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Risk factors of progressive IgA nephropathy which progress to end stage renal disease within ten years

Background & Aim: There were few related studies aiming to severe IgA nephropathy (IgAN) which could progress rapidly to end stage renal disease (ESRD) within ten years. To find valuable clinical or pathological factors and promising precautions is essential.

Method: A single center case-control study was performed. 50 ESRD patients with the primary cause of IgAN and a short renal survival time of less than ten years after diagnose were enrolled in the case group. 100 IgAN patients with a renal survival time of more than ten years were enrolled in the control group. IgA Oxford classification scores, clinical data at baseline and during the follow-up were collected. Multivariate logistic regression was used to investigate factors associated with the development of ESRD.

Results: There were significant differences in baseline clinical data between these two groups, as well as the constituent ratio of Oxford MEST-score. Distinct differences were observed in time-average uric acid (TA-UA), time-average hemoglobin (TA-Hb), time-average albumin (TA-Alb), time-average total cholesterol (TA-TC) and time-average urinary protein (TA-P) during the follow-up. In multivariate logistic models, IgA oxford score M1 (OR=5.10, P=0.018) and eGFR (OR=0.97, P=0.039) at biopsy, TA-UA (OR=2.06, P=0.026) and TA-Hb (OR=0.53, P=0.022) during the follow-up were identified independent factors for developing ESRD.

Conclusion: IgAN patients with pathological assessment of M1, low baseline eGFR, TA-Hb and high TA-UA were more likely to progress to ESRD, and should be paid more attention. Appropriate regulations of UA, Hb and urine protein after diagnose may be a promising treatment.

Biography

Zhen Su has completed her MD from Wenzhou Medical University; PhD from Second Military Medical University and; Post-doctoral studies from Emory University School of Medicine. She is the Vice-Director of Renal Division at First Affiliated Hospital of Wenzhou Medical University. She has published more than 40 papers in reputed journals and had oral presentation in ASN 2005 (American Society of Nephrology) meeting and WCN 2007 (ISN World Congress of Nephrology) meeting.

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