

**Incidence of Biopsy-proven Glomerulonephritis in  
5 years period from (July 2003-July 2008);  
single center experience**

**Thesis**

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In Internal Medicine

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## Abstract

Glomerulonephritis (GN) remains as a major cause of morbidity and mortality from renal disease in many parts of the world, particularly in the tropical and subtropical regions. According to several local registries and sporadic publications, it seems to be responsible for 23.2 to 58.4% of patients on regular dialysis in the tropics, compared to contemporary figures of around 16-18% in the United States and 9-15% in Europe. Its prevalence among dialysis patients in Egypt has been reported as 16.6% in 1998.

The incidence of biopsy proven GN varies in different geographical areas, is affected by socioeconomic condition, race, indication for renal biopsy and differences in genetic susceptibility and environmental exposure. Recent studies reported a changing pattern of incidence of GN in different parts of the world.

Our study aimed to obtain a comprehensive review of the incidence of biopsy proven glomerulonephritis in Cairo University hospital over the last 5 years from July 2003-July 2008. (924 renal biopsies). The mean age was  $26.5 \pm 14.6$  years. As regard gender: 437 male and 487 female patients.

In our retrospective study focal and segmental glomerulosclerosis [FSGS] was the most frequent morphological pathology encountered (21.1%), followed by mesangial proliferative GN (18.9%), diffuse proliferative GN (14%), focal proliferative GN (12.8%), membranous nephropathy (10.9%), membranous proliferative GN (8.1%), minimal changes disease (8.1%), renal amyloidosis (5.7%) and lastly diabetic nephropathy (0.2%). Lupus nephritis was reported in 264 cases from 924 biopsies (28.6 %); in which class III was the most frequent class encountered (30.3%), followed by class II (28.8 %), class IV (27.7 %), class V (13.3 %).

**Key words: Glomerulonephritis; Renal biopsy; Focal and segmental glomerulosclerosis; Lupus nephritis**

## **Dedication**

This work is dedicated to my mother, my father and my wife.

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