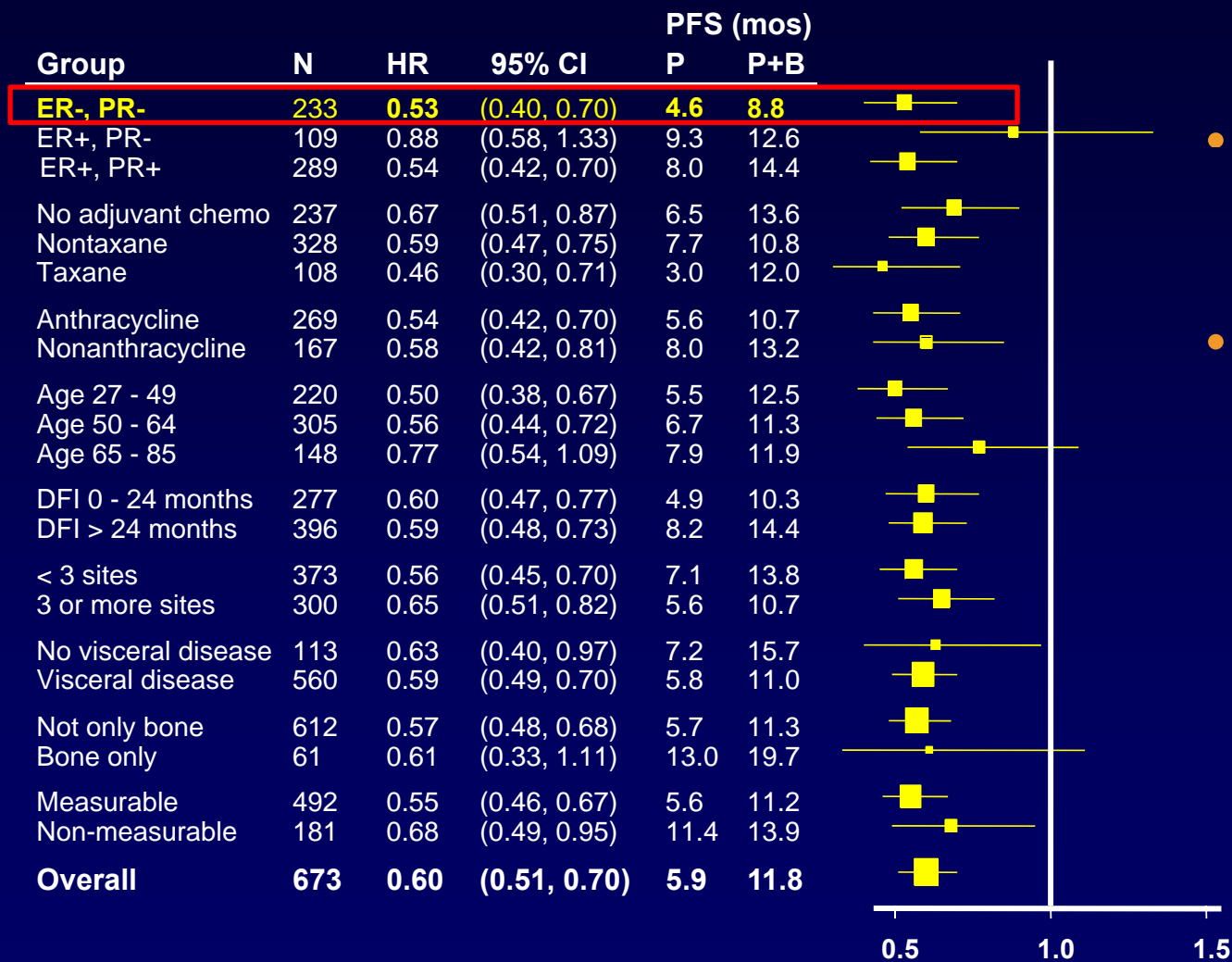
1. Garber JE, et al. *Breast Cancer Res Treat.* 2006;100(Suppl 1): Abstract 3074. 2. Ryan PD, et al. *J Clin Oncol.* 2009;27(15S): Abstract 551. 3. Torrisi R, et al. *Cancer Chemother Pharmacol.* 2008;62(4):667-672. 4. Gronwald J, et al. *J Clin Oncol.* 2009;27(15S): Abstract 502.

Anti-VEGF Therapy (Bevacizumab) in MBC

	E2100 ¹		AVADO ²		RIBBON-1: Capecitabine ³		RIBBON-1: A/T ³	
Placebo (PI) controlled	No		Yes		Yes		Yes	
Chemotherapy	Weekly paclitaxel (P)		q 3 wk docetaxel (D)		Capecitabine (C)		q 3 wk docetaxel/nabPAC/FAC/EC/FEC	
Dose of bevacizumab (B)	10 mg/kg q 2 wk		7.5 or 15 mg/kg q 3 wk		15 mg/kg q 3 wk		15 mg/kg q 3 wk	
	P	P+B	D+PI	D+B	C+PI	C+B	A/T+PI	A/T+B
ORR	25%	49%	46%	55%/64%	24%	35%	38%	51%
PFS, months	5.9	11.8	8.1	9.0/10.0	5.7	8.6	8.0	9.2
HR	0.60 P<.0001		0.80 (7.5 mg) P= .0450 0.67 (15 mg) P= .0002		0.69 P= .0002		0.64 P<.0001	
OS, months	25.2	26.7	31.9	30.8/30.2	21.2	29	23.8	25.2
HR	0.88 P= .16		1.05 (7.5 mg) P= .72 1.03 (15 mg) P= .85		0.85 P= .27		1.03 P= .83	

1. Miller K, et al. *N Eng J Med*. 2007;357(26):2666-2676. 2. Miles DW, et al. *Cancer Res*. 2009;69(Suppl):Abstract 41.
3. Robert NJ, et al. *J Clin Oncol*. 2009;27(15S): Abstract 1005.

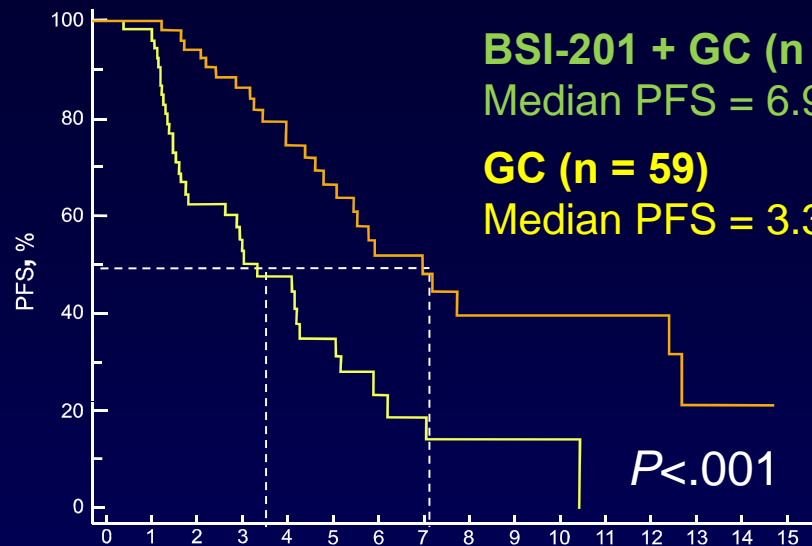
Antiangiogenic Benefit in Triple Negative



- E2100: ER/PR- (HER2-) 47% improved DFS
- AVADO—similar findings

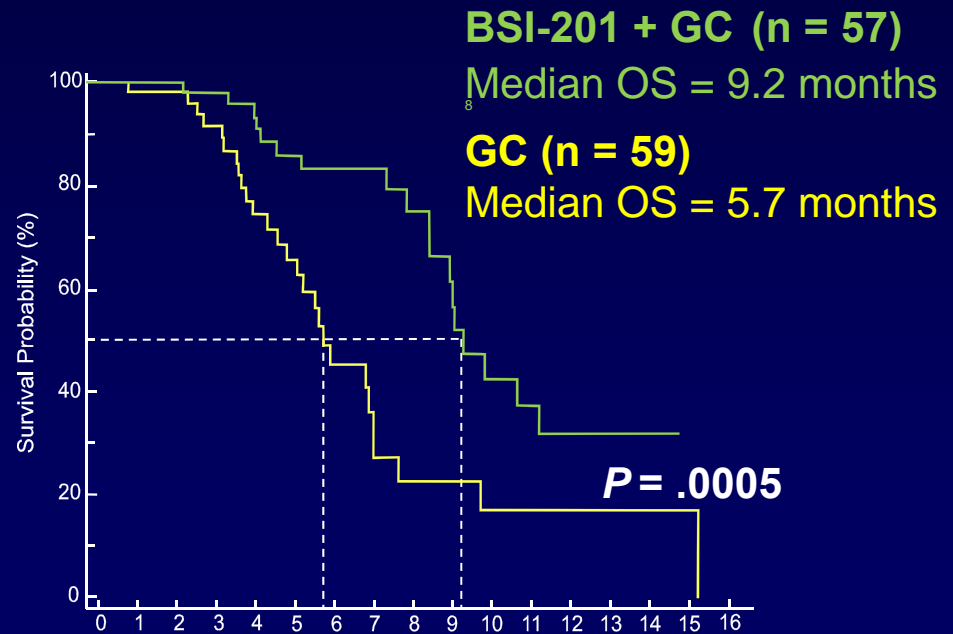
Miller KD, et al. *N Engl J Med.* 2007;357(26):2666-2676.
 Burstein HJ, et al. *J Clin Oncol.* 2008;26(11):1810-1816.

Phase II Gem/Carbo + IV PARP Inhibitor BSI-201 in Triple-Negative Breast Cancer (TNBC)



PFS

PHASE III TRIAL OF THIS APPROACH – RESULTS LIKELY IN 2010



OS

My Opinion

A clinical trial is the best answer...

Of the other choices, I would favor either combination chemotherapy, or chemotherapy with bevacizumab.