

COOK COLLEGE . POULTRY HEALTH LABORATORY . 2569 EAST LANDIS AVENUE . VINELAND . NEW JERSEY 08360

January 23, 1979

In reply to your letter of January 11, 1979, we are furnishing you, in answer to your questions, all the information available to us on the subject:

- Question # 1 Exactly where, in the neck, is the injection for Marek's disease given?
 - Answer: Subcutaneously on the dorsum of the neck, two to three centimeters distal to the nuchal crest.
- Question #2 Is it at all possible, or even probable, that during the administration of the Marek's injection, the needle could or would come in contact with and pierce the membrane of the esophagus tube of the chick? Please exlain and specify.
 - Answer: It is possible, but very unlikely, in the hands of experienced vaccinators who are trained to grasp the loose skin in the back of the neck with the thumb and index finger, before thrusting the needle in; therefore, they can readily sense if they have grasped a tough muscular tube such as the esophagus.
- Question # 3 In which part of the neck and of the breast, exactly, are the antibiotic injections given?
 - Answer: The same area of the neck and the same technique is used for subcutaneous antibiotic injection as it is used for Marek's disease inoculation. For intramuscular administration, the pectoral muscle, that is, the large muscle mass which fills the cavity of the keel bone, is used. Occasionally, injections are made into the muscles of the thigh or the tibiatarsal bone.

Question # h - What percentage of chickens will receive antibiotic injections during their lifetime; that is, percentage of the whole sum total of the flock? Please specify.

Answer: 100 % of the chickens receive low levels of antibiotics in the feed for growth promotion. For therapeutic purposes, all the flocks are treated an estimated 2-3 times during their life - time.

We hope we have been of some help to you. If you have any additional questions, please do not hesitate to ask.

Sincerely yours

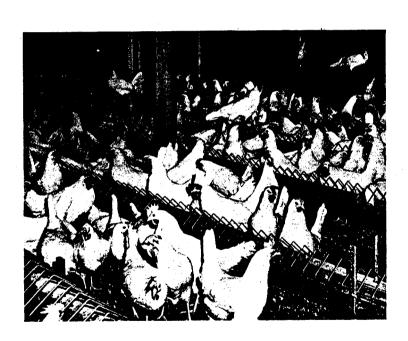
Otto Schwabe, D.V.M. Research Professor

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RUTGERS VACCINATION SCHEDULE FOR THE LAYING FLOCK

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COOPERATIVE EXTENSION SERVICE
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Vaccinations, if properly programmed for healthy birds, usually protect your flock against the bazards of Newcastle disease, bronchitis, infectious laryngotracheitis, fowl pox, and epidemic tremor.

A Guide and Suggestions for Vaccinating Replacement Pullets

- 1. Always read, understand, and follow the directions that come with the vaccine:
- 2. Remember you may be handling a live virus. It can cause a specific disease if improperly used. Be careful. Do not use vaccines after expiration date.
- 3. Birds to be vaccinated should be in good health.
- 4. Mix vaccine just before using, and use it within 4 hours after mixing. Keep mixed vaccines cool on hot days. Do not run live virus vaccines through rusty water pipes.
- 5. Be sure needle or brush carries vaccine to each bird. Do not stretch amount of vaccine.
- 6. Be careful when vaccinating. Do not try for a speed record. Get vaccine into the bird.
- 7. Avoid spilling vaccine on clothes or on litter. A block of wood with holes in it to hold vaccine bottles may be useful.
- 8. Burn all unused vaccine and unused portions of mixed vaccines at the end of each day.
- 9. Use the same strain of vaccine throughout the program except the Roakin strain of Newcastle, which: a. Should not follow the use of B1 type vaccines.
 - b. Should not be used on birds in production.
- 10. It is believed that stress is a factor in triggering dormant leukosis infections. Since some combinations of vaccines stress birds severely, each manufacturer's written instructions should be followed. It is best not to mix or combine Newcastle disease and bronchitis vaccines. Use these vaccines separately.
- 11. Crated birds should not be vaccinated until the time of release on new premises.
- 12. Yearlings: Recommend revaccination at the time of molt for all diseases for which previously vaccinated or for diseases prevalent in the area.
- 13. Sanitation by vaccination crews:
 - a. Wear clean outer clothing and clean rubber footwear between each farm vaccination job.
 - b. Clean and disinfect crates, trucks, tires, footwear, and equipment when each farm vaccination job is completed. Inspect these items for cleanliness before reuse.
 - c. Practice cleanliness at all times to avoid disease transmission.
- 14. Vaccines used in drinking water: Be sure water is fresh and free of sanitizers and chlorine.
- 15. Fowl cholera bacterin may require two injections given subcutaneously. Be sure to follow manufacturer's directions. (See item I above.)

		n "takes" and reactions	Length of
Vaccine Vaccine	Time to read reaction	L.esions	visible reaction
Fowl pox Modified pox	7 to 9 days	Small scabs and distinct swelling at wing-web site of stab vaccination.	5 to 15 days
Pigeon pox	7 to 9 days	Swelling of the follicles into which vaccine was placed.	5 to 15 days
Laryngotracheitis	4 to 5 days	Swelling and redness of upper lip of vent. Eye- drop reaction; may be watery eyes in 2% of birds.	3 to 7 days

Examine at least 5 percent of all birds vaccinated in each pen. If 80 percent "takes" are not visible, immediately contact your vaccination crew or supplier of vaccines.

If more than one serial lot of vaccine is used, record each serial lot and spot check at least 5 percent of the birds vaccinated with each serial lot of vaccine.

RUTGERS VACCINATION SCHEDULE FOR THE LAYING FLOCK Second Fires vaccination vaccination vaccination Vaccines for Age: Every 3 to 4 months or Age: 16 weeks or at housing NEWCASTLE B1 type. Age: 4 weeks. follow manufacturer's recom-Method: Water, intranasal. Use if no outbreaks have mendations. Method: Water, intranasal, intraocular, intramuscular, been reported in the area Method: Same as for second intraocular, intramuscular, or method of your choice. during the past month. vaccination. or method of your choice. Age: 16 weeks. Age: 4 to 6 weeks. NEWCASTLE Roakin strain. As above. Method: B1 type, as above Method: Wing-web stab. Do not use as first or Roakin strain wing-web vaccination after 6 weeks stab. of age. _ _ _ _ _ Age: 4 to 5 weeks or not Age: Up to 4 weeks. NEWCASTLE B1 type. earlier than 3 weeks after As above. Use on birds under 4 Method: Water, intranasal, first vaccination. intraocular, intramuscular, weeks of age when out-Method: Same as for first or method of your choice. breaks occur in area. vaccination. Not necessary unless birds Not necessary unless Age: 12 to 18 weeks. BRONCHITIS Mass. type recommended by are vaccinated before 12 Method: Water, intranasal, or polyvalent - Mass. manufacturer. weeks of age. Follow or intraocular. Conn. type vaccine. manufacturer's directions. Age: Not necessary for Age: 6 to 20 weeks or LARYNGOTRACHEITIS vent-brush vaccine. If first Not necessary. Vaccinate all birds on older if necessary. eye-drop vaccination is Method: Vent-brush vaccine farm at same time. If an before 10 weeks of age. or eye-drop vaccine. outbreak occurs, vacapply eye-drop vaccination cinate all susceptible, again at 16 to 20 weeks. birds immediately. Age: 6 to 8 weeks after Age: 2 to 6 weeks. LARYNGOTRACHEITIS first vaccination. Not necessary. Method: Eye-drop vaccine, If vaccination becomes Method: Eve-drop vaccine or vent-drop vaccine. necessary before 6 weeks or vent-brush vaccine. Variable results before 4 of age. weeks of age. Age: 8 to 16 weeks. FOWL POX Not necessary. Method: Fowl pox or Where early protection modified pox vaccine: is not necessary. NOTE: During pox reaction period, do not stress birds by wing-web stab - 2 needles. giving any other vaccines or by debeaking. Pigeon pox vaccine: Brush or spray into 1" by 2" area of exposed feather follicles on leg or wing-web stab if directed by manufacturer. Age: 16 to 20 weeks or Age: 1 day to 8 weeks. FOWL POX Not necessary. before housing. Method: Modified pox Where early protection is Method: Same as for first vaccine only. Wing-web necessarv. vaccination. Wing-web stab may be preferred by manu-Pigeon pox vaccine: facturer. Follow printed Spray or brush into directions. exposed feather-follicle area on leg. Age: 10 to 16 weeks. EPIDEMIC TREMOR Not necessary. Method: Live virus vaccine: (AE OR AVIAN ENCEPHALOMYELITIS) water.

replacement pullets.

For breeders or

Age: 15 to 20 weeks.

Method: Killed virus vaccine: subcutaneous

injection.

Supersedes Leaflet 383.