

Correspondência entre as matérias previstas na Diretiva 2005/36/EC (alteradas pela Diretiva 2013/55/EU) e no European System of Evaluation of Veterinary Training (ESEVT) e as competências dos mestres em Medicina Veterinária da FMV-ULisboa

INPUT (ESEVT SUBJECTS)	UCs (Curriculum)	OUTPUT (DAY 1 ESEVT Competences)	OUTPUT (DAY 1 FMV Competences)
Basic subjects			
Medical physics	Biofísica Imagiologia	<p>1.4 Promote, monitor and contribute to maintaining health and safety of one-self, patients, clients, colleagues and environment in the veterinary setting; demonstrate knowledge about the principles of quality assurance; apply principles of risk management in practice.</p> <p>1.24 Use basic imaging equipment and carry out an examination effectively as appropriate to the case, in accordance with good health and safety practice and current regulations. Understand the contribution of digital tools and artificial intelligence in veterinary medicine.</p>	<p>1.1.7; 1.1.8</p> <p>1.1.7; 1.1.10; 3.1.4; 3.2.2; 3.2.3; 3.1.12</p>
Chemistry (inorganic and organic sections)	Bioquímica I, II Atividades Complementares III, IV	<p>1.24 Use basic imaging equipment and carry out an examination effectively as appropriate to the case, in accordance with good health and safety practice and current regulations. Understand the contribution of digital tools and artificial intelligence in veterinary medicine.</p>	<p>1.1.7; 1.1.10; 3.1.4; 3.2.2; 3.2.3; 3.1.12</p>
Animal biology, zoology and cell biology	Anatomia I, II Histologia I, II Fisiologia I, II Bioquímica I, II Embriologia e Biologia do Desenvolvimento Biologia Molecular da Célula Atividades Complementares III, IV	<p>1.2 Understand scientific research methods, the contribution of basic and applied research to science and implementation of the 3Rs principle (Replacement, Reduction, Refinement).</p>	<p>1.1.3</p>
Feed plant biology and toxic plants	Biologia Vegetal, Agricultura e Ambiente Zootecnia Geral	<p>1.16 Obtain an accurate and relevant history of the individual animal or animal group, and its/their husbandry and environment.</p> <p>1.21 Assess the physical condition, welfare and nutritional status of an animal or group of animals and advise the client on principles of husbandry, feeding, reproduction, production, welfare, individual health, herd health and public health.</p>	<p>3.1.3</p> <p>3.3.4; 3.4.6</p>

		<p>1.22 Collect, preserve and transport samples, select appropriate diagnostic tests, interpret and understand the limitations of the test results.</p> <p>1.36 Perform inspection of food and feed to correctly identify conditions affecting the quality and safety of products of animal origin, including related food technology.</p>	<p>3.2.4</p> <p>3.3.5</p>
Biomedical statistics	Biomatemática, Informática e Documentação Epidemiologia	<p>1.2 Understand scientific research methods, the contribution of basic and applied research to science and implementation of the 3Rs principle (Replacement, Reduction, Refinement).</p> <p>1.24 Use basic imaging equipment and carry out an examination effectively as appropriate to the case, in accordance with good health and safety practice and current regulations. Understand the contribution of digital tools and artificial intelligence in veterinary medicine.</p>	<p>1.1.3</p> <p>1.1.7; 1.1.10; 3.1.4; 3.2.2; 3.2.3; 3.1.12</p>
Specific veterinary subjects			
Basic Sciences			
Anatomy, histology and embryology	Anatomia I, II, III Histologia I, II Embriologia e Biologia do Desenvolvimento Imagiologia	1.2 Understand scientific research methods, the contribution of basic and applied research to science and implementation of the 3Rs principle (Replacement, Reduction, Refinement).	1.1.3
Physiology	Fisiologia I, II	1.2 Understand scientific research methods, the contribution of basic and applied research to science and implementation of the 3Rs principle (Replacement, Reduction, Refinement).	1.1.3
Biochemistry	Bioquímica I, II Biologia Molecular da Célula Atividades Complementares III, IV	<p>1.2 Understand scientific research methods, the contribution of basic and applied research to science and implementation of the 3Rs principle (Replacement, Reduction, Refinement).</p> <p>1.22 Collect, preserve and transport samples, select appropriate diagnostic tests, interpret and understand the limitations of the test results.</p>	<p>1.1.3</p> <p>3.2.4; 3.3.5</p>
General and molecular genetics	Bioquímica I, II Biologia Molecular da Célula Genética Melhoramento Animal	1.2 Understand scientific research methods, the contribution of basic and applied research to science and implementation of the 3Rs principle (Replacement, Reduction, Refinement).	1.1.3

Pharmacology, pharmacy and pharmacotherapy	Farmacologia e Terapêutica I, II Atividades Complementares III, IV	<p>1.1 Act in a way that shows understanding of the ethical and legal framework within which veterinarians should work, including professional-, animal welfare-, client-, public health-, societal- and environmental-related aspects.</p> <p>1.26 Access the appropriate sources of data on information and legislation relating to animal care and welfare, animal movement, notifiable and reportable diseases, use of medicines, including responsible use of antimicrobials.</p> <p>1.27 Prescribe and dispense medicines correctly and responsibly in accordance with legislation and latest guidance.</p> <p>1.28 Report suspected adverse reactions through the appropriate channel.</p>	<p>1.1.1; 1.1.9</p> <p>1.1.1; 1.1.4; 3.4.1; 3.4.2</p> <p>3.1.10</p> <p>3.1.10</p>
Pathology	Anatomia Patológica I, II Patologia Geral Patologia e Clínica das Doenças Parasitárias Patologia e Clínica das Doenças Infecciosas I, II Medicina I, II Atividades Complementares III, IV	<p>1.10 Understand and apply principles of One Health to ensure veterinary Good Clinical Practice, and research-based and evidence-based veterinary medicine.</p> <p>1.22 Collect, preserve and transport samples, select appropriate diagnostic tests, interpret and understand the limitations of the test results.</p> <p>1.23 Communicate clearly and collaborate with referral and diagnostic services, including providing an appropriate history.</p> <p>1.34 Perform necropsy in all common animal species, including sampling, dispatching and reporting.</p>	<p>1.1.2; 1.1.3</p> <p>3.1.4; 3.2.4; 3.3.5</p> <p>2.3</p> <p>3.2.8</p>
Toxicology	Toxicologia Atividades Complementares III, IV	<p>1.1 Act in a way that shows understanding of the ethical and legal framework within which veterinarians should work, including professional-, animal welfare-, client-, public health-, societal- and environmental-related aspects.</p> <p>1.22 Collect, preserve and transport samples, select appropriate diagnostic tests, interpret and understand the limitations of the test results.</p> <p>1.23 Communicate clearly and collaborate with referral and diagnostic services, including providing an appropriate history.</p> <p>1.25 Recognize signs of possible notifiable, reportable and zoonotic diseases as well as abuse and take appropriate action, including notifying the relevant authorities.</p>	<p>1.1.1; 1.1.9</p> <p>3.1.4; 3.2.4; 3.3.5</p> <p>2.3</p> <p>1.1.1</p>

Parasitology	Parasitologia I, II	<p>1.22 Collect, preserve and transport samples, select appropriate diagnostic tests, interpret and understand the limitations of the test results.</p> <p>1.25 Recognize signs of possible notifiable, reportable and zoonotic diseases as well as abuse and take appropriate action, including notifying the relevant authorities.</p> <p>1.38 Advise on, and implement, preventive and eradication programs appropriate to the species and in line with accepted animal health, welfare and public health standards.</p>	<p>3.1.4; 3.2.4; 3.3.5</p> <p>3.1.14; 3.4.1; 3.4.2; 3.4.5</p> <p>3.1.13</p>
Microbiology	Microbiologia I, II	<p>1.22 Collect, preserve and transport samples, select appropriate diagnostic tests, interpret and understand the limitations of the test results.</p> <p>1.25 Recognize signs of possible notifiable, reportable and zoonotic diseases as well as abuse and take appropriate action, including notifying the relevant authorities.</p> <p>1.38 Advise on, and implement, preventive and eradication programs appropriate to the species and in line with accepted animal health, welfare and public health standards.</p>	<p>3.1.4; 3.2.4; 3.3.5</p> <p>3.1.14; 3.4.1; 3.4.2; 3.4.5</p> <p>3.1.13</p>
Immunology	Imunologia	<p>1.10 Understand and apply principles of One Health to ensure veterinary Good Clinical Practice, and research-based and evidence-based veterinary medicine.</p> <p>1.38 Advise on, and implement, preventive and eradication programs appropriate to the species and in line with accepted animal health, welfare and public health standards.</p>	<p>1.1.2; 1.1.3</p> <p>3.1.13</p>
Epidemiology	Epidemiologia	<p>1.1 Act in a way that shows understanding of the ethical and legal framework within which veterinarians should work, including professional-, animal welfare-, client-, public health-, societal- and environmental-related aspects.</p> <p>1.3 Demonstrate a basic knowledge of the organization, management and legislation related to veterinary practice. Understand the economic and emotional context in which the veterinarian operates.</p> <p>1.10 Understand and apply principles of One Health to ensure veterinary Good Clinical Practice, and research-based and evidence-based veterinary medicine.</p> <p>1.12 Use of professional capabilities to contribute to the advancement of veterinary knowledge and the One Health concept, in order to promote the health, safety and welfare of animals, people and the environment, as well as the United Nations Sustainable Development Goals.</p>	<p>1.1.1; 1.1.9</p> <p>1.1.1; 1.2.3</p> <p>1.1.2; 1.1.3</p> <p>1.1.2; 1.1.6</p>

		1.38 Advise on, and implement, preventive and eradication programs appropriate to the species and in line with accepted animal health, welfare and public health standards.	3.1.13; 3.4.2
Information literacy and data management	Biomatemática, Informática e Documentação Epidemiologia	<p>1.1 Act in a way that shows understanding of the ethical and legal framework within which veterinarians should work, including professional-, animal welfare-, client-, public health, societal- and environmental-related aspects.</p> <p>1.2 Understand scientific research methods, the contribution of basic and applied research to science and implementation of the 3Rs principle (Replacement, Reduction, Refinement).</p> <p>1.7 Prepare accurate clinical and client records, and case reports when necessary, in a form satisfactory to the relevant audiences.</p> <p>1.9 Be able to review and evaluate literature and presentations critically.</p> <p>1.11 Demonstrate ability to critically analyze evidence, cope with incomplete information, deal with contingencies, and adapt knowledge and skills to varied scenarios and contexts.</p> <p>1.24 Use basic imaging equipment and carry out an examination effectively as appropriate to the case, in accordance with good health and safety practice and current regulations. Understand the contribution of digital tools and artificial intelligence in veterinary medicine.</p>	<p>1.1.1; 1.1.9</p> <p>1.1.3</p> <p>1.1.5</p> <p>1.1.3; 1.1.4</p> <p>1.2.3</p> <p>1.1.7; 1.1.10; 3.1.4; 3.2.2; 3.2.3; 3.1.12</p>
Professional ethics and communication	Deontologia e Bioética Profissão Médico Veterinária e Comunicação em Ciência	<p>1.1 Act in a way that shows understanding of the ethical and legal framework within which veterinarians should work, including professional-, animal welfare-, client-, public health-, societal- and environmental-related aspects.</p> <p>1.3 Demonstrate a basic knowledge of the organization, management and legislation related to veterinary practice. Understand the economic and emotional context in which the veterinarian operates.</p> <p>1.4 Promote, monitor and contribute to maintaining health and safety of one-self, patients, clients, colleagues and environment in the veterinary setting; demonstrate knowledge about the principles of quality assurance; apply principles of risk management in practice.</p> <p>1.5 Communicate effectively with clients, the public, professional colleagues and responsible authorities, using language appropriate to the audience concerned and in full respect of confidentiality and privacy.</p>	<p>1.1.1; 1.1.9</p> <p>1.1.1; 1.1.8; 1.2.1; 1.2.3</p> <p>1.1.7; 1.1.8</p> <p>2.1; 2.5; 2.6</p>

		<p>1.6 Implement principles of effective interpersonal interaction, including communication, leadership, management, team working, mutual respect and other soft skills.</p> <p>1.7 Prepare accurate clinical and client records, and case reports when necessary, in a form satisfactory to the relevant audiences.</p> <p>1.8 Work effectively as a member of a multidisciplinary team in the delivery of services and recognize the contribution of all team members.</p> <p>1.10 Understand and apply principles of One Health to ensure veterinary Good Clinical Practice, and research-based and evidence-based veterinary medicine.</p> <p>1.11 Demonstrate ability to critically analyze evidence, cope with incomplete information, deal with contingencies, and adapt knowledge and skills to varied scenarios and contexts</p> <p>1.13 Demonstrate the ability to recognize personal and professional limits, and know how to seek professional advice, assistance and support when necessary.</p> <p>1.14 Demonstrate a commitment to lifelong learning and to professional development. This includes recording and reflecting on professional experience and taking measures to improve performance and competence.</p> <p>1.15 Engage in self-audit and peer-group review processes on a regular basis in order to improve performance.</p> <p>1.23 Communicate clearly and collaborate with referral and diagnostic services, including providing an appropriate history.</p> <p>1.33 Recognize when euthanasia is appropriate and perform it with respect of the animal, using an appropriate method, whilst showing sensitivity to the feelings of owners and others, with due regard to the safety of those present; advise on disposal of the carcass.</p>	<p>2.1; 2.2; 2.5</p> <p>1.1.5</p> <p>2.2; 2.4; 2.5</p> <p>1.1.2; 1.1.3</p> <p>1.2.3</p> <p>1.2.2</p> <p>1.2.4</p> <p>1.2.2; 1.2.4</p> <p>2.3</p> <p>3.1.9</p>
Animal health economics and practice management	Economia e Gestão Medicina das Populações Clínica das Espécies Pecuárias I, II Patologia e Clínica das Doenças Infecciosas I	1.1 Act in a way that shows understanding of the ethical and legal framework within which veterinarians should work, including professional-, animal welfare-, client-, public health-, societal- and environmental-related aspects	1.1.1; 1.1.9

		<p>1.3 Demonstrate a basic knowledge of the organization, management and legislation related to veterinary practice. Understand the economic and emotional context in which the veterinarian operates.</p> <p>1.4 Promote, monitor and contribute to maintaining health and safety of oneself, patients, clients, colleagues and the environment in the veterinary setting; demonstrate knowledge about the principles of quality assurance; apply principles of risk management in practice.</p> <p>1.6 Implement principles of effective interpersonal interaction, including communication, leadership, management, team working, mutual respect and other soft skills.</p> <p>1.7 Prepare accurate clinical and client records, and case reports when necessary, in a form satisfactory to the relevant audiences.</p> <p>1.8 Work effectively as a member of a multidisciplinary team in the delivery of services and recognize the contribution of all team members.</p> <p>1.11 Demonstrate ability to critically analyze evidence, cope with incomplete information, deal with contingencies, and adapt knowledge and skills to varied scenarios and contexts.</p> <p>1.13 Demonstrate the ability to recognize personal and professional limits, and know how to seek professional advice, assistance and support when necessary.</p> <p>1.15 Engage in self-audit and peer-group review processes on a regular basis in order to improve performance.</p> <p>1.33 Recognize when euthanasia is appropriate and perform it with respect of the animal and its owners, using an appropriate method, with due regard to the safety of those present; advise on ethical and legal disposal of the carcass.</p>	<p>1.1.1; 1.1.8; 1.2.1; 1.2.3</p> <p>1.1.7; 1.1.8</p> <p>2.1; 2.2; 2.5</p> <p>1.1.5</p> <p>2.2; 2.4; 2.5</p> <p>1.2.3</p> <p>1.2.2</p> <p>1.2.3; 1.2.4</p> <p>3.1.9</p>
Animal ethology	Comportamento e Bem-Estar Animal Atividades complementares I, II	1.17 Handle and restrain animal patients safely and with respect of the animal, and instruct others in helping the veterinarian perform these techniques.	3.2.1
Animal welfare	Comportamento e Bem-Estar Animal Atividades complementares I, II Medicina das Populações Clínica de Espécies Pecuárias I, II Zootecnia Geral	1.1 Act in a way that shows understanding of the ethical and legal framework within which veterinarians should work, including professional-, animal welfare-, client-, public health-, societal- and environmental-related aspects.	1.1.1; 1.1.9

	Produção Animal I, II	<p>1.12 Use of professional capabilities to contribute to the advancement of veterinary knowledge and the One Health concept, in order to promote the health, safety and welfare of animals, people and the environment, as well as the United Nations Sustainable Development Goals.</p> <p>1.21 Assess the physical condition, welfare and nutritional status of an animal or group of animals and advise the client on principles of husbandry, feeding, reproduction, production, welfare, individual health, herd health and public health.</p> <p>1.33 Recognize when euthanasia is appropriate and perform it with respect of the animal and its owners, using an appropriate method, with due regard to the safety of those present; advise on ethical and legal disposal of the carcass.</p>	<p>1.1.2; 1.1.6</p> <p>3.1.1; 3.1.2; 3.1.13, 3.3.2; 3.3.4; 3.3.7</p> <p>3.1.9</p>
Animal nutrition	Nutrição Animal Alimentação Animal	<p>1.21 Assess the physical condition, welfare and nutritional status of an animal or group of animals and advise the client on principles of husbandry, feeding, reproduction, production, welfare, individual health, herd health and public health.</p> <p>1.22 Collect, preserve and transport samples, select appropriate diagnostic tests, interpret and understand the limitations of the test results.</p>	<p>3.1.13, 3.3.1; 3.3.2; 3.3.4; 3.3.7 3.4.6</p> <p>3.1.4; 3.2.4; 3.3.5</p>
Clinical Sciences in companion animals (including equine and exotic species)			
Obstetrics, reproduction and reproductive disorders	Reprodução e Obstetrícia I, II	<p>1.1 Act in a way that shows understanding of the ethical and legal framework within which veterinarians should work, including professional-, animal welfare-, client-, public health-, societal- and environmental-related aspects.</p> <p>1.3 Demonstrate a basic knowledge of the organization, management and legislation related to veterinary practice. Understand the economic and emotional context in which the veterinarian operates.</p> <p>1.10 Understand and apply principles of One Health to ensure veterinary Good Clinical Practice, and research-based and evidence-based veterinary medicine</p> <p>1.16 Obtain an accurate and relevant history of the individual animal or animal group, and its/their husbandry and environment.</p> <p>1.18 Perform a complete clinical examination and demonstrate ability in clinical decision-making.</p>	<p>1.1.1</p> <p>1.1.1; 1.2.3</p> <p>1.1.2; 1.1.3</p> <p>3.1.3</p> <p>3.1.4; 3.1.5; 3.1.7; 3.1.8; 3.1.9; 3.2.2</p>

		<p>1.21 Assess the physical condition, welfare and nutritional status of an animal or group of animals and advise the client on principles of husbandry, feeding, reproduction, production, welfare, individual health, herd health and public health.</p> <p>1.22 Collect, preserve and transport samples, select appropriate diagnostic tests, interpret and understand the limitations of the test results.</p> <p>1.23 Communicate clearly and collaborate with referral and diagnostic services, including providing an appropriate history.</p> <p>1.24 Use basic imaging equipment and carry out an examination effectively as appropriate to the case, in accordance with good health and safety practice and current regulations. Understand the contribution of digital tools and artificial intelligence in veterinary medicine.</p> <p>1.25 Recognize signs of possible notifiable, reportable and zoonotic diseases as well as abuse and take appropriate action, including notifying the relevant authorities.</p> <p>1.26 Access the appropriate sources of data on information and legislation relating to animal care and welfare, animal movement, notifiable and reportable diseases, use of medicines, including responsible use of antimicrobials.</p> <p>1.27 Prescribe and dispense medicines correctly and responsibly in accordance with legislation and latest guidance.</p> <p>1.31 Safely perform sedation, and general and regional anaesthesia; implement chemical methods of restraint.</p> <p>1.32 Prevent, assess and manage pain.</p>	<p>3.1.1; 3.1.2; 3.1.11; 3.1.13, 3.3.1 3.3.2; 3.3.3</p> <p>3.1.4; 3.2.4</p> <p>2.3</p> <p>1.1.10; 3.2.3</p> <p>3.1.14; 3.4.2; 3.4.5</p> <p>1.1.1; 1.1.4; 3.4.3; 3.4.4</p> <p>3.1.10</p> <p>3.2.6</p> <p>3.2.6</p>
Diagnostic pathology	<p>Propedêutica Médica I, II</p> <p>Anatomia Patológica I, II</p> <p>Imagiologia</p> <p>Diagnóstico por Imagem</p>	<p>1.10 Understand and apply principles of One Health to ensure veterinary Good Clinical Practice, and research-based and evidence-based veterinary medicine.</p> <p>1.22 Collect, preserve and transport samples, select appropriate diagnostic tests, interpret and understand the limitations of the test results.</p> <p>1.23 Communicate clearly and collaborate with referral and diagnostic services, including providing an appropriate history.</p>	<p>1.1.2; 1.1.3</p> <p>3.1.4; 3.2.4; 3.3.5</p> <p>2.3</p>

		1.34 Perform necropsy in all common animal species, including sampling, dispatching and reporting	3.2.8
Medicine	Propedêutica Médica I, II Medicina I, II Medicina das Populações Atividades Hospitalares III, IV	<p>1.10 Understand and apply principles of One Health to ensure veterinary Good Clinical Practice, and research-based and evidence-based veterinary medicine.</p> <p>1.16 Obtain an accurate and relevant history of the individual animal or animal group, and its/their husbandry and environment.</p> <p>1.18 Perform a complete clinical examination and demonstrate ability in clinical decision-making.</p> <p>1.19 Develop appropriate treatment plans and administer treatment in the interests of the animals under their care with regard to the resources available and to appropriate public health and environmental considerations.</p> <p>1.22 Collect, preserve and transport samples, select appropriate diagnostic tests, interpret and understand the limitations of the test results.</p> <p>1.23 Communicate clearly and collaborate with referral and diagnostic services, including providing an appropriate history.</p> <p>1.24 Use basic imaging equipment and carry out an examination effectively as appropriate to the case, in accordance with good health and safety practice and current regulations. Understand the contribution of digital tools and artificial intelligence in veterinary medicine.</p> <p>1.27 Prescribe and dispense medicines correctly and responsibly in accordance with legislation and latest guidance.</p> <p>1.32 Prevent, assess and manage pain.</p>	<p>1.1.2; 1.1.3</p> <p>3.1.3</p> <p>3.1.4; 3.1.5; 3.1.7; 3.1.8; 3.1.9; 3.2.2</p> <p>3.1.6; 3.1.7; 3.1.8</p> <p>3.1.4; 3.2.4; 3.3.5</p> <p>2.3</p> <p>1.1.7; 1.1.10; 3.1.4; 3.2.2; 3.2.3; 3.1.12</p> <p>3.1.10</p> <p>3.2.6</p>
Surgery	Patologia e Clínica Cirúrgica I, II Semiologia Cirúrgica e Técnica Operatória	<p>1.7 Prepare accurate clinical and client records, and case reports when necessary, in a form satisfactory to the relevant audiences.</p> <p>1.8 Work effectively as a member of a multidisciplinary team in the delivery of services and recognize the contribution of all team members.</p>	<p>1.1.5</p> <p>2.2; 2.4; 2.5</p>

		<p>1.10 Understand and apply principles of One Health to ensure veterinary Good Clinical Practice, and research-based and evidence-based veterinary medicine.</p> <p>1.16 Obtain an accurate and relevant history of the individual animal or animal group, and its/their husbandry and environment.</p> <p>1.20 Attend in an emergency and perform first aid in common animal species*. Prioritize situational urgency and allocate resources accordingly.</p> <p>1.24 Use basic imaging equipment and carry out an examination effectively as appropriate to the case, in accordance with good health and safety practice and current regulations. Understand the contribution of digital tools and artificial intelligence in veterinary medicine.</p> <p>1.30 Perform aseptic procedures appropriately.</p> <p>1.31 Safely perform sedation, and general and regional anaesthesia; implement chemical methods of restraint.</p> <p>1.32 Prevent, assess and manage pain.</p>	<p>1.1.2; 1.1.3</p> <p>3.1.3</p> <p>3.1.5; 3.2.5</p> <p>1.1.7; 1.1.10; 3.1.4; 3.2.2; 3.2.3; 3.1.12</p> <p>3.2.7</p> <p>3.2.6</p> <p>3.2.6</p>
Anesthesiology and analgesia	Anestesiologia e Analgesia	<p>1.31 Safely perform sedation, and general and regional anaesthesia; implement chemical methods of restraint.</p> <p>1.32 Prevent, assess and manage pain.</p>	<p>3.2.6</p> <p>3.2.6</p>
Clinical practical training in common animal species*	<p>Clínica das Espécies Pecuárias I, II</p> <p>Clínica de Equídeos I, II</p> <p>Clínica dos Animais de Companhia I, II</p> <p>Patologia e Clínica das Doenças Infecciosas I, II</p> <p>Atividades Hospitalares I, II, III, IV, V, VI</p>	<p>1.1 Act in a way that shows understanding of the ethical and legal framework within which veterinarians should work, including professional-, animal welfare-, client-, public health-, societal- and environmental-related aspects.</p> <p>1.3 Demonstrate a basic knowledge of the organization, management and legislation related to veterinary practice. Understand the economic and emotional context in which the veterinarian operates.</p> <p>1.5 Communicate effectively with clients, the public, professional colleagues and responsible authorities, using language appropriate to the audience concerned and in full respect of confidentiality and privacy.</p>	<p>1.1.1; 1.1.9</p> <p>1.1.1; 1.1.8; 1.2.1; 1.2.3</p> <p>2.1; 2.5; 2.6</p>

1.7 Prepare accurate clinical and client records, and case reports when necessary, in a form satisfactory to the relevant audiences.	1.1.5
1.8 Work effectively as a member of a multidisciplinary team in the delivery of services and recognize the contribution of all team members.	2.2; 2.4; 2.5
1.10 Understand and apply principles of One Health to ensure veterinary Good Clinical Practice, and research-based and evidence-based veterinary medicine.	1.1.2; 1.1.3
1.11 Demonstrate ability to critically analyze evidence, cope with incomplete information, deal with contingencies, and adapt knowledge and skills to varied scenarios and contexts.	1.2.3
1.12 Use of professional capabilities to contribute to the advancement of veterinary knowledge and the One Health concept, in order to promote the health, safety and welfare of animals, people and the environment, as well as the United Nations Sustainable Development Goals.	1.1.2; 1.1.6
1.13 Demonstrate the ability to recognize personal and professional limits, and know how to seek professional advice, assistance and support when necessary.	1.2.2
1.14 Demonstrate a commitment to lifelong learning and to professional development. This includes recording and reflecting on professional experience and taking measures to improve performance and competence.	1.2.4
1.16 Obtain an accurate and relevant history of the individual animal or animal group, and its/their husbandry and environment.	3.1.3
1.17 Handle and restrain animal patients safely and with respect of the animal, and instruct others in helping the veterinarian perform these techniques.	3.2.1
1.18 Perform a complete clinical examination and demonstrate ability in clinical decision-making.	3.1.4; 3.1.5; 3.1.7; 3.1.8; 3.1.9; 3.2.2
1.19 Develop appropriate treatment plans and administer treatment in the interests of the animals under their care with regard to the resources available and to appropriate public health and environmental considerations.	3.1.6; 3.1.7; 3.1.8
1.20 Attend in an emergency and perform first aid in common animal species*. Prioritize situational urgency and allocate resources accordingly.	3.1.5; 3.2.5

		<p>1.22 Collect, preserve and transport samples, select appropriate diagnostic tests, interpret and understand the limitations of the test results.</p> <p>1.23 Communicate clearly and collaborate with referral and diagnostic services, including providing an appropriate history.</p> <p>1.24 Use basic diagnostic equipment and carry out an examination effectively as appropriate to the case, in accordance with good health and safety practice and current regulations. Understand the contribution of digital tools and artificial intelligence in veterinary medicine.</p> <p>1.25 Recognize signs of possible notifiable, reportable and zoonotic diseases as well as abuse and take appropriate action, including notifying the relevant authorities.</p> <p>1.26 Access the appropriate sources of data on information and legislation relating to animal care and welfare, animal movement, notifiable and reportable diseases, use of medicines, including responsible use of antimicrobials.</p> <p>1.27 Prescribe and dispense medicines correctly and responsibly in accordance with legislation and latest guidance.</p> <p>1.30 Perform aseptic procedures appropriately.</p> <p>1.31 Safely perform sedation, and general and regional anaesthesia; implement chemical methods of restraint.</p> <p>1.32 Prevent, assess and manage pain.</p> <p>1.33 Recognize when euthanasia is appropriate and perform it with respect of the animal and its owners, using an appropriate method, with due regard to the safety of those present; advise on ethical and legal disposal of the carcass.</p> <p>1.34 Perform necropsy in all common animal species, including sampling, dispatching and reporting.</p>	<p>3.1.4; 3.2.4; 3.3.5</p> <p>2.3</p> <p>1.1.7; 1.1.10; 3.1.4; 3.2.2; 3.2.3; 3.1.12</p> <p>3.1.14; 3.4.5</p> <p>1.1.1; 1.1.4; 3.4.3</p> <p>3.1.10</p> <p>3.2.7</p> <p>3.2.6</p> <p>3.2.6</p> <p>3.1.9</p> <p>3.2.8</p>
Infectious diseases	<p>Patologia e Clínica das Doenças Infeciosas I, II</p> <p>Atividades Hospitalares I, II, III, IV, V, VI</p>	<p>1.10 Understand and apply principles of One Health to ensure veterinary Good Clinical Practice, and research-based and evidence-based veterinary medicine.</p>	<p>1.1.2; 1.1.3</p>

		<p>1.12 Use of professional capabilities to contribute to the advancement of veterinary knowledge and the One Health concept, in order to promote the health, safety and welfare of animals, people and the environment, as well as the United Nations Sustainable Development Goals.</p> <p>1.19 Develop appropriate treatment plans and administer treatment in the interests of the animals under their care with regard to the resources available and to appropriate public health and environmental considerations.</p> <p>1.22 Collect, preserve and transport samples, select appropriate diagnostic tests, interpret and understand the limitations of the test results.</p> <p>1.23 Communicate clearly and collaborate with referral and diagnostic services, including providing an appropriate history.</p> <p>1.34 Perform necropsy in all common animal species, including sampling, dispatching and reporting.</p> <p>1.38 Advise on, and implement, preventive and eradication programmes appropriate to the species and in line with accepted animal health, welfare and public health standards.</p>	<p>1.1.2; 1.1.6</p> <p>3.1.6; 3.1.7; 3.1.8</p> <p>3.1.4, 3.2.4, 3.3.5</p> <p>2,3</p> <p>3.2.8</p> <p>3.1.13; 3.4.2</p>
Preventive medicine	<p>Epidemiologia</p> <p>Imunologia</p> <p>Patologia e Clínica das Doenças Infecciosas I, II</p> <p>Medicina das Populações</p>	<p>1.1 Act in a way that shows understanding of the ethical and legal framework within which veterinarians should work, including professional-, animal welfare-, client-, public health-, societal- and environmental-related aspects.</p> <p>1.3 Demonstrate a basic knowledge of the organization, management and legislation related to veterinary practice. Understand the economic and emotional context in which the veterinarian operates.</p> <p>1.10 Demonstrate a basic knowledge of the organization, management and legislation related to veterinary practice. Understand the economic and emotional context in which the veterinarian operates.</p> <p>1.12 Use of professional capabilities to contribute to the advancement of veterinary knowledge and the One Health concept, in order to promote the health, safety and welfare of animals, people and the environment, as well as the United Nations Sustainable Development Goals.</p> <p>1.38 Advise on, and implement, preventive and eradication programs appropriate to the species and in line with accepted animal health, welfare and public health standards.</p>	<p>1.1.1; 1.1.9</p> <p>1.1.1; 1.1.8; 1.2.1; 1.2.3</p> <p>1.1.2; 1.1.3</p> <p>1.1.2; 1.1.6</p> <p>3.1.13; 3.4.2</p>

Diagnostic imaging	<p>Imagiologia Medicina I, II Reprodução e Obstetrícia I, II Diagnóstico por Imagem Clínica das Espécies Pecuárias e Medicina das Populações Clínica de Equídeos I, II Clínica dos Animais de Companhia I, II</p>	<p>1.10 Understand and apply principles of One Health to ensure veterinary Good Clinical Practice, and research-based and evidence-based veterinary medicine.</p> <p>1.24 Use basic diagnostic equipment and carry out an examination effectively as appropriate to the case, in accordance with good health and safety practice and current regulations. Understand the contribution of digital tools and artificial intelligence in veterinary medicine</p>	<p>1.1.2; 1.1.3</p> <p>1.1.7; 1.1.10; 3.1.4; 3.2.2; 3.2.3; 3.1.12</p>
Therapy in common animal species	<p>Farmacologia e Terapêutica I, II Imunologia Medicina I, II Reprodução e Obstetrícia I, II Patologia e Clínica das Doenças Infecciosas I, II Clínica das Espécies Pecuárias I, II Medicina das Populações Clínica de Equídeos I, II Clínica dos Animais de Companhia I, II</p>	<p>1.1 Act in a way that shows understanding of the ethical and legal framework within which veterinarians should work, including professional-, animal welfare-, client-, public health-, societal- and environmental-related aspects.</p> <p>1.3 Demonstrate a basic knowledge of the organization, management and legislation related to veterinary practice. Understand the economic and emotional context in which the veterinarian operates.</p> <p>1.10 Understand and apply principles of One Health to ensure veterinary Good Clinical Practice, and research-based and evidence-based veterinary medicine.</p> <p>1.12 Use of professional capabilities to contribute to the advancement of veterinary knowledge and the One Health concept, in order to promote the health, safety and welfare of animals, people and the environment, as well as the United Nations Sustainable Development Goals.</p> <p>1.19 Develop appropriate treatment plans and administer treatment in the interests of the animals under their care with regard to the resources available and to appropriate public health and environmental considerations.</p> <p>1.27 Prescribe and dispense medicines correctly and responsibly in accordance with legislation and latest guidance.</p> <p>1.28 Report suspected adverse reactions through the appropriate channel.</p> <p>1.31 Safely perform sedation, and general and regional anaesthesia; implement chemical methods of restraint.</p> <p>1.32 Prevent, assess and manage pain.</p>	<p>1.1.1; 1.1.9</p> <p>1.1.1; 1.1.8; 1.2.1; 1.2.3</p> <p>1.1.2; 1.1.3</p> <p>1.1.2; 1.1.6</p> <p>3.1.6; 3.1.7; 3.1.8</p> <p>3.1.10</p> <p>3.1.10</p> <p>3.2.6</p> <p>3.2.6</p>

Clinical Sciences in food-producing animals (including Animal Production and Herd Health Management)

<p>Animal Production, including breeding, husbandry and economics</p>	<p>Zootecnia Geral Biologia Vegetal, Agricultura e ambiente Comportamento e Bem-Estar Animal Genética Melhoramento Animal Economia e Gestão Produção Animal I, II Reprodução e Obstetrícia I, II Clínica das Espécies Pecuárias I, II Medicina das Populações</p>	<p>1.1 Act in a way that shows understanding of the ethical and legal framework within which veterinarians should work, including professional-, animal welfare-, client-, public health-, societal- and environmental-related aspects.</p> <p>1.3 Demonstrate a basic knowledge of the organization, management and legislation related to veterinary practice. Understand the economic and emotional context in which the veterinarian operates.</p> <p>1.8 Work effectively as a member of a multidisciplinary team in the delivery of services and recognize the contribution of all team members.</p> <p>1.21 Assess the physical condition, welfare and nutritional status of an animal or group of animals and advise the client on principles of husbandry, feeding, reproduction, production, welfare, individual health, herd health and public health.</p>	<p>1.1.1; 1.1.9</p> <p>1.1.1; 1.1.8; 1.2.1; 1.2.3</p> <p>2.2; 2.4; 2.5</p> <p>3.1.1; 3.1.2; 3.1.11; 3.1.13, 3.3.1; 3.3.2; 3.3.3; 3.3.4; 3.3.7; 3.4.6</p>
<p>Herd health management</p>	<p>Produção Animal I, II Alimentação Epidemiologia Patologia das doenças Infecciosas I, II Reprodução e Obstetrícia I, II Clínica das Espécies Pecuárias I, II Medicina das Populações</p>	<p>1.1 Act in a way that shows understanding of the ethical and legal framework within which veterinarians should work, including professional-, animal welfare-, client-, public health-, societal- and environmental-related aspects.</p> <p>1.3 Demonstrate a basic knowledge of the organization, management and legislation related to veterinary practice. Understand the economic and emotional context in which the veterinarian operates.</p> <p>1.8 Work effectively as a member of a multidisciplinary team in the delivery of services and recognize the contribution of all team members.</p> <p>1.10 Understand and apply principles of One Health to ensure veterinary Good Clinical Practice, and research-based and evidence-based veterinary medicine.</p> <p>1.12 Use of professional capabilities to contribute to the advancement of veterinary knowledge and the One Health concept, in order to promote the health, safety and welfare of animals, people and the environment, as well as the United Nations Sustainable Development Goals.</p> <p>1.16 Obtain an accurate and relevant history of the individual animal or animal group, and its/their husbandry and environment.</p>	<p>1.1.1; 1.1.9</p> <p>1.1.1; 1.1.8; 1.2.1; 1.2.3</p> <p>2.2; 2.4; 2.5</p> <p>1.1.2; 1.1.3</p> <p>1.1.2; 1.1.6</p> <p>3.1.3</p>

	<p>1.21 Assess the physical condition, welfare and nutritional status of an animal or group of animals and advise the client on principles of husbandry, feeding, reproduction, production, welfare, individual health, herd health and public health.</p> <p>1.25 Recognize signs of possible notifiable, reportable and zoonotic diseases as well as abuse of animals and take appropriate action, including notifying the relevant authorities.</p> <p>1.29 Recommend and evaluate protocols for biosecurity, and apply these principles correctly.</p> <p>1.34 Perform necropsy in all common animal species, including sampling, dispatching and reporting</p> <p>1.38 Advise on, and implement, preventive and eradication programs appropriate to the species and in line with accepted animal health, welfare and public health standards.</p>	<p>3.1.1; 3.1.2; 3.1.11; 3.1.13, 3.3.1; 3.3.2; 3.3.3; 3.3.4; 3.3.7; 3.4.6</p> <p>3.1.14; 3.4.1; 3.4.2; 3.4.5</p> <p>1.1.2; 1.1.7; 1.1.8; 3.1.12; 3.4.9</p> <p>3.2.8</p> <p>3.1.13; 3.4.2</p>
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Veterinary Public Health (including Food Safety and Quality)

<p>Veterinary legislation including official controls and regulatory veterinary services, forensic veterinary medicine and certification</p>	<p>Produção Animal I, II Zootecnia Geral Epidemiologia Patologia e Clínica das Doenças Infeciosas I, II Inspeção Sanitária I, II Saúde Pública Veterinária Toxicologia Tecnologia dos Produtos Animais Higiene e Segurança Alimentar</p>	<p>1.1 Act in a way that shows understanding of the ethical and legal framework within which veterinarians should work, including professional-, animal welfare-, client-, public health-, societal- and environmental-related aspects.</p> <p>1.3 Demonstrate a basic knowledge of the organization, management and legislation related to veterinary practice. Understand the economic and emotional context in which the veterinarian operates.</p> <p>1.12 Use of professional capabilities to contribute to the advancement of veterinary knowledge and the One Health concept, in order to promote the health, safety and welfare of animals, people and the environment, as well as the United Nations Sustainable Development Goals.</p> <p>1.25 Recognize signs of possible notifiable, reportable and zoonotic diseases as well as abuse of animals and take appropriate action, including notifying the relevant authorities.</p> <p>1.29 Recommend and evaluate protocols for biosecurity, and apply these principles correctly.</p>	<p>1.1.1; 1.1.9</p> <p>1.1.1; 1.1.8; 1.2.1; 1.2.3</p> <p>1.1.2; 1.1.6</p> <p>3.1.14</p> <p>1.1.2; 1.1.7; 1.1.8; 3.1.12; 3.4.9;</p>
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Control of food, feed and animal by-products	<p>Biologia Vegetal, Agricultura e Ambiente Nutrição Alimentação Inspeção Sanitária Saúde Pública Veterinária Tecnologia Geral Tecnologia dos Produtos Animais Higiene e Segurança Alimentar</p>	<p>1.1 Act in a way that shows understanding of the ethical and legal framework within which veterinarians should work, including professional-, animal welfare-, client-, public health-, societal- and environmental-related aspects.</p> <p>1.8 Work effectively as a member of a multidisciplinary team in the delivery of services and recognize the contribution of all team members.</p> <p>1.10 Use of professional capabilities to contribute to the advancement of veterinary knowledge and the One Health concept, in order to promote the health, safety and welfare of animals, people and the environment, as well as the United Nations Sustainable Development Goals.</p> <p>1.29 Recommend and evaluate protocols for biosecurity, and apply these principles correctly.</p> <p>1.35 Perform ante-mortem inspection of food-producing animals including paying attention to welfare aspects, systematic gross post-mortem examination, record observations, sample tissues, store and transport them.</p> <p>1.36 Perform inspection of food and feed to correctly identify conditions affecting the quality and safety of products of animal origin, including related food technology.</p> <p>1.37 Protect public health by identifying conditions that are directly or indirectly related to animals, their products and by-products, when they contribute to the protection, conservation and improvement of human health.</p>	<p>1.1.1; 1.1.9</p> <p>2.2; 2.4; 2.5</p> <p>1.1.2; 1.1.3</p> <p>1.1.2; 1.1.7; 1.1.8; 3.1.12; 3.4.9</p> <p>3.4.7; 3.4.8; 3.4.9; 3.4.10</p> <p>3.4.7; 3.4.10; 3.4.11; 3.4.12</p> <p>3.4.7; 3.4.8; 3.4.9; 3.4.10; 3.4.11; 3.4.12</p>
Zoonoses	<p>Anatomia Patológica I, II Inspeção Sanitária I, II Saúde Pública Veterinária Tecnologia dos Produtos Animais</p>	<p>1.1 Act in a way that shows understanding of the ethical and legal framework within which veterinarians should work, including professional-, animal welfare-, client-, public health-, societal- and environmental-related aspects</p>	<p>1.1.1; 1.1.9</p>

	<p>Patologia e Clínica das Doenças Infeciosas I, II Parasitologia I, II Microbiologia II Patologia e Clínica das Doenças Parasitárias</p>	<p>1.10 Understand and apply principles of One Health to ensure veterinary Good Clinical Practice, and research-based and evidence-based veterinary medicine. 1.1.2; 1.1.3</p> <p>1.12 Use of professional capabilities to contribute to the advancement of veterinary knowledge and the One Health concept, in order to promote the health, safety and welfare of animals 1.1.2; 1.1.6</p> <p>1.25 Recognize signs of possible notifiable, reportable and zoonotic diseases as well as abuse of animals and take appropriate action, including notifying the relevant authorities. 3.1.14; 3.4.1; 3.4.2; 3.4.5</p> <p>1.29 Recommend and evaluate protocols for biosecurity, and apply these principles correctly. 1.1.2; 1.1.7; 1.1.8; 3.1.12; 3.4.9</p> <p>1.36 Perform inspection of food and feed to correctly identify conditions affecting the quality and safety of products of animal origin, including related food technology. 3.4.7; 3.4.10; 3.4.11; 3.4.12</p> <p>1.37 Protect public health by identifying conditions that are directly or indirectly related to animals, their products and by-products, when they contribute to the protection, conservation and improvement of human health. 3.4.7; 3.4.8; 3.4.9; 3.4.10; 3.4.11; 3.4.12</p> <p>1.38 Advise on and implement preventive and eradication programs appropriate to the disease and species, in line with accepted animal health, animal welfare, public health and environmental health standards. 3.1.13; 3.4.2</p>
<p>Food hygiene and environmental health</p>	<p>Biologia Vegetal, Agricultura e Ambiente Higiene e Segurança Alimentar Tecnologia Geral Tecnologia dos Produtos Animais Saúde Pública Veterinária Toxicologia</p>	<p>1.1 Act in a way that shows understanding of the ethical and legal framework within which veterinarians should work, including professional-, animal welfare-, client-, public health-, societal- and environmental-related aspects. 1.1.1; 1.1.9</p> <p>1.29 Recommend and evaluate protocols for biosecurity, and apply these principles correctly. 1.1.2; 1.1.7; 1.1.8; 3.1.12; 3.4.9</p> <p>1.35 Perform ante-mortem inspection of food-producing animals including paying attention to welfare aspects, systematic gross post-mortem examination, record observations, sample tissues, store and transport them. 3.4.7; 3.4.8; 3.4.9; 3.4.10</p> <p>1.36 Perform inspection of food and feed to correctly identify conditions affecting the quality and safety of products of animal origin, including related food technology. 3.4.7; 3.4.10; 3.4.11; 3.4.12</p>

		1.37 Protect public health by identifying conditions that are directly or indirectly related to animals, their products and by-products, when they contribute to the protection, conservation and improvement of human health.	3.4.7; 3.4.8; 3.4.9; 3.4.10; 3.4.11; 3.4.12
Basic food technology	Tecnologia Geral Tecnologia dos Produtos Animais	<p>1.1 Act in a way that shows understanding of the ethical and legal framework within which veterinarians should work, including professional-, animal welfare-, client-, public health-, societal- and environmental-related aspects.</p> <p>1.8 Work effectively as a member of a multidisciplinary team in the delivery of services and recognize the contribution of all team members.</p> <p>1.29 Recommend and evaluate protocols for biosecurity, and apply these principles correctly</p> <p>1.36 Perform inspection of food and feed to correctly identify conditions affecting the quality and safety of products of animal origin, including related food technology.</p> <p>1.37 Protect public health by identifying conditions that are directly or indirectly related to animals, their products and by-products, when they contribute to the protection, conservation and improvement of human health.</p>	<p>1.1.1; 1.1.9</p> <p>2.2; 2.4; 2.5</p> <p>1.1.2; 1.1.7; 1.1.8; 3.1.12; 3.4.9</p> <p>3.4.7; 3.4.10; 3.4.11; 3.4.12</p> <p>3.4.7; 3.4.8; 3.4.9; 3.4.10; 3.4.11 3.4.12</p>