









Predicting Post-Transplant Disease Recurrence in C3G

(EMCHD - Switzerland - Lauren)

Our Cohort:

- $\circ~$ 40 C3G patients who had transplants
- $\circ~$ All had genetics and biomarkers done

Results:

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- o 11/40 had documented recurrence
- Recurrence patients had elevated C3Nef, C5Nef, C3c, c3c/C3 ratio and sC5b-9 and a C3 < 90.
- Genetics did enhance the sensitivity of transplant risk recurrence.

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Our Findings:

Knowing a patient's particular biomarkers and genetics pre-transplant, we can offer a PTxRR:

Post-Transplant Recurrence Risk Score

With offering a PTxRR score to patients care team pre-transplant, we can be proactive and have a plan in place to hopefully prevent detriment to the transplanted kidney by initiating necessary treatment strategies when signs of recurrence arise.

Clinical and Histological Correlations in C3G (2023 - ICW - Newcastle, UK - Jill) Findings: The Basics: 96 patients with C3G Greater severity of chronic changes 0 Examined the relationship between noted on a biopsy was correlated with 0 a > risk of GFR loss. onset biopsy characteristics and clinical lab values (eGFR, UPC and A person with a lower C3 when C3) both at onset and over time. diagnosed, indicating complement Reviewed the effects of 0 activation, also had > degree of acuity immunosuppression and noted on bx (hypercellularity ACEi/ARB's. proliferation and leukocyte o Reviewed kidney biopsy markers infiltration). Chronicity: Sclerosis and IFTA There was no significant correlation Acuity: mesangial 0 hypercellularity, endocapillary between improvement in GFR or C3 proliferation, and leukocyte and the use of "standard" immune infiltration. suppression or ACEi/ARB medications.

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Change in GFR and UPC Before and After Eculizumab (ASN - Philadelphia, PA - 2023 - Tina) **Initial Thoughts:** Findings: o Most patients showed no significant Eculizumab is a monoclonal antibody 0 change in disease trajectory with that binds the complement protein C5, Eculizumab therapy. blocking the cleavage into C5a and C5b, therefore preventing the formation of the C5b-9 (membrane attack complex General trend towards worsening kidney MAC)....is this enough to change C3G function following eculizumab, though disease trajectory? with a slight decrease in UPC. • The GFR had a median difference Cohort: from pre- to post-eculizumab of -14 patients with C3G on Eculizumab for a 6.47 per year. time of 2-5 years Our goal was to examine the difference 0 • UPC had a median difference from in eGFR and UPC trends before and after pre- to post-eculizumab of -0.26 Eculizumab initiation. per year. IOWA



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Thank You!

•Any Questions?

If you have C3G and are not in our C3G Natural History, but interested in participating, please contact:

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