Nephrotic Syndrome

- Nephrotic range proteinuria (> 3 – 3.5 g/24 hrs)
- Anasarca
- Hypoalbuminemia

- Hyperlipidemia, lipiduria
- Fatty oval bodies in urine
- Hypercoagulable state

Primary

Membranous Nephropathy
- *PLA2R* + (majority)
- *THSD7A* +

Minimal Change Disease

Focal Segmental Glomerulosclerosis (FSGS)
- Idiopathic
- *APOL1*-associated
- Genetic (*NPHS1, NPHS2, PLCE1 INF2, ACTN4, TRPC6, LMXB1*)

Other
- IgA nephropathy
- Fibrillary glomerulopathy (fibrils 16 – 24 nm)
- Immunotactoid glomerulopathy (fibrils > 30 nm)
- Smoking-associated nodular glomerulosclerosis

Secondary

Focal Segmental Glomerulosclerosis (FSGS)
- Hyperfiltration (i.e. obesity, unilateral nephrectomy)
- Diabetes mellitus
- Hypertension
- Viruses (i.e. HIV, parvovirus B19, **SARS-CoV2**)
- Drug (i.e bisphosphonates, heroin, IFN)

Minimal Change Disease
- Hematologic malignancy
- Drugs (i.e. NSAIDs)

Membranous Nephropathy
- Class V SLE nephritis
- Solid tumor malignancies
- Hepatitis B > Hepatitis C
- Infection (i.e. syphilis)
- Drugs (i.e. penicillamine, NSAIDs)

Other
- Primary or secondary amyloidosis (fibrils 9 – 12 nm)
- Light or heavy chain deposition disease (monoclonal gammopathy)
- Preeclampsia

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