

### Renal biopsy at OPD level

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**Objectives** : Renal biopsy is an essential procedure for diagnosis and to know the prognosis of the glomerular diseases, however need a lot of skill and experience, unless sometimes need an embolization , nephrectomy etc. We have an experience of more than 3,000 cases of renal biopsy without major complications such as bleeding, embolization, nephrectomy etc. and recently we performed 403 cases of renal biopsies at the OPD level without any serious complications since last 3 years.

**Methods** : Before renal biopsy we checked bleeding tendencies, and light dinner before 6P.M., thereafter ask them to take oral rehydration solution Balancelyte(Colma,Korea) until 3 hrs before procedure.

Kidney biopsy were done by local lidocain anesthetic or sometimes anesthesia by Ketamin or midazolam. Biopsy needle was inserted under the ultrasound guide(GE LogiQ E9) by the needle(TSK ACECUT biopsy needle,Japan) at the lower pole of the kidney. We checked renal hematoma by ultrasound 3 times until go home. All patients went home in 6 hours after procedure. As far as we know this kind of one day kidney biopsy procedure without admission is the first time try, although kidney biopsy is one of the most dangerous procedure in medical field. Biopsy material were sent to KPL(Korea Pathology Lab) immediately after biopsy.

IF results were reported on the day of kidney biopsy after 5 hrs and LM and EM were reported in two days after procedure. All cases went home after 6 hrs of procedure. Three patients took airplane after procedure without any problems.

**Results** : Biopsy results were as follows: IgA nephropathy 127 cases(31.5%), Diffuse mesangial proliferative glomerulonephritis 85 cases(21%), Nonspecific glomerulonephritis 36 cases(8.9%), FSGS 33 cases (8.2%), podocyte disease with diffuse mesangial proliferation 17 cases (4.2%), and others include Alport's syndrome, C3 glomerulopathy, C1q nephropathy, acute PSGN, chronic tubulointerstitial nephritis.

**Conclusions** : Kidney biopsy is no longer a dangerous procedure if performed exactly at lower pole of the kidney, however need an experienced nephrologist

## **KSN 2017 Abstract**

and high resolution ultrasound.

**Keywords** : kidney biopsy, OPD