

المركز الأردني للصناعات البيولوجية جوفاك

JOVAC JORDAN BIO INDUSTRIES CENTER

Introduction-JOVAC

Jovac in Brief



Vaccines

Type of vaccines

Viral vaccines

**Bacterial
vaccines**

Viral Vaccines

Poultry

Large Animals

ND group

B1, Clone, Lasota, I2

Jovazeit

IB H120

1

(ND G2 and G7)

2

(IB)

IBD D78

3

(IBD)

4

(EDS)

Combivac

(B1&IB),(Clone &IB),
(Lasota &IB)

5

(Reo)

6

(Adeno 2,4.8a.8b
and 11)

Avipox

7

(AI H9N2)

AI H5

Pestevac (PPR)

Caprivac (Goat Pox)

Jovivac (Sheep Pox)

Kenyavac (SGP)

LumpyShield (LSD)

LympyShield-N (LSD -N)



Bacterial vaccines

**Poultry
Vaccines**

**Large Animals
Vaccines**

**Galovac
9R**

Clostridium & Pasteurella

Brucellosis

Mycoplasma

Anthravac

**Jovasalm E
S.Entertidis
P.T.4**

Jovaclost

**Jovaclost
T**

**Jovaclost
T&P**

Rev1

Jovaplastm C

Jovapast

**Black
quarter
CL.
chauvaei**

Botivac

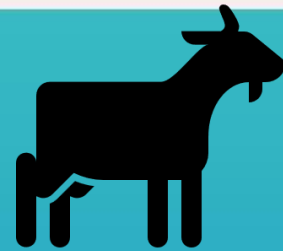
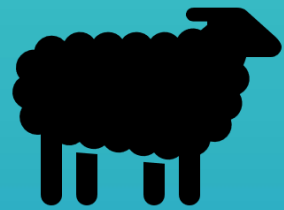
S 19

Jovaplastm B

RB51



Jovac solutions for Brucella disease



Brucevac Reduce Dose

Brucevac Full Dose

Brucevac Conjunctival Dose

Bruce 19Vac



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100 DOSES Brucevac® REDUCED DOSE

Live attenuated vaccine against brucellosis in sheep and goats.
 Each dose contains: $0.5-10 \times 10^{10}$ CFU *Brucella melitensis* strain Rev. 1.

Dosage:
 Sheep and goat: 1 ml per animal subcutaneously.

Storage: +2°C to +8°C.
 Protect from sunlight.
 For veterinary use only.

Batch No.:
 Mfg. Date:
 Exp. Date:
 BR100010002

Manufactured By: Jordan Bio Industries Center,
 Yajouz street, 43 Amman 11941 Jordan. Tel.: +962 6 5232162.

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50 DOSES Brucevac® FULL DOSE

Live attenuated vaccine against brucellosis in sheep and goats.
 Each dose contains: $0.5-2.0 \times 10^{10}$ CFU *Brucella melitensis* strain Rev. 1.

Dosage:
 Sheep and goats: 1 ml per animal subcutaneously.

Storage: +2°C to +8°C.
 Protect from direct sunlight.
 For veterinary use only.

Batch No.:
 Mfg. Date:
 Exp. Date:
 BR500050002

Manufactured By: Jordan Bio Industries Center,
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50 DOSES Brucevac® CONJUNCTIVAL DOSE

Live attenuated vaccine against brucellosis in sheep and goats.
 Each dose contains: $0.5-2.0 \times 10^{10}$ CFU *Brucella melitensis* strain Rev. 1.

Dosage:
 Sheep and goat: one eye drop / animal at any age above three months.

Storage: +2°C to +8°C.
 Protect from sunlight.
 For veterinary use only.

Batch No.:
 Mfg. Date:
 Exp. Date:
 BR500050002

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10 DOSES Bruce19vac®

Live attenuated vaccine against brucellosis in cattle.
 Each dose contains: $50-100 \times 10^{10}$ CFU *Brucella abortus* strain S19.

Dosage:
 3 ml per animal subcutaneously, (preferably under the skin of the neck just in front of the shoulders).

Storage: +2°C to +8°C.
 Protect from direct sunlight.
 Do not freeze.
 For veterinary use only.

Batch No.:
 Mfg. Date:
 Exp. Date:
 BR100010003

Manufactured By: Jordan Bio Industries Center,
 Yajouz street, 43 Amman 11941 Jordan. Tel.: +962 6 5232162.

Brucevac (Conjunctival dose)

Each dose contains
 $0.5-2.0 \times 10^9$ CFU viable
organisms of freeze-dried
live attenuated *Brucella*
melitensis strain Rev.1.



Brucevac (Conjunctival dose) field study-Tajikistan



> Vet Rec. 2012 Jan;170(4):100. doi: 10.1136/vr.100012. Epub 2011 Nov 24.

Brucellosis control in Tajikistan using Rev 1 vaccine: change in seroprevalence in small ruminants from 2004 to 2009

D Ward ¹, R Jackson, H Karomatullo, T Khakimov, K Kurbonov, M Amirbekov, J Stack, A El-Idrissi,
C Heuer

Affiliations + expand

PMID: 22121155 DOI: 10.1136/vr.100012

Brucevac (Conjunctival dose) field study-Tajikistan

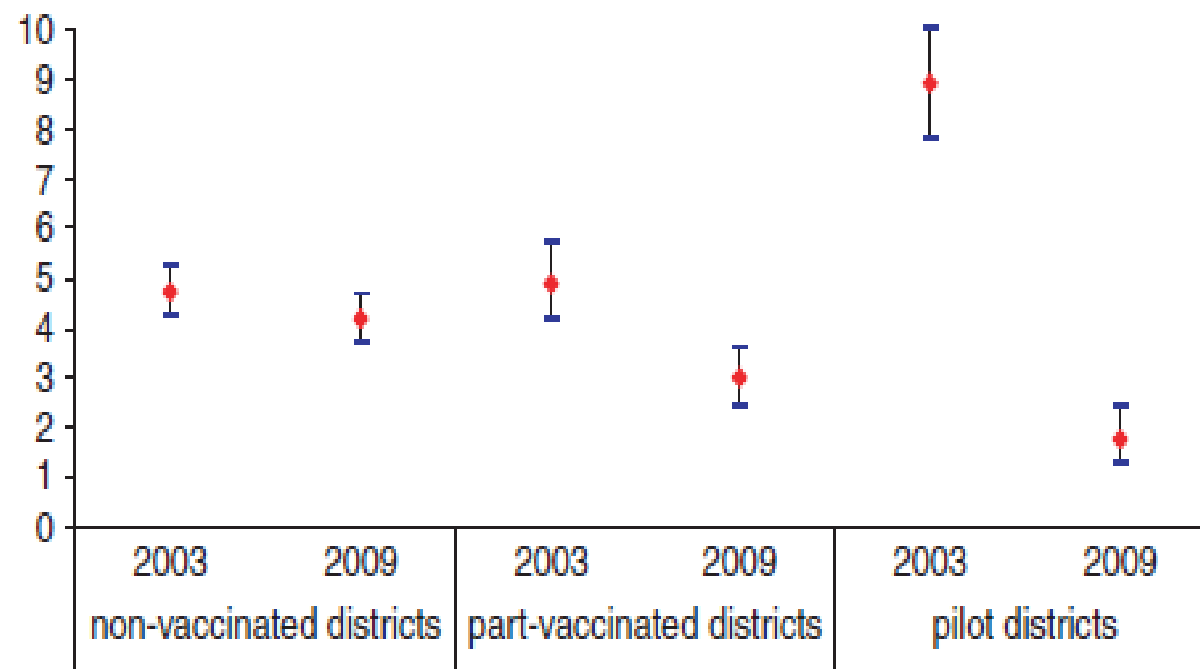


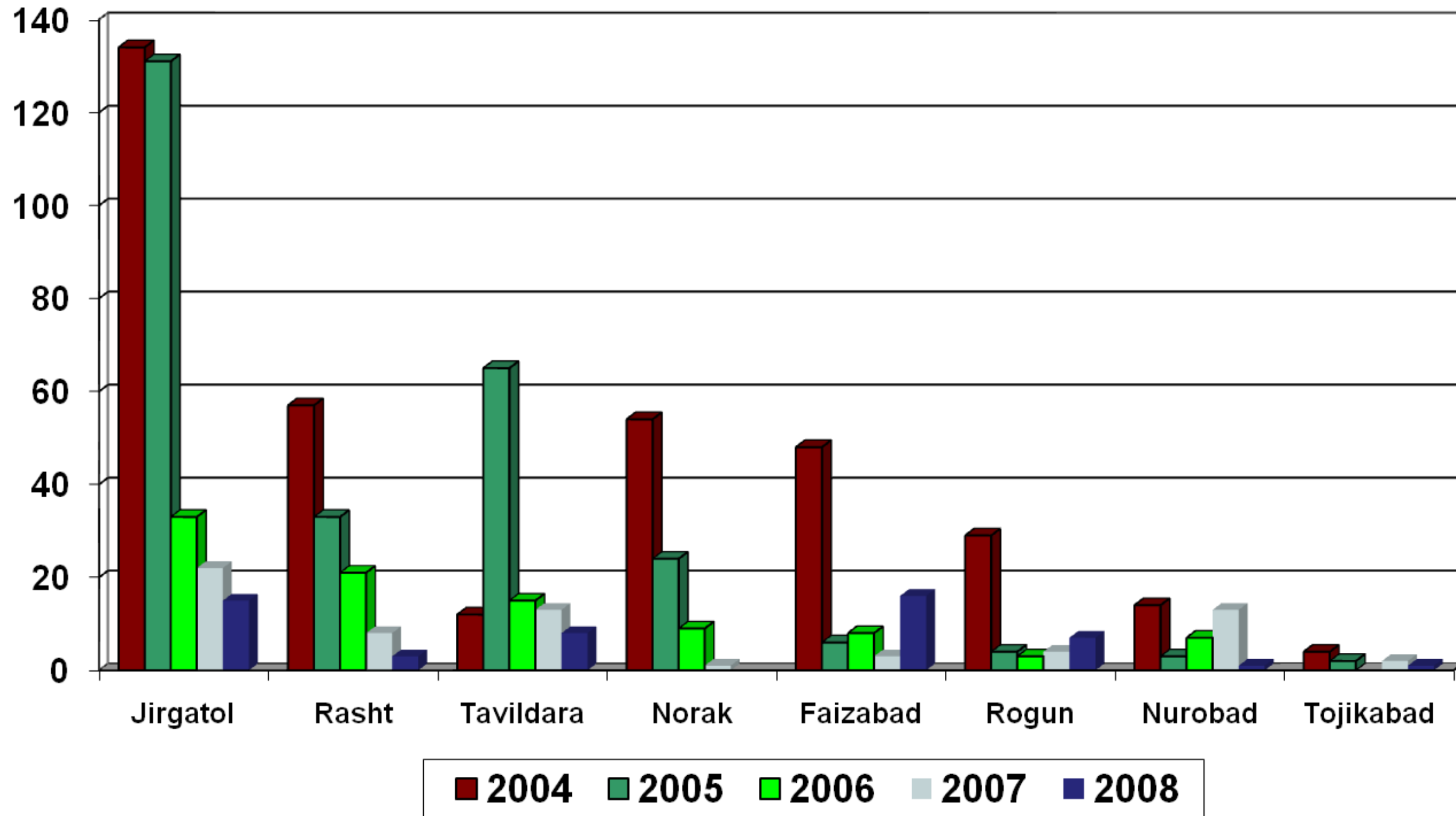
FIG 2: Overall 2003 and 2009 standardised population brucellosis seroprevalences () with 95 per cent CI (–) for non-vaccinated, part-vaccinated and well-vaccinated pilot districts

TABLE 1: Overall 2003 and 2009 standardised population brucellosis seroprevalences (std prev) and prevalence change ratios for small ruminants in village households in all districts in 2003, in non-vaccinated, in part-vaccinated, in well-vaccinated pilot districts and in all districts in Sughd in 2009

Study area	Std prev 2003	Std prev 2009	Prevalence ratio
All districts tested in 2003	5.6 (5.2, 6.1)	Not applicable	
Non-vaccinated districts	4.8 (4.2, 5.3)	4.2 (3.7, 4.7)	0.9 (0.8, 1.0)
Part-vaccinated districts	4.9 (4.2, 5.7)	3.0 (2.4, 3.6)	0.6 (0.5, 0.8)
Well-vaccinated pilot districts	8.9 (7.8, 10.0)	1.8 (1.3, 2.4)	0.2 (0.1, 0.3)
Sughd	Not applicable	4.8 (4.2, 5.4)	



Comparison of registered human cases in Rasht valley 2004-2008



Brucevac (Conjunctival dose) field study-Jordan



**Field Evaluation of *Brucella melitensis*
Rev.1 Conjunctival Vaccine in Awassi
Lambs in Jordan**

Brucevac (Conjunctival dose) field study-Jordan

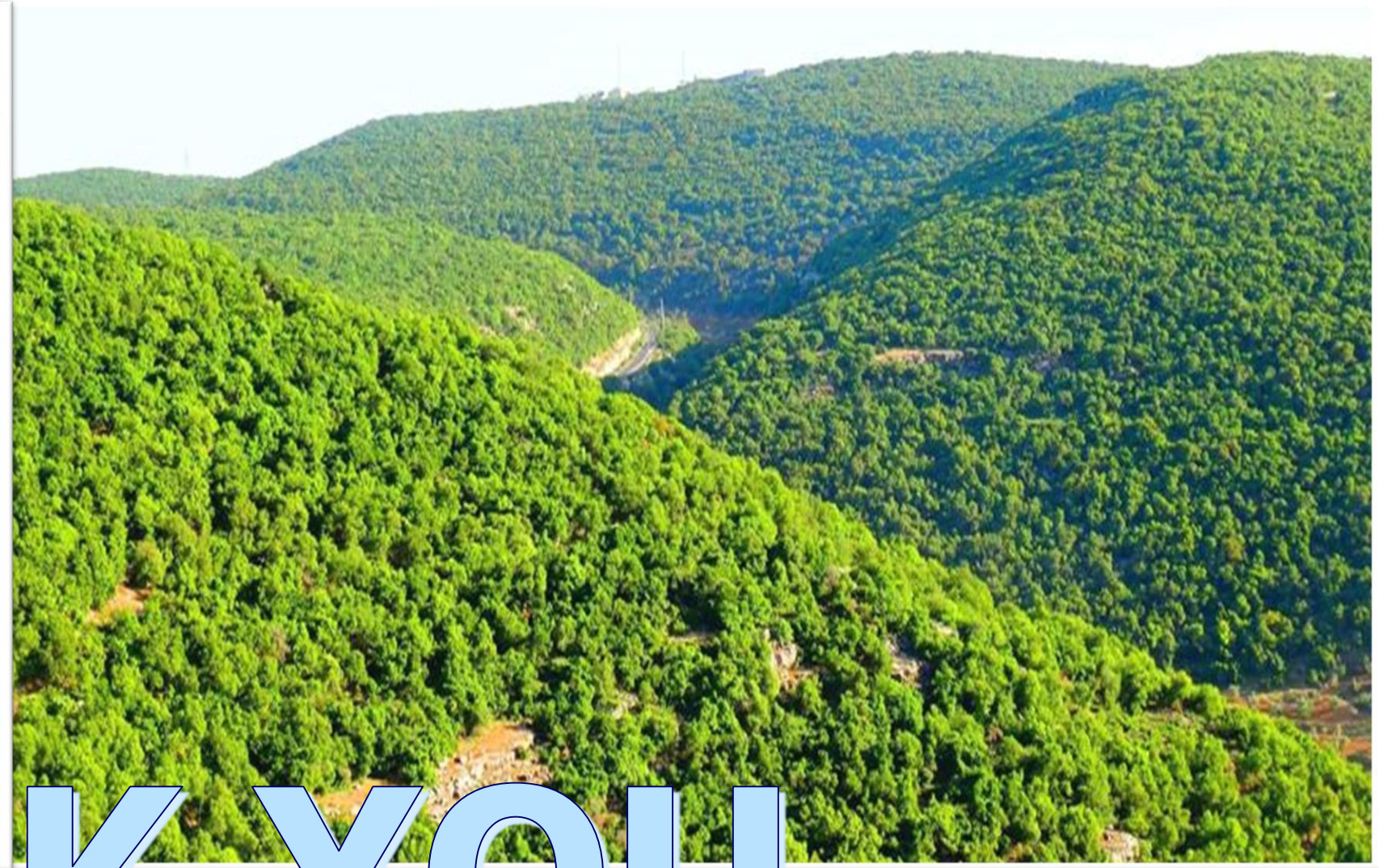
Results of the iELISA and the CFT on serum samples collected at different time intervals post vaccination with Rev 1 (conjunctival route).

Number of flock	Number of vaccinated Lambs	0 day		14 days		3 months		6 months		12 months	
		iELISA	CFT	iELISA	CFT	iELISA	CFT	iELISA	CFT	iELISA	CFT
1	24	16%	16%	77%	13%	41%	33%	0%	0%	0%	0%
2	24	8%	4%	86%	80%	43%	43%	0%	0%	0%	0%
3	24	4%	4%	93%	87%	14%	13%	0%	0%	0%	0%
4	22	0%	0%	70%	100%	27%	27%	0%	0%	0%	0%
5	18	0%	0%	88%	31%	20%	0%	69%	0%	0%	0%
6	17	5%	0%	65%	60%	68%	28%	50%	4%	0%	0%

-Significant increase in antibody levels were noticed after 14 days post vaccination by both iELISA and CFT

-After 90 days post vaccination (3 months) the levels of antibodies started to decrease and almost disappeared after 12 months.





THANK YOU

