Table. S3. Preliminary analysis of combining minocycline and irinotecan regimen indicates significant cost savings compared to other irinotecan-based combination therapies.

	Minocycline + Irinotecan		Bevacizumab + Irinotecan		Etoposide + Irinotecan	
Drug	Minocycline	Irinotecan	Bevacizumab	Irinotecan	Etoposide	Irinotecan
Standard dose	100 mg/day	218 mg ^c	375 mg ^g	105 mg	50 mg ⁱ	105 mg
Cost per dose	\$0.50 a	\$133 ^d	\$2,700 a	\$66	\$12 a	\$66
# of treatments	180 b	24 ^e	12 ^g	18	168 ^j	16
Total cost of drug	\$90	\$3,192	\$32,400 h	\$1,188 h	\$2,016 k	\$1,056 k
Avg. cost of admin.	\$0	\$70 f	\$70		\$70	
Total cost of	\$0	\$420	\$420		\$580	
admin.						
Rate of grade 3-4						
side effects (%)*						
Neutropenia	0	31.4	11.5		52.4	
Thrombocytopenia	0	1.7	3.8		2.4	
Febrile Neutropenia	0	5.8			7.1	
Cramp/nausea	0	16.1	3.8		11.9	
Diarrhea	0	31	3.8		4.8	
Vomiting	0	12.1	3.8		7.1	
Cost of side effect	\$0	\$3,012	\$1,00	66	\$4,	129
management*						
Total cost of therapy	\$6,702		\$35,074		\$7,781	

Doses were calculated for a 1.75 m² patient. Unused portions of chemotherapy vials were discarded in calculations. Cost for administering chemo IV was conservatively fixed at \$70 per cycle. Minocycline was assumed to be taken orally at a dose of 100 mg/day; however, dose could be escalated to 200 mg/day while maintaining safety and low cost. Broken down costs were calculated for minocycline only, total cost was calculated as full dose Irinotecan + cost for minocycline over a full chemotherapy schedule. Irinotecan monotherapy was calculated for 125 mg/m², 4 doses per cycle for 6 cycles. Bevacizumab and Etoposide combination regiments both used 60 mg/m² for up to 6 cycles.

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^{*}See toxicity related costs file (Table S4)

^a Online pharmacy price (2017)

^b One per day for 6 months

^c FDA product label—125 mg/m² for 1.75 m² person

^d 6 vials of 40 mg, \$22/vial

^e 4 treatments/cycle (FDA label) for 6 cycles

f Table 1; Daniel Ruiz-Sánchez *et al.* Cost-effectiveness analysis of the bevacizumab-irinotecan regimen in the treatment of primary glioblastoma multiforme recurrences. Oncol Lett. 2016 Sep; 12(3): 1935–1940.

^g 5 mg/kg, 75 kg person – Ying Liu *et al.* Low-dose-intensity bevacizumab with weekly irinotecan for platinum- and taxanes-resistant epithelial ovarian cancer. Cancer Chemother Pharmacol. 2015; 75(3): 645–651.

h Follow same regimen as (g)—two Bevacizumab treatments per cycle, 3 Irinotecan treatments of 60 mg/m² per cycle (1.75 m² person, 40 mg/vial, \$22/vial), for up to 6 cycles (\$32,400 from Bevacizumab alone)

¹ Shoji T *et al.* Phase II clinical study of the combination chemotherapy regimen of irinotecan plus oral etoposide for the treatment of recurrent ovarian cancer. Int J Gynecol Cancer. 2011 Jan;21(1):44-50.

^j Schedule from (i)—one dose on days 1-21, 28 day cycles, average of 8 cycles

k Same regimen as (i)—follow etoposide schedule, 2 irinotecan treatments of 60 mg/m² per cycle (1.75 m² person, 40 mg/vial, \$22/vial) for 8 cycles (\$2,016 from etoposide alone)