



醫院管理局
HOSPITAL
AUTHORITY

From: Prof Rossa WK CHIU
Honorary Chief of Service
Dept of Chemical Pathology
PWH

To: All COSs, DOMs & Medical staff, NTEC

Cc: Dr. SV LO, HCE(PWH)/ CCE(NTEC)
Dr. David SUN, HCE(NDH)
Dr. CY MAN, HCE(AHNS/TPH)
Dr. Herman LAU, HCE(SH/BBH/SCH)
Dr. Michael CHAN, CCPATH (NTEC)
All Duty Biochemists, PWH(CP)
Ms. Cordelia LEONG, CDM Path (NTEC)
Ms. Karen LAW, DM, PWH(CP)

Tel / Fax No: 3505 2348 / 2636 5090

Date: 24 July 2019

**Replacement of Indirect Immunofluorescent Assay (IFA) with Enzyme-linked
Immunosorbent Assay (ELISA) for Anti-dsDNA Antibody Test
Implementation Date: 29th July 2019**

Antibodies against dsDNA is used as a diagnostic marker for systemic lupus erythematosus (SLE). For many years in our department, detection of such anti-dsDNA antibodies has been done by using the traditional method: *Crithidia luciliae*-based immunofluorescent assay (IFA), which requires visual interpretation and manual transcription of results. For the purpose of improving assay performance and enhancing service quality, we will be discontinuing this IFA and replacing it by an automatic ELISA (Anti-dsDNA-NcX ELISA, EUROIMMUN) for direct quantification of anti-dsDNA antibodies, with effect from 29th July 2019.

According to manufacturer's specification, this anti-dsDNA-NcX ELISA demonstrated superior sensitivity and specificity over the *Crithidia luciliae*-based IFA, or another very well recognized anti-dsDNA antibody detection method: the Farr assay. Based on our own laboratory evaluation, assay performance is comparable between the IFA method and the ELISA. For the implementation of this new ELISA method, reference interval will be revised; from <60 IU/mL to <100 IU/mL. Reportable range will also be updated from 50-1000 IU/mL to 10-800 IU/mL.

This new ELISA test can be requested electronically through the Generic Clinical Request System (GCRS) under the section Immunology, by the test-code DNAE. If there is any enquiry regarding the above modifications, please contact our Scientific Officer at 5569-9070.
Thank you for your kind attention.

Sincerely yours,

Prof. Rossa WK CHIU

Prince of Wales Hospital
Hospital Authority
30-32 Ngan Shing Street
Shatin, N.T.
Tel: (852) 3505 2211
Fax: (852) 2637 8244

威爾斯親王醫院
醫院管理局
新界沙田銀禧街 30-32 號
電話: (852) 3505 2211
傳真: (852) 2637 8244

HA1110/PW

與民攜手 Helping People Stay Healthy
保健安康