Ultrasonic nebulizer SONOVAC 2006®

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ULTRASONIC NEBULIZER SONOVAC 2006®

PARTICLES 2-5 MICROMETERS PRODUCED AND BLOWN INTO THE CHAMBER (SMOKE)

MAZIJA, H., S. ČAJAVEC, E. PRUKNER-RADOVČIĆ, N. ERGOTIĆ, I. CIGLAR GROZDANIĆ, Ž. GOTTSTEIN, A. KOKIĆ, W.L. RAGLAND (2009):

Immunogenicity and safety of La Sota strain of Newcastle disease virus administered to newly hatched chicks by nebulization.

***Acta Veterinaria (Brno)*. 78, 137-144.**

MAZIJA, H., S. ČAJAVEC, N. ERGOTIĆ, I. CIGLAR GROZDANIĆ, Ž. GOTTSTEIN, W. L. RAGLAND (2009):

Immunogenicity and Safety of Queensland V4 and Ulster 2C strains of Newcastle Disease Virus Given to Maternally Immune, Newly Hatched Chickens by Nebulisation.

Avian Diseses, *in press.*

VACCINATION AGAINST NEWCASTLE DISEASE

AVERAGE ELISA TITRES OF DIFFERENT ND STRAINS

Treatment (exposure time - 60 sec)	Days after vaccination							
	0	7	14	21	28	35	42	49
Ulster 2C	$3151^{A,a}$ ±2033 (20)	$5693^{A,a}$ ±342 (2)	$585^{A,b}$ ±305 (19)	$230^{A,c}$ ±260 (19)	$1151^{A,b}$ ±1408 (20)	$3999^{A,a}$ ±5197 (20)	$882^{A,b}$ ±1549 (20)	$1499^{A,b}$ ±1607 (15)
La Sota	$3151^{A,a}$ ±2033 (20)	$3896^{A,a}$ ±3336 (10)	$836^{A,b}$ ±523 (20)	$307^{A,c}$ ±263 (20)	$1480^{A,b}$ ±1442 (20)	$3328^{A,a}$ ±2376 (20)	$1857^{B,b}$ ±1485 (17)	$1545^{A,b}$ ±1276 (15)
QV4	$3151^{A,a}$ ±2033 (20)	$3608^{A,a}$ ±2037 (10)	$1497^{B,b}$ ±1497 (19)	$1183^{B,b}$ ±1529 (20)	$1926^{A,a}$ ±1839 (19)	$3291^{A,a}$ ±3199 (20)	$1951^{B,a}$ ±1893 (19)	$2353^{A,a}$ ±1679 (14)
Non-vaccinated control	$3151^{A,a}$ ±2033 (20)	$2604^{A,a}$ ±1433 (10)	$615^{A,b}$ ±405 (17)	$76^{D,c}$ ±107 (14)	$2^{C,d}$ ±9 (15)	$3^{C,d}$ ±9 (15)	-	-

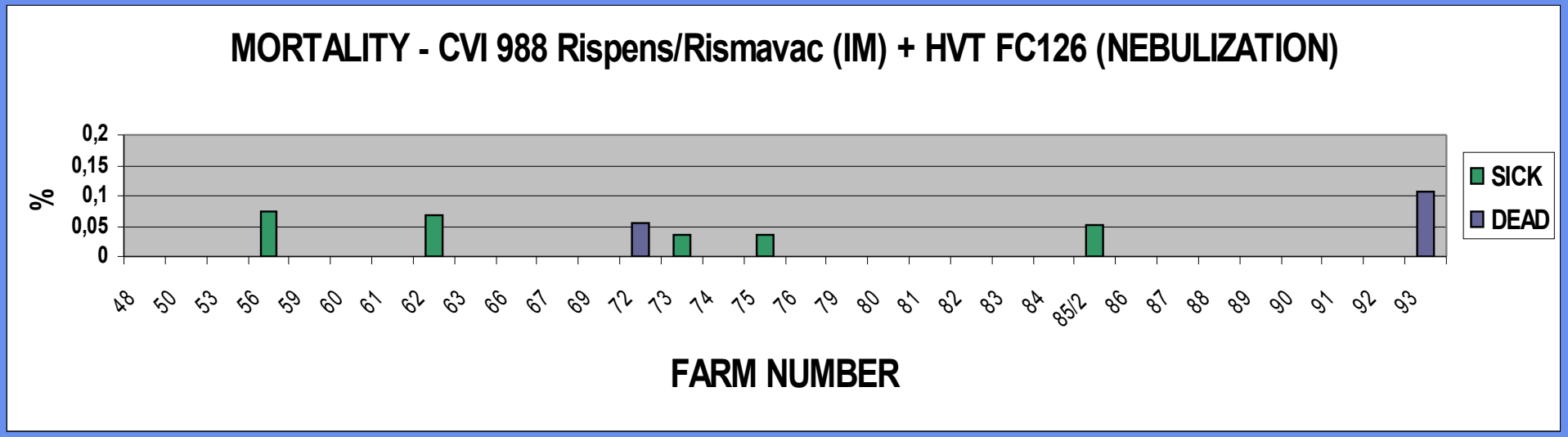
VACCINATION AGAINST NEWCASTLE DISEASE

SURVIVAL AFTER CHALLENGE WITH HERTS 33

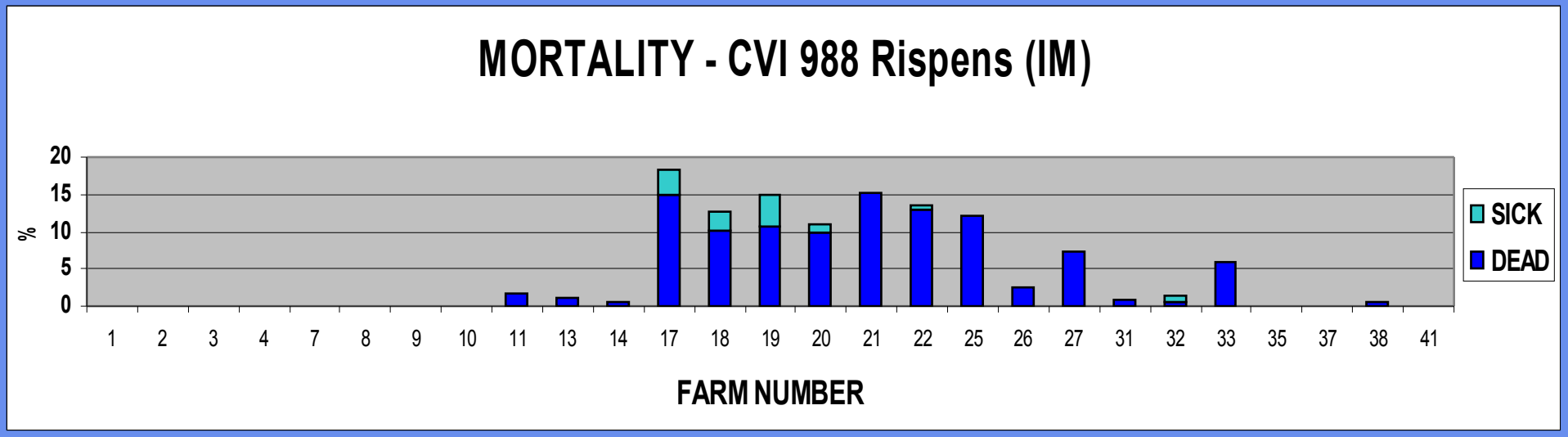
Treatment	Protection against challenge[1] Day of challenge							Cumulative mortality (dead/total)
	7	14	21	28	35	42	49	
Ulster 2C	15/15^{A} ,a	14/14^{A} ,a	14/15^{A} ,a,b	10/15^{A} ,a,b	14/14^{A} ,a	13/15^{A} ,B,a,b	11/15^{A} ,B,a,b	12/103^{A}
La Sota	15/15^{A} ,a	14/15^{A} ,a	15/15^{A} ,a	15/15^{B,} a	15/15^{A} .a	15/15^{A} a	15/15^{A} ,a	1/105^{B}
QV4	14/15^{A} ,a	12/13^{A} ,a	14/15^{A} ,a	13/15^{A} ,B,a	13/15^{A} .a	14/15^{A} ,B,a	14/15^{A} ,B,a	9/103^{A}
Unvaccinated control	12/15^{A} ,a	14/15^{A} ,a	10/15^{B,} C,a	7/15^{A,C} ,a,b	3/15^{C,b}	2/10^{C,b}	2/15^{C,b}	89/190^{D}

VACCINATION AGAINST MAREK'S DISEASE IN LAYERS

VACCINATION PERFORMED ON 195403 CHICKENS ON 32 FARMS



VACCINATION PERFORMED ON 152910 CHICKENS ON 27 FARMS



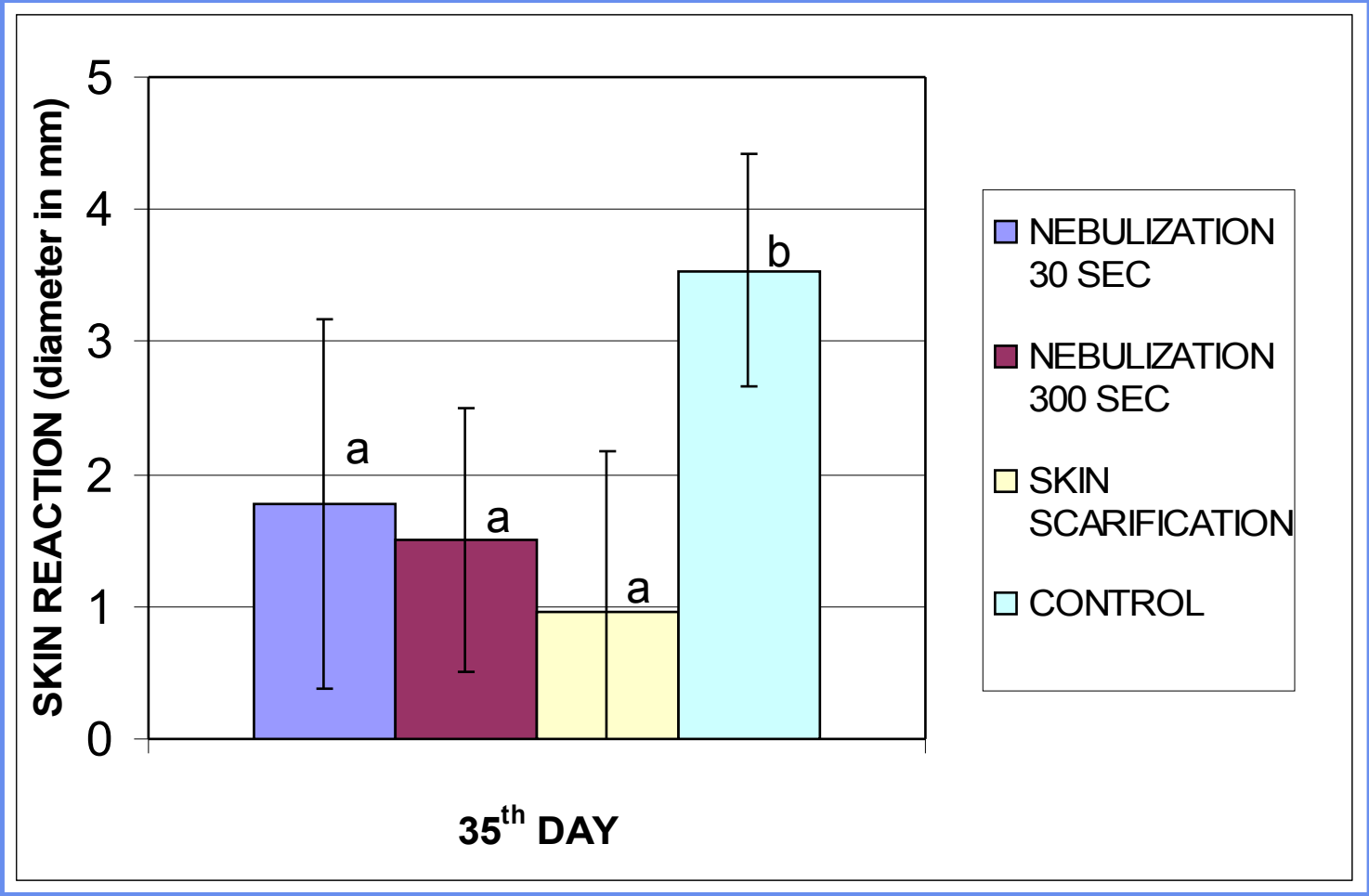
GOTTSTEIN, Ž., H. MAZIJA, I. C. ZUCKERMANN-ŠOŠTARIĆ (2006):
Isolation and identification of fowl Poxvirus using PCR applied as a vaccine by nebulization to newly-hatched chickens. ***World's Poultry Science Journal*****, 62 (Suppl.), 135.**

GOTTSTEIN Ž., I. CIGLAR GROZDANIĆ, D. HORVATEK, E. PRUKNER-RADOVČIĆ, S. ČAJAVEC , H. MAZIJA (2004):
Safety and Immunogenicity of Pigeon Poxvirus Vaccine Applied to Newly Hatched Chickens by Mean of Nebulization. Book of Abstracts XXII World's Poultry Congress, Istanbul, Turkey, 793.

GOTTSTEIN, Ž. I. CIGLAR GROZDANIĆ, Ž. CVETIĆ, H. MAZIJA (2007):
Detection of HVT FC 126 in lung tissue of chickens vaccinated by means of nebulization against Marek' s disease. ***15th World Veterinary Poultry Congress,***
Book of Abstracts Beijing, China,. 442

VACCINATION AGAINST FOWL POX

CHALLENGE AFTER VACCINATION USING PIGEON POXVIRUS



VACCINATION AGAINST FOWL POX

CHALLENGE AFTER VACCINATION USING FOWL POXVIRUS