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Erica Mandell, DO. I am an Assistant Professor in the Department of Pediatrics, Section of Neonatology at the University of Colorado. My research interests are in fetal lung development and postnatal therapies for bronchopulmonary dysplasia (BPD). During my fellowship, I studied the effects of vitamin D on lung growth and function in a rodent model of chorioamnionitis induced by intra-amniotic endotoxin. My work was the first to demonstrate a striking protective effect of early vitamin D treatment in an animal model of BPD after antenatal stress, and to further show that at least part of these effects are mediated through enhanced or preserved pro-angiogenic signaling mechanisms after lung injury. My current work is focused on vitamin D regulation of vascular development in the fetal lung and how antenatal stress, especially in the setting of preterm birth, alters vitamin D signaling and contributes to the pathogenesis of BPD.