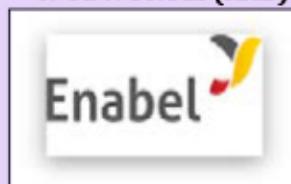


REPUBLIKA Y'U RWANDA
IKIGO CY'IGIHUGU GISHINZWE GUTEZA IMBERE UBUHINZI
N'UBWOROZI (RAB)



UBURYO BWO GUCUNGA NO KWITA KU
BWOROZI BW'INKOKO, INDWARA Z'INKOKO
N'UBURYO BWO KUZIRINDA

Gusinzira



Kujunjama



Guta inkonda



Uburyo bwo kwirinda indwara



Gashyantare, 2021

UMUSHINGA UGAMije GUTEZA IMBERE UBWOROZI BW'INKOKO MU RWANDA
(BELGIAN DEVELOPMENT AGENCY PROJECT: ENABEL)

**UBURYO BWO GUCUNGA NO KWITA KU
BWOROZI BW'INKOKO, INDWARA Z'INKOKO
N'UBURYO BWO KUZIRINDA**

GASHYANTARE 2021



*Ibyo numvise nshobora
kubyibagirwa*

*Ibyo mbonye
ndabyibuka,*

*Ibyo nkora ndabyumva
nkabigira ibyanjye*

Umufashamyumvire mu bworozi bw'inkoko

Telefone:.....

Umuudugudu:.....

Akagari:.....

Umurenge:.....

Akarere:.....

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UBURYO BWO GUCUNGA NO KWITA KU BWOROZI BW'INKOKO, INDWARA Z'INKOKO N'UBURYO BWO KUZIRINDA

Intego y'isomo: Nyuma y'iri somo umufashamyumvire azaba ashobora gusobanukirwa neza ibi bikurikira: Kumenya ibyiza by'ingamba z'ubwirinzi mu bworozi bw'inkoko (Biosecurity) n'igihombo byateza iyo bititaweho. Kumenya uko umworozi yitegura kwakira imishwi, kwita ku mishwi y'umunsi umwe (kuva ku munsi umwe kugera ku kwezi), kwita ku nkoko z'ibgwana (izitera n'izitanga inyama), kwita ku nkoko zitera amagi, kwita ku nkoko zitanga inyama, kumenya ahagenewe gushyirwa inkoko zapfuye n'ingaruka byateza umworozi, Kumenya abinjira muri famu isuku yabo n'ingarukaz'igihombo biteza iyo bitubahirijwe.

Nyuma y'iri somo umufashamyumvire azaba ashobora gusobanukirwa neza ibi bikurikira: Kumenya guhitamo aho kororera hatabangamiye abantu, umutungo kamere n'ibidukikije. Ugaragaza ingamba zo guhangana nabyo. Kumenya ibyiza by'ingamba z'ubwirinzi mu bworozi bw'inkoko (Biosecurity) n'ingaruka byatera mu guhumanya ikirere. Gufata neza ibyakoresshejwe muri famu, gutunganya amazi yakoreshejwe, imyanda n'ifumbire bikagira aho bitunganyirizwa bikabyazwa umusaruro bitagize uwo bibangamira cyangwa ngo bihumanye ikirere. Kubahiriza amabwiriza y'imyubakire, y'ikigo gishinzwe ibidukikije n'ikigo cy'ubuziranenge n'amabwiriza y'ikigo cy'igihugu RAB gishinzwe iterambere ry'ubuhinzi n'ubworozi agenga ubworozi bw'inkoko. Kumenya uburyo bwiza bwo gushyungura inkoko zapfuye n'ibisigazwa byavuye mu ibagiro no mu ituragiro ry'inkoko kuburyo bitagira ingaruka kubuzima bw'abantu n'ikirere.

Nyuma y'iri somo umufashamyumvire azaba ashobora gusobanukirwa neza ibi bikurikira: Gutandukanya Inkoko nzima n'inkoko irwaye. Igisobanuro cy'indwra z'inkoko . Ibitandukanya Indwara z'inkoko, indwara n'ibimenyetso byazo,kwirinda no kubahiriza gahunda y'inkingo,gusuzuma, gusuzumisha, Kuvuza no kwita ku nkoko zirwaye, kugabanya imiti n'imikoreshereze yayo mu bworozi bw'inkoko.

Ingamba z'ubwirinzi mu bworozi bw'inkoko (Biosecurity) Impamvu tugomba gushyiraho ingamba z'ubwirinzi

-  Gukumira indwara n'ikwirakwira ryazo

6.1.2. Bimwe mubishobora gukwirakwiza indwara

-  Ibikoresho (Ubunywero, uburiro,.....)
-  Amazi
-  Abantu
-  Gusukura ikiraro no hanze yacyo
-  Kwirukana udukoko (Imbeba, intozi,.....)
-  Shyira umuti wo gukandagiramo
-  Nta nkoko yemerewe gusohoka ngo igaruke mu kiraro
-  Abashyitsi ntibemerewe kwinjira mu kiraro

6.1.3. UBURYO BWO KWIRINDA IKWIRAKWIRA RY'INDWARA



-  Gusukura ikiraro no hanze yacyo
-  Gutera umuti (D4, Virocid, Kupacid,.....)
-  Kwirukana udukoko (Imbeba, intozi,.....)
-  Guteganya aho gukarabira, ahagenewe gushyira umuti wo

gukandagiramo

-  Nta nkoko yemerewe gusohoka ngo igaruke mu kiraro
-  Guteganya umwambaro n'inkweto zigenewe gukoresha mu kiraro gusa
-  Abashyitsi ntibemerewe kwinjira mu kiraro
-  Gusukura ibikoresho buri munsi
-  Urugi rw'ikiraro rugomba guhora rufunze

6.2. Uko umworozzi yitegura kwakira imishwi

N.B: Gutangira neza bitanga amahirwe angana na 50% kugirango umworozzi agere ku ntego.

Ibikorwa bitandukanye bikorwa hitegurwa na nyuma yo kwakira imishwi

Kwita ku mishwi y'inkoko ni igikorwa gisaba ubushishozi n'ubunararibonye buhambaye cyane cyane mbere na nyuma yahoo imishwi igereye aho igomba kurererwa. Iyo Umworozzi atateguye neza aho imishwi y'inkoko igomba kwakirirwa mbere yuko ihagera (gutegura neza inzu igomba kwakirirwamo imishwi) ahura n'ighombo gikomeye cyane. Gutegura neza aho imishwi igomba kwakirirwa birareba aborozi bose (aboroye inkoko nyinshi n'aboroye inkoko nkeya, Izitanga Inyama, izitera Amagi ndetse n'izimberabyombi).

Ibantu bine byingenzi byitabwaho mu kurera imishwi

1. Ni gute utangira kwita ku mishwi?
2. Ibisabwa mu kwita kumishwi
3. Igihe imishwi imara aho irererwa n'ibiyikorerwa
4. Ni gute imishwi irerwa

6.2.1. Mbere yuko imishwi ihagera umworozzi agomba gutunganya ibi bikurikira;

- Gusukura ikiraro no hanze yacyo
- Gutera umuti(byibura iminsi 7 mbere yo kmwakira imishwi)

- Gushyira isaso mukiraro(byibura ku mubyimba wa centimetero 5-8)
- Gushyushya ikiraro byibura amasaha 24 mbere yuko inkoko imishwi ihagera
- Amazi agomba kuba ari mu kiraro amasaha 2 mbere yuko imishwi ihagera
- Ibirylo bigomba kuba biri mu kiraro amasaha 4 mbere yuko imishwi ihagera

Icyitonderwa: Kwita ku mishwi y'inkoko bigizwe n'ibice bibiri by'ingenzi aribyo: Mbere yo kwakira imishwi na Nyuma yo kwakira imishwi. Amasaha makumyabiri n'ané (24) yambere n'ingenzi cyane mu bworozi bw'inkoko n'ubwo n'ibindi bihe byose bikurikira bigomba kwitabwaho.

Ibindi bigomba kwitabwaho mbere yo kwakira imishwi:

Ikiraro cy'inkoko kigomba gutegurwa neza hagashyirwamo:

- Ibpapuro byabugenewe bisaswa hasi mu kiraro aho imishwi irira
- Gukora uruziga aho imishwi igomba kurererwa hakurikijwe umubare wayo
- Ubushyuhe (hifashishijwe: Amakara, Amashanyarazi, Gaze,...)
- Urumuri ruhagije mu kiraro
- Umwuka uhagije mu kiraro

Ibi byose bigomba gushyirwa mu mwanya wabugenewe byibuze amasaha atatu mbere yuko imishwi igeria mu kiraro.

Kwita k'ubushyuhe mu kiraro cy'inkoko

Ubushyuhe mu kiraro cy'inkoko bugomba kwitabwaho cyane. Urumuri ndetse n'ibindi byifashishwa mu kongera ubushyuhe mu kiraro cy'inkoko bigomba gusuzumwa byibuze isaha imwe cyangwa abiri bishyizwe mu kiraro kugira ngo imishwi ijemo bizwi neza ikigero cy'ubushyuhe kiri mu kiraro. Ibi bikorwa hifashishijwe Terimometero yabugenewe. Urumuri n'ubushyuhe mukiraro cy'inkoko bishyirwamo hitawe ku mihindagurikire y'ikirere.

Impapuro zabugenewe zisaswa mu kiraro

Izi mpapuro zisaswa mu kiraro byibuze isaha imwe mbere yuko imishwi igezwa mu kiraro. Umworozi agomba kureba neza ko izo mpapuro zifite isuku ihagije kuburyo ntandwara zateza imishwi.

Guhitamo aho imishwi igomba kurererwa mu kiraro

Ni byiza ko umworozi arerera imishwi hagati mu kiraro akaba ariho hubakwa uruziga rw'irerero ry'imishwi.

Uko umushwi w'umunsi umwe witabwaho



Nyuma yo kugeza imishwi aho izororerwa, nibyiza kuyitereka kuruhande umwanya muto ungana n'iminota itanu ukareba neza uko imize mbere yuko uyinjiza aho igomba kurererwa.

Uko imishwi ipimwa ibiro (garama) ifite.



Umworozi agomba gupima buri karito irimo umubare runaka w'imishwi, akandika ibiro abonye bya buri imwe imwe, nyuma agapima ikarito yonyine amaze kuvanamo imishwi. Ibi bituma umenya byibuze ibiro (garama) ya buri mushwi. Umworozi ashobora kandi gupima buri mushwi mugihe afite umubare muto w'imishwi.

Gushyira imishwi aho igomba kurererwa



Nyuma yo gupima imishwi, umworozi iyishyira mu kiraro aho igomba kurererwa, nyuma agakurikirana imyitwarire yayo (uko igenda, inywa amazi, irya,...)

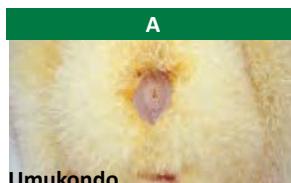
Gutandukanya imishwi itameze neza n'imizima

Gutandukanya imishwi igaragaza imbaraga nke n'indi, kuyiha amazi arimo ibisukari byongera imbaraga (girikoze). Kureba niba ntabindi bimenyetso by'uburwayi imishwi igaragaza.

Ibiragaza umushwi mwiza



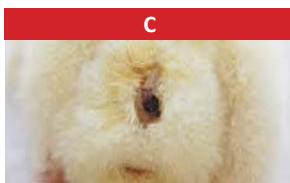
- Umushwi w'umutse neza, long-fluffed down.
- Umushwi ukeye cyane kandi ushabutse, wiburungushuye, ufite amaso akeye cyane.
- Umushwi ukomeye kandi uvuga cyane.
- Umushwi ufite amaguru akeye cyane kandi ufite umunwa ukomeye
- Umushwi udafite ibisebe cyangwa amaraso ku mubiri.
- Umushwi udafite ubusembwa cyangwa ubumuga (ubumuga bw'amaguru, ijosi ndetse n'umunwa)



Umukondo



B



C



Amaguru



Ihiniro



Imiterere	A Byiza cyane	B byiza gahoro (byemewe)	C Cull
1. Imiyitwarire	Umushwi ushobora gusimbagurika mu masegonda 3	Umushwi ubasha gusimbagurika nyuma y'amasegonda 4-10	Umushwi urenya amasegonda 10 cyangwa ukananirwa gusimbagurika
2. Umukondo	Usukuye ntamwanda uriho	Hafunze neza	Hadafunze, hari imyanda yafunze umukondo
3. Amaguru	Asukuye, yumutse	Yumutse muburyo ibice bwinwe/ibindi bitumutse neza.	Humaguritse cyane
4. Ihiniro	Asukuye nta mwanda	Mu ihiniro hagaragara utudomo cy'umutuku	Hagaragara ibara ry'umutuku
5. Inenge	Isukuye nta nenge	Inenge nto zigaragara (urugero: umuhondo w'amagi ugaragara ku bwoya, etc.)	Kuvuka ntamaso/ amaguru afite ubumuga, umunwa uhengetse, kuvuka nta bwoya,...

Guha imishwi amazi

Iyo imishwi yakiriwe imeze neza, ntakindi kibazo igaragaza, umworoz
ayiha amazi asukuye yonyine byibuze mu masaha abiri ya mbere.
Umushwi waba ugaragaza imbaraga nke ugahabwa amazi arimo
ibisukari.

Guha imishwi ibiryo

Mbere yo gushyira imishwi aho igomba kurererwa, ugomba kubanza ugashyira ibiryo hasi kubikarita byabugenewe kugirango imishwi ibanze imenyere ibyo biryo. Ibi bifata igihe gito cyane, nyuma nibwo itangira kurira mu ruriro rwabugenewe bukoze mu mbaho cyangwa purasitiki.

Gusuzuma ubukonje n'ubushyuhe mu kiraro cy'inkoko

Nyuma yo kwitegerezza neza imyitwarire y'imishwi mu kiraro, umworozi agomba gukora isuzuma ry'ubukonje n'ubushyuhe bw'imishwi. Isuzumwa rikorwa hagendewe ku mibare y'imishwi umworozi afite. Nyuma y'isaha imwe imishwi ishizwe maho igomba kororerwa, umworozi afata byibuze kimwe cy'ijana (1%) cy'imishwi yoroye akareba uko utuguru tumeze ko nta biryo cyangwa amazi byafasheho. Ushobora gukoza utuguru tw'umushwi ku mubiri wawe kugira ngo wumve ko dushyushye cyangwa dukonje. Ibi biguha kumenya neza ko ubushyuhe mu kiraro cy'inkoko bumeze neza cyangwa ugomba kugira icyo ubukoraho. Nyuma y'amasha abiri w'akiriye imishwi ushobora guha imishwi amazi arimo ibisukari (girikoze). Hanyuma ugakomeza n'amazi asukuye kandi ahoraho.

Gukomeza gusuzuma imyitwarire y'imishwi

Umworozi agomba guzusuma imyitwarire y'imishwi byibuze nyuma ya buri masaha atatu (3), agomba kureba ko ubushyuhe ari bwinshi cyangwa buke. Iyo hari ikibazo kigaragaye mu bworozi kigombwa guhita gishakirwa igisubizo vuba cyane. Iyo hari umushwi wapfuye umworozi agomba guhita awuvana mu kiraro vuba cyane. Iyo impapuro zishashe hasi zatose ugomba kwihutira kuzihindura. Amazi agomba guhoraho buri gihe.

Gusimbuza impapuro imishwi iriraho

Byibuze nyuma y'amasha 24, impapuro zose zigomba kuwanwa mu kiraro cy'inkoko. Isaso ikreshwa mu kiraro cy'inkoko igomba kuba yumye neza. Umwuka uhagije ni ngombwa cyane mu kiraro cy'inkoko.

IBIKORESHO BYIFASHISHWA MU BWOROZI BW'INKOKO

Ibikoresho byifashishwa mu bworozi bw'inkoko akenshi biterwa n'impamvu ndetse n'uburyo umworozi yahisemo korora inkoko ze (inkoko zitanga inyama cyangwa amagi, cyangwa izimberabyombi). Ibyo bikoresho ni:

- Ibyo zinyweramo amazi
- Ibyo ziriramo
- Ibitanga urumuri
- Ibyo zitereramo amagi (ku nkoko zitanga amagi)

6.3. Imishwi y'umunsi umwe (kuva ku munsi umwe kugera ku kwezi)



6.3.1 Ibyangombwa bikenerwa mu kwita ku mushwi w'umunsi umwe kugera ku kwezi

Isaso;

Isaso igomba kuba yujuje ibi bikurikira; yumutse, idafite umwanda, yoro-shye kandi ifite umubyimba uhagije (5-8 cm).

Amazi n'ibiryo

Ibiryo bigomba kuba ari byiza, bifite intungamubiri zihagije kandi bihagije, zinabigeraho neza.

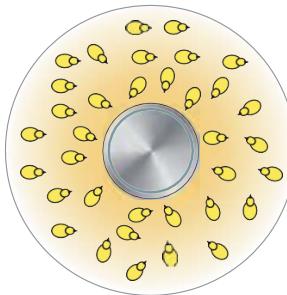
Amazi agomba guhora mu kiraro buri gihe, byoroheye inkoko kuyageraho kandi akaba ari amazi meza.

Urumuri

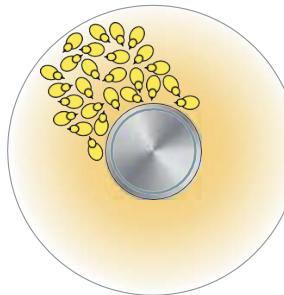
Urumuri ni ingezi ku mikurire y'imishwi kuko rutuma igira ubushake bwo kurya bitryo bigatuma habaho kwiyongera kw'ibiro ndetse no mugihe zitera bigatyma umusaruro w'amagi wiyyongera. Ku munsi wa mbere urumuri rugomba guhoraho amasaha 24 kuri 24, hanyuma guhera ku munsi wa kabiri hakagenda hagabanukaho isaha imwe buri munsi.

Ubushyuhe

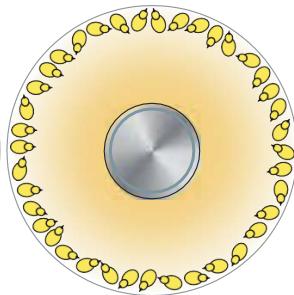
Umworozi agomba gutangira gushyushya ikiraro byibura amasaha 48 mbere yuko imishwi imugeraho, ibi bifasha mu kwirukana ubukonje ndetse n'im-pumuro mbi ishobora gutterwa n'umuti aba yarakoresheje asukura ikiraro.



*Ubushyuhe bwiza mu
irerero ry'imishwi*



*Ubushyuhe buri
uruhande rumwe mu
irerero ry'imishwi*



*Ubushyuhe bwinshi
cyane mu irerero
ry'imishwi*



Umwuka; Inkonko kimwe n'ibindi binyabuzima zikenera umwuka, ni muri urwo rwego ikieraro kigomba kuba cyubatse kuburo umwuka mubi ubasha gusohoka n'umwuka mwiza ukinjira bitryo hakabaho ihindagurika ry'umwuka mu kiraro.

IBYINGENZI BYITABWAHO KU MUNSI WA 1

Umworozi agomba kugenzura kuburyo buhoraho niba mu bunywero harimo amazi meza yo kunywa.

Ibyo kurya bigomba guhoraho cyakora umworoz akagenda agabura bike bike mu rwego rwo kwirinda ko byangirika cg imishwi ikabimena.

UMUNSI WA 2 KUGEZA KU MUNSI WA 7

Amazi n'ibiryo ntibigomba kubura mubunnywero n'uburiro.

Kontorora ubushyuhe bukenewe mukiraro ugendeye kumyitwarire y'inkoko mu kiraro.

Kurikirana ko buri gihe mu kiraro harimo umwuka mwiza kdi uhagije Genda wagura ahashyuhirizwa

Mu gihe umworoz abonye inkoko yapfuye mu kiraro agomba kuyikuramo

Icyumweru cya 2

Amazi n'ibiryo ntibigomba kubura mubunnywero n'uburiro
Kontorora ubushyuhe bukenewe mukiraro ugendeye kumyitwarire
y'inkoko mu kiraro

Kurikirana ko buri gihe mu kiraro harimo umwuka mwiza kdi uhagije
Hindura ibiryo utangire iby'izikuze
Genzura isaso ko yumutse kandi iseseka

Uburyo bwo kugaburira inkoko

Uburyo bwo kugaburirira inkoko aho zororewe (mu kiraro) hifashishijwe
ibikoresho bya bugenewe

Ubwoko bw'ibikoresho inkoko ziriramo

Ku nkoko zitanga inyama zororewe mu kiraro hifashishwa amoko atatu
y'ibikoresho inkoko ziriramo:

1. *Uburiro buto:* Bukoze mu giti kandi burebure mu murambararo,
bureshya n'intambwe 2 cyangwa 3, bushobora kuwyamo ibiro 5
by'ibiryo.



2. Uburiro buringaniye



3. Uburiro bunini

Icyitonderwa: Ku bworozi bw'inkoko bukorerwa muri kaje, hifashishwa uburiro burebure cyane bukoze muri purasitike cyangwa mu cyuma.



Uburiro bw'inkoko zitera amagi



Kurera imishwi ni iki?

Kurera imishwi ni uburyo bwifashishwa mu kubundikira umubare munini w'imishwi hadakoreshejwe uburyo busanzwe aho inkokokazi ubundikira imishwi yayo. Ubu buryo busimbura inkokokazi bushobora kwifashishwa mu kurera imishwi mike cyangwase myinshi cyane.

Ibikoresho bitandukanye byifashishwa mu kurera cyangwa mu kubundikira imishwi



1. Imbabura hakoreshejwe amakara
2. Amashanyarazi
3. Gaze

Ibyo inkoko zinyweramo

Ibikoresho inkoko zinyweramo biri mu bwoko butandukanye aribwo:

1. Ibikoresho bito byagenewe imishwi



2. Ibikoresho biringaniye binyweramo inkoko nkuru
3. Ibikoresho binyweramo inkoko ziri muri kaje



KWITA KU NKOKO ZITANGA INYAMA



Ibisabwa mu bworozi bw'inkoko zitanga inyama

Ubwoko bw'inkoko zitanga inyama bushobora kororwa ku mubare munini cyane cyangwa ku mubare muto. Ubu bwoko bw'inkoko buroroshye cyane kurora kandi ntabwo busama amikoro menshi cyane ugereranyije n'inkoko zitanga amagi. Ubworozi bw'inkoko zitanga inyama buragenda butera intera ndende cyane aho usanga aborozi bashobora no kororera hafi cyane y'ingo batuyemo, kuko akenshi butanga imirimo ndetse n'inyungu ibukomokaho ikiyongera vuba cyane. Ubu bworozi boshobora kugora n'aborozi bafite amikoro ahagije ndetse n'abafite amikoro make.

Nubwo ubu bworozi bw'inkoko zitanga inyama bworoshye cyane, aborozi basabwo kubujyamo biteguye cyane kuko iyo bukozwe mu buryo butaribwo, umworozu ashobora kugwa mu bihombo bitateganyijwe.

Mbere yo gutangira ubworozi bw'inkoko zitanga inyama, umworozu agomba kubanza gutekereza ku bintu bikurikira:

1. Umubare w'inkoko agiye korora
2. Amazi inkoko zizakenera
3. Ibiryo inkoko zizarya
4. Isoko ry'inyama

Umubare w'inkoko agiye korora



Iminsi (1-10): Imishwi 40/kuri meterio kare 1

Iminsi (11-20): Imishwi 30/Kuri metero kare 1

Iminsi (21-30): Imishwi 10/Kuri metero kare 1

Amazi inkoko zizakenera



Mu cyumweru cya mbere, imishwi 150 iba ikeneye igikosho kimwe inyweramo amazi (Drinker), iyo kurugero woroye imishwi 1000, uba ukeneye byibuze ibikoresho byo kunyweramo amazi 15.

Kuva kucyumweru cya kabiri ugomba kongeramo ibindi bikoresho 5, mu cyumweru cya gatatu wongeramo ibindi bikoresho 5 inkoko zinyweramo, ugakomeza kugeza ku cyumweru cya kane aho inkoko 1000 zizaba zikenye ibikoresho zinywera mo amazi mirongo itatu (30 drinkers). Iyo bibaye ngombwa ntugurishe inkoko zawe mugihe cy'ibyumweru 4, ushobora kongeramo ibindi bikoresho inkoko zinyweramo.

Icyitonderwa: Mu buzima busanzwe inkoko inywa amazi angana na litiro ebyiri kuri eshatu (2-3L) ku kiro kimwe cy'ibiryo (1k), gusa ibi birahinduka mugihe cy'izuba ryinshi cyangwa mu duce dushyuha cyane.

1. Ibiryo inkoko zizarya





Poultry Feed Formulation | Standard Requirements

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Iyo habayeho icyo kibazo cy'impiswi mu bworozi bw'inkoko zitanga inyama, inkoko zitakaza ibiro, kandi ibi bikunze gufata inkoko zikiri ntoya cyane. Ni bibi cyane mu bworozi guha imishwi ibiryo by'ibigwana. Ibiryo by'inkoko zegerejenigihe cyo kubagwa bitangwa byibuze buri nkoko yujuje amagarama 1600 (1600gr).

Uko ibiryo by'inkoko bikorwa

Ibiryo by'inkoko bishobora gukorera wa m'uruganda hakoreshejwe imishini zabugenewe cyangwa bigakorwa bivanzwe n'intoki.

Ibisabwa mu gukora ibiryo by'inkoko

Ibiryo by'inkoko zaba izitanga inyama, izitanga amagi cyabgwase izimberabyombi, bikorwa hifashishijwe uruvange ry'ibiryo bigizwe

n'intungamubiri zitandukanye kandi ku kigero gitandukanye. Muribyo haba harimo ibyubaka umubiri, ibitera imbaraga, ibirinda indwara, imyunyu ngugu, ndetse na Premix zitandukanye. Ibi bishobora kuvangwa hifashishijwe ikoranabuhanga cyangwa bivanzwe ku ijanisha ryabugenewe kuri buri kimwe.

Urugero twafata, ni kubigori bizwiho kuba bigize igice kini cy'ibigize ibiryo bigaburirwa inkoko, aho akenshi hakoreshwia ingano ya 60-70% y'ibigize ibiryo by'inkoko.

Urumuri mu bworozi bw'inkoko zitanga inyama



Mu bworozi bw'inkoko zitanga inyama, ni byiza ko urumuri ruguma mu kiraro amasaha 24 kuva ku mushwi w'umunsi umwe kugeza ku kigero cyo kubagwa.

URUMURI MU BWOROZI BW'INKOKO ZITERA AMAGI



Urumuri mu bworozi bw'inkoko zitera amagi ni ngombwa cyane. Gusa hari aho biba ngombwa ko ingana cyangwase amasaha asabwa y'urumuri ku munsi aterwa n'ubwoko bw'inkoko woroye.

Urumuri mu bworozi bw'inkoko zitera amagi rugenda ruhinduka bitewe n'ikigero cy'ubukure inkoko zigezemo, aho byubuze ku munsi wa mbere imishwi iba ikeneye urumuri amasaha 24/24. Ku cyumweru cyambere n'icya kabiri imishwi iba ikeneye urumuri byibuze rungana namasaha 23/24, icyumweru cya gatatu imishwi iba ikene urumuri rungana namasaha 20/24, uru rumuri rugenda ruhinduka kugeza aho rugera ku masaha 16/24 ku munsi mugihe byibuze 5% y'inkoko itangiye gutera amagi. Urumuri ni kimwe mu bituma inkoko ziryacyane (amasaha menshi) zigakura vuba kandi zigatanga umusaruro mugihe gito cyane. Aha tubikutse ko inkoko zitaweho neza zishobora gutangira gutera amagi mugihe cy'iminsi 126, aha bivugwa ko byibuze buri nkoko iba imaze kurya ibiro 7 by'ibiryo (7kg).

ISOMO RYA 8: INDWARA ZITANDUKANYE ZIGARAGARA MU BWOROZI BW'INKOKO



- 6.1 Indwara n'ibimenyetso byazo
- 6.2 Kvirinda no gukumira indwara
- 6.3 Gusuzuma, gusuzumisha, Kuvuza no kwita ku nkoko zirwaye
- 6.4 Imiti n'imikoreshereze yayo



UBURYO BWO KWIRINDA INDWARA Z'INKOKO

KWIRINDA NO KUGENZURA INDWARA Z'INKOKO

Ubwirinzi ni uburyo bukoreshwa mu kurinda ikwirakwizwa ry'indwara mu nkoko. Ubu buryo bwubahirizwa hirindwa urujya n'uruza rw'ibinyabuzima bishobora gutera izo ndwara nka virusi, bagiteri, imbeba n'abantu n'ibindi bintu.

KWIRINDA BIRUSHA KWIVUZA!!!!

IBIKUBIYE MURI IRI SOMO

- Iriburiro
- Isuku n' isukura
 - Ibikoresho by'ibanze mw'isuku ni isukura
(UBWIRIZI – BIO- SECURITY)
 - Impamvu
- Uburyo bwo gusukura (ikiraro mbere yo kwakira inkoko, zirimo, nyuma)
- Imyitwarire ijyanye no gukumira indwara mubworozи bw'inkoko
- Gahunda yo kwirinda hakoreshejwe imiti n' inkingo
- Ibitera indwara mu inkoko
- Kwirinda hakoreshejwe inkingo
- Kwirinda hakoreshejwe imiti
- Indwara z'inkoko
 - bimenyetso by'inkoko zirwaye
 - Amoko y'indwara z'inkoko
 - Uko umworozi yakinwara abonye ibimenyetso by'ndwara mu inkoko

1. Iriburo

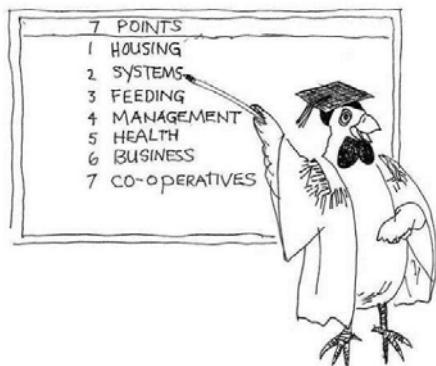
- ❖ Inkoko ni itungo rifatwa n'indwara muburyo bworoshye kandi bwihuse.
- ❖ Indwara z'inkoko zihungabanya ubuzima rusange bw'inkoko kandi ni kimwe mubitera igihombo mu bworozi.

- ❖ Gufata ingamba zo kurwanya no gukumira indwara z'inkoko ni iby'agaciro mu bworozi bw'inkoko kuko gukumira indwara byakozwe nezabihendutse kurusha kuzivura.
- ❖ Iyo umworoz amenye igitera indwara n'uburyo zikwirakwizwa, ashobora gufata ingamba zo kugabanya no kwirinda ingaruka indwara zateza ubworozi bwe.
- ❖ Hari ibintu byinshi bishobora gutera indwara mu nkoko: isuku nkeya, udukoko dUTERA uburwayi , urujya n'uruza rw'abantu namatungo aho inkoko zororewe, indyo ituzuye n' ibindi.

2. Isuku n'isukura

Isuku n'isukura ni
ibikorwa byose bikorwa
n'ingamba zifatwa kugira
ngo hirindwe indwara
n'ikwirakwizwa ryazo mu
inkoko.

- Isuku mu bworozi bw'
inkoko ikumira udukoko
dUTERA uburwayi kwinjira,
gukwirakwira no
kugumamo.



2.1 Ibikoresho by'ibanze mu isuku n'isukura

No	Izina	Ishusho
1.	Isarubeti	

2.	Agapfukamunywa	
3.	Akanozasuku	
4.	Akazenga k'umuti	
5.	Bote	
6.	Uturindantoki	
7.	Ipombo	

Ishusho igaragaza uko umushyitsi yambara mbere yo kwinjira ahororewe inkoko



❖ Ibinyabutabire bikoreshwa mu kwirinda

Zimwe mu ngero z'ibinyabutabire bikoreshwa mu kwirinda ikwirakwizwa ry'indwara:

- Alukole
- Kleoline
- D4
- Ishwagara y'ifu
- N'ibindi (Umworozi yakwegera ahacurizwa imiti yamatungo bakamufasha).

KURINDA NO GUKUMIRA IBYATERA INDWARA

- ❖ Uburyo bwo gukumira no kurinda indwara mu bworozi bw'inkoko:
- ❖ Isuku igomba kuboneka:
- ❖ Aho bororera,
- ❖ Ibyo bagaburiramo n'ibyo zinyweramo
- ❖ Amazi zinywa ndetse n'ibindi bikoresho

Ubwirinzi ni uburyo bwose bukoreshwa kugira ngo hirindwe udukoko dutera indwara kugera aho inkoko zororewe. Ubworozi butarangwamo indwara bugabanya impfu z'inkoko zorowe mu kiraro ndetse n'ibihombo biturutse mu gukoresha imiti bitari ngombwa. Inkoko zifite ubuzima buzira umuze zitanga umusaruro ndetse n'umworozi akabona inyungu ishimishije.

Ku bw'umwihariko, kugira ngo hirindwe udukoko dutera uburwayi mu bworozi bw'inkoko, ni ngombwa ko hubahirizwa ibintu bikurikira:

Abakozi bakora mu biraro n'abashyitsi bose bagomba gukaraba intoki bakoresheje isabune mbere yo kwinjira mu biraro. Bagomba kubanza kubanza kwisukura bakoresheje imiti yica ubukoko butera indwara mbere yo kwinjira mu biraro.ndetse bagomba no kwambara imyenda y'isuku yabugenewe (bote,isurubeti, agapfukamunwa, akanozasuku, n'udupfukantoki).



Uburyo bwo kwirinda ikwirakwizwa ry'indwara z'inkoko

- ✓ Kugenzura abantu baturutse hanze y'aho inkoko zororewe
- ✓ Kwirinda gukoresha isaso itose mu kiraro cy' inkoko
- ✓ Kubahiriza gahunda y'inkingo
- ✓ Gutera imiti yica mikorobe n'udukoko mu ibiraro by'inkoko
- ✓ Kubahiriza umubare w'inkoko mu cyumba cy' ubworozi ugendeye ku kigero cy' ubukure zigezemo
- ✓ Kwirinda kwivurira inkoko

Uburyo bwo gusukura

Wakwirinda ute indwara n'ibyorezo mu bworozi bwawe wita ku isuku?

1. Ita cyane ku isuku, woza utera n'umuti wica udukoko wabigenewe mu buryo buhoraho.
2. Hindura isaso. Kirazira gushyira inkoko ku isaso ishaje cyangwa yakoreshejwe n'izindi nkoko



3. Ubahiriza gahunda ikurikizwa mu kuzana izindi ikindi cyiciro
4. Fata ingamba zo kwakira abashyitsi mu buryo butagukururira indwara
5. Kumira ibyonyi ntibyegere cyangwa ngo byinjire mu kiraro cy'inkoko
6. Ita cyane ku buziranenge by'ibyo ugaburira inkoko
7. Ubahiriza gahunda yo gutanga inkingo

Uko basukura ikiraro kigiye kwakira inkoko bwambere

- Sukura ikiraro ukoresheje isabune, tangirira ku gisenge, hanyuma inkuta ugera hasi.
- Ibuka gusukura inkuta nogukuramo ibitagangurirwa
- Sukura inzu n'ibikoresho nyuma ukoreshe umuti wica udukoko

wabigenewe

- Siga ishwagara ikiraro cy'inkoko hasi no ku nkuta byibuze metero imwe uvuye hasi
- Tegereza nibura iminsi ibiri humuke maze ushyiremo isaso yumutse
- Shyiramo isaso ikwiranye n'ubuso bwose bw'ikiraro nibura k'umubyimba wa santimetero eshanu (5cm)
- Isaso igomba gutterwa umuti wica udukoko
- Funga neza ikiraro cyawe utegereze ibyumweru bibiri mbere yo gushyiramo inkoko.

Isuku y'ikiraro n'ibikoresho mugihe harimo inkoko

- Umukozi ukora mu kiraro kirimo inkoko agomba guhora afite isuku, yambaye ibikoresho byabugenewe kandi mbere yuko yinjira mu kiraro agakandagira mu muti wica udukoko uri imbere y'umuryango w'ikiraro cy'inkoko.
- Koresha ibikoresho byo kuriramo no kunyweramo bibasha gusukurwa muburyo bworoshye
- Sukura uburiro n'ubunywero mbere yo kugabura no gutanga amazi
- Irinde gutosa isaso mugihe cyo gutanga no guhindura amazi
- Amadirishya, aho ziterera (icyari), inkuta n'igisenge bigomba guhorana isuku.
- Isaso ihindurwa bitewe n'uko ubona yashaje cyangwa ibangamiye inkoko



Gusukura ikiraro mugihe cyo kwimura cyangwa gusazura inkoko

- Kuramo isaso n'ibikoresho byose wakoresha kukiciro cyambere
- Sukura inzu n'ibikoresho byakoreshwaga ukoresha umuti wica udukoko
- Sukura ikiraro nkuko wabikoze ugiye kugishyiramo inkoko
- Kureka inzu ikamara byibura ibyumweru 2 mbere yo gushyiramo izindi.

Icyitonderwa:

- Umworozi wahuye n'ikibazo cy'icyorezo asukura ikiraro nk'uko byavuzwe akazanamo izindi nkoko agendeye kumabwiriza yahawé n'abavuzi b'amatungo.

Imyitwarire ijjanyane no gukumira indwara mubworozi bw' inkoko

- Mbere yo kujya mu nzu y'inkoko, umuntu wese agomba kwambara imyenda yabugenewe ndetse agakandagira mumuti wica udukoko.
- Buri kiraro cy'inkoko kigomba kugira umukozi ugushinzwe
- Mugihe cyo gusura inkoko, bahera munkoko ntoya bagasozerezza kunkuru



b) Ibimenyetso bikoreshwa mu kurinda ifarmu



Gahunda yo kwirinda hakoreshejwe imiti n'inkingo

Ahaturuka indwara

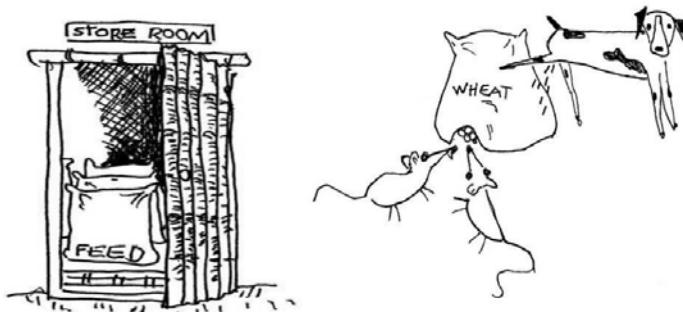
- Inkoko zapfuye ntizitabwe macyobo cyabugenewe cyangwa ngo zitwikwe
- Amazi cyangwa ibiryo byanduye.
- Imbeba cyangwa ibiguruka byo mu gasozi
- Amagi aturutse mubindi biraro
- Ibikoresho byanduye
 - Abantu baturutse mu bindi biraro
 - Mu mwuka cyangwa umuyaga

Ahaturuka indwara z'inkoko

Mikorobe n'udukoko bitera indwara: Udukoko twa bagiteri, Virusi, Indiririzi, Ibinyabutabire, inzoka zo munda, Uburozi n'ibindi.

❖ **Amatungo/ inyamaswa n'inkoko ubwazo:**

- Inyamaswa n'udusimba bifite indwara ariko bitagaragaza uburwayi:
 - ✓ Ibiguruka bifite uburwayi ariko butagaragara
 - ✓ Abantu bavuye ahantu hari iyo ndwara
 - ✓ Ingugunnyi (imbeba)
 - ✓ Inyoni zo mu gasozi,
 - ✓ Amasazi n'ibindi



LARGE PHOTO



3. Ibidukikije:

- ❖ **Aho wahisemo kororera inkoko:**
 - ✓ Hegereye ubworodzi bw'andi matungo (**Inka , intama, Ingurube,n'ibindi**)
 - ✓ Ahantu hajandamye (**urugero: mu gishanga**)
 - ✓ Intumbi z'inkoko zitajugunywe kuburyo bunoze

Ibidukikije:

- ❖ Uburyo bw'inyubakire:
- ✓ Inzu ituma hinjira imyuka mibi
- ✓ Inzu ituma hazamo ubushyuhe budasanzwe,
- ✓ Inzu idatuma hinjira umwuka uhagije
- ✓ Ubucucike bw'inkoko burenze ku buso bwagenwe

Ibidukikije:

- ✓ Isuku nkeya y'ibikoresho byo mu nzu y'inkoko twavuga nka :
- Ubunywero ,
- Uburiro,
- Tereyi z'amagi,
- Isaso itose cyangwa yanduye
- Amatotoro menshi mu nzu y'inkoko

Ibiranga inkoko ifite ubuzima bwiza

Ibigaraza inkoko nzima

- Inkoko zikina, zirukanka, zikokoza.
- Amababa ayaga, ibirokoroko bihagaze kandi bikeye.
- Ijisho rimeze neza
- Zita amatotoro yumutse.
- Inkoko usanga ziryta neza ndetse zicuranwa,
- Akabuno kagomba kuba katanduye
- Iyo ihagaze igomba kuba ihagaze neza amano; atatu areba imbere. Mbese nave wageramo ukabona ko harimo ubuzima koko.



Icyo amatotoro y' inkoko atubwira kubuzima bwazo

- Ubusanzwe, amatotoro y'inkoko ashobora gusa n'icyatsi kibisi, umuhondo, umukara cyangwa ikigina bitewe n'ibyo yariye
- Iyo umworozi akurikirana neza umunsi ku w'undi inkoko ze, ashobora kubona impinduka akamenya niba hari ibitagenda neza arebeye kumatotoro.



Ibimenyetso by'inkoko irwaye

- ✓ Iyo indwara yateye mu nkoko, ibyavuzwe haruguru bigaragaza ubuzima bwazo bwiza birabura cyangwa bigahinduka.
- ✓ Usanga inkoko zigunze, zikonje, zisinzira, ndetse zimwe zahiniye amajosi mu mababa.
- ✓ Amababa n'ibirokoroko byijimye.
- ✓ Akensi ntizirya cyangwa ugasanga ari imwe imwe itoratora.
- ✓ Hari ubwo usanga zose zihitwa; hakaba n'ubwo impiswi amaraso.

Ibimenyetso by'inkoko irwaye

Gusinzira



Kujunjama



Guta inkonda



Urupfu rudasanzwe



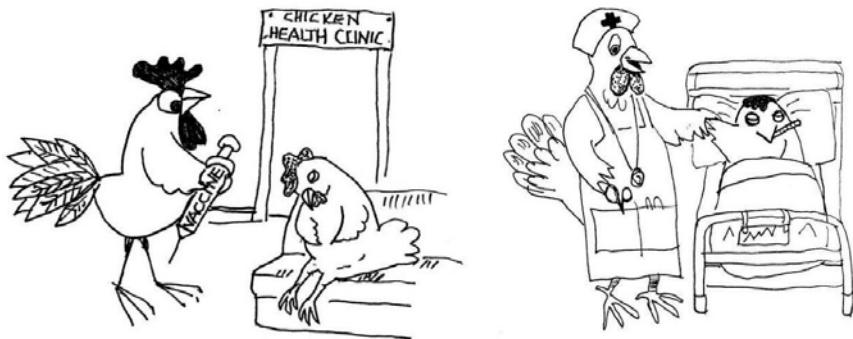
Kugagara amaguru



Kwitsamura, gukorora no guhumeka insigane



Kwirinda indwara z'inkoko (Gukingira)



Gahunda yo gukingira inkoko igendana n'ubwoko bw'inkoko icyo zagenewe naho waziguze

Urugero: Gahunda yo gukingira inkoko zitera amagi

Igihe inkoko zimaze (iminsi)	Urukingo	Igipimo cy'umuti n'urukingo
0	Marek, NCD,Gumboro, IB	AMINOVIT: garama 1 bayivanga na litiro 1 y'amazi meza Glucose : 0.5 -1kgs muri 20L z'amazi
1	Vitamine (Anti-stress)	Umuraramo (Newcastle) HB 1 : agacupa ka militiyo 1000 gashyirwa muri litiro 20 z'amazi meza; ku nkoko 1000.
3	Newcastle	AMINOVIT: garama 1 bayivanga na litiro 1 y'amazi meza
1 kugeza kuri 3	Vitamine (Anti-stress)	VIETACOX : garama 1 bayivanga na litiro 1 y'amazi meza
4-6	Gukumira Kogusidiyoze	Cevac Gumbo L: agacupa ka doze 1000 bagashyira muri litiro 20 z'amazi meza.
7	Gumboro	Cevac Gumbo L : agacupa ka doze 1000 bashyira muri litiro 20 z'amazi meza.
21	Gumboro	

22-23	Gukumira Kogusidyoze	Amprolium : garama 1 bayivanga na litiro 1 y'amazi meza
24	Boronshite	BI H52: agacupa ka doze 1000 bashyira muri litiro 20 z'amazi meza.
28	Umurarano (Newcastle)	Newcastle La sota : agacupa k'inkingo 1000 bashyira muri litiro 20 z'amazi meza
42-45	Gukumira Kogusidyoze	Amprolium : garama 1 bayivanga na litiro 1 y'amazi meza
56	Bronshite	BI H52: agacupa ka doze 1000 bashyira muri litiro 20 z'amazi meza.
70	Variole	Cevac FPL: Batera mu ibaba n'agashinge kabigenewe. Bikorwa na Veterineri
85	Gukumira Kogusidyoze	Amprolium : garama 1 bayivanga na litiro 1 y'amazi meza
126	Newcastle	Newcastle La sota : agacupa k'inkingo 1000 bashyira muri litiro 20 z'amazi meza
Zigeze igihe cyo gutera	Anti-stress (umuti w'inzoka)	Aminovit Levalap

Urugero: Gahunda yo gukingira inkoko z'inyama

Igihe inkoko zimaze (iminsi)	Urukingo/gukumira	Igipimo cy'umuti n'urukingo
1	Umuraramo (New castle)	New Castle HB 1 : agacupa k'inkingo 1000 bashyira muri litiro 20 z'amazi meza
1 kugeza kuri 4	Vitamine (Anti-stress)	AMINOVIT: garama 1 bayivanga na litiro 1 y'amazi meza
5-7	Gukumira Kogusidiyoze	VETACOX : garama 1 bayivanga na litiro 2 z'amazi meza
7	GUMBORO	Cevac Gumbo L : agacupa k'inkingo 1000 bashyira muri litiro 20 z'amazi meza.
14	Umuraramo (New castle)	Newcastle La sota : agacupa ka doze 1000 bashyira muri litiro 20 z'amazi meza
17-19	Gukumira kogusidiyoze	Amprolium : garama 1 bayivanga na litiro 1 y'amazi meza
21	GUMBORO	Cevac Gumbo L : agacupa ka doze 1000 bashyira muri litiro 20 z'amazi meza.

Icyitonderwa

Igihe indwara igaragaye mu nkoko, umworazi agomba guhita ahamagara umuganga wamatungo uri hafi wemewe.

Ubutabazi bw'ibazwe:

Mu gihe ugitegereje umuganga wamatungo nibyiza kuziha amavitamine, imyunyungugu, amazi meza n'indyo yuzuye no kuzitaho.

Indwara rusange zikunze gufata Inkoko mugace u Rwanda ruherereyemo

- Kokisidiyoze (Coccidiosis)
- Gumboro
- Umuraramo (Newcastle)
- Ubushita (Fowl Pox)
- Indwara ya mareke (Marek's disease)
- Umusinziro (Salmonellosis)
- Ibicurane by' ibiguruka (Avian influenza)
- Indwara y'ubuhumekero (bronchitis)
- Iziterwa n'imirire mibi (Nutritional deficiencies (Hypovitaminose, curly toe disease, rubber legs, crazy chick disease etc.) Kinyarwanda and symptoms for which disease?



Kokisidiyoze (COCCIDIOSIS)

- **Kokisidiyoze (ubukoko bwo mumara): Umuzimire . Iyi ndwara ishabora kubaho mu rugero rw'inkoko zose (intoya n' inkuru).**



Ibimenyetso byayo

- Umunaniro (gucika intäge), kubika umutwe; amababa agangaraye, guta amatotoro y'umweru, narimo amaraso, kutarya, kweruruka kw'ibirokoroko.

- Itera urupfu rwinshi mu nkoko zikiri ntoyা cg se kugwingira
 - **Ubwirinzi:**
 - Kugira isuku ihagije no gukingira
 - Guhamagara umuvuzi w'amatungo wabyigiye mu gihe abona ibimenyetso by'indwara .
- inkoko nk'uko amabwiriza abiteganya
- **Kuvura izirwaye:**
Ivirwa n'antibiyitoki .
Ushyira mumazi cg mubiryo.

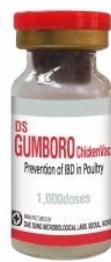
Indwara ya Gumboro

- Indwara ya **Gumboro** ni indwara mbi cyane kuko iyo igeze mu nkoko izica mu gihe gito cyane.
- Iyi ndwara ikunda kwibasira inkoko zitaruzuza ibyumweru 17 zivutse. Ikunda kwibasira inkoko zitera amagi kurusha iz'inyama.
- **Ibimenyetso:** Igabanuka mu kurya no kunywa; impiswi akensi amatotoro yafashe ku akabuno k'inkoko; kwibumbira kw'amaraso y'umukara mu bice by'umubiri (inyama) no guhundagara.



Uburyo warinda inkoko indwara ya Gumboro

- Indwara ya gumboro ntivurwa (nta muti igira kuko iterwa na virusi). Gusa mu rwego rwo kugabanya ibyuririzi, amavitamine, amazi meza kugira ngo bagabanye ubukana bwayo mu nkoko.
- Kwita ku isuku rusange, gusukura ibice byagaragayemo indwara, gukuramo inkoko zagaragaje uburwayi zigashyirwa ukwazo
- Icy'ingenzi kurusha ibi byose byavuzwe umworozu agomba gukingira inkoko ze ku gihe

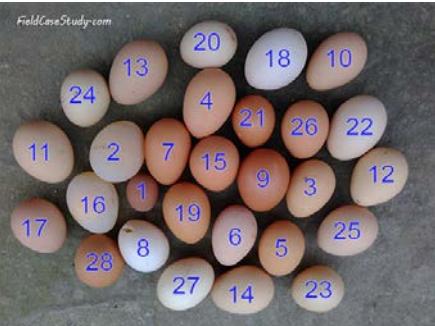


Umuraramo (Newcastle Disease)

- Iyi ndwara ikunze kuboneka mu gihe cy'izuba, yibasira inkoko zose (imishwi n'izikuze). Iterwa na virusi, igafata imyanya y'ubuhumekero ndetse n'ibindi bice by'umubiri.
- Itera impfu zo hejuru
- **Uburyo yandura:** inkoko cg ibindi biguruka bishobora kuyitera, umuntu wakoze ku nkoko yanduye cg ibikoresho byandujwe n'inkoko zirwaye.

Kugonda no gukuba ijosí

*Ibibazo by'ubuhumekero,
igabanuka ry'amagi, guhinduka
kw'ingano n'ibara ry' amagi, impfu
za hato na hato.*



Ibimenyetso, ubwirinzi n'ubuvuzi bw'umuraramo (Newcastle)

- Ibimenyetso:** Inkoko zihumeka insigane, amatotoro asa n'icyatsi kibisi kandi rimwe na rimwe zigahitwa amaraso, gucika intege, kugagara (paralysis), kurarama no gukuba ijosí, gupfa bitunguranye.
- Ubwirinzi:** Umuraramo ni ndwara itavurwa kuko iterwa na virusi. Iyo inkoko zawe zayanduye irinde kujya gusura abandi borozi. Nunajyayo, isukure uhindure imyenda ndetse n'inkweto mbere y'uko winjira mu biraro byabo.
- Haranira gukingira inkoko zawe (imishwi). Niba iyi ndwara igaragaye mu bworozi bwawe, ufata izapfuye ndetse n'isaso zabagaho byose ukabitwika.

Ubushita

- **Uburyo yandura:** Ino ndwara iboneka mu nkoko zose (into n'inkuru). Ni indwara mbi cyane iterwa na virusi. Inkoko zirwaye zanduza izindi. Ibikoresho byanduye nabyo bishobora kwanduza inkoko ino ndwara.
- **Ibimenyetso:** Utubyimba duto kumaguru, igisunzu, mumaso. Kugira umuriro, udusebe mu kanwa no mu muhogo. Gutakaza ibiro (kunanuka/ guhorota), kutarya no kutanywa, igabanuka ry'amagi ndetse n' impfu za hato nahato.



Kwirinda no kuvura indwara y'Ubushita (Fowl pox)

Ubwirinzi: Iyi ndwara nta muti igira. Kuyirinda ukurikiza amabwiriza yose y'isuku nicyo gisubizo cyonyine. Irinde kujya mu biraro by'inkoko bifite iyi ndwara. Mu gihe uguze izindi nkoko ugomba kuzishyira mu kato byibuze mu gihe cy'amezi 2 kugira ngo urebe niba nta burwayi zifite. Irinde imibu n'amasaki kuko bishobora kwanduza inkoko iyi ndwara.

- **Ubuvuzi:** Indwara y'ubushita nta muti igira gusa birashoboka gukingira imishwi ndetse n'inkoko nkuru zitarwayne. Mugihe ubonye ibimenyetso warwaje iyi ndwara wakwihutira kwitabaza umuganga wamatungo.

Urukingo rwa fowl pox



Indwara ya Mareke (Marek Disease)

Uburyo yandura: **Mareke** ni indwara mbi cyane iterwa na virusi ikunda kwibasira ibiguruka. Akensi yandurira mu myanya y'ubuhumekero (guhumeka umwuka urimo utwo dukoko (virusi).



Ibimenyetso:

- Kugagara amaguru, ijosí n'amababa.
- Gutakaza ibiro
- Kubyimba kwaho amababa atereye
- Ubuhumi
- Guhombana kw'agatorero
- **Ni iki wakora ngo uyikumire?**
- Kubera ko urukingo rw'iyi ndwara rutangwa ku mishwi ikivuka (umunsi umwe); umworozzi asabwa kugura imishwi mu ituragiro ryizewe azi ko zayikingiwe (akanahabwa icyemezo cyuko zakingiwe). Nta bundi buryo buhari bwo kuyirinda.
- Indwara ya Mareke



Ibicurane by' ibiguruka (Avian Influenza)

- **Uburyo yandura:** Icyi cyorezo gikunze kwibasira inkoko zifite hagati y'ibyumweru 3- 6 by'ubukure. Ni imwe mu ndwara zitera igihombo aborozi b'inkoko.
- Itera impfu cyane cyane mu nkoko z' inyama n'ibigwana byororewe hamwe.
- **Iyi ndwara** iterwa na virusi ziba ziri mu matembabuzi cyangwa amatotoro. Ikwirakwizwa no gukoranaho hagati y'inkoko, guhumeka, udusimba, ibikoresho byanduye nk' imyenda, inkweto, imodoka, inyonzi zo kugasozzi n'ibindi.



Iyi ndwara ntago iba mu magi. Ariko ahagaragaye iyo ndwara no gusarura amagi yazo ntibyemewe.

Ibimenyetso: Guhumeka insigane, guhitwa, isunzu rihinduka ubururu, inkoko zikabyimbaganu mu maso. Kuzana amabara y'umutukku ku maguru.

- **Ubuvezzi:** Iyi ndwara nta muti nta n'uruwingo igira. Ibiguruka biyirokotse bihorana virusi mu mubiri wabyo. Mu gihe warwaje ino ndwara, inkoko zose zigomba gutwikwa. Aho zororerwaga hashyirwa mukato byemezwu n'ubuyobozi bwa leta.

Icyitonderwa:

1. Mugihe cyose utanze imiti, ibisigazwa by'imiti bikunda kugaragara mu nyama cg amagi bikagira ingaruka ku buzima bw'abantu. Aborozi barasabwa kwirinda indwara kuruta kuvura

2. Mu rwego kwirinda igihombo gituruka ku mpfu ziterwa n'indwara zitandukanye, umworozzi arashishikarizwa gushyira mu bwishingizi inkoko cyane ko Leta itangamo nkunganire.



Indwara zikomoka ku mirire mibi:

Bimwe mu bimenyetso bigaragaza imirire mibi ku nkoko

No	Ibiryo bitujuje urugero	Ibimenyetso	Ishusho
1	Ibitera imbaraga	- Kugwingirakw'inkoko, gucikaintege, kudateraamagi.	
2	Ibyubaka umubiri	Kugwingira, kugabanuka kw'amagi, Kuryana	

3	<p>Imyunyu-ngugu</p> <p>Kalisiyumu na fosifore</p> <p>Manyezi-ziyumu (Iyo itujuje urugero)</p>	<p>Kudakomera</p> <p>kw'igishishwa cy'igi,</p> <p>Ituragwa rikorwa nabi,</p> <p>kugorama kw'amagufwa.</p> <p>Kuryana</p> <p>Imwe mu mpamvu zo</p> <p>guhundagara kw'inkoko</p>	 
4	<p>Vitamine</p> <p>A</p> <p>D</p>	<p>Imwe mu mpamvu</p> <p>ishobora gutera</p> <p>ubuhumi kunkoko,</p> <p>Kweruruka k'umuhondo</p> <p>w'igi.</p>	
		<p>Imwe mu ngaruka</p> <p>ishobora gutera</p> <p>kugorama kw'amagufwa</p>	

GAHUNDA YO GUHINGIRA INKOKO ZITERA AMAGI

Igihe	Indwara	Impine yayo	Izina ry'ubucuruzi	Uko urukingo rutangwa
D 0	Marek		CEVAC MD HVT RISPENS	Injection
D 3-5	New Castle +infectious bronchitis	ND+BI (mass)+BI(variant)	CEVAC BI L + CEVAC Ibird	EO/DRINKING WATER
D 7	GUMBORO	IBDV intermediaire	CEVAC Gumbo L	DRINKING WATER
D 14	GUMBORO	IBDV intermediaire plus	CEVAC IBDL	DRINKING WATER
D 21	New Castle	ND	CEVAC NEW L	EO/DRINKING WATER
D 25	GUMBORO	IBDV intermediaire plus	CEVAC IBD L	DRINKING WATER
D 35	New Castle	ND	CEVAC NEW L	EO/DRINKING WATER
D 45	W 6	FowlPox + Encephalomyelitis + Mycoplasma	FP +AE + MG VECTORMUNE FP MG AE	WING WEB
D 56	W 8	New Castle	ND	CEVAC NEW L
D 70	W 10	New Castle +infectious bronchitis	ND+BI(Mass)	CEVAC NEW L + CEVAC BRON L or (CEVACNBL)
D 91	W 13	New Castle + infectious bronchitis	ND+BI(Variant)	CAVAC NEW L + CEVAC IBird

D 112	W16-17	New Castle+infectious bronchitis+ Egg-drop syndrome + coryza + salmonella Enteritidis	ND+IB+ EDS+ CORYZA(ABC)+SE	CORYMUNE 7	inj SC/IM
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D196	W 28	NewCastle+infectious bronchitis	ND+BI(mass)	CEVAC NEW L + CEVAC BRON L	EO/DRINKING WATER
D245	W35	NewCastle+infectious bronchitis	ND+BI(Variant)	CEVAC NEW L + CEVAC IBird	EO/DRINKING WATER
D 385	W 55	NewCastle+infectious bronchitis	ND+BI(Variant)	CEVAC NEW L + CEVAC IBird	EO/DRINKING WATER

**ABAFA SHAMYUMVIRE BAKURU MU ISHURI RY'UBWOROZI BWINKOKO (POULTRY –
LFFS MASTER TRAINERS**

NO	AMAZINA	AHO AKORERA	ICYO ASHINZWE	TELEFONE
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2.	Kayitesi Aline	RAB	Senior Research Technician	0788469897
3.	Ndayambaje Nathan	RAB	Research Technician Grade II	0788579182
4.	Safari Sylvestre	RAB	Associate Research Fellow	0789095332
5.	Uwimana Gaspard	RAB	Associate Research Fellow	0788473440
6.	Semahoro Fabrice	RAB	Research Fellow	0788757636
7.	Habimana Richard	UR	Lecturer	0782555390
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13.	Niyireba Remy Titien	RAB	Assistant Research Fellow	0788437825
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ABAFATANYABIKORWA : IAIKI



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