

VOL 1

GUMBORO
Disease myths &
management , That might
make you encounter
catastrophic
mortalities



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ONE GUMBORO VACCINE ADMINISTRATION

Because most Gumboro disease outbreak coincides with either second or third booster vaccination ,it is assumed that it is safe to limit vaccine exposure to just once or twice,



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have you not
heard about
MDA?



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MDA; MATERNAL DERIVED ANTIBODIES

These antibodies could be induced by either exposure to natural disease and/or by active immunisation of parent stock,



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MDA; MATERNAL DERIVED ANTIBODIES

Parent stock transfer maternal antibodies (MDA) to their offspring through, egg yolk where antibodies gets absorbed into the circulatory system.



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MDA; MATERNAL DERIVED ANTIBODIES

This provide early protection from disease, but may interfere with chicks vaccination efficacy



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MDA; MATERNAL DERIVED ANTIBODIES

Following birth, the concentration of maternally derived antibodies declines with half life every 5 days, early introduction of **GUMBORO** vaccine to chicks with high **MDA**



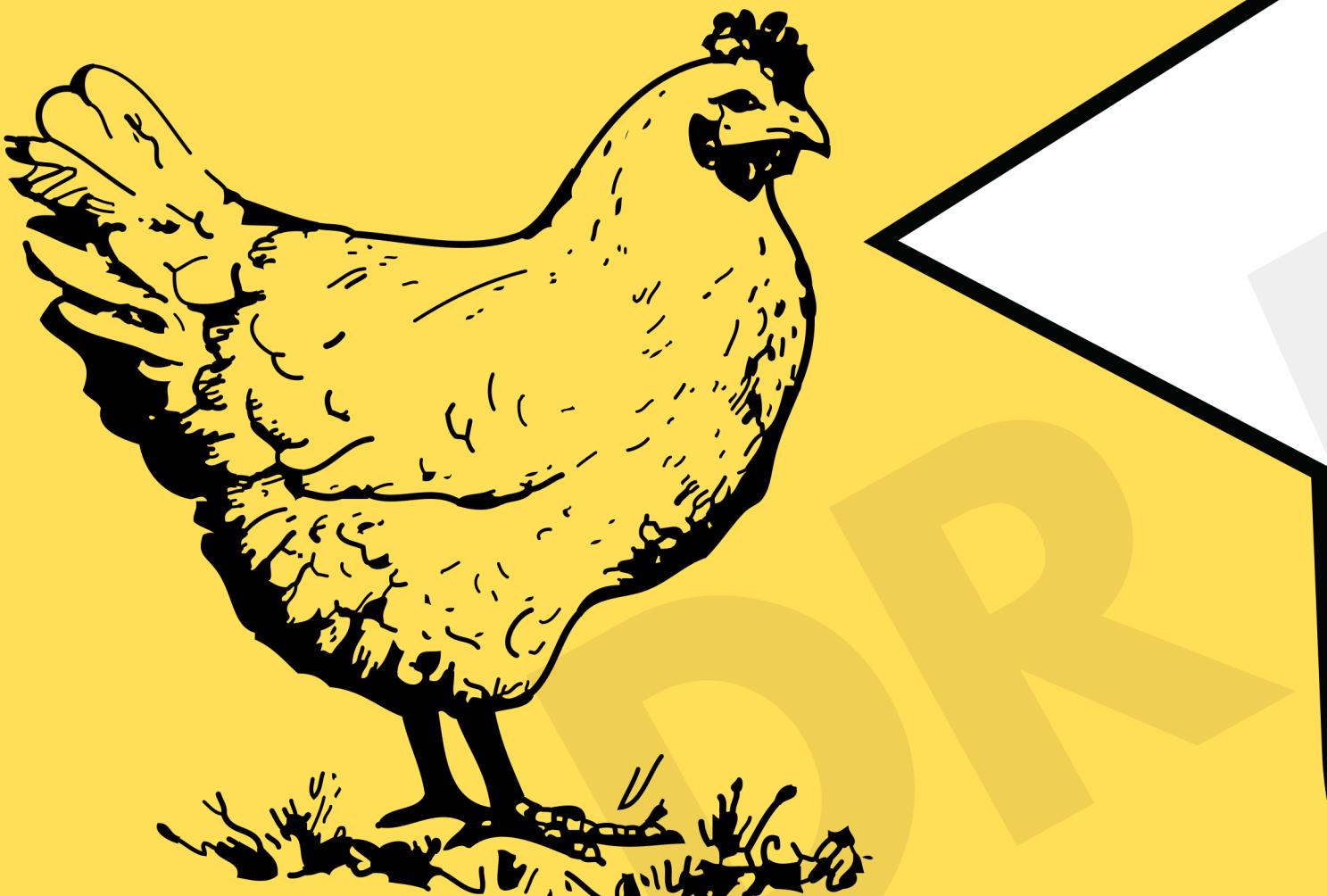
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MDA; MATERNAL DERIVED ANTIBODIES



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reacts with vaccine virus
(ANTIGEN), inducing
SERO-NEUTRALIZATION ,
leaving a **GAP** (birds
will be susceptible to
Field GUMBORO VIRUS) as
there will be no active
immune response.



MDA; MATERNAL DERIVED ANTIBODIES

IN A NUTSHELL

Birds will not have any fighting soldiers (**antibodies**) to protect them when **villians/ANTIGENS (FIELD GUMORO VIRUS)** invades their territories

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MDA; MATERNAL DERIVED ANTIBODIES



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IN A NUTSHELL

mass mortalities begins due to
GUMBORO DISEASE
clinical signs manifestations



MDA; MATERNAL DERIVED ANTIBODIES

But introduction of **GUMBORO** vaccine to chicks with low **MDA** triggers excellent **SERO-CONVERSION** which provides chicks with great immune response

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MDA; MATERNAL DERIVED ANTIBODIES

IN A NUTSHELL

Birds will be fully protected as their fighting soldiers (**ANTIBODIES**) are battle ready when villains/**ANTIGEN** (**FIELD GUMBORO VIRUS**) invades their territories



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MDA; MATERNAL DERIVED ANTIBODIES

UNFORTUNATELY

Most hatcheries distributes
an obsolete vaccine schedule ,
not in tune with chicks latest
MDA status

MDA; MATERNAL DERIVED ANTIBODIES



UNFORTUNATELY

Majority of farmers rely on
experience or seek random
vaccine schedules from
colleagues and others

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WHAT SHOULD BE DONE



SERUM-MONITORING

chick blood sample should be collected for serum analysis , within the first 3-5days of life to quantify MDA titres



**WHAT SHOULD BE
DONE**



SERUM-MONITORING

A Vaccine schedule will be extrapolated based on MDA titres of chicks.

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WHAT SHOULD BE DONE



SERUM-MONITORING

This is reliable and reduces incidence of serum-neutralization, vaccine failures as well as GUMBORO outbreaks



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WHAT SHOULD BE DONE



CONSULT WITH THE LAB

This can't be done by guess work, seek and employ the services of a livestock diagnostic laboratory...



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DID YOU LEARN
SOMETHING





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IF YOU DID



**SAVE, COMMENT &
SHARE**



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prepared this slide
expect more from this

series

Thank you

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