Veterinary Association of Namibia

THE MANGA

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OFFICIAL NEWSLETTER OF THE VETERINARY ASSOCIATION OF NAMIBIA

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Presidents Desk

VAN EXCO is busy organizing a Mini Congress on 20th and 21st July 2018 at Neudam. UNAM generously allows us to use their premises. We are hoping that Dr Tony Shakespeare will come from South Africa to present some interesting topics. We will make use of experienced local speakers. Requests from our questioner that we had at the end of our Congress 2017 will guide us in subjects of interest. Unfortunately we cannot have all the topics at once.

Speakers already asked to speak are Dr Detlef Marggraff on internal fixation. Dr Ian Bains will do a wet lab on external fixation. Further topics that may come up are veterinary public health and nutrition. Please save the date in the meantime.

The Namibia Veterinary Technicians Association (NVTA) needs VAN's assistance to host CPDs. This is not primarily VAN EXCO's work but VAN members can be of great help. Would you consider organizing an information day in your area and inviting NVTA members and perhaps some farmers as well? This will help the AHTs to get their necessary CPD points and would be some advertisement for your practice. Also State Veterinarians can do very effective work by doing staff training not only for their own office. By this the Veterinarian and the NVTA member can gain CPD points.

On 8th to 10th November our big Congress will be held in Swakopmund. We see forward to meet all of you at this big occasion.

We trust that the information forwarded by our secretary keeps you in touch with what is happening in the veterinary world. Hopefully the online CPD is well used. If you have problems with it please contact Dr Adriaan Adank. He put a lot of effort into getting VAN members registered to be able to do many CPD courses free of charge.

Dr. Beate Voigts

NMRC News

We have included a new section in the Manga to keep the Veterinary community informed about the Veterinary medicines which have been discontinued and the ones who have been newly registered.

Cancellation of Veterinary Medicines November 2017

Applicant	Registered Name	Generic Name	Registration Number
Onderstepoort Biological Products LTD	Onderstepoort Oil-emulsion Escherichia Coli vaccine for Pigs	Formalised E. coli strains	V01/24.5/142
Onderstepoort Biological Products LTD	Onderstepoort Three Day Stiffness Sickness Vaccine	Live attenuated Ephemoral fever virus	V01/24.4/148
Onderstepoort Biological Products LTD	Onderstepoort Enzootic Abortion Vaccine for Sheep	Inactivated precipitated Chlamydia psittaci	V01/24.4/153
Onderstepoort Biological Products LTD	Onderstepoort Equine Influenza (Bivalent) Vaccine	Equine Influenza strain Newmarket & Johannesburg	V01/24.6/159
Onderstepoort Biological Products LTD	Onderstepoort Newcastle Disease Vaccine	Freeze-dried live attenuated Komarov NCV	V00/24.3/619
Onderstepoort Biological Products LTD	Onderstepoort Distemper Vaccine	Freeze-dried live attenuated distemper vaccine	V00/24.1/620
Onderstepoort Biological Products LTD	Onderstepoort Haemophilus corysa vaccine	Inactive Haemophilus paragallinarum	V01/24.3/631
Onderstepoort Biological Products LTD	Onderstepoort Equine Influenza/ Tetanus Combination Vaccine	Eq. Influenza virus & Clostridium tetani toxoid	V01/24.6/633
Onderstepoort Biological Products LTD	Ondertsepoort IBR/PI Type 3 Combination Vaccine	IBR/PI virus suspension	V01/24.4/635
Merial SA (Pty) Ltd	Bigopest	Inactivated IB, ND and Gumboro	V11/24.3/1103
Merial SA (Pty) Ltd	Bio Ad Cor 3	Inactivated Haemophilus paragalli-	V11/24.3/1104
Merial SA (Pty) Ltd	BIO H120	Freeze-dried modified live IB strain Massachusetts	V12/24.3/971
Merial SA (Pty) Ltd	Bio Lasota	Freeze-dried modified live ND virus	V12/24.3/988
Merial SA (Pty) Ltd	Biogumboro Plus	Modified live Gumboro virus	V12/24.3/960
Merial SA (Pty) Ltd	Canine Corona - MLV	Canine Coronavirus	V08/24.1/930
Merial SA (Pty) Ltd	Certifect Top spot for Dogs	Fipronil, Amitraz	V13/18.3.9/1196
Merial SA (Pty) Ltd	COR 2	Inactivated Coronavirus	V12/24.3/1006
Merial SA (Pty) Ltd	Coronadog	Canine Coronavirus	V08/24.1/910
Merial SA (Pty) Ltd	Cryomarex HVT	Modified live HVT-FC 126 virus	V12/24.3/1008
Merial SA (Pty) Ltd	Cryomarex HVT Rispens	Modified live HVT-FC 126 virus, Risepens virus	V12/24.3/959

Merial SA (Pty) Ltd	Cryomarex Rispens	Modified live Rispens virus	V12/24.3/1007
Merial SA (Pty) Ltd	Gallimune 202 ND + EDS	Inactivated ND virus, inactivated EDS virus	V11/24.3/1106
Merial SA (Pty) Ltd	Gallimune 204 ND + IBD	Inactivated ND virus, inactivated Gumboro virus	V11/24.3/1108
Merial SA (Pty) Ltd	Gallimune 304 ND + IB + IBD	Inactivated ND virus, IB virus & Gumboro virus	V11/24.3/1110
Merial SA (Pty) Ltd	Gallimune 408 ND+IB+EDS+IBD	Inactivated ND virus, IB virus, EDS virus & Gumboro virus	V11/24.3/1112
Merial SA (Pty) Ltd	Gallimune IBD	Inactivated Gumboro virus	V11/24.3/1114
Merial SA (Pty) Ltd	Gallimune ND	Inactivated ND virus	V11/24.3/1115
Merial SA (Pty) Ltd	Gallimune SE	Inactivated Salmonella enteritidis	V11/24.3/1117
Merial SA (Pty) Ltd	Gumbopest	Inactivated ND virus	V12/24.3/1009
Merial SA (Pty) Ltd	Hyoresp	Inactivated Mycoplasma hyopneumoniae	V08/24.5/713
Merial SA (Pty) Ltd	Ivomec Maximizer CRC for Adult Sheep	Ivermectin 4.022% m/m	V00/18.1.2/565
Merial SA (Pty) Ltd	Ivomec Maximizer CRC for Weaner Sheep	Ivermectin 2.01% m/m	V00/18.1.2/564
Merial SA (Pty) Ltd	Ivomec Pour On	Ivermectin 0.5% m/v; Crodamol CAP 20% m/v	V00/18.1.2/1118
Merial SA (Pty) Ltd	Rhiniffa T	Bordetella bronchiseptica & Pasteurella multocida	V08/24.5/714
Merial SA (Pty) Ltd	TUR 3	Inactivated ND virus, Avian Paramyxovirus type 3, Turkey Rhinotracheitis virus	V12/24.3/989
Stride Distributors CC	Irriderm	Copper, Na-bicarbonate, K-permanganate, Zinc	V07/19.3/352
Stride Distributors CC	Equiderm	Alcohol-copper-salicylate, DMSO	V07/3.1.4/354
Cipla Agrimed (Pty) Ltd	Cipla Vita Forte (moved to N-FF)	Vit A, Vit D3, Vit E, Vit B1, Vit B12, Vit C, Vit B2, Vit B6, Vit K, Ca pantothenate, Nicotinic acid, Folic acid, DL-methionine, L-cystine, L-lysine, Arginine, Tryptophane	V13/19.5/1191

	-	VETERINARY MEDICINES REGISTERED NOVEMBER						
S/N	COMPANY	PROPRIETARY NAME	STRENGTH/DOSE UNIT	DOSAGE FORM	REGISTRATION NUMBER	SCHEDULING STATUS	SPECIES	FOREIGN REGISTRATIONS
1	Cipla Agrimed	Complex + A & E for Sheep and Goats	Each ml contains Vitamin A 7500 IU, Vitamin E 24IU, Zinc 11mg, Selenium 0.8mg, Manganese 2.7mg	Injectable solution	V17/19.2/1388	NS0	Sheep, Goats	RSA (G4119)
2	Cipla Agrimed	Agra Vitamin & Minerals Sheep/Goats	Each ml contains Vitamin A 7500 IU, Vitamin E 24IU, Zinc 11mg, Selenium 0.8mg, Manganese 2.7mg	Injectable solution	V17/19.2/1389	NS0	Sheep, Goats	RSA (G4119) Identical to Complex + A & E for Sheep and Goats
3	Cipla Agrimed	Complex + A & E for Cattle	Each ml contains Vitamin A 25 000 IU, Vitamin E 50 IU, Copper 4 mg, Zinc 11 mg, Selenium 1.25 mg, Manganese 2.7 mg	Injectable solution	V17/19.2/1390	NS0	Cattle	RSA (G4120)
4	Cipla Agrimed	Agra Vitamin & Minerals Cattle	Each ml contains Vitamin A 25 000 IU, Vitamin E 50 IU, Copper 4 mg, Zinc 11 mg, Selenium 1.25 mg, Manganese 2.7 mg	Injectable solution	V17/19.2/1391	NS0	Cattle	RSA (G4120) Identical to Complex + A & E for Cattle
5	Cipla Agrimed	Agrapour	Flumethrin 1% m/v	Pour-on	V17/18.3.3/1392	NS0	Cattle, Sheep, Ostriches, Game	Identical to Maxipour (V05/18.3.3/287)
6	Cipla Agrimed	Agramycin 10%	Oxytetracycline 100 mg/ml	Injectable solution	V17/17.1.2/1393	NS0	Cattle, Sheep, Goats	Identical to Maxitet 10% (V13/17.1.2/1199)
7	Ceva Animal Health	Ceva Super	Ivermectin 1.0% m/v; Clorsulon 10.0% m/v	Injectable solution	V17/18.1.8/1394	NS0	Cattle	RSA (G4153)
8	Zoetis South Africa	Special Formula 17900 Forte	Penicillin G procaine 110 000 IU, Polymyxin B sulphate 53 500 IU, Sodium novobiocin 157.5 mg, Dihydrostreptomycin sulphate 106 mg, Hydrocortisone acetate 20 mg and Hydrocortisine sodium succinate 13.25 mg	Intramammary preparation	V17/16.1/1395	NS2	Cattle	RSA (83/753) - 'Grandfather registrations)

VAN News

Dear members, please save the date for our annual congress which will be taking place 8-10th November 2018 at the Swakopmund Hotel and Entertainment Centre.

Furthermore, we are planning to host a mini congress in July this year.

VAN is pleased to welcome so many new members, they are

- Dr. Simson Tangeni Ekandjo (State Vet Gobabis)
- Dr. Frans Alugongo (State Vet Kamanjab)
- Dr. Selma Nangombe Shilongo (State Vet Omaruru)
- Dr. Charles Robert Neill (Windhoek Animal Hospital)
- Dr. Erenfriede Veii (State Vet Epukiro)

- Dr. Iain Philip Brunt (Windhoek Animal Hospital)
- Dr. Maaike Elisabeth de Schepper
- Dr. Sulet Gous (Windhoek Animal Hospital)
- Dr. SL Chipunga (State Vet Opuwo)
- Dr. Robin Wilame Gieling
- Dr. Ishmael Nxobani Makamba
- Dr. Beatrice Mainelo Shikongo

VAN was approached by the Namibian Veterinary Technicians Association for help. There are around 300 veterinary technicians in Namibia. Liz Komen attended a VAN meeting and told us about the 'growing pains' of this association. Finances seems to be a big problem, and also communication as many technicians are active in the field. VAN Exco agreed to invite the technicians to CPD events and maybe to run parallel sessions for them with lecturers invited for such events. However, VAN insisted that the NVTA have their own committee (especially treasurer, bookkeeper and bank account) as VAN Exco members are all working and have little spare time and do the VAN duties in their own spare time already.

Personal

Congratulations to Megan Claire Darling and Adriaan Izak Adank who got married on the 16th December 2017 in Underberg RSA.

Central Windhoek Animal Abortions

Abortions in Central Windhoek area in the calving season of 2017 were not of infectious nature but rather due to multiple secondary issues as a consequence of fetal immunosuppression due to micro mineral imbalances. Liver concentrations of micro minerals were used to estimate the micro mineral storage pools in cattle which aborted, their fetuses as well as horse and small stock fetuses. Liver samples from a bull as well as Oryx bull with enlargement of the testes and epididymis were also included. Levels fluctuated below or above normal reference ranges specifically for Se, Cu, Fe, Zn, Mn and Cr and various literature has reported associations between maternal mineral deficiencies and abnormal fetal development, including fetal loss.

THE IMPORTANCE OF MINERALS

Mineral Metabolism

Both macro- and micro minerals are essential nutrients necessary to support all physiological, metabolic and structural functions of the body. Most macro minerals are homeostaticaly regulated to various degrees. Trace minerals are not homeostatically regulated, but more controlled through movement between pools. Micro minerals can be found in the body as a component to one or more metalloenxymes (biochemical function pool), transported on carrier proteins (transport mineral pool) or stored as a metal complex (storage mineral pool). The body makes every effort to maintain a necessary level of activity in the biochemical pool to ensure normal function. The storage pool holds a reserve of minerals and is sensitive to nutritional status. If nutrient intake is in excess of requirements, excess intake will be stored until other regulatory processes, reduced absorptive efficiency or increased renal excretion, modify net mineral retention back into balance. Transport pool is dynamic in reflecting changes relative to both deficient and sufficient nutrient state.

In a situation of nutritional inadequacy, hepatic mineral storage will be mobilized and used to maintain biochemical pool activity until absorptive efficiency, reduced excretion or both can raise the net mineral retention.

Using these concepts of mineral pools, four progressive phases of mineral deficiency has been described.

Depletion

Loss of mineral in storage= deficiency

Loss of mineral in transport pool = dysfunction

Compromise of function pool which cause disease.

Subclinical disease occurs during deficiency and dysfunction phases, often defined as impaired immune function, reduced growth rate and or reproductive efficiency (reproduction, growth, lactation).

Maternal- Fetal Interrelationship

The developing fetus is totally dependent upon availability of essential nutrients from placental transfer from maternal blood. The dam preferentially pushes trace minerals into her fetus, so if the calf has a low trace mineral status, it is due to the mother`s low status. This holds true for Zn, Fe, Cu and Se. On various farms the maternal mineral concentrations during late pregnancy have showed a decline where the fetal livers have concentrated the minerals which is consistent with maternal transfer of mineral to the fetus.

Neonatal

After birth the calf depletes its trace mineral levels due to fast growth rates and the fact that the dam`s milk is a poor source of trace minerals. During times of stress like weaning or transport the trace mineral status of the animal could already be deficient even though the outward signs of sub-optimal trace minerals are not evident - this may lead to increased disease incidence and vaccine failures.

Feedback from liver analysis of micro minerals

The maternal mineral concentrations during late pregnancy have showed a decline where the fetal livers have concentrated the minerals. Imbalances were also evident in the Oryx and bull samples which were analyzed. There were no single consistent mineral abnormality and this would be expected as the abortion outbreaks were being experienced in different geographical locations, where environmental conditions vary. These findings would suggest micronutrient imbalances are a significant contributing factor to the abortion outbreaks that have been experienced. It is then recommended that veterinarians do

1)routine evaluation of liver samples from any animals submitted for slaughter. It is an important monitoring tool to reduce the risks of micronutrient imbalances. Remember many of these micronutrient imbalances induce very subtle if any clinical signs in the dams and therefore, one needs to be monitoring the micronutrient levels continually.

2)Recommend micro mineral supplementation in form of licks and injectable micro minerals.

Investigating abortion cases still remains challenging even with all the test available today. A systematic approach with samples for histopathology, bacteriology and virology is essential. Remember to include organs such as the thyroid as well. Liver analyses is best done on fresh liver samples but for samples to be send to South African it can be frozen as well. Samples in formalin is less than ideal.

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Dr. Jolandie Pienaar