



LSD VACCINATION PROGRAMME

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VACCINATION PRACTICES USED IN ISRAEL (CHRONOLOGICALLY)



LSD VACCINATION STRATEGY 1989-2012:

SHEEP POX-1

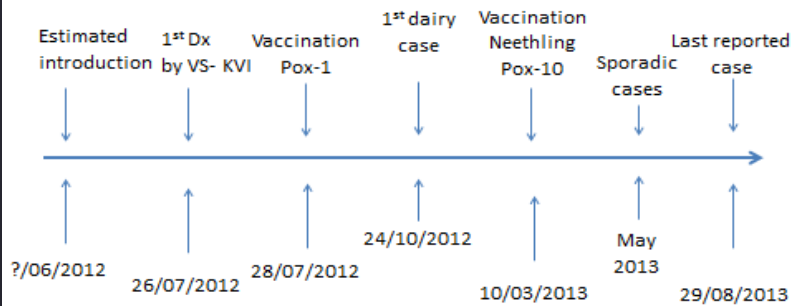
WORKS



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2012

Outbreak Timeline



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VACCINATION STRATEGY (EPIDEMIC)

- 10 kilometer radius
- Economic priority:
 - dairy farms
 - pedigree herds
 - bull sires herds
 - beef herds and feedlots
- In suspected herds: changing of needles for each head



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VACCINATION STRATEGY (HIGH RISK OF INCURSION)

- 10 kilometer from the borders
- According to producer instructions
- Annually
- Risk assessment according to the epidemiological status



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CLINICAL TRIAL: POX-10 AND NEETHLING VACCINES IN AN EPIDEMIC

- 15 milking herds within the infected area with no clinical cases on day 1 (12.03.2013-23.03.2013)
- In each herd: half herd was vaccinated with pox-10 vaccine and the other half was vaccinated with neethling vaccine
- Most of the animals were pre-vaccinated with pox-1



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CLINICAL TRIAL: POX-10 AND NEETHLING VACCINES IN AN EPIDEMIC

- Sum of animals vaccinated: 8480
 - pox-10: 4229
 - neethling: 4222
- Post vaccination surveillance



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CLINICAL TRIAL: POX-10 AND NEETHLING VACCINES IN AN EPIDEMIC

- DEFINITIONS:

Mild manifestation: skin nodules

Extensive manifestation:

- In milking cows: skin nodules, milk yield drop over 20%

- In heifers, calves and no milking cows: skin nodules and pyrexia/ hypersalivation/ depression



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CLINICAL TRIAL: POX-10 AND NEETHLING VACCINES IN AN EPIDEMIC

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8/15 farms were clinically effected



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CLINICAL TRIAL: POX-10 AND NEETHLING VACCINES IN AN EPIDEMIC

FARM	SUM OF VACCINATED CATTLE	CLINICAL CASES	PREVAC. WITH POX (CLINICAL CASES)	PREVAC. WITH NEETH (CLINICAL CASES)	DAYS FROM VACINE TO CLINICAL DISEASE
1	371	9	7	2	13
2	522	30	18	5	61
3	992	12	2	10	10
4	533	8	2	6	10
5	1056	7	4	3	12
6	751	4	3	1	15
7	564	2	0	2	12
8	757	17	15	2	62
Sum	5546	89	51	30	
	Incidence rate		56.6%	34.4%	



CLINICAL TRIAL: POX-10 AND NEETHLING VACCINES IN AN EPIDEMIC

- Discussion:
- Both vaccines are effective
- Clinical manifestations in the first 15 days:
 - Response to vaccine?
 - Former incubating LSD?



THANK YOU FOR LISTENING!

