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Richard Durrett*, Box 90320, Durham, NC 27708-0320, and **Kaveh Danesh, Laura Havrilesky** and **Evan Myers**. *Branching Process Models of Ovarian Cancer Progression*. Preliminary report.

Ovarian cancer is the fifth leading cause of cancer death among women in the United States with 21,800 new cases and 13,850 deaths in 2010. 75% of women have metastasized disease at the time of diagnosis and five year survival rate of less than 30%. In order to evaluate the effectiveness of proposed screening strategies in silico we have developed a multitype branching process model of ovarian cancer and calibrated the model by comparing its predictions with published studies and the SEER data base. (Received September 07, 2011)