

Final attainment levels - Veterinary Medicine Curriculum

Final attainment levels - Veterinary Medicine Curriculum Project group

Annexure 1: Skills List

Annexure 2: Diseases list

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List of Abbreviations

AIHA	Auto-Immune Haemolytic Anaemia
M&P	Management and Policy
BHV2	Bovine Herpes Virus type 2
BRSV	Bovine Respiration Syncytial Virus
BSE	Bovine Spongious Encephalopathy
CAE	Caprine Arthritis Encephalitis
CBPP	Contagious Bovine Pleuro Pneumonia
CCN	Cerebro Cortical Necrosis
CCP	Critical Control Point
CEH	Cystic Endometrial Hyperplasia
CMT	California Mastitis Test
CRD	Chronic Respiratory Disease
Dept.	Department
ECG	Electrocardiogram
EMCV	EncephaloMyoCarditis Virus
EP	Enzootic Pneumonia
e.p.g.	Eggs per gram
FEI	Fédération Equestre International
FSE	Feline Spongious Encephalopathy
CA	Companion animals
HACCP	Hazard Analysis and Critical Control Point
HNP	Hernia Nuclei Pulposi
IBD	Infectious Bursal Disease
ICT	Information and Communication Technology
IFTES	Interfaculty Institute for Teachers Training, Educational Development and Study
Skills	
ADA	Agricultural Domestic Animals
LPA	Los Processes Anconeus
LPC	Los Processes Coronoideus
o.p.g.	Oocysts Per Gram
OVE	Ovariectomy
H	Horses
PCV2	Porcine CircoVirus type 2
PFCV	Final attainment levels - Veterinary Medicine Curriculum Project group
PED	Porcine Epizootic Diarrhoea
PRA	Progressive Retinal Atrophy
PRRSV	Porcine Reproductive and Respiratory Syndrome Virus
PSS	Porcine Stress Syndrome
Spp.	Species
TGE	Transmissible Gastroenteritis
TPO	Triple Pelvic Osteotomy
VP	Veterinary Public health en Food Safety
SR	Scientific Research

Introduction to the Annexure

The annexure (Skills List and Diseases list) forming part of the 'Final attainment levels Veterinary Medicine Curriculum' report, is drafted by the Final attainment levels - Veterinary Medicine Curriculum Project Group (PFCV).

The staff composition of the Final attainment levels - Veterinary Medicine Curriculum Project Group was as follows:

Dr. Hetty M.G. van Beers	- Dept.1 Healthcare Agricultural domestic animals
Dr. Herman F. Egberink	- Dept. Infectious diseases & Immunology
Prof. Ludo J. Hellebrekers	- Educational Board
Prof. Jolle Kirpensteijn	- Dept. Medical Science - Companion Animals
Dr. Len J.A. Lipman	- Institute for Risk Assessment Sciences, Public Health & Food Safety Division
Dr. Joop B.A. Loomans	- Dept. Healthcare - Horses
Dr. Wim D.J. Kremer	- Dept. Healthcare - Agricultural domestic animals
Prof. Peter van Beukelen	- Educational Director (to 1-1-2005), chairman
Dr. Hellen G.G.M. van der Maazen	- Education and Student Affairs, official secretary
Dr. Jan C.M. Haarhus	- Education and Student Affairs, advisor
Dr. Stefan P.J. Ramaekers	- IFTES ² , advisor

The concept Skills list was submitted to the following representatives of the Faculty of Veterinary Medicine and the Royal Dutch Society for Veterinary Medicine (KNMvD) by the PECD for recommendation.

Faculty of Veterinary Medicine:

- All chairmen of Educational Study Groups (ESG's)
- All professors

KNMvD:

- Management of the Group - Medical Science - Companion Animals (GMCA)
- Management of the Group - Medical Science - Horses (GGP)
- Management of the Group - Medical Science - Cattle (GMC)
- Management of the Group - Pigs Healthcare (GPH)
- Management of the Group - Poultry Sciences (GPS)
- Management of the Group - Health and Quality Control (GHQC)
- Management of the Group - Veterinarians employed in Trade and Industry (VTI)
- Management of the Group - Practitioners Large Domestic Animals (GPLD)
- Management of the Group - Veterinary Specialists (GVS)
- Management of the Group - Homeopathic Practicing Veterinarians (GHwV)
- Management of the Interest Group - Employed Practitioners (IEP)

The concept – Diseases list was submitted to the following representatives of the Faculty for Veterinary Medicine for recommendation.

Dr. A. van Nes	Dept. Healthcare - Agricultural domestic animals
Dr. T.J.W.M. van Gerwe	Dept. Healthcare - Agricultural domestic animals
Dr. J.J. Lievaart	Dept. Healthcare - Agricultural domestic animals
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Dr. E.R. Nijse	Dept. Infectious diseases & Immunology

The PFCV has received a lot of valuable advice from the above persons and bodies, both from within and outside the faculty, which has contributed to the establishment of the annexure 'Skills List and 'Diseases list', forming part of the 'Final attainment levels - Veterinary Medicine Curriculum.

Final attainment levels - Veterinary Medicine Curriculum

Annexure 1: Skills List

Explanations - Skills List

In the skills list, 4 levels are indicated, with the following meanings:

1. only 'knowledge of'
2. seen or attended a demonstration
3. personally performed once or more under supervision
4. able to perform independently

If only a number is indicated in the skills list under the 'Common' section in de column 'cross animal species', it means that the mentioned skill should be performed for all animal species mentioned on that level. It is not necessary to actually practise the skills on all mentioned animal species.

In the column 'graduation fields' a number is only mentioned if the relevant skill with this animal species or sectors is performed on a level higher than in the 'common' part.

In the columns under 'graduation field' VP, M&P and SR, the figures relate to the animal species as indicated in the common part.

The Final attainment levels - Veterinary Medicine Curriculum Project Group (PFCV) want to specifically mention here that practise of a specific skill in a study completion field usually means that this skill can also be performed with animal species other than those from the related study completion field on a higher level.

SKILLS	Common									Study completion field									
	Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent Rabbit Ferret	Bird	Cross animal species	ADA		H		CA			VP	M&P	SR
										Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent Rabbit Ferret			
General																			
Assessment of conduct									4										
Animal handling/positioning									4										
Description recording/checking ¹									4										
Age estimation based on teeth				3						1	1		4	2	2				
Identification application									2	4			4	4	4	4	4		
Identification read-out									4										
Recording/analysing treatment history									3	4	4	4	4	4	4		4		
Recording of anamnesis									4										
Performing a general examination ²									4										
Discussion of diagnostic plan of approach									4										
Discussion of intervention plan									4										
Discussion of prognosis									4										
Clinical examination				1									4	2	2				
X-ray examination				1									3	2	2				
Complete FEL passport				1									4						
Drafting of an insurance statement									1	3	3	3	4	3	3	2	2	3	
Drafting a statement for purchasing purposes									2	3	3	3	3	3	3		3		
Collection of blood									4										
Biopsy, aspiration		1		2	3	3	3			3		4	4	4	4	4		4	
Biopsy, incision/excision		1		2	3	3	3			2		4	4	4	4	4		4	
Topical and oro-nasal administration									4										
Intracutaneous/percutaneous injection		2	2		2	2	2	2		3	3		4	4	4	4	4	4	
Subcutaneous injection									4										
Intramuscular injection									4										
Intravenous injection									4										
Insertion of a venous catheter /setup of an IV		3		3	3	3	2	1		4		4	4	4	3	2		4	
Intra-peritoneal injection		2	2		2	2	2	2		4	3		3	3	3			4	
Initial treatment of a trauma patient									3	4	4		4	4	4				
Blood transfusion									2	4	3		4	3					
Acute wound treatment (incl. skin correction)									4										

SKILLS	Common									Study completion field									
	Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent Rabbit Ferret	Bird	Cross animal species	ADA		H		CA			VP	M&P	SR
										Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent Rabbit Ferret			
Respiration and Circulation system																			
Preparation of patient for operation and preparation of the operative area									4										
Wound reconstruction									2	3		3	3	3					
Wound treatment/rinsing									4										
Wound closure primary/secondary									3	4		4	4	4	4				
Dehiscence treatment									3			4	4	4					
Abscess drainage									4										
Applying bandaging									4										
Digestive system																			
Examination of the nose and sinus, pharynx, neck, lungs ³									4										
Examination of the heart (circulation system) ⁴									4										
Sputum collection		2								3									
Endoscopy of the upper airways	1	1		2	1	1				2		4	2	2	1	2			
Tracheotomy/air sac trepanation	1	2		2	2	2	1	1		3		3				2			
Lung function examination/pressure measurement				1	1	1						2							
Bronchi-alveolar rinsing	1	1		1	1	1	1			2	2	3	3	2					
Taking an ECG and interpretation of it									2	3		3	4	4	3				
Digestive system																			
Examination of the mouth cavity, pharynx and the neck ⁵									4										
Throat inspection	1	2		3	4	4	2	1		3	4				4				
Insertion of an oesophageal (crop) probe	1	4		4	3	2	1	1				4	4	3	4				
Oesophageal blockage treatment		3		3								4	4						
Insertion of a magnet/bolus		2										4							
Regular dental maintenance/cleaning of teeth	1	1		2	2	2	2			2	2	3	4	4	4				
Examination of the abdomen, groin, peri-anal area ⁵									4										
Rectal examination /internal	1	3		3	3	3				2	4	4	4	4		1			
Ultrasound abdomen general / trans-abdominal									1			3	2	2	2	2			
Abdominal piercing	2	2		2	2	2	2	1			3	4	4	4	3	2			
Caecum/colon piercing				2								3							

SKILLS	Common										Study completion field														
											ADA	H			CA			VP	M&P	SR					
	Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent	Rabbit	Ferret	Bird	Cross animal species	Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent	Rabbit	Ferret	Bird	VP	M&P	SR	
Biopsy of the liver										1	3			2	2	2	2								
Collection of stomach fluid sample/transfaunation		1		1				1			3			2											
Penstrocord insertion		2									4														
Rumenotomy		1									3														
Cow rolls		2									4														
Roll and suture abomasum		2									3														
Laparoscopy		1		1	1				1		3			2	2					2					2
Laparotomy / celiotomy	2	2		2	2	2	2	2	1		3				4	4	4	4						3	
Abomasum dislocation operation		2									3														
Torsio ansa proximalis operation		1									3														
Entrapment colon "rolls"				1										2											
Hernia umbilicalis treatment										2	3	3			3	3	3								
Enema administration										2	3	3			3	4	4								
Rectum rupture repair										1				2											
Rectum prolapsed repair										2	3	3				3	3								
(Circum gland)Anal gland examination / drainage						4											4	3							
Reproduction, Kidneys and Urinary Tracts																									
External examination of the urinary tract and sexual organs ⁶										4															
Gestation diagnosis/fertility diagnosis manual	1	3		3	3	3	3	3			4	4		4	4	4	4								
Gestation diagnosis - ultrasound										2	4	4		4	4	4	4								
Fertility diagnosis - ultrasound		2									4														
Collection and treatment of sperm										2				4	3										
Insemination										2	3	3		4	3										
Embryo transplantation										1	2	2		2											
Ovum Pick Up / In Vitro Fertilisation										1	2	2		2											
Castration – female animal	1	1		1	2	2	2	2			2	2			4	4	4	4	1						
(Ovarian)hysterectomy	2				2	2	2	2			3	2			4	4	4	4							
Ovariectomy via laparoscopy				1	1	1	1	1			1				2										
Castration of male animal	2	2		2	2	2	2	2			4	3		4	4	4	4	4	1						
Hernia scrotalis treatment	2	1		1	2	1	1	1			3	2		2	3	2									
Pap smear vagina/uterus										1	2	2		4	3	3									

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SKILLS	Common										Study completion field														
											ADA	H			CA			VP	M&P	SR					
	Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent	Rabbit	Ferret	Bird	Cross animal species	Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent	Rabbit	Ferret	Bird	VP	M&P	SR	
Biopsy - uterus										1				2											
Intra-uterine treatment	1	3		3	3	3	2				4	4		4											
Twins reduction				1							2														
Inversio et prolapsus vaginal treatment	1	3		1	1	1	1				2			2	2										
Obstetric examination	3	3		3	3	3	2				4	4		4	4										
Reposition torsio uteri		2		2							4														
Normal partus/extraction	3	3		3	3	3	2				4	4		4											
Repositioning of deviating position	2	2		2	1	1					3	4		4	3	2									
Forced extraction	2	2		2	2	2					4	4		4	3										
Episiotomy				1										3											
Foetotomy - total		2		1							3	2													
Foetotomy - partial		2		2							3	4													
Caesarean section	2	2		2	2	2	1				3			3	3	3									
Afterbirth check-up and possible treatment		2		3	2	2	2				4	4		4											
Inversio et prolapsus uterine treatment	2	2		2	1	1	1				3	4		4											
Benesch/Caslick operation				1										4											
Neonatal treatment										3	4	4		4	4	4	4								
Bladder catheterisation - male animal	1	2		2	2	2	1							4	4	4	4	2							
Bladder catheterisation - female animal	1	2		2	2	1	1				3			4	4	4	4	2							
Bladder piercing				2	2	2								4	4	4	4								
Cystoscopy				1	1	1	1							2	2	2									
Urachus fistula repair										1	3			2	3	2									
Bladder rupture repairs				1	1	1	1							2	3	2									
Skin																									
Examination of hair, skin and horny structures ⁷										4															
Collecting skin samples (scraping)										4															
Skin Biopsy										2	4	4		4	4	4								4	
De-horning young ruminant		2									4														
De-horning adult ruminant		2									3														
Removal of sign										3	4			4	4	4									
Mammary glands																									

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SKILLS	Common										Study completion field									
	Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent Rabbit Ferret	Bird	Cross animal species	ADA		H		CA				VP	M&P	SR
										Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent Rabbit Ferret	Bird			
Examination of the mammary glands ⁸								4												
Taking of milk samples for (bacteriological) research	1	3		2	2	1				4		4			1		4			
Macroscopic assessment - milk								4												
Intra-mammary treatment		3		1						4			1	1	1					
Treatment of teat, udder and milk gland injuries		2		1	1	1				4		2	2		1					
Treatment of teat blockage		2								4										
Senses and Nervous system																				
Examination of the ear ⁸								4												
Hearing examination		1		1	2	2	1			3		4	3	3						
Application of ear ointment/drops								4												
Othaematom treatment	1	1			2	2	1			2	2			3						
Removal of corpus alienum from ear/from external audito	1	1		1	2	2	1							3	3					
Ablation ear		1			2	1								3	2					
Examination of the eye ⁸								4												
Repositioning - luxatio bulbi					1	1							2							
Application of eye ointment/drops								4												
Rinsing of the eye and eye sac								4												
Lens luxation treatment/surgical removal				1	1	1	1					2	2	2						
Eyeball removal								1		2		2	2	2	2					
Eyelid operation								1		2		3	3	2	2					
Removal of the third eyelid								1		2		2	2							
Examination of the central and peripheral nervous system ¹¹								4												
Coping with deviating behaviour/aggression								3	4	4		4	4	4	4	4	4		4	
Performing a fluid piercing								1		2		2	2							
Locomotion																				
Examination of the locomotion system incl. spinal column ¹²								4												
Tail amputation								2	3	3			3	3						
Posture correction				1	1								2							
Preventive hoof/claw cutting	2	2		2						4		3								
Curative hoof/claw cutting	2	3		3						4		4								
Nail cutting					4	4	4	4												

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SKILLS	Common										Study completion field									
	Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent Rabbit Ferret	Bird	Cross animal species	ADA		H		CA				VP	M&P	SR
										Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent Rabbit Ferret	Bird			
Horseshoe removal				2									4							
Claw(tip) amputation/toe amputation		1			3	2	1	1		3				3	2	2				
Application of (rigid immobilising) bandage								4												
Fracture and joint treatment								2		4			3	3	3					
Wing clipping			2				2													
Conduction anaesthesia				2								4								
Rinsing of joint/tendon sheath								2		3		3								
Joint piercing								2		3		4	2							
Arthroscopy / tenoscopy				2	1								2							
Anaesthetics																				
Pre-anaesthetic examination								4												
Insertion of trachea tube	1	1		2	3	3	2	1		2		4	4	4	4	2				
Anaesthetic - total inhalation				2	2	2	2	1		2		4	4	4	4	4				
Anaesthetic - total injection								4												
Monitoring, maintenance and recovery - anaesthetic								4												
Local anaesthetic techniques								3		4		4	4	4	4	4				
Sedation								4												
Euthanasia								4												
Laboratory research																				
Urine examination - similar weight								3				4	4	4	4					
Making (and assessment) of urine sediment								3				4	4	4	4		4			
Application of urine rapid diagnostics (strips: pH, protein, etc.)								3	4		4	4	4	4	4		4			
Determining the haematocrite								4												
clinical-chemical examination regarding rapid diagnostics (strips, analyzers)								4												
Haematological examination								3				4	4	4	4	4			4	
Simple laboratory research								3		4		4	4	4	4	4	4		4	
Simple pathological examination	3	3	4	3	3	3	3	3		4	4	4	4	4	4	4	4		4	
Macroscopic assessment of faeces, urine, milk and egg								4												

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SKILLS	Common										Study completion field														
											ADA		H		CA				VP	M&P	SR				
	Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent	Rabbit	Ferret	Bird	Cross animal species	Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent	Rabbit	Ferret	Bird				
Centrifugal sedimentation flotation method - faeces										3					4	4	4								
Determining e.p.g. / o.p.g. (amongst other McMaster) faeces										2		3			4									3	
Baermann method (lung worm larvae)	1	2		2	2	2	2					3			4	4	4							3	
Sticky tape method (parasitological)										1		3			4	4	4								
Making and assessment of microscopic preparation (fungus/ecto-parasites)										3		4			4	4	4					4		4	
Using an "in-house" fungus culture (skin / hair)										3					4	4	4					4		4	
Microscopic assessment of sperm										2		3			4										
Preparing and dispatching of body tissue										3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Simple bacteriological examination										3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Preparing a smear for cytology										4															
Determining the milk cell count (T-pol, CMT)		4																							
Implementation of modern laboratory techniques										3													4		4
Application of laboratory protocols										3													4		4
Diagnostic imaging																									
Making of X-rays										2					4	4	4	4	4	4	4	4			
Assessment of quality and interpretation of X-rays										2					3	4	4	4	4	4	4	4			
Taking and interpreting ultrasound scans										2	4	4			4	3	3	3							
Public health																									
Examination of products of animal origin	4	4	4	4																					
Ante mortem examination	4	4	4	4																					
Post mortem examination	4	4	4	4																					
Emergency culling before slaughtering	4	4	4	3																					
Preparing a risk analysis										3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Audit HACCP plan										2	3	3	3												4
Examination of the direct environment (CCP)										3	4	4	4												4
Examination of water quality										2	4	4	4												4
Sampling in the scope of CCP										3	4	4	4												4
Export certification	1	1	1								3	3	3											3	
Zoo technical aspects / Support																									

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SKILLS	Common										Study completion field														
											ADA		H		CA				VP	M&P	SR				
	Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent	Rabbit	Ferret	Bird	Cross animal species	Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent	Rabbit	Ferret	Bird				
Animal selection for detailed examination	3	3	3	2	2	2	2	2	2		4	4	4	3	4	4	4	4	4	4	4	4	4		4
Condition score	1	2	1								3	3	3		3	3							3		
Measurement of zoo technical variables										1	4	4	4	3											
Claw score	1	1									3														
Teat score		1									3														
Assessment feeding/feeding schedules										3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Assessment of accommodation										2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Implementation of periodical site visits to dairy farm		2									3														
Preparation of a SWOT-analysis based on data-inspection, site inspection and animal inspection in the area of:																									
- animal health aspects										2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
- production										2	3	3	3											3	
- aspects of reproduction and breeding										2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
- accommodation/accommodation systems										2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
- climate										2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
- welfare										2	3	3	3	3	3	3	3	3	3	3	3	3	3	4	
- use of veterinary medication										2	3	3	3	3	3	3	3	3	3	3	3	3	3	4	
- public health										2	3	3	3	3	3	3								4	
- nutrition										2	3	3	3	3	3	3	3							3	
- economy of the industry										1	3	3	3	3										3	
- environment										1	3	3	3	3										4	
Ammonia quality measurement	1		1								3				3										
CO ₂ quality measurement	2	2	2								4	4	4												
Stable climate assessment: ventilation (system), implement smoke test, air speed and humidity level	1	1	1								3	3	3	3										2	
Drafting of a business treatment plan	2	2	2								4	4	4	3											
Assessment of wet milk measurement		1									3														
Interpretation of milk inspection results and milk money settled	1										3														
Dispensary and Practice																									

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SKILLS	Common										Study completion field									
	Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent Rabbit Ferret	Bird	Cross animal species	ADA		H		CA			VP	M&P	SR	
										Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent Rabbit Ferret				Bird
Packaging, labelling of veterinary medication to be delivered								4												
Magistral preparation								2		3		4	4	4	4	4				
Writing up of prescription								4												
Stock control								4												
Writing of the certificate								4												
Cleaning and disinfection - practice / vehicle / instruments								3	4	4		4	4	4	4	4	4			
'Good Laboratory and Veterinary Practice'								3	4	4	4	4	4	4	4	4	4	4		
Working with databases and ICT-use								4												
Working with literature search engines								3	4	4	4	4	4	4	4	4	4	4		
Additional surgical skills																				
Adrenalectomy					1	1	1							2	2	2				
Anal sac extirpation					1	1							3	3						
Arthrodesis		1		1	1	1	1			2		2	2	2						
Pelvic osteotomy - TPO					1	1							2	2						
Blepharoplasty		1		1	1	1	1			2		3	3	3						
Cervical-stump resection OVE complication treatment					2	2	1						3	3	3					
Colposuspension					1	1							2	2						
Composite reconstruction					1	1							2	2						
Cornea sequester treatment		1		1	2	2	2	1		2		3	3	3						
Cornea trauma treatment								2		3		3	3							
Cystotomy				1	2	2	2					2	3	3	3					
Debridement/wound cleaning		2		2	3	3	3	3		3		3	4	4	4	4	4			
Drainage		2		2	4	4	4	4	4	3		3	3							
Entropion / ectropion treatment	2			1	2	2	2					2	3	3	3					
Chirurgical egg removal											1						2			
Elbow luxation - operative					1	1							2							
Endodontic treatment					1	1	1					2	2	2						
Fracture 'conservative treatment'	1	3		2	2	2	2	2		4			3	3						
Hernia treatment	2	2		1	1	1		1		3	3		2	2	2					

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SKILLS	Common										Study completion field									
	Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent Rabbit Ferret	Bird	Cross animal species	ADA		H		CA			VP	M&P	SR	
										Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent Rabbit Ferret				Bird
Hip luxation - operative					1	1							2							
Caput resection					1	1							2	2						
Hubertus claw amputation pup					4															
Hubertus claw amputation adult animal					2								3							
Hygroma elbow	1			1	2							2	3							
Removal of implant					2	2							3	3						
Jaw-symphysis luxation		2		1	2	2				3		3	3	3						
Jaw resection					1	1							2	2						
Knee /shoulder joint arthrotomy					1	1	1						3	2						
Los Processus Anconeus / Arthrotomy - elbow					1	1							2	2						
Los Processus Coronoideus / Arthrotomy elbow					1	1							2	2						
Luxation – non-invasive repositioning		2			1	1							3	3						
Lymph gland removal					3	3							4	4	1					
Mastectomy		1			2	2				2			3	3						
Nostril adjustment					1								2							
Eyelid trauma treatment								2				3	3	3						
Eyelid tumour treatment		2		2	2	2						3	3	3						
Open abdominal drainage					1	1	1						2							
Patella luxation		2		1	1	1							2							
Peritoneal rinsing					1	1							2							
Pyloromyotomy, Fredet Ramstedt / pyloroplasty					1	1							2	2						
Rectum prolaps treatment	2	2		1	1	1				3	3		2	2	2	2	2			
Resection mandibular/sublingual saliva gland					2	2							3							
Resection vaginal tumour					1	2							3							
Scrotum amputation					2	2														
Sinus trepanation		1		1	2					2										
Beak correction								2									4			
Beak reconstruction synthetic resin								1									2			
Splenectomy					2	2							3							
Tongue amputation					1	1							2	2						
Total ablation external auditory meatus					1	1							2							
Feather cyst removal								1									3			

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	Common										Study completion field					
	Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent Rabbit Ferret	Bird	Cross animal species	ADA	H	CA	VP	M&P	SR	
Removal of polyp, middle ear					2	2										
Wing amputation / Leg amputation							2									

Detailed definition regarding various aspects of the skills list

For all mentioned actions, the following applies: for as far as relevant to the animal species involved.

1 Description recording / checking: Animal species, race, sex, age, colour and markings and particular characteristics. Age estimation only based on external characteristics; dental assessment is a separate skill.

2 Performing a general examination: General impression: assessment of behaviour, posture and gait, physique, nutritional state (birds too) and noticeable clinical Breathing deviations: recording and assessment of frequency, type and rhythm (looking) of Pulse: recording and assessment of frequency, rhythm and quality (feeling/listening) Temperature: rectal recording Hair, skin: colour, temperature, turgor, lift ability, thickness and sensitivity, lesions, blood and oedema Horny structures: form, size, colour, sensitivity, nature of surface

Mucous membranes: colour, moistness, bleeding and/or defects, filling time of capillaries (External) lymphatic nodes: size, form, consistency, sensitivity, movability

3 Examination of nose and sinus, pharynx, neck, lungs (respiration system): Respiration movement and sounds Nose and sinus: airflow, nasal flow, inspection, palpation and percussion of nose and sinus, laryngoscopic examination Larynx and trachea: inspection and palpation (including thyroid glands), in horses and birds: inspection of air sacs Thorax: inspection, auscultation and percussion

4 Examination of the heart (circulation system) Heart: inspection, palpation and auscultation, venous tension, venous pulse assessment, assessment of oedema and ascites, dog: liver palpation

5 Examination of the mouth and pharynx, neck, abdomen, groin, peri-anal area (digestion system) Mouth cavity, pharynx and neck: inspection (external and internal, as far as relevant), palpation (external and internal, tongue), odour, swallowing reflex, oesophagus palpation.

Abdomen: inspection, palpation and percussion, auscultation, steel band test, generating splash sounds; ruminants: Recording of stomach movement, pain tests, abomasum examination, liver percussion Peri-anal area: inspection and palpation

6 External examination of the urinary tracts and sexual organs General: Urination inspection.♂ - External sexual organs: inspection and palpation♀ - External sexual organs: inspection (and palpation)

7 Examination of hair, skin and horny structures: Inspection and palpation – similar to 'general examination', but more detailed. Including inspection of feathering

8 Examination of the mammary glands Inspection and palpation (ditto skin)

9 Examination of the ear: Pinna and external auditory meatus: external inspection (see skin), otoscope inspection, (overall) hearing examination

10 Examination of the eye: External inspection, eyelid reflex, inspection with slit lamp, fluorescence test, pupil reflex Examination visus: Obstacle test, movement reactions, threatening reflex, optical Stell reflexes, Examination of the retina with an ophthalmoscope

11 Examination of the nervous system Assessment of behaviour and consciousness level, also birds Assessment of posture and gait (overlapping with movement system), also bird Skull and spinal column: inspection, palpation, percussion, passive movements (overlapping with 'movement system') Reflexes: posture reactions (stell and correction reflexes), cerebral reflexes (overlapping with eye), spinal reflexes (i.e. tail muscle tone), vegetative reflexes/examination of pain perception and sensitivity

12 Examination of the movement system Limbs (lameness diagnosis): inspections in rest and in movement (samples), palpation, percussion, passive movements, bending and stretching tests; with dog and cat with both standing and lying animal Neck, back/spinal column: inspection, palpation, percussion, passive movements, (rectal examination/internal)

- Explanations with birds:** Inspection at a distance:
- Nervous system/locomotive system: behaviour/consciousness level, posture and gait/flight

- Respiration system: runny sinuses/air sacs, dyspnoea, tone of voice
- Feathering
- Obvious clinical deviations

Examination with fixed animal: Assessment of nutritional state Inspection and palpation of head (assessment of beak, mouth cavity if necessary, and eye), neck, wings, feet, feathering, breast and abdominal cavity, cloacae

**Final attainment levels - Veterinary Medicine
Curriculum
Annexure 2: Diseases List**

Utrecht, 6 June 2005

Explanations

Diseases List Explanation

The Diseases are described in comparable order such as in the "Questions/Problems list" (and as in the "Skills List"). The anatomic order was treated per "organ system" where relevant. Sometimes this ranges from "outside to inside" as with Respiration, sometimes also from "inside to outside", as with Reproduction. A further classification was then made between "Non Infectious" and "Infectious".

The sub-division under "Non Infectious" is as follows:

- Congenital
- Trauma
- Neoplasia
- Other

Under "Infectious" the basic order below is maintained:

- Virus
- Bacterial
- Parasite/Protozoa
- Fungus/Yeast

A disease is included in the Disease list under the most relevant organ system. With diseases where multiple organ systems are affected, the following solution is selected. In the disease list, a column "other organ systems" is included. If one of the letter combinations below is included in this, it implies that the mentioned disease/agent also has an effect on the mentioned organ system or organ systems. In exceptional cases, namely where it concerns a clearly specified disease, it is mentioned in 2 or more organ systems.

S System diseases	V Reproduction
R Respiration	N Kidney and Urinary tracts
C Circulation	H Skin
B Blood and Blood forming organs	M Mammary Glands
D Digestion	Z Senses and Nervous system
Liver and Pancreas	Lo Locomotion
E Endocrinology and Metabolism	

Knowledge levels of diseases for the communal part and the graduation fields:

Knowledge Level 1: know how to categorize

The veterinary has heard of the disease, which means that he knows how to categorize the disease if he is confronted with it in literature or correspondence.

Knowledge Level 2: consider diagnosis/dealing with it in practice

The veterinary can cope with the disease in the practice. In other words he has knowledge of, and insight into the event and of the most significant possibilities for diagnosis, therapy and prevention.

Knowledge Level 3: make own diagnosis, perform therapy and take preventive measures/be able to solve it himself

The veterinary has a wide knowledge of, and insight, in the disease and can make the diagnosis in practice. The veterinary has knowledge of, and insight, in developments of a disease, the prognosis, the possibilities towards therapy and the prevention, and he can personally establish a therapy and/or take preventive measures.

If a number is only indicated in the disease list's 'Common part' under the column 'across animal species', that means that the mentioned disease is considered to be known for all mentioned animal species on that level. That does not mean that the disease must be treated to the same level with all animal species; sometimes discussion of the disease with an example, i.e. the most relevant animal species, will be acceptable.

Under the columns of the various graduation fields, a number is only mentioned if the relevant disease is assumed with this animal species or sector on a higher level than under the 'common part'.

Under the columns of the graduation fields VP, M&P and SR the figures are related to the animal species as indicated under the common part.

SYSTEM DISEASES			Common										Study completion field					
Disease	Other organ systems		Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent Rabbit Ferret	Cross Animal species	ADA	H	CA		VP	M&P	SR	
														Rodent Rabbit Ferret	Bird			
Immune-mediated	Systemic Lupus Erythematosus	Lo				1	1	1				2						
Infectious	Cattle plague		2														3	2
	Classic swine fever	D V H Z									3						3	
	African swine fever		1								2						3	2
	Canine distemper/ Carré disease	R D N Z					2		1				3		2			
	Canine herpes virus infection	R V					2						3					
	Feline Infectious Peritonitis	R C D V Z						2						3				
	Feline immunodeficiency Virus	R D H Z						2										
	Feline Leukaemia Virus	B V						2										
	Blue tongue	R D Z		1								2					2	2
	African horse sickness												1				2	2
	Peste des Petits Ruminants	R D V		1							2						2	2
	Myxomatosis	D H Z							2								3	3
	Viral Haemorrhagic Disease	R D Le H Z							2								3	3
	Leptospirosis	B Le N V								2		3		3				3
	Swine erysipelas	C V H Lo		2							3							3
	(Membranous) Polyserositis (i.e. Glasser disease)	C R D Lo Z									2	3						3
	Pasteurella septicæmia	R									1							
	Streptococcus Suis-infection	R C D H Lo Z		2							3							3
	Malleus	R H					1						2					2
	Tularæmia	R B Lo							1								2	2
	Ehrlichia infection	B V								1			2				2	2
Zoonoses (that causes no symptoms with the animal)	Trichinellosis		1								2		1	1	1		3	2

RESPIRATION			Common										Study completion field					
Disease	Other organ systems		Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent Rabbit Ferret	Cross Animal species	ADA	H	CA		VP	M&P	SR	
															Rodent Rabbit Ferret	Bird		
Upper airways																		
Non infectious																		
Congenital	Too long palatum molle					1	2					2						
	Brachycephalic Obstructive Syndrome					1	1					2						
	Laryngeal collapse					1	1					1	2					
	Trachea collapse											2	1	1				
Trauma										1								
	Corpus alienum									2								
	Trachea rupture									2								
	Ethmoidal haematoma / bleeding	C								1				2				
Neoplasia										1				2	2			
	Nasopharyngeal polyp									1				2	2			
Other	Allergic rhinitis / bronchitis									2								
	Glottis oedema									2								
	Reverse Sneezing												3					
	Larynx paralysis / Cornage	Z			2	1							3	2	2			
	Epiglottis entrapment												2					
	Dorsal Displacement Palatum Molle									1			2					
	Movement palatopharyngeal arch												1					
	Webbing												1					
	Air sack tympani												2					
Infectious rhinitis										1			2	2				
	Inclusion Body Rhinitis									2								
	Cat Flu	V					2							3				
	Atrophic Rhinitis		2								3						3	
	Pasteurellosis								1									2
	Aspergillosis					1							2					
Infectious pharyngitis										2								
	(Dros. (Str. equi))	D Z			2								3					
Infectious laryngitis / tracheitis										2								
	Infectious LaryngoTracheitis				2								3					
	Turkey Rhino Tracheitis												2					
	Infectious Bovine Rhinotracheitis / Infectious Pustular Vulvovaginitis	V		2							3							
	Epiglottitis											2						
	Laryngitis Diphtheria	D		2							3							
	Syngamus trachea-infection			2					2			3						3

BLOOD and BLOOD FORMING ORGANS			Common										Study completion field					
Disease	Other organ systems		Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent Rabbit Ferret	Bird	Cross Animal species	ADA	H	CA	VP	M&P	SR	
			Blood															
Anaemia due to blood loss																		
Non infectious Trauma (internal and external)	C V										1	3	3	3	3	2	2	
Infectious Hemorrhosis	D		2									3						
Anaemia due to increased blood decomposition											2			3				
Non infectious											2							
Other Immune-mediated AIHA							1							2				
	Neonatal iso-erythrolysis										2	3		3	3			
	Intoxications										1							
	Copper	Le		1			1					3		2				
	Water		1	1								3	2					
	Nitrite, nitrate			2								2	3					
	Onions			1								2	1					
Infectious											1							
	Chicken Anaemia Virus infection			1								2						
	Babesiosis		1				2					2	2	3		2	2	
Anaemia due to inadequate blood production											2							
Non infectious Iron deficiency			2	1								3	2					
Haemorrhagic diathesis	C H										2			3	3	3		
Clotting defects																		
Non infectious Congenital											1							
Other																		
	Immune-mediated i.e. Thrombocytopenia purpera	H										1	3					
	Intoxications / deficiencies													2	2			
Infectious																		
	Anthrax										2	3						3
	Malana								1									2
Blood forming organs																		
Non infectious																		
Congenital A-/ hyperplasia											2							
(Bovine) Leukocyte Adhesion Deficiency			1									2						
Trauma Namely Spleen rupture											1			2	2			
Neoplasia											2							
	Juvenile lymph sarcoma	C D		1								2						
	Leukaemia	H								1				2	2			
	Plasma cell tumour						1	1						2	2			
Infectious Neoplasia	Leucosis Virus-infection	Le	1	1				2		1		3	2		3		2	3
	Marek's Disease	D Le H Lo Z		2						2			3				3	

DIGESTION			Common										Study completion field					
Disease	Other organ systems		Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent Rabbit Ferret	Bird	Cross Animal species	ADA	hors	CA	VP	M&P	SR	
			Mouth, beak and throat															
Non infectious																		
Congenital Malocclusion											1			2	2	2	2	2
	Palatoschizis / cheiloschizis													3				
Trauma Trauma (teeth, jaw, wounds)											2			3	3	3	3	
	Corpora Aliena		1		1	2	2	2				2		2	3	3	2	
blastoma											2			3	3			
Other	Saliva cyst					1	1	1						3				
	Dental problems + Paradontopathy										2			3	3	3	3	
	Stomatitis Gingivitis Complex							2						3				
	Hypovitaminosis A																1	
	Feline Eosinophilic Granuloma							2						3				
	Myositis Eosinophiliica	Lo				1								2				
	(Pharynx-) Dysphagia	Z									1	2		2	2			
Infectious																		
Stomatitis / Gingivitis / Cheilitis / Pharyngitis												2		3	3	3		
	Foot and Mouth disease	S C Lo	2	2								3	3					3
	Bovine Virus Diarrhoea / Mucosal Disease (see intes	S		2										3				
	Ecthyma	H M		2										3				
	Smallpox diphtheria	R H			2					1				3				2
	Stomatitis Vesicularis	S Lo	2	2		1								3	3			3
	Swine Vesicular Disease		2											3				3
	Papillomatosis	H								2				3	3	3		
	Beak and Feather disease	H							1					3				2
	Diphtheria	R		2										3				
	Actinobacillosis			1										2				
	Actinomycosis	Lo		1										2				
Oesophagus and crop																		
Non infectious																		
blastoma							1	1						2	2			
Other	Oesophagus obstruction	R		2	2	2								3	3	3	1	
	Oesophagus stricture										1			2	2	2	2	
	Oesophagus dilatation	C Z												1	2	2	2	2
	Oesophagitis													1	2	2	2	
Infectious	Crop infection	Trichomonas / Candida								1	1			2				2

Disease	Other organ systems	Other organ systems																	
		Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent Rabbit Ferret	Bird	Cross Animal species	Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent Rabbit Ferret	Bird	
Upper stomach																			
Non infectious																			
blastoma	Cardia tumours		1									2							
Other	Tympani		2									3							
	Pensacidosis		1									3							
	Fermentation disorder / alkalosis		1									2							
	"Kleischijter"		1									3							
	Traumatic reticulitis	Le	2									3							
Stomach																			
Non infectious																			
blastoma						1	1								2	2			
Other	Saburra				2								3						
	Grass sickness	Z			2								3						
	(Abomasum) stomach impaction		1	1								2	2						
	Corpus alienum / hypomotility				2	2	1	1					3	3		2	2		
	Stomach dilatation (Volvulus) Syndrome		1			2						2		3			2		
	Abomasum dislocation		2										3						
	Pylorus stenosis				2								3						
	Frontal and Back Stenosis		2			2							3						
	Abomasum ulcer	i.e. Helicobacter / PCV2									1	2	2	3	2		2		
	Abomasum bleeding	B	2										3						
Infectious - Gastritis																			
	Vomiting and Wasting Disease	Z	1									2							
	Ostertagia / Hyostromylus / Haemonchus spp. infection		1	2								2	3						
	Gasterophilus spp.	h				1								2					

Disease	Other organ systems	Other organ systems																	
		Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent Rabbit Ferret	Bird	Cross Animal species	Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent Rabbit Ferret	Bird	
Small intestine and colon																			
Non infectious																			
blastoma						1	1								2	2			
Other	Ileum small intestine (volvulus, intus susception, str)	Le										2	3	3	3	3			
	Meteorismus Caecum / Colon		2		2								3						
	Torsio Caecum and/or Colon		2		2							2	3						
	Positional changes Colon				2								3						
	Intussusception Caecum				1								2						
	Constipation Colon, incl. sand				2								3						
	Idiopathic mega colon						1								2				
	Steatorrhoea		1									2							
	Inflammatory Bowel Disease				2	1	2						3						
	Oestrus diarrhoea				2								3						
	Gastro-intestinal nutritional allergy				1	1								2	2				
Infection - Enteritis																			
Viral																			
	Rotavirus-infection											2	3	3	3			3	
	Corona virus-infection TGE- / PED											2	3						
	Parvo virus-infection					2	2	2						3	3	3			
	Bovine Virus Diarrhoea	V	2										3						
	Malignant Catarrhal Fever	S V Z	2										3						
	Adeno virus - E. coli complex									1								2	
	Reo virus-infection												2						
Bacterial																			
	Dysbacteriosis										1	2	2	2	2		3		2
	E. coli-infection	S M										2	3	3	3	3	3		3
	Salmonellosis	S V Lo									2	3	3	3	3	3	3	3	3
	Cl. perfringens and other Cl.spp infection (Colitis X)	S									2	3	3	3	3		3	3	
	Tyzer's Disease	Le								1					1				2
	Campylobacter-infection										1			2					2
	Proliferating Enteropathy		1						1				3				2		2
	Para-tuberculosis			2									3					3	
	Dysentery / Spirochaetosis		2		1								3	2					
	Mucous Enteropathy									1							2		2

ENDOCRINOLOGY and METABOLISM			Common										Study Completion Field							
Disease	Other organ systems		Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent	Rabbit	Ferret	Bird	Cross animal species	ADA	H	CA	VP	M&P	SR	
Hypothalamus and Pituitary gland																				
Congenital	Pituitary hyper secretion / Burnier syn	Congenital Aplasia / Hypoplasia											1			2				
Neoplasia	Pituitary Hyper secretion					1	1								2	2				
	Acromegaly	blastoma	Lo			1	1								2	2				
	Central Diabetes Insipidus	Idiopathic / Neoplasia	N			1	1	1							2	2				
Adrenal Gland																				
	Addison's Disease	Primary Hypoadrenocorticism				2	2	1							3	3	2			
	Cushing's Syndrome	Hypercortisolism	Lo			1	2	1							2	3	2			
		Hyperadrenocorticism							1								2			
Thyroid																				
	Hypothyroidism	Atrophy / atrophitis / Blastoma					1								1	2	1			
	Hyperthyroidism	Blastoma				2	1								1	3	2			
Endocrinal pancreas																				
Non infectious																				
	Blastoma	Hypoglycaemia	Lo Z			1		1							2	1	2			
	Other	Hypoglycaemia (hypothermia)	Lo Z										3							
		Diabetes mellitus	D N Z										2		3	3		3		
Parathyroid																				
	Primary hypoparathyroidism	Parathyroiditis				1	1								2	2				
	Primary hyperparathyroidism		Lo												1	1				
		Secondary (renal / alimentary) hyperparathyroidism	Lo												1	1		1		
Electrolyte disorders																				
	Hypocalcaemia / Tetany		V Lo Z	1	2		2	1	1	1				2	3	3	2	2		2
	Hypocalcaemia		N Lo Z					1								1	2	1		
	Hypo and hyperphosphatemia														1	1	1	1		
	Grass tetany	Hypomagnesaemia	Z		2										3					
	Hyperkalemia					1	1	1							2	2	2			
Nutritional deficiencies																				
	Vit-E / Se-deficiencies	Myodegeneration	C Lo Z										1	2	3	2			2	
	Steatitis		Lo			1								1		3			2	
	Hypovitaminosis A		D Z										1							
	Hypervitaminosis A		Lo													1	2		1	
	Co- / Vit.B12-deficiency		D V Z										1	2						
	Hypovitaminosis D	Rachitis / Osteomalacia	Lo										1					2		
	Hypervitaminosis D		Lo										1		2					
Other																				

Disease	Other organ systems		Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent	Rabbit	Ferret	Bird	Cross animal species	ADA	H	CA	VP	M&P	SR	
Downer cow		Lo Z																		
Ketosis / Acetonaemia		D Le Z		2												3				
Hyperlipaemia		Le				2	1	1								3				
Polyphagia with weight loss		D					1	1								2	2			
Obesitas / Adipositas		Le											2		3	3	3			
Myopathy / Muscle degeneration		Lo											2							
Tying-up		Lo				2										3				
Porcine Stress Syndrome		R Lo	1											2		3			2	
Myotonia congenita		Lo													1					
Myopathy masticatory muscles		D													1					
Low milk fat syndrome		M		1											2					

REPRODUCTION			COMMON										Study Completion Field						
Disease	Other organ systems		Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent Rabbit Ferret	Bird	Cross Animal species	ADA	H	CA	VP	M&P	SR		
			Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent Rabbit Ferret	Bird	Cross Animal species	Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent Rabbit Ferret	Bird
Algemeen																			
Congenital	Intersexuality / Kwee / Freemartin		2								1	4							
Ovaries																			
Non infectious																			
Blastoma			1	2	1							2	3	2	1				
Other	Cystic Ovarian Follicles		1									2	3	2					
	Anoestrus										1	2	3	2	2	2			
Uterus and cervix																			
Non infectious																			
Congenital	White Heifer Disease										1	3							
	Cervix duplex										1	3							
Blastoma														1	1				
Other	CEH-complex	N			1	2	1							2	3	3			
	Pseudo pregnancy		1			1	1					2		3	2				
	Hydrallantois / Hydramnion		1									2							
	(Inversio et) Prolapsus Uteri		2	2	2	1						3	3	2	1				
	Sub involution placenta position / Metrorragie					1								2					
Infectious	Acute puerperal endometritis / Lochiometra										2	3	3						
	Retentio Secundinarium										2	3	3						
	Chronic Endometritis Puerperalis / Pyometra										2	3	3	3					
	Endometritis during (di-)oestrus				1	1							2	2	1				
	Contagious Equine Metritis				1								3			2			
Foetal death / abortion																			
Non infectious																			
Congenital	Foetal Defects										1			2					
Other	Early-Embryonic Death / Repeat Breeder										1	3	2	2					
	Zealere intoxication											2							
Infectious	Porcine Parvo Virus infection		1									3							
	Brucellosis										2	3							
	Campylobacter infection		1									2							
	Chlamydia infection											1							
	Q-fever / Coxiella burnetii infection	S	1												2	2			
	Neospora Infection	Z									1	3		2					
	Toxoplasmosis	S Lo Z									2	3	3		3				

Disease	Other organ systems		Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent Rabbit Ferret	Bird	Cross Animal species	Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent Rabbit Ferret	Bird
			Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent Rabbit Ferret	Bird	Cross Animal species	Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent Rabbit Ferret	Bird
Vagina, vestibulum and vulva																			
Non infectious																			
Congenital	Fleischspangen			1									2						
	Persistent hymen			1									2	2	1	2			
Trauma	Trauma / incl. Corpora Aliena										1		2	2	2				
	Perivaginal infection		1		1								2	2					
Blastoma						1									2				
Other	Pneumo vagina					1						1		2					
	Inversio (& prolapsus) vaginae		2		1						1	3							
	Vanices in vagina													1					
Infectious	Transmissible Veneral Tumour														2				
	Vaginitis										1	2		2					
Testicle and scrotum																			
Non infectious																			
Congenital	Cryptorchidie										1			2	3	3			
	Sperm defects / Infertility										1			2	2				
Blastoma		H									1			2	2	1			
Other	Hernia Inguinalis / Scrotalis										1	3		3	2	2			
	Torsio Testiculi					1	1							2	2				
Infectious	Orchitis / Epididymitis										1			2					
Prostate																			
Non infectious																			
Congenital	Paraprostatic cysts														1				
Blastoma						1									2				
Other	Prostate hyperplasia					1									2	1	1		
Infectious	Prostatitis														2	1			
Penis and preputium																			
Non infectious																			
Congenital	Persistent fraenum					1									2				
Trauma	Trauma of the penis		1		1	1						2		2	2	2			
Blastoma															2	1			
Other	(Para-)phimosis				1	1								3	2	1			
Infectious	Transmissible Veneral Tumour														2				
	(Balano)posthitis		1			2						2		1	3	1			

KIDNEY and URINARY TRACT			Common										Study completion field					
Disease	Other organ systems		Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent Rabbit Ferret	Bird	Cross Animal species	ADA	H	CA	VP	M&P	SR	
Kidney																		
Non infectious																		
Congenital	Hydronephrosis / kidney cysts										1			2	2			
Blastoma											1			2	2			
Other	Amyloidal nephrosis		1			1			1		1		2	1	2		2	
	(Chronic) Interstitial Nephritis			1	1	2	2	1	1	1		3	2	3	3	2	3	
	Emboic nephritis										1	2	2	3	3			
Infectious	(Glomerulo-)Nephritis										2			3	3		2	
	Pyelonephritis		1	2		1	1				2	3	1	2	2		2	
Urinary tract																		
Non infectious																		
Congenital	Ectopic Urethras					1											2	
Blastoma	Bladder tumour																2	
Other	Bladder rupture				2	2	2							3	3	3		
	Bladder prolapse	V	1								2	1	1					
	Obstructions urethra(s)																2	
	Urolithiasis / Urethra obstruction										2	3		3	3			
Infectious	Cystitis										2	3		3	3			

SKIN			Common										Study completion field					
Disease	Other organ systems		Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent Rabbit Ferret	Bird	Cross Animal species	ADA	H	CA	VP	M&P	SR	
Non infectious																		
Congenital	Collagen displasia										1							
	Epitheliogenesis imperfecta										1							
	Alopecia					2	2				1			3	3			
Immune-mediated																		
	Food sensitivity					1	1							3	2			
	Atopy										1		2	2				
	Urticaria / angio oedema based on allergic reaction										2		3	3				
	Pemphigus complex										1		2	2	2			
	Toxic Epidermal Necrolysis														1	1		
	Plasma cellular pododermatitis														2			
	Juvenile cellulites														2			
	Flea allergy					2	2								3	3		
	Eosinophile granuloma complex	D				1	2								3			
	Tail and mane eczema				1									3				
	Udder eczema		1											3				
	Urine eczema										1			2				
Blastoma											2			3	3			
	Papillomas (viral)										2			3				
	Adenocarcinoma					2	2				1			3	3	3		
	Melanomas	Z				2					1			3				
	Sarcoïd					2								3				
	Mast cell tumour	D				2	2							3	3			
Trauma	Trauma general										3							
	Local hyper keratosis as a result of 'pressure'										1	2	2	2				
	Burn wounds										2			3				
	Interdigital trauma / pyoderma					1									2			
Other	Zn-deficiency	E									1	2	2					
	Vit-A deficiency										1							
	Intoxications										1	1						
	Nodular dermatofibrosis					1									2			
	Acanthosis (nigricans)														1			
	Seborrhoea					1									2	1		
	Tail gland hyperplasia					1									2	1		
	Photo sensibility	Le			1	1							3	2				
	Alopecia										1			2	3	3		

LOCOMOTION			Common										Study completion field									
Disease	Other organ systems		Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent	Rabbit	Ferret	Bird	Cross Animal species	ADA	H	CA			VP	M&P	SR	
			Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent	Rabbit	Ferret	Bird	Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent	Rabbit	Ferret	Bird
Muscles and nerves																						
Non infectious																						
Congenital	Congenital Hyperplasia / Dikbil			1																		
	Myofibrillary hypoplasia / Splay leg		1											3	3		1	1			2	2
	Congenital contractures	Stilt foot / scoliosis / torticollis											1	2	3		3	2				
	Arthrogypsis			1											3							
	Spastic paresis			1											2							
	Crampedness			1	1										2		2					
	Glycogen stacking disease	C E														1						
Trauma		B											2	3		3	3	3	3			
	Tendon rupture												1		2	2						
Blastoma													1									
Other	Myopathy												1									
		Hereditary Muscle degeneration	R D												1		1	1				
		PSS / Malignant Hyperthermia		2											3						3	
		Tying up / Monday Syndrome	B E N			2										3						
Infectious	Myositis	(Pseudo-)Back quarter / Malignant oedema	1	1	1								1	2	3		2					
														1	2	3	2	3	2			
	Tendovaginitis / Tenosynovitis												1	2	3		3	2				
	Bursitis	Chapped hock	1	2	1									2	3		3					
	Parasitic myositis	Cysticercosis											1	2	2						3	
		Sarcocystosis												1	1						2	
Bones																						
Non infectious																						
Trauma	Fractures												2	3		3	3	3	3	3		
Blastoma													1				2					
Other	Chondrodystrophy												1									
		(Pseudo-)Perosis / Turned legs				1										2						
	Hypertrophic osteotomy															2		1		1		
	Spondyloisthesis	Kinky back				1										2						
	Varus and valgus deviation / Radius Curvus Syndrome					1	1	1								2	2	2				
	Osteoporosis					1		1	1							2		2	2			
	Osteosclerosis															1						
	Cranio-mandibular osteotomy																	1				
	Persistence of enchondral cartilage	Tybial dyschondroplasia				1										2		1				
Infectious	(Peri-)ostitis / Osteomyelitis		D										1									

LOCOMOTION			Common										Study completion field									
Disease	Other organ systems		Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent	Rabbit	Ferret	Bird	Cross Animal species	ADA	H	CA			VP	M&P	SR	
			Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent	Rabbit	Ferret	Bird	Pigs	Ruminant	Poultry	Horse	Dog	Cat	Rodent	Rabbit	Ferret	Bird
Joints																						
Non infectious																						
Congenital																						
	Hip dysplasia					1												3				
	Patella luxation												1			2	2	2				
Trauma													2			3	3	3	3	3		
Blastoma													1									
Other	(Osteotomy)arthrosis	i.e. Spat/Low and High over hoof				2	1							1		3	2					
	Podotrochleosis					2										3						
	Sesamoidosis					1										2	1					
	Osteochondrosis dissecans / LPA / LPC		1			2								2		3						
	Spondylitis					1	1							1	1	2	2	1				
	Disease of Calve Legg Perthes					1										2						
Infectious																						
	(Poly-)arthritis												2	3	3	3	3	3	3	3		
		Gout				1										2						
	Borreliosis						1											3			3	
	Discospondylitis												1									
Hooves, claws, nails																						
Non infectious																						
Trauma						1	2									2	3					
Other	White line defect					1	1									3	3					
	Sole haemorrhages / Sole ulcers					1	1									3	3					
	Hoof cancer/Radial cancer					2	2									3	3					
	Hoof cancer					2	2									3	3					
	Interdigital flegrmona					1										3						
Infectious	(Inter) Digital dermatitis	Rot foot / Dermatitis Intertigitale / Mortellaro				1										3						

Colophon

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