



Now we can
breathe
easier

Nobilis[®] RTV 8544 & Nobilis[®] RT inac

Keep protection rates up



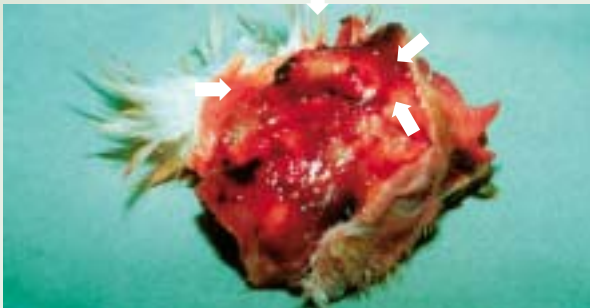
TRT Virus

A respiratory disease

TRT Virus



*Swollen head caused by TRT infection**



Purulent exudate in the head



E.M. image of TRT virus

- Avian pneumovirus
- Causes respiratory disease in turkeys called Turkey Rhinotracheitis
- Causes respiratory disease in chickens known as Swollen Head Syndrome

Broilers

- Birds are susceptible at 4 - 5 weeks of age
- Mortality rate 1 - 20%
- Poor feed conversion rate
- Increased condemnation rates
- Signs aggravated by secondary infections

Breeders / Layers

- Onset of disease often at time of peak production
- Drop in egg production 5 - 30%
- Drop in hatchability
- Signs aggravated by secondary infections

**Photograph: Prof Dr HM Hafez*

Nobilis® RTV 8544

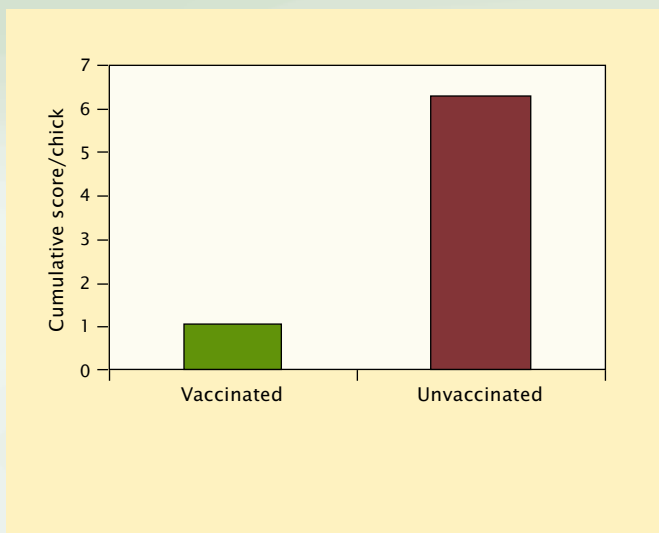
Control by cross protection

Cross protection

Major antigenic similarities between TRT virus strains isolated from chickens and turkeys⁽¹⁾



Vaccination with turkey isolate of TRT virus will protect chickens against TRT virus infection⁽²⁾



Laboratory trial⁽³⁾

- Chickens vaccinated with live vaccine Nobilis RTV 8544 (turkey isolate of TRT virus) at 1 - 7 days of age, by eye drop.
- For 7 days following challenge with chicken isolate of TRT virus, clinical signs were scored individually from 0-3.
- With Nobilis RTV 8544, chickens are well protected against challenge with chicken isolate of TRT virus (Swollen Head Syndrome).

Control

Preventive measures

Broilers

Vaccination with **Nobilis RTV 8544**

Breeders / Layers

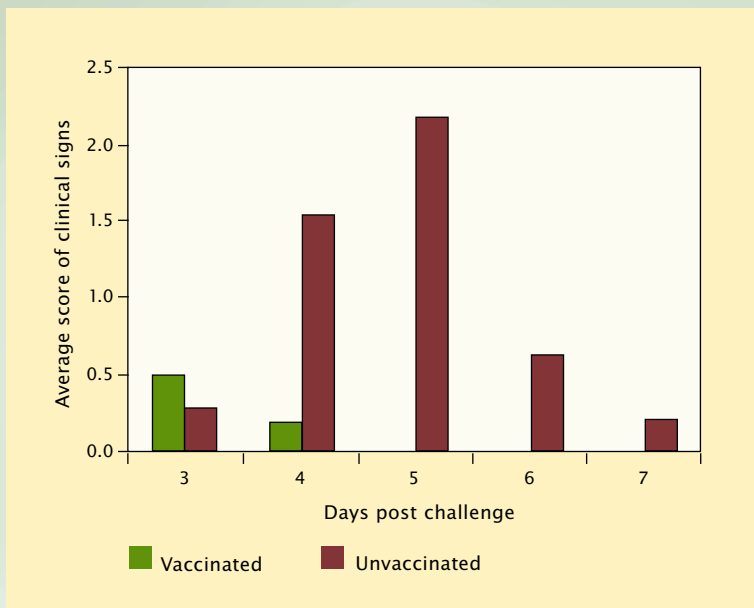
Primer vaccination with **Nobilis RTV 8544**
Booster vaccination with **Nobilis RT inac**

Treatment

Limit the damage of secondary bacterial infections by treating with antibiotics

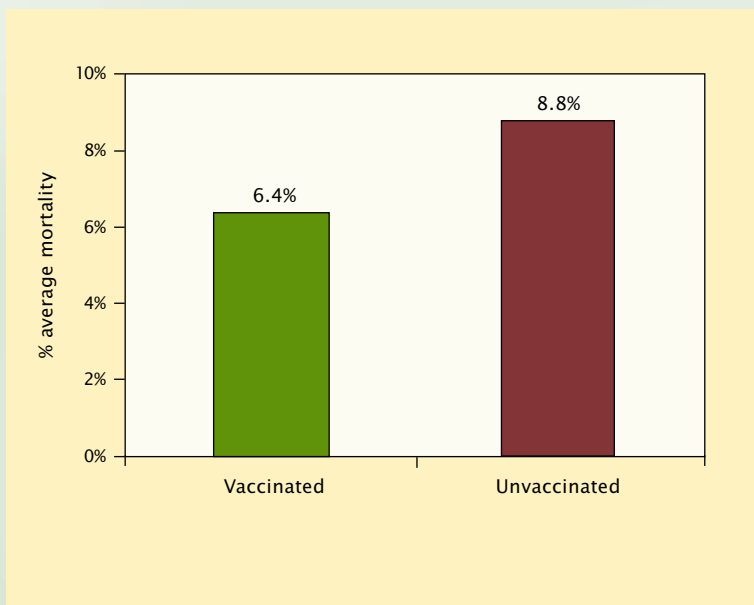
Nobilis® RTV 8544

Effective from Day 1



Laboratory trial

- Day old SPF chicks vaccinated with Nobilis RTV 8544 by eye drop.
- Challenge, 3 weeks after vaccination with chicken isolate of TRT virus.
- For 7 days following challenge, clinical signs were scored individually from 0-6.
- Nobilis RTV 8544 vaccinated chicks show excellent protection against clinical signs following challenge.



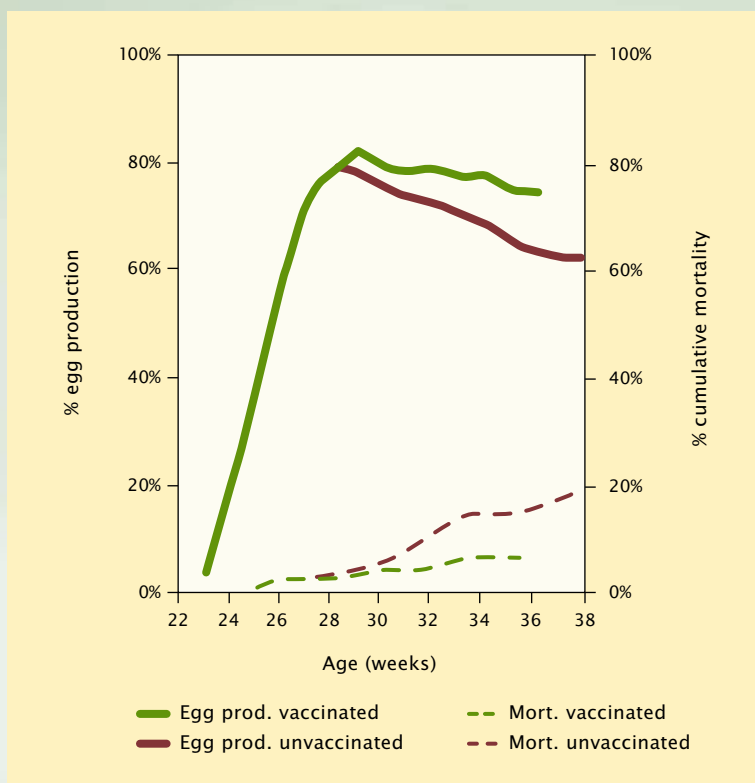
Field experiment

- 18 problem broiler sites.
- Over 16.5 million broilers, from over 23 flocks vaccinated with Nobilis RTV 8544.
- Vaccination with coarse spray from 1 - 18 days of age.
- In more than 90% of the flocks mortality dropped.
- Decrease of average mortality almost 30%.

Nobilis® RTV 8544 Nobilis® RT inac

Keep egg production up and mortality rates down

Field experiment



- Flock of broiler breeders primed with Nobilis RTV 8544 by spray at 14 weeks of age and boosted with Nobilis RT inac at 18 weeks of age. One flock remained unvaccinated.
- TRT field infection at 25 weeks of age (vaccinated flock) and at 27 weeks of age (unvaccinated flock).
- Unvaccinated breeders had swollen heads and watery eyes. Birds were sleepy and physically exhausted. Flock suffered from increased mortality and a drop in egg production.
- No signs of Swollen Head Syndrome in vaccinated birds.

Situation 10 weeks after TRT outbreak

	Unvaccinated	Vaccinated
% egg production	61.7%	72.8%
% cum. mortality	20.0%	7.6%*

- Loss of profit caused by TRT outbreak in unvaccinated flock estimated to be 10.1%.

* Somewhat higher mortality due to colibacillosis

Nobilis® RTV 8544 Nobilis® RT inac

Keep production rates up

For broilers, breeders and layers

Suggested vaccination schedules

Broilers

Age	Vaccine
From day 1 onwards*	Nobilis RTV 8544

*In case of early field infections, 2 vaccinations are required, the first vaccination at day 1 of age

Breeders / layers

Age	Vaccine
10 - 12 weeks	Nobilis RTV 8544
18 - 20 weeks	Nobilis RT inac

NOBILIS RTV 8544

Description:

Nobilis RTV 8544 is a live freeze dried vaccine against Swollen Head Syndrome caused by Turkey Rhinotracheitis virus infections in chickens. Each dose contains at least 3.0 log₁₀ TCID₅₀ of TRT virus strain BUT 1#8544.

Indication:

Active immunisation of chickens against Swollen Head Syndrome caused by Turkey Rhinotracheitis virus infections.

Administration:

The vaccine should be administered by coarse spray or eye drop.

Presentation:

Nobilis RTV 8544 is available in 1000 dose presentations.



NOBILIS RT inac

Description:

Nobilis RT inac is an inactivated oil emulsion vaccine against Swollen Head Syndrome caused by Turkey Rhinotracheitis virus infections in chickens. Each dose contains at least 50 ELISA units.

Indication:

Booster vaccination of breeders and layers to prevent Swollen Head Syndrome caused by Turkey Rhinotracheitis virus infections.

Administration:

The dosage is 0.5 ml per chicken. The vaccine should be administered by intramuscular injection in the thigh or chest muscle or subcutaneous injection in the back of the neck.

Presentation:

Nobilis RT inac is available as single and combined vaccine (i.e. Nobilis RT+IB multi+G+ND) in 1000 dose presentations.



References:

- 1) Cook, JKA et al, 1993. Avian Path 22: 257-273
- 2) Buys, SB et al, 1989. J of South African Vet Ass 60: 221-222
- 3) Cook, JKA et al, 1995. Vet Rec 136: 392-393

Intervet Research Makes The Difference