

*Study of Proper Time.....*

**Table (1): Effect of MDA on the primary response of 1-week-old calves**

	Calf no.	Pre-vaccination SNT titer for O <sub>1</sub> FMDV	Pre-vaccination SNT titer for A <sub>1</sub> FMDV	SNT titer for O <sub>1</sub> FMDV	ELISA titers for O <sub>1</sub> FMDV	SNT titer for A <sub>1</sub> FMDV	ELISA titers for A <sub>1</sub>
From vaccinated dams	1	2.4	2.4	1.2	1.8	1.2	1.5
	2	2.4	2.4	0.9	1.2	0.9	1.2
	3	2.1	2.1	1.5	1.8	1.2	1.8
	average	2.3	2.3	1.2	1.6	1.1	1.6
From non vaccinated dams	1	1.8	1.8	2.4	2.7	1.8	2.4
	2	1.5	1.5	2.1	2.4	1.8	2.4
	3	1.8	1.8	1.8	2.4	1.8	2.1
	average	1.7	1.7	2.1	2.5	1.8	2.3

SNT = serum neutralization test.

N.B.: The results of SNT expressed as log<sub>10</sub> TCID<sub>50</sub>.

ELISA = Enzym Linked Immunosorbant Assay.

Table (2): Humoral immune responses at day 30 post vaccination of various ages of calves vaccinated with FMD vaccines

Calf no.	Vaccination age	Pre-vaccination SNT titer for O <sub>1</sub> FMDV	Pre-vaccination SNT titer for A <sub>1</sub> FMDV	SNT titer for O <sub>1</sub> at day 30	ELISA titers for O <sub>1</sub> at day 30	SNT titer for A <sub>1</sub> at day 30	ELISA titers for A <sub>1</sub> at day 30
1	4 weeks	2.1	2.4	1.35	1.5	1.2	1.5
2	4 weeks	2.1	2.1	1.2	1.5	1.2	1.5
3	6 weeks	1.8	2.1	1.35	1.8	1.2	1.5
4	6 weeks	1.5	1.8	1.35	1.8	1.2	1.55
5	8 weeks	1.5	1.8	1.5	1.8	1.2	1.8
6	8 weeks	1.8	1.8	1.5	1.8	1.35	1.8
7	10 weeks	1.5	1.8	1.8	2.1	1.5	1.8
8	10 weeks	1.5	1.5	1.8	2.1	1.5	1.8
9	12 weeks	1.5	1.5	1.8	2.4	1.8	2.1
10	12 weeks	1.5	1.5	1.8	2.1	1.5	2.1
11	14 weeks	1.2	1.5	2.1	2.4	1.8	2.1
12	14 weeks	1.2	1.2	2.1	2.4	1.8	2.4
13	16 weeks	0.9	1.2	2.1	2.7	2.1	2.4
14	16 weeks	0.9	0.9	2.1	2.7	1.8	2.4

SNT = serum neutralization test.

N.B.: The results of SNT expressed as log<sub>10</sub> TCID<sub>50</sub>.

ELISA = Enzym Linked Immunosorbant Assay.

**Table (3): Humoral primary and secondary immune responses of various ages of calves vaccinated with FMD vaccines:**

Calf no.	Vaccination age	Re vaccination time	SNT titer for O <sub>1</sub> at day 60	ELISA titers for O <sub>1</sub> at day 60	SNT titer for A <sub>1</sub> at day 60	ELISA titers for A <sub>1</sub> at day 60
1	4 weeks	-	0.9	1.2	0.9	1.2
2	4 weeks	8 weeks	1.8	2.4	1.5	2.1
3	6 weeks	-	0.9	1.2	0.9	1.2
4	6 weeks	10 weeks	1.8	2.4	1.5	2.1
5	8 weeks	-	0.9	1.2	0.9	1.2
6	8 weeks	12 weeks	2.1	2.4	1.8	2.4
7	10 weeks	-	1.2	1.5	1.2	1.2
8	10 weeks	14 weeks	2.1	2.4	1.8	2.1
9	12 weeks	-	1.2	1.5	1.2	1.5
10	12 weeks	16 weeks	2.4	2.7	2.1	2.1
11	14 weeks	-	1.5	1.8	1.5	1.8
12	14 weeks	18 weeks	2.4	2.7	2.1	2.5
13	16 weeks	-	1.5	1.8	1.2	1.5
14	16 weeks	20 weeks	2.4	2.7	2.1	2.4

SNT = serum neutralization test.

N.B.: The results of SNT expressed as log<sub>10</sub> TCID<sub>50</sub>.

ELISA = Enzym Linked Immunosorbant Assay