



1725 I Street NW • Suite 510 • Washington, DC 20006
Tel 202-659-0599 • Fax 202-659-0709 • www.asn-online.org

EMBARGOED FOR RELEASE UNTIL NOON ON JULY 2, 2008

Contact: Shari Leventhal: 202-416-0658, sleventhal@asn-online.org

'MULTI-TARGET' IMMUNE THERAPY IMPROVES OUTCOMES OF SEVERE LUPUS NEPHRITIS

Washington, DC (Friday, June 27, 2008) — A new treatment using a combination of drugs targeting different parts of the immune system improves the recovery rate for patients with severe lupus involving the kidneys, according to a report in the October *Journal of the American Society of Nephrology* (JASN).

"In our study, multi-target therapy is shown to be superior to traditional therapy for inducing complete remission of class V+IV lupus nephritis, with few side effects," comments Dr. Lei-Shi Li of the Research Institute of Nephrology of Jinling Hospital, Nanjing University School of Medicine in Nanjing, China.

The study included 40 patients with severe lupus nephritis. Lupus nephritis is inflammation of the kidneys occurring in patients with the immune system disease systemic lupus erythematosus (SLE). All patients had "class V+IV" disease, meaning widespread inflammation and decreasing function of the kidneys. "This is a severe form of lupus nephritis that is traditionally treated with a single immunosuppressant drug, but the efficacy is very poor," says Dr. Li. "We considered that, since the impact of severe SLE on the kidney involves various parts of the immune system, it is necessary to treat the different immune targets with a combination of immunosuppressant drugs."

One group of patients received this "multi-target" therapy, consisting of the immunosuppressant drugs tacrolimus and mycophenolate mofetil—commonly used as anti-rejection drugs in transplant patients—plus a steroid. The other group received standard treatment with a single immunosuppressant drug (cyclophosphamide).

The complete remission rate, with recovery of normal kidney function, was about four times higher among patients receiving the three-drug combination. "For patients receiving multi-target therapy, the complete remission rate reached 65 percent at nine months, versus only 15 percent under traditional therapy," says Dr. Li.

MORE

Some patients in both groups had partial remission, with some return of kidney function. Overall, 95 percent of patients in the multi-target therapy group had partial or complete remission, compared to 55 percent with single-drug therapy. The rate of most adverse effects was also lower with multi-target therapy.

Systemic lupus erythematosus is an autoimmune disorder, in which the immune system attacks healthy organs and tissues. By reducing immune system activity, treatment with immunosuppressant drugs has improved most outcomes for patients with SLE. However, class V+IV lupus nephritis continues to be a major problem—it has a poor response to traditional treatments and can lead to permanent kidney damage. "The prognosis is very poor, so it is important for us to develop a new regimen for the treatment of this type of lupus nephritis," says Dr. Li.

Using a combination of drugs that affect different immune targets, multi-target therapy improves the chances of remission for patients with severe lupus nephritis. "The therapeutic effect of our multi-target therapy is apparently superior to traditional therapy for inducing complete remission of Class V+IV lupus nephritis, and also bears good tolerance under relatively lower dosages," Dr. Li adds.

The authors stress that their study is only preliminary. The study includes a small group of patients from a single hospital, with a relatively short follow-up time. Larger randomized trials with longer follow-up are required.

Roche China and Astellas Ireland Co., Ltd partially supported the remedy used for the study, but had no role in the design and conduct of the study or in the analysis of the results.

The article, entitled "Successful Treatment of Class V+IV Lupus Nephritis with Multi-target Therapy," will appear online at <http://jasn.asnjournals.org/> on Wednesday, July 2, 2008, and in print in the October 2008 issue of JASN.

The American Society of Nephrology (ASN) is a not-for-profit organization of 11,000 physicians and scientists dedicated to the study of nephrology and committed to providing a forum for the promulgation of information regarding the latest research and clinical findings on kidney diseases. ASN publishes CJASN, the Journal of the American Society of Nephrology (JASN), and the Nephrology Self-Assessment Program (NephSAP). In January 2009, the Society will launch *ASN Kidney News*, a newsmagazine for nephrologists, scientists, allied health professionals, and staff.

###