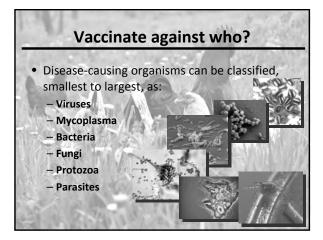
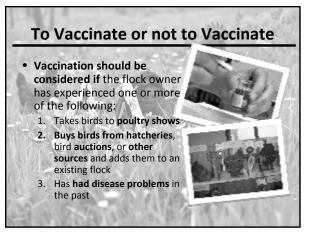
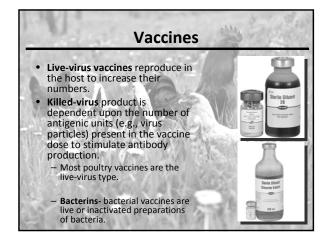


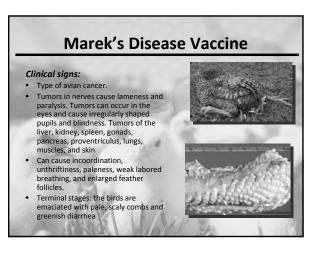
WHY VACCINATE?

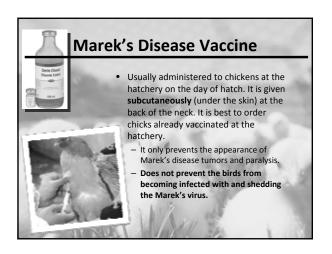
- Vaccination is an effective means to prevent and/or reduce the adverse effects of specific diseases in poultry.
- Poultry:
 - chicken, turkey, duck, goose, quail, pheasant, pigeon, guinea fowl, pea fowl, ostrich, emu and rhea



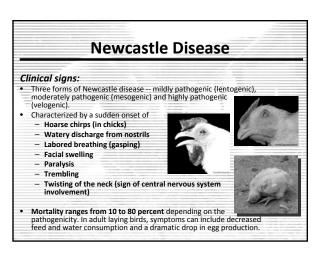


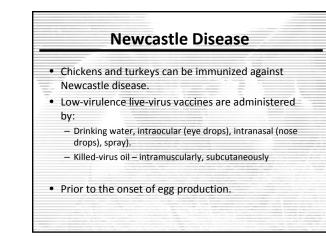


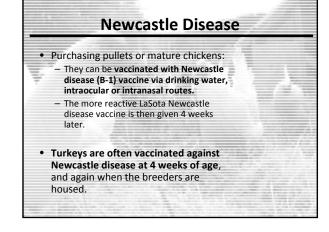


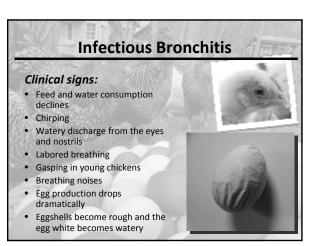


Marek's Disease Vaccine Susceptibility: chickens 2 to 16 weeks of age (prior to sexual maturity) Marek's disease can occasionally occur in pheasants, quail, game fowl, and turkeys.









Infectious Bronchitis

- This is primarily a **respiratory disease** of chickens. Modified live-virus vaccines (usually containing the Massachusetts serotype) are administered in young chickens.
- Vaccines are effective only if they contain the right serotype of virus for a given area.

Do not vaccinate during an outbreak.

- Infectious bronchitis is often combined with Newcastle vaccine in the same vial and given at the hatchery or at 10-35 days of age.
- Killed-virus vaccines (oil emulsion base) are also available.
 - Administered by injection (subQ or IM) to breeders from 14-18 weeks of age

Laryngotracheitis

Clinical signs

- Watery eyes
- Birds remain quiet difficulty breathing
- Coughing, sneezing
- Shaking of the head dislodge exudate plugs in the windpipe
- Birds extend their head and neck - facilitate breathing
- Wheezing and gurgling sound



Laryngotracheitis

- · Affects both chickens and pheasants.
- Vaccination is not as successful as for other diseases
 - An excellent preventive measure for use in outbreaks and in
- State approval is required prior to vaccination.
- Do not vaccinate unless you have a problem on your farm
- All chickens on the premises must be vaccinated, including any new birds that are added later. Yearly boosters are
- Administered by the eye- or nose-drop method.
- Birds should be at least 4 weeks old.

Foul Pox

Clinical Signs

- Dry form
- Raised, wart-like lesions on unfeathered areas The lesions heal in about 2 weeks.
- If the scab is removed before healing is complete, the surface beneath is raw and bleeding.
- Unthriftiness and retarded growth
- Laving hens: decline in egg production
- Wet form
- Canker-like lesions in the mouth, pharynx, larynx, and trachea.
- Respiratory distress upper air passage obstruction Chickens may be affected with either or both form of fowl pox at one time.



Foul Pox

- Six closely related strains of pox virus:
- Fowl pox, pigeon pox, quail pox, canary pox, psittacine pox, and ratite pox.
- Pox can be prevented in chickens, turkeys and pigeons by vaccination, but there is no effective commercial vaccine against canary pox.
- Chickens and pigeons are usually vaccinated by the wing web stick method.
 - An applicator with two slotted needles dipped in vaccine and thrust through the wing web.
- Turkeys are not generally vaccinated by the wing web route.
 - Vaccinated by a thigh-stick method.



Foul Pox

- All domestic chicks and poults can be vaccinated at 1 day of age, pullets at 10 to 12 weeks, and turkeys at 8 to 14 weeks or when moved to range.
- The virus is spread from bird to bird through the bites of blood-sucking insects or through wounds and scratches by the birds when fighting.
- If there is a heavy mosquito infestation in an area, small flock owners may consider vaccinating with fowl pox vaccine.

Fowl Cholera

Clinical signs

- · Usually strikes birds older than 6 weeks
- Dead birds (first sign)
- Fever
- Reduced feed consumption
- Mucoid discharge from the mouth
- Ruffled feathers
- Diarrhea
- Labored breathing
- Weight loss
- Lameness from joint infections
- Rattling noises exudates in air passage
- Abscessed wattles
- Swollen joints and foot pads Turkeys may have twisted necks

Fowl Cholera

- Affects most birds including domestic fowl (primarily chickens and turkeys), game birds (especially pheasants), ducks, cage birds, wild birds.
- Two types of fowl cholera vaccines
 - live attenuated
 - Inactivated bacterins
- Oral vaccine live attenuated administered in the drinking water.
- Oil-emulsion bacterins -series of two injections given at 4 week intervals.
- Do not vaccinate unless you have had a problem on your area.

Avian Encephalomyelitis

Clinical signs

- Signs commonly appear during the first week of life
- Dull expression of the eyes
- Progressive in-coordination
- Sitting on hocks
- Tremors of the head and neck
- Paralysis or prostration
- Inactivity
- Walking on their hocks
- Feed and water consumption decreases
- Transitory drop (5-20 percent) in egg production
- Chickens which survive may develop cataracts later in life





Avian Encephalomyelitis

- Avian encephalomyelitis (AE) is a viral infection of poultry, primarily chickens, turkeys, pheasants, and coturnix quail.
- Lifetime immunity is acquired through vaccination or recovery from a natural outbreak
- Breeder chickens are vaccinated at 10-16 weeks of age. The vaccine is administered in the drinking water.
 - Pheasants: 5-10 weeks
 - Bobwhite quail: 6-10 weeks
- Avian encephalomyelitis should not be confused with St. Louis encephalitis.





TIPS FOR SUCCESSFUL VACCINATION

- Vaccination of poultry younger than 10 days of age cannot be expected to produce uniform or lasting immunity, even in the absence of parental immunity.
 - Except for Marek's disease (given on the day of
- Rotate vaccine stock. An outdated product may have
- Each vaccine is designed for a specific route of administration.
- Use only the recommended route see LABEL
- Do not vaccinate sick birds (except in outbreaks of laryngotracheitis or fowl pox).

TIPS FOR SUCCESSFUL VACCINATION

- Protect vaccines from heat and direct sunlight.
- Most vaccines are living, disease-producing agents. Handle them with care.
- When using the drinking-water method of vaccination, be sure the water is free of sanitizers and chlorine.
- Livevirus vaccines are readily destroyed by these chemicals.
- After vaccinating, burn or disinfect all opened containers to prevent accidental spread to other poultry.

