



CHAPTER VII

RESULTS ON STUDY ON CONTROL AND PATIENT SERA

The distribution of titer among control and SLE patients were shown in table 9.

All 20 sera from healthy humans and 18 out of 20 sera from other autoimmune disease controls did not yield antibody titer higher than 16. On the other hand, it was concluded that 38 sera from total 40 control sera specimens did not have antibody titer above 16.

All specimens from patients with clinical diagnosis of active SLE followed ARA had antibody titer higher than 16 and 10 out of 20 patients with inactive SLE followed ARA had antibody titer above 16. Of 12 sera from patients with SLE not followed ARA and antibody titer greater than 16. It was concluded that 42 sera from total 60 patients with SLE had antibody titer greater than 16 which was considered as positive titer. The highest titer was 1:512.

Comparison results of Anti-DNA determination by ELISA with that of Farr technic (RIA) and Fluorescence antinuclear antibodies (FANA) were shown in table 10. There were 86% and 64% definite association between the present ELISA technic with that

of Farr technic and FANA technic respectively. This association was found in both positive and negative results and the association were more clearly seen between the ELISA and Farr technic. The correlation between anti-DNA antibody titer in ELISA technic and Farr technic is 0.8 ($P < 0.01$).

For serum C_3 level, normal range was between 90-120 mg%. From 52 of patients with low serum C_3 level, 38 cases had positive anti-DNA antibody using ELISA technic and 6 out of 48 with normal or high serum C_3 levels had positive anti-DNA antibody.

TABLE 9 DISTRIBUTION OF ANTI-DNA TITER IN SLE AND CONTROL SERA.

	serum dilution								
	UD	1:8	1:16	1:32	1:64	1:128	1:256	1:512	1:1024
Control sera									
Healthy human sera	5	9	6	-	-	-	-	-	-
Other autoimmune disease	2	6	10	2	-	-	-	-	-
Total (40 specimens)	> 1:16 = 2 << 1:16 = 38								
SLE sera									
Active (followed-ARA)	-	-	-	1	3	4	5	7	-
Inactive (followed-ARA)	1	4	5	6	3	1	-	-	-
Other patients (not followed-ARA)	-	2	6	5	4	2	1	-	-
Total (60 specimens)	> 1:16 = 42 << 1:16 = 18								

TABLE 10 COMPARISON OF ANTI-DNA BY ELISA TECHNIC WITH ANTI-DNA
BY FARR TECHNIC AND BY FANA

	Anti-DNA (Farr technic)		FANA		% Total
	Positive	Negative	Positive	Negative	
ELISA (Positive)	41	3	33	11	44
ELISA (Negative)	11*	45	25	31	56

* 7 patients had very low titers which were regarded as
negative