ECNG
Extracorporeal Nephrology Group
An Academic Forum for Nephrologists, DM Trainees, Physicians, and Healthcare Professionals

ELECTRON MICROSCOPY

Can it change the renal biopsy diagnosis?

INDIAN PROSPECTIVE STUDY • 115 NATIVE KIDNEY BIOPSIES

Kurien et al. | Ultrastructural Pathology, 2016

12%

CRUCIAL

EM was needed to establish the primary diagnosis

20%

IMPORTANT

EM added meaningful confirmatory evidence

68%

NOT REQUIRED

EM did not change or confirm the primary diagnosis

WHERE EM MADE THE DIFFERENCE

2/2 **Dense deposit disease**
Diagnosis required EM

1/1 **Immunotactoid GN**
Diagnosis required EM

4/4 **Infection-associated GN**
EM crucial or important

21/36 **MCD + membranous GN**
EM crucial or important

TAKE-HOME

EM is decisive in a minority, yet can prevent important diagnostic misses in renal pathology.

Study included biopsies with adequate tissue for LM, IF and EM.
Percentages describe diagnostic contribution in this 2016 study.