Primary Mediastinal B-Cell Lymphoma (PMBL) - Timing of Treatment and Contraception Counseling During Pregnancy

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Case Presentation

- Pt was a 25 yo F with hx of PMBL who received full R-CHOP tx
- Prior to radiation tx, screening UPT was positive
- She had a SAB and then decided against radiation tx
- After 3 yrs in remission, an internal mammary mass was noted on CT
- Pt was referred to CT surgery for VATS, but UPT was again positive
- Pt deferred tx till after delivery, but presented at 24wks with cough and SOB
- MRI showed progression of mediastinal mass and an urgent VATS was performed
- The procedure was managed by OB and Cardiac anesthesia and was uneventful
- The pts health continued to decline, and was hospitalized with resp failure and pleural effusions
- The pt and husband rejected pleurx catheter placement and hoped for a cesarean delivery
- During hospitalization, she went into PTL on the oncology floor at 29 4/7wks
- MFM attending was rounding and managed the SVD of a viable infant
- She was discharged a few days post delivery but required rehospitalization several times
- Approx 3 mo postpartum, she passed away 2/2 due to hypoxic respiratory failure in the ICU

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Discussion

CTA Chest

- The management of PMBL during pregnancy is complex involving ethical dilemmas and requiring multidisciplinary care
- The goal of minimizing radiation and teratogens exposure to the developing fetus often delays necessary treatment and may account for the high incidence of advanced disease
- For women with cancer, counseling and contraceptive measures aiding in the postponement of pregnancy should be offered and individualized for each patient based on the progression of disease, prognosis, and treatment. (3)

Sources

1. Di Mascio, Daniele, et al. “Diffuse Large B-Cell Lymphoma during Third-Trimester Pregnancy and Lactation.” Obstetrics & Gynecology, vol. 136, no. 1, 2020.
2. Knight, Marian, et al. “Saving Lives, Improving Mothers’ Care.” Maternal, Newborn and Infant Clinical Outcome Review Programme, Nov. 2021.
3. Reeder, Callie Fox, et al. “Dyspnea in Pregnancy: A Case Report of a Third Trimester Mediastinal Mass in Pregnancy.” American Journal of Case Reports, vol. 19, 2018.

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