

MEDICAL CENTER

DIVISION OF TRAUMA & SURGICAL CRITICAL CARE

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 injures. 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

- ACR-SPR Practice Parameter for Imaging Pregnant or Potentially Pregnant Adolescents and Women with Ionizing Radiation. Amended 2014. https://www.acr.org/-/media/ACR/Files/Practice-Parameters/Pregnant-Pts.pdf?la=en
- 2. Imaging of Trauma in the Pregnant Patient. Raptis CA, Mellnick VM, Raptis DA, et al. Radiographics 2014; 34:748-763.
- 3. Practice Management Guidelines for the Diagnosis and Management of Injury in the Pregnant Patient: The EAST Practice management Guidelines Work Group. J Trauma 2010;69:211-214.