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The Efficacy of Ranikhet Disease Vaccines Produced by Livestock Research Institute of Bangladesh

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Supplementary materials

Supplementary table-1: .Serum antibody titer against NDV antigen in chicken of unvaccinated control group B. Blood was drawn at 01, 20, 36 and 76 days of age of birds. Sera were subjected to determine the HI antibody titer and results are shown in both \log_1 and \log_2 (Mean \pm SD, where SD = Standard deviation, HI = Haemagglutination inhibition).

Serum	Age of birds (unvaccinated)											
sample	Day-01			Day-20			Day-36			Day-76		
	HI titre log ₁	HI titre log ₂	Mean ±SD	HI titre log ₁	HI titre log ₂	Mean ±SD	HI titre log ₁	HI titre log ₂	Mean ±SD	HI titre log ₁	HI titre log ₂	Mean ±SD
1	64	6	log_1	16	4	log_1	8	3	log_1	8	3	log_1
2	64	6	70.40	16	4	17.60	16	4	9.60	4	2	4.80
3	32	5	±	8	3	±)	8	3	±	4	2	±
4	64	6	35.05	32	5	8.76	8	3	3.57	4	2	1.78
5	128	7	$\log_2 \\ 6.00 \\ \pm \\ 0.70$	16	4	$\log_2 \atop 4.00 \atop \pm 0.70$	8	3	log ₂ 3.20 ± 0.44	4	2	log ₂ 2.20 ± 0.44

Supplementary table 2. Serum antibody titer against NDV antigens of chickens of vaccinated group A. Serum antibody titer against NDV antigens of chickens of group A, that was raised by BCRDV and RDV vaccination. Chickens were immunized twice with BCRDV through (i/o) route at 2 and 21 days of age and with RDV at 60 days of age through (i/m) route. Blood was drawn at 01, 20, 36, and 76 days of age of birds. Immunized serum HI antibody titeres against NDV antigen were determined by HI test. Results were shown in both log_1 and log_2 (Mean \pm SD, where SD = Standard deviation, HI = Haemagglutination inhibition).

Serum	Age of birds (vaccinated)											
sample	Day 01 (without primary vaccination)			Day 20 (after primary vaccination with BCRDV at 2 days of age)			Day 36 (after secondary vaccination with BCRDV at 21 days of			Day 76 (after 3 rd time vaccination with RDV at 60 days of age)		
	HI titre log ₁	HI titre log ₂	Mean ±SD	HI titre log ₁	HI titre log ₂	Mean ±SD	HI titre log ₁	age) HI titre log ₂	Mean ±SD	HI titre log ₁	HI titre log ₂	Mean ±SD
1	64	6	log_1	128	7	log_1	128	7	log_1	512	9	log_1
2	64	6	70.40	128	7	89.60	128	7	153.60	512	9	563.20
3	32	5	±	64	6	±	128	7	±	512	9	±
4	64	6	35.05	64	6	35.05	128	7	57.24	1024	10	280.43
5	128	7	log ₂ 6.00 ± 0.70	64	6	log ₂ 6.40 ± 0.54	256	8	$\log_2 \\ 7.20 \\ \pm \\ 0.44$	256	8	log ₂ 9.0 ± 0.70

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Supplementary table 3 Comparative study of Serum antibody titer of vaccinated and unvaccinated group. A comparative study of Serum antibody titer (\log_2 base) against NDV antigens of chickens of vaccinated group A, and chickens of unvaccinated control group-B. Group A were immunized twice with BCRDV through (i/o) route at 2 and 21 days of age and with RDV at 60 days of age through (i/m) route, while group B, were not received any vaccine. Blood was drawn at 01, 20, 36, and 76 days of age of birds from both groups. Serum HI antibody titers against NDV antigen were determined by HI test. Results are shown in \log_2 (Mean \pm SD, where SD = Standard deviation, HI = Haemagglutination inhibition, **P= <0.01 and *** P =<0.001).

	Age of birds									
	Day 01	Day 20	Day 36	Day 76						
Bird groups	Mean ±SD	Mean ±SD	Mean ±SD	Mean ±SD						
Group-A, Vaccinated Bird's serum	6.00 ± 0.7071	6.40** ± 0.5477	7.20*** ± 0.4472	9.0*** ± 0.7071						
Group-B, Unvaccinated Bird's serum	6.00 ± 0.7071	4.00 ± 0.7071	3.20 ± 0.4472	2.20 ± 0.4472						
P value		0.004	0.0001	0.0001						