Trauma is the leading cause of non-obstetric death in the pregnant patient. Significant maternal injury or shock can raise the risk of fetal mortality to as high as 60-80%. In this patient, seen as a level I or II trauma activation, I am concerned that the trauma may have caused significant, potentially life-threatening maternal injury. CT scan imaging of this patient is necessary to evaluate for these injuries. According to the American College of Radiology Practice Parameter for imaging pregnant patients, a radiation dose of less than 50 mGy (5 rad) has not been shown to demonstrate any risk of spontaneous abortion, birth defects, or mental retardation. The typical trauma evaluation, including CT scan exposes the fetus to less than 50 mGy. A dose of 50 mGy is thought to increase the lifetime cancer risk of the fetus by 2%. The patient has been or will be counseled regarding this. In our estimation of risk/benefit, it is indicated at this time to obtain CT imaging of this patient in order to avoid maternal and fetal mortality and morbidity.

References