Lupus nephritis in pregnancy



19% of women with lupus will have adverse pregnancy outcomes related to disease (preterm birth, fetal growth restriction, IUFD)

3-5% of women with lupus have severe lupus flare during pregnancy, up to 33% will have mild flares

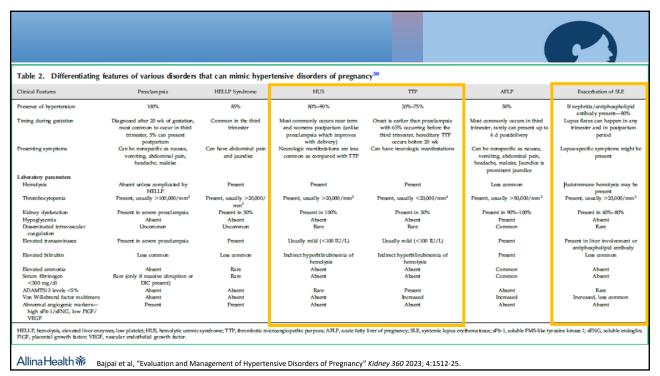
Risk factors for poor outcome:

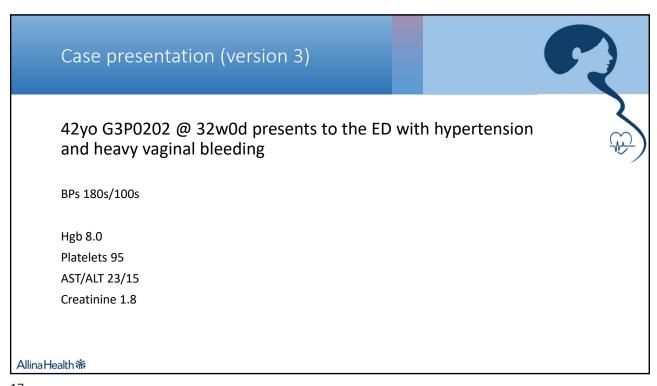
- -- active disease <1 year prior to conception
- -- history of lupus nephritis
- -- antiphospholipid antibodies
- -- discontinuation of immunosuppression during pregnancy (esp. hydroxycholorquine)
- -- hypertension prior to pregnancy

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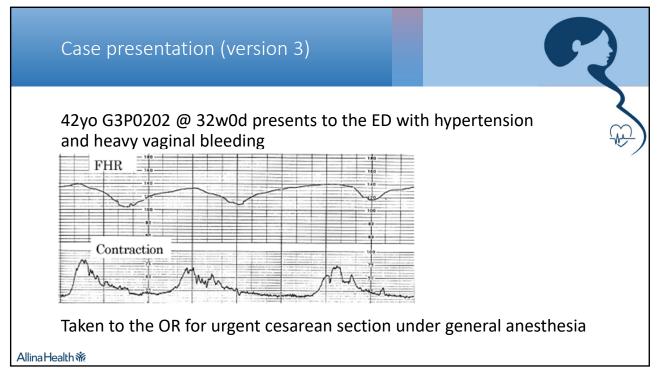
Gonzalez Suarez et al, "Renal Disorders in Pregnancy: Core Curriculum 2019" AJKD 2019; 73(1): 119-130. Bajpai et al, "Evaluation and Management of Hypertensive Disorders of Pregnancy" Kidney 360 2023; 4:1512-25.

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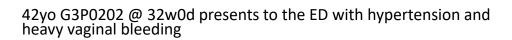




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Case presentation (version 3)



Intra-op – placental abruption found with large intrauterine clots; postpartum hemorrhage with qbl 2500 (estimated 4L total blood loss including antepartum losses)

Transfused with PRBCs/platelets/FFP/cryoprecipitate. Hypotension during the case. Minimal urine output during the case.

Fibrinogen 97, INR 1.5

Transferred to the ICU post-op

Anuric in the ICU, creatinine bumped to 2.8 then 4.5, potassium climbing, dialysis started on POD#2

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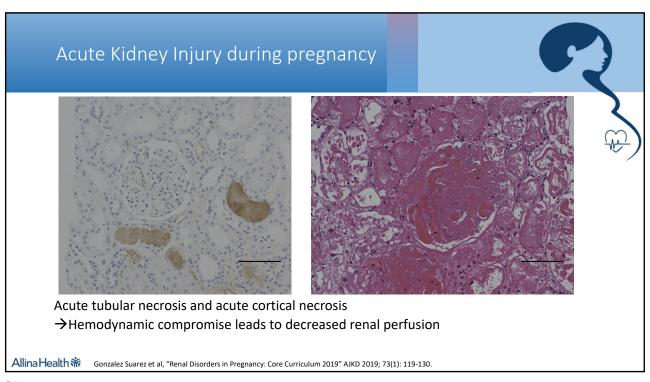
Acute Kidney Injury during pregnancy

Common causes include:

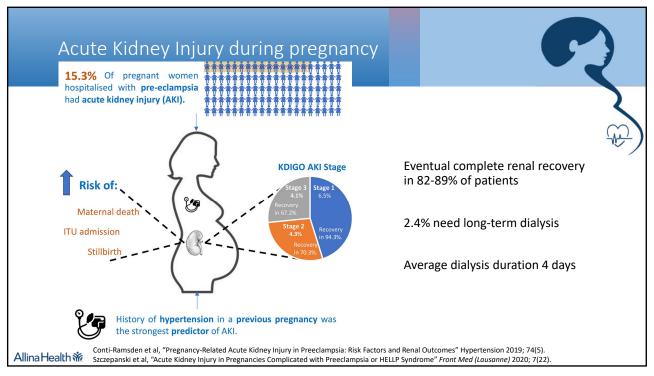
- -- pre-eclampsia
- -- sepsis
- -- hyperemesis gravidarum
- -- postpartum hemorrhage
- -- thrombotic microangiopathy (TTP/HUS)
- -- acute fatty liver of pregnancy
- → many cases have more than one cause

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Gonzalez Suarez et al, "Renal Disorders in Pregnancy: Core Curriculum 2019" AJKD 2019; 73(1): 119-130.



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Case presentation (version 4 and 5)



42yo G3P0202 @ 32w0d sent from routine OB visit due to elevated blood pressures and proteinuria on urine dipstick

Past medical history: ESRD s/p renal transplant 2 years ago

Past medical history: donated a kidney to her sister 2 years ago

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Pregnancy after kidney transplant

- Best outcomes in women who wait 1-2 years after transplant for pregnancy, no acute rejection prior to pregnancy, normal renal function and no hypertension
- Optimize immunosuppressive regimen prior to pregnancy
 - Usually combination of Azathioprine, Tacrolimus, Cyclosporine, Prenisone
- Follow levels and titrate immunosuppressive therapy during pregnancy
- Risk of pre-eclampsia 27%, risk of preterm delivery 45%, live birth rate 73%
- Risk of acute rejection during pregnancy not higher than outside pregnancy (1-14%)
- Risk of graft failure 5.8% at 1 year after pregnancy and 6.9% at 5 years (similar to other transplant recipients)

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Gonzalez Suarez et al, "Renal Disorders in Pregnancy: Core Curriculum 2019" AJKD 2019; 73(1): 119-130. Shah and Verma, "Overview of Pregnancy in Renal Transplant Patients" Int J Nephrol 2016; 4539342

Pregnancy after kidney donation

- Generally good outcomes
- Increased risk of hypertensive disorders of pregnancy (11%)
- No increased risk of preterm delivery or low birth weight

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Gonzalez Suarez et al, "Renal Disorders in Pregnancy: Core Curriculum 2019" AJKD 2019; 73(1): 119-130.

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Clinical pearls

- vith most is...)
- CONTEXT MATTERS get the clinical history for a patient with proteinuria and hypertension in pregnancy
- Not all proteinuria and hypertension is pre-eclampsia (but most is...)
- Watch out for acute kidney injury in pregnancy

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Thank you

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