

Association of I- D Polymorphism of Angiotensin - Converting Enzyme Gene in Lupus Nephritis



Methods

- Cross-sectional study**
- Single Center**
Cho Ray Hospital, Vietnam
- Lupus nephritis**
N = 208 patients
- Polymorphism**
ACE genetic testing
- 2021 - 2023**

Findings



Results

Genotype Distribution

Genotype	LN without KF (N=71)	KF without KRT (N=55)	KF with KRT (N=82)
II	62%	43.6%	37.8%
ID	35.2%	41.8%	50%
DD	2.8%	14.6%	12.2%

p = 0.005 (II vs ID)
 p = 0.022 (ID vs DD)
 p = 0.641 (II vs DD)

Risk Analysis

Genotype	OR	p-value
ID (vs II)	2.41	p < 0.0001
DD (vs II)	9.69	p = 0.004
ID (vs II)	2.16	p = 0.001
DD (vs II)	2.43	p = 0.110

LN: lupus nephritis; ACE: angiotensin – converting enzyme; KF: kidney failure; KRT: kidney replacement therapy

Conclusion: Lupus nephritis and KF (+/- KRT) predominantly had D allele and ID genotype. I/D polymorphism was correlated to KF in lupus nephritis.

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