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**UNIVERSITÄT
BERN**

Universität Bern | Universität Zürich

vetsuisse-fakultät

Frühling 2021

Jahresbericht 2020

Departement für klinische Veterinärmedizin







Vorwort des Direktors



Geschätzte Freunde des Tierspitals Bern

Der Jahresbericht 2020 des Departementes für klinische Veterinärmedizin DKV steht unter dem Motto «Fakten und Zahlen». Sie können diese auf den nachfolgenden Seiten des Berichtes Punkt für Punkt nachverfolgen. Es wurde in allen zentralen Aufgabenbereichen des DKV sehr viel geleistet:

- Ausbildung von Studierenden der Veterinärmedizin und von Lernenden Tierärztliche Praxisassistenten, Tierpflegenden und Kaufleuten
- Organisation von Fortbildungsveranstaltungen für praktizierende Tierärztinnen und Tierärzte
- Spezialisierung von jungen Tierärztinnen und Tierärzten im Rahmen von nationalen und europäischen Spezialisierungsprogrammen
- Behandlung von kranken Hunden, Katzen, Pferden, Rindern, Schweinen und Patienten vieler anderer Tierarten und integrierte tierärztliche Betreuung ITB von Rinderhaltenden Betrieben zur Gesunderhaltung der Herden
- International anerkannte und nachhaltige Forschung in den Bereichen Tiergesundheit, Tierwohl, Infektionskrankheiten und One Health

Das Jahr 2020 war für das DKV und damit das «Tierspital Bern» wiederum ein sehr erfolgreiches Jahr. Und dies trotz der «nicht ganz einfachen Umstände», welche die Pandemie im abgelaufenen Jahr mit sich gebracht hat;

erschwerter Kontakt mit Studierenden und Tierhaltenden, Minimierung der persönlichen Kontakte innerhalb der Arbeitsgruppen und vollständige Umstellung auf digitale Kommunikation bei Aus-, Fort- und Weiterbildungen.

Trotz dieser widrigen Umstände blieben und bleiben wir als DKV nicht stehen. Ab Herbstsemester 2021 werden die ersten Kohorten von Studierenden der Veterinärmedizin ins neu gestaltete Curriculum 21+ eintreten, gleichzeitig im Bachelor- und im Masterstudiengang. Die praktische Ausbildung wird dabei weiter ausgebaut und die Populationsmedizin wird einen noch wichtigeren Stellenwert erhalten. Wir hoffen sehr, dass die Pandemiesituation wieder vermehrt direkte zwischenmenschliche Kontakte erlauben wird, was die Umsetzung der beschriebenen Aufgaben massiv erleichtern würde.

Es ist mir ein wichtiges Anliegen, mich an dieser Stelle bei allen Mitarbeitenden des DKV für ihre Leistungen und Sondereinsätze auch nachts und an Feiertagen und Wochenenden herzlich zu bedanken. Nur dank des Einsatzes des ganzen Teams des DKV konnten all diese Leistungen erbracht werden!

Adrian Steiner

Prof. Dr. med. vet. Adrian Steiner
Direktor DKV, Universität Bern

Lehre

Studentische Ausbildung

2020

Anzahl Vorlesungen Total in Stunden

765

Kleintierklinik

190

Pferdeklinik

153

Wiederkäuerklinik

231

Schweineklinik

62

Übertierartliche Abteilungen

Klinische Radiologie

42

Klinische Anästhesie

51

Klinische Neurologie

26

Klinisches Zentrallabor

19

Klinische Dermatologie

21

Anzahl Praktika Total in Stunden

103

Kleintierklinik

11

Pferdeklinik

27

Wiederkäuerklinik

30

Schweineklinik

11

Übertierartliche Abteilungen

Klinische Radiologie

15

Klinische Anästhesie

15

Klinische Neurologie

7

Klinisches Zentrallabor

1

Klinische Dermatologie

2

Betreuung der Blockstudierenden

2019

2020

Anzahl Blockstudierende nach Schwerpunktwahl im DKV

71

71

Kleintierklinik

35

29

Pferdeklinik

12

17

Nutztierklinik

24

25



Betreuung von Masterstudierenden**2019****2020****Anzahl abgeschlossene Masterarbeiten Total****20****26**

Kleintierklinik

8

9

Pferdeklinik

4

6

Wiederkäuerklinik

5

7

Schweineklinik

2

-

Übertierartliche Abteilungen

Klinische Radiologie

2

5

Klinische Neurologie

3

1

Betreuung von Doktorierenden**Anzahl abgeschlossene Dissertationen Total****22****29**

Kleintierklinik

7

8

Pferdeklinik

-

4

Wiederkäuerklinik

11

4

Schweineklinik

-

2

Übertierartliche Abteilungen

Klinische Radiologie

-

8

Klinische Anästhesie

2

3

Klinische Neurologie

1

-

Klinische Dermatologie

1

-



Vorträge und Fortbildungsveranstaltungen**2019****2020****Anzahl Vorträge und Fortbildungsveranstaltungen im Haus**

Kleintierklinik	47	39
Pferdeklinik	19	3
Wiederkäuerklinik	21	2
Schweineklinik	12	-
Übertierartliche Abteilungen		
Klinische Radiologie	16	6
Klinische Anästhesie	5	2
Klinische Neurologie	8	11
Klinisches Zentrallabor	4	3

Anzahl Vorträge und Fortbildungsveranstaltungen ausser Haus

Kleintierklinik	102	61
Pferdeklinik	41	11
Wiederkäuerklinik	68	62
Schweineklinik	5	18
Übertierartliche Abteilungen		
Klinische Radiologie	3	10
Klinische Anästhesie	16	3
Klinische Neurologie	24	9
Klinisches Zentrallabor	1	-
Klinische Dermatologie	3	-



Weiterbildungs- und Forschungsprogramme

Weiterbildungs- und Forschungsprogramme

Anzahl Stellen
2019

Anzahl Stellen
2020

Kleintierklinik

Habilitationen

-

1

Internships (2-jährig)

12

12

Speciality Internships

4

4

American College of Veterinary Internal Medicine (ACVIM-CA)

3

3

European College of Veterinary Surgery (ECVS)

3

3

American College of Veterinary Emergency and Critical Care (ACVECC)

1

2

Pferdeklinik

Habilitationen

1

1

Internships

4

5

Fachtierarzt FVH für Pferde

-

4

European College of Equine Internal Medicine (ECEIM)

1

1

European College of Veterinary Surgeons (ECVS)

1

1

Wiederkäuerklinik

Habilitationen

-

1

Internships

1

1

Fachtierarzt FVH für Wiederkäuer

-

5

European College of Bovine Health Management (ECBHM)

1

2

Schweineklinik

Habilitationen

-

1

European College of Porcine Health Management (ECPHM)

1

1

übertierartliche Abteilungen

Habilitationen

-

2

Speciality Internships

1

3

European College of Veterinary Anaesthesia and Analgesia (ECVAA)

2

2

European College of Veterinary Diagnostic Imaging (ECVDI)

1

3

European College of Veterinary Neurology (ECVN)

1

2

Berufsausbildungen

	2019	2020
Tiermedizinische PraxisassistentInnen in Ausbildung	13	16
Nutztierklinik	2	3
Kleintierklinik	9	10
Pferdeklinik	2	3
TierpflegerInnen in Ausbildung	5	4
Nutztierklinik	2	2
Pferdeklinik	3	2
Kaufm. Angestellte in Ausbildung	5	5
Berufsmaturitäts-PraktikantInnen	1	1



Abschlüsse / Preise

Anzahl abgeschlossene Weiterbildungs- und Forschungsprogramme	2019	2020
Kleintierklinik		
PhD	1	-
European College of Veterinary Surgeons (ECVS)	2	-
American College of Veterinary Emergency Critical Care (ACVECC)	1	-
Pferdeklinik		
Habilitation	1	1
PhD	-	3
Fachtierarzt (FVH)	-	2
European College of Veterinary Surgeons (ECVS)	1	-
European College of Equine Internal Medicine (ECEIM)	1	-
Wiederkäuerklinik		
PhD	-	3
FVH-Prüfung	1	3
European College of Bovine Health Management (ECBHM)	1	1
Certificate of Advanced Studies (CAS Hochschullehre)	-	1
Klinische Radiologie		
PhD	1	-
European College of Veterinary Diagnostic Imaging (ECVDI)	1	1
Klinische Anästhesie		
European College of Veterinary Anaesthesia and Analgesia (ECVAA)	2	-
Klinische Neurologie		
European College of Veterinary Neurology (ECVN)	-	1
Klinische Dermatologie		
PhD	1	-



Preise

Best oral presentation award Annual Meeting of the ECVDI: Bénédicte Amphimaque

3. Preis für den Vortrag am DVG Vet-Congress 2020 in Berlin: Bastien Planchamp

Anerkennung guter Leistungen in der Lehre Universität Bern: Alexander Grahofer

Best Practice Preis Berner Sozialstern: Christine Theilkäs

Forschungspreis der bpt Fachgruppe Schwein: Alexander Grahofer

Abschlüsse im 2020

Folgende Mitarbeitende haben ihre Weiterbildungs- und Forschungsprogramme erfolgreich abgeschlossen:

Habilitation: C. Koch

PhD: E. Jeanneret, F. Sauer, L. Unger, J. Bernhard, J. Becker, M. Gerber

FVH-Prüfung: M. De Preux, S. Gunst, I. Rüfli, M. Butty, D. Rediger

ECBHM: E. Studer

ECVDI: M. Moioli

CAS Hochschullehre: J. Bernhard

Folgende Lernende haben ihre Ausbildung erfolgreich abgeschlossen:

Tiermedizinische PraxisassistentInnen EFZ: T. Knutti, L. Aebi

TierpflegerInnen EFZ: S. Zehnder, R. Lüthi

Kauffrau EFZ: J. Gugler, J. Krenger, J. Schneeberger

Herzliche Gratulation zu den bestandenen Prüfungen!



Mitarbeitende per 31.12.2020

Funktion	Anzahl	*FTE
ProfessorInnen	13	10.80
DozentInnen und wissenschaftliche Mitarbeitende	42	21.74
OberassistentInnen und Postdoc	27	18.58
AssistenzärztInnen	85	62.00
Technische Mitarbeitende	113	68.30
(TierpflegerInnen, TPA, Materialverwaltung, LaborantInnen, Fachfrau und Fachmann für Medizinisch-technische Radiologie etc.)		
DoktorandInnen	28	22.07
Verwaltung	31	17.07
Personal in Ausbildung	25	25
(TierpflegerInnen, TPA, KV)		



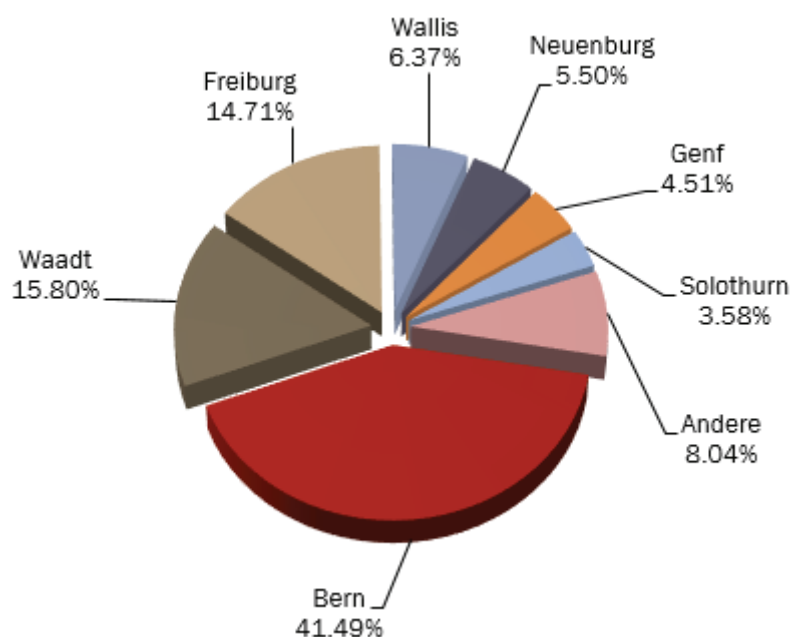
Das DKV in Zahlen

Finanzielles

	in Mio. CHF 2019	in Mio. CHF 2020
Ertrag		
Dienstleistungsertrag	9.6	9.8
Eingeworbene Drittmittel	1.9	2.1
Staatsbeitrag	15.1	15.9
Total Ertrag	26.6	27.8
Sachaufwand		
Universitätsmittel	1.5	1.8
Drittmittel (eingeworbene und aus Dienstleistung)	4.1	3.9
Total Sachaufwand	5.6	5.7
Personalaufwand		
Universitätsmittel	13.9	14.2
Drittmittel (eingeworbene und aus Dienstleistung)	7.1	7.9
Total Personalaufwand	21	22.1
Total Aufwand	26.6	27.8
Deckungsgrad	43.3 %	42.8 %
Investitionen	0.3	0.75

Diagramm DKV

Tierhalter aus der Schweiz



Kleintierklinik

Eingriffe / Therapien / Behandlungen

Anzahl Konsultationen

2019

2020

4'525

4'815

Ausgewählte medizinische Behandlungen

Ophthalmologische Patienten

728

610

Endoskopien

152

234

Hämodialysen

125

125

Transfusionen (Plasma, Vollblut, etc.)

250

240

Chirurgische Eingriffe

Weichteilchirurgie

976

942

Orthopädische Eingriffe

453

449

Neurologische Untersuchungen

1'861

1'902

Anästhesien

Vollnarkosen

1'802

1'739

Lokalanästhesien (Epidural-Leitungsanästhesie)

468

505

Radiologische Untersuchungen

Röntgenbilder (Thorax, Wirbelsäule, Abdomen, Kopf, Becken, etc.)

2'748

2'398

Ultraschall (Thorax, Abdomen, Trächtigkeit, Herz, etc.)

1'920

1'813

Computertomographien

465

501

Magnetresonanztomographien

651

641

Vererbte Skeletterkrankungen (z.B. Hüft- und Ellenbogen-
dysplasien eigene Untersuchungen und Beurteilung
überwiesener Röntgen)

714

642

Laboruntersuchungen

Einzelanalysen; Chemie, Hämatologie, Zytologie, etc.

352'821

376'376

Anzahl Fälle

Kleintiere (Hunde, Katzen)

5'679

6'274

davon Notfallpatienten

2'436

2'192

Pensionstage

Hospitalisations-Tage

11'115

11'740

Intensivpflege-Tage

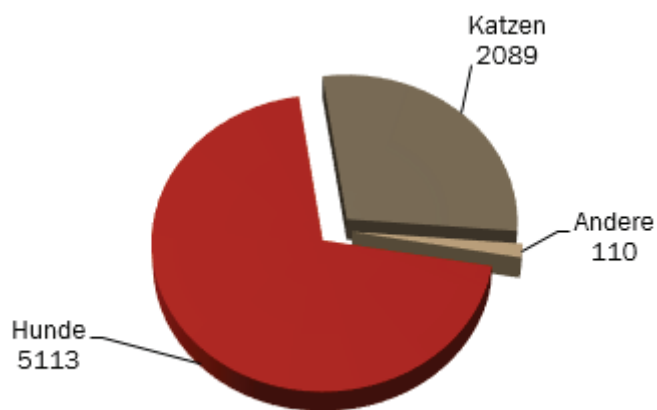
5'311

5'798

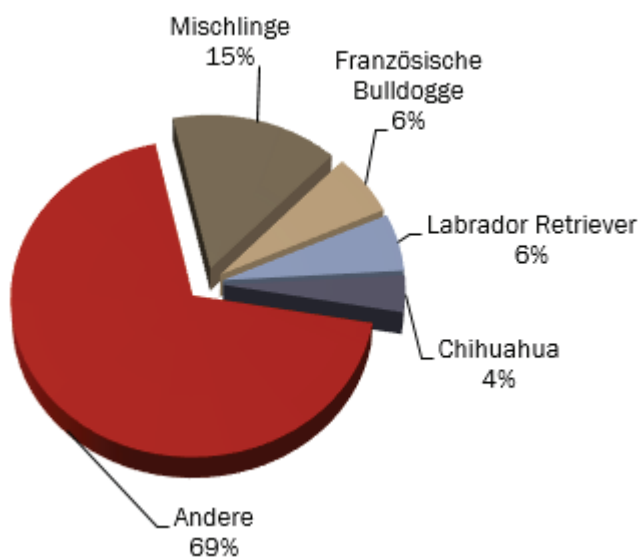




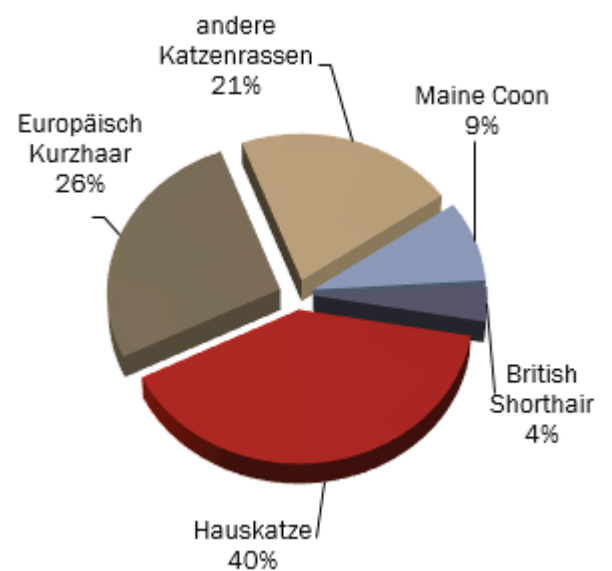
Tierarten Kleintiere



die vier meistbehandelten Hunderassen



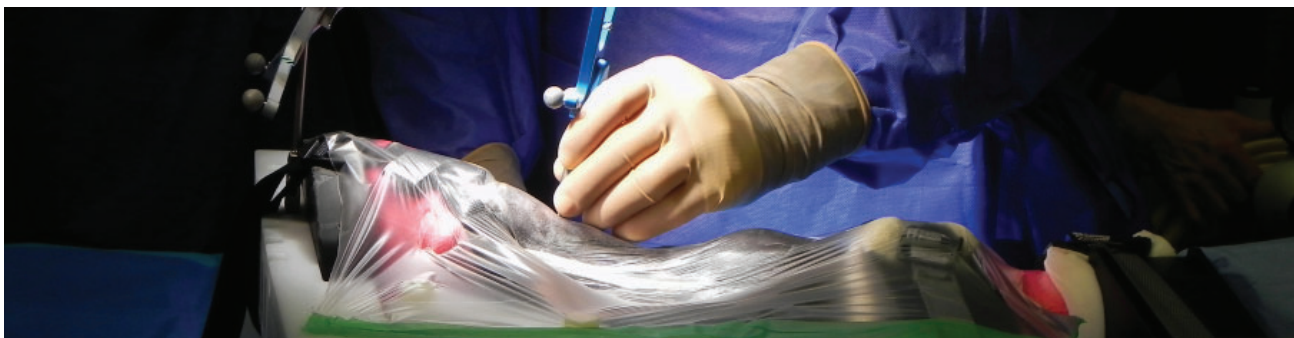
die vier meistbehandelten Katzenrassen



Equiden

Eingriffe / Therapien / Behandlungen ISME Bern

	2019	2020
Anzahl Eintrittsuntersuchungen	768	810
Ausgewählte medizinische Behandlungen		
Koliken	372	329
Augenuntersuchungen und -behandlungen	209	274
Laryngo-Tracheoskopie	104	98
Gastroskopie	108	113
Chirurgische Eingriffe		
Lahmheitsuntersuchungen	121	136
Kastrationen	36	35
Laparotomien	92	66
Zahnärztliche Eingriffe	36	39
Hauttumore	25	42
Laparoskopien	10	11
Operationen im Bereich der oberen Atemwege	35	36
Augenoperationen (inklusive Enukleationen)	16	17
Verletzungen / Wundrevisionen	59	52
Arthroskopien	15	24
Weitere orthopädische Eingriffe (z.B. Frakturversorgung)	36	29
Neurologische Untersuchungen	8	24
Anästhesien		
Vollnarkosen inkl. präoperative Lokalanästhesien und postoperative Betreuungen	354	357
Radiologische Untersuchungen		
Röntgenbilder (Becken, Carpus, Fesselgelenk, Huf, Thorax, Kniegelenk, Schädel, Sprunggelenk, Strahlbein, etc.)	702	809
Ultraschalluntersuchungen	538	528
Magnetresonanztomographien	21	28
Computertomographien / Cone beam Computertomographien	96	130
Laboruntersuchungen		
Einzelanalysen; Chemie, Hämatologie, Zytologie, etc.	65'957	65'662
Anzahl Fälle		
Equiden (Pferde, Ponys, Esel)	1'388	1'492
Pensionstage		
Hospitalisations-Tage	6'527	6'543
Isolations-Tage	194	345



ISME Avenches

Veterinärdienst

Gesamtkonsultationen	1'789	1'149
Lahmheits-Untersuchungen	427	370
Anzahl Pferde auf dem Wasserlaufband (Einheiten)	733	954

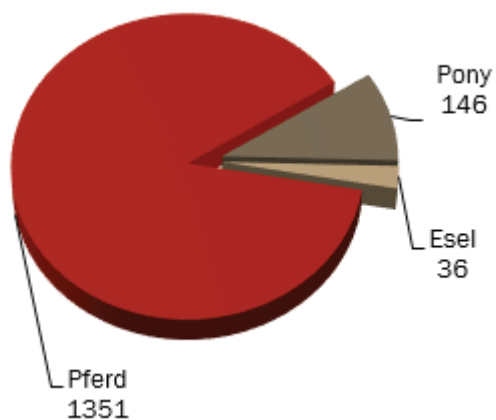
Reproduktion

Besamte Stuten	213	205
Davon für Embryotransfer	24	23
Erwartete Fohlen aus Embryotransfer	12	14
Hengste zur Gefriersamen-Produktion	17	21

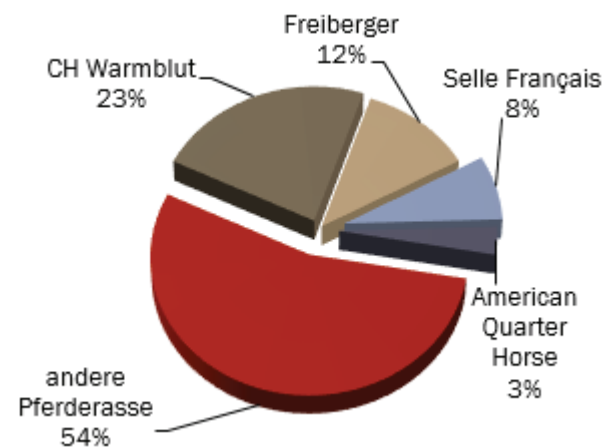
2019

2020

Tierarten Equiden

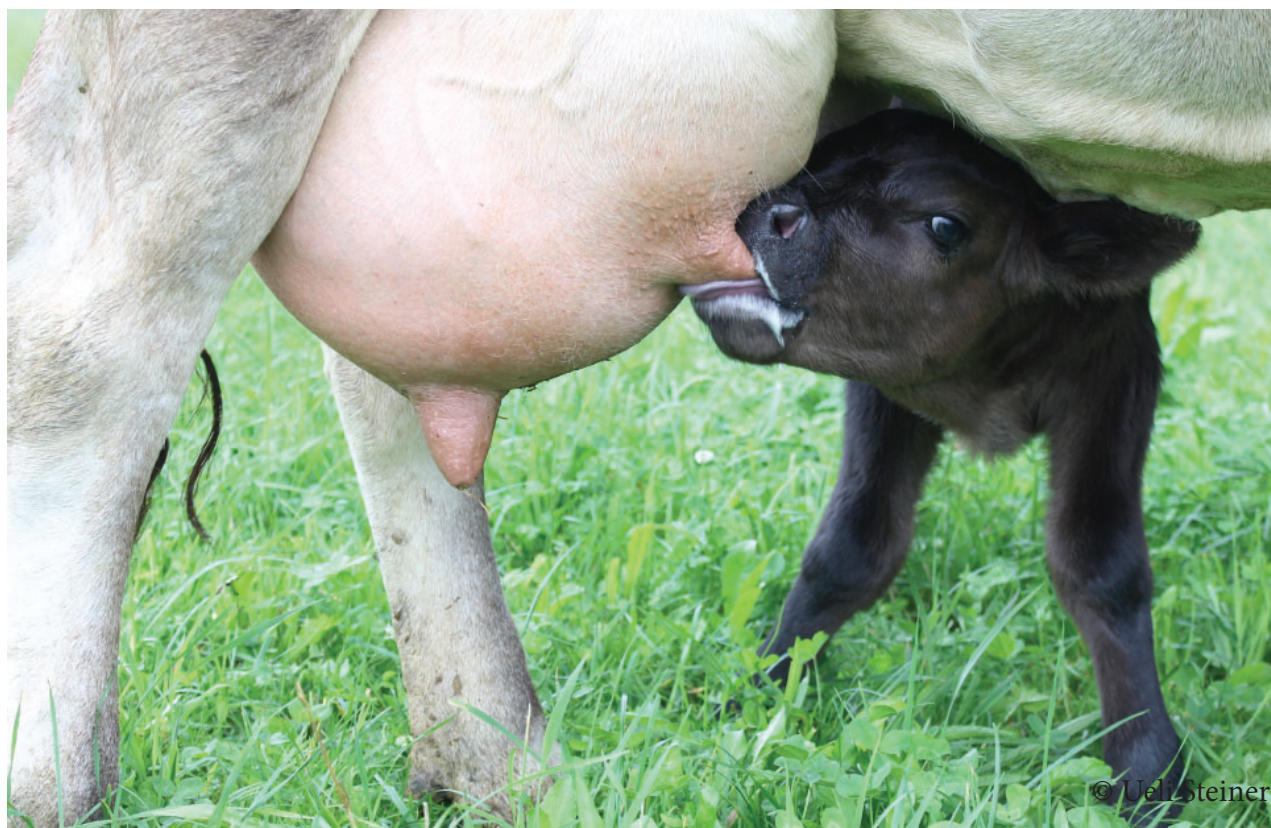


die vier meistbehandelten Pferderassen



Wiederkäuer / Kameliden

Eingriffe / Therapien / Behandlungen	2019	2020
Anzahl Eintrittsuntersuchungen	993	983
Chirurgische Eingriffe	583	584
Bestandesmedizin und -diagnostik		
Bestandesbetreuung (Anzahl Betriebe)	42	42
Bestandesbetreuung (Anzahl Tiere)	1'210	1'035
Diagnostische Untersuchungen RGD (Anzahl Betriebe)	8	10
Diagnostische Untersuchungen WDK (Anzahl Betriebe)	8	10
Radiologische Untersuchungen		
Röntgenbilder (Thorax, Wirbelsäule, Abdomen, Kopf, Becken, etc.)	1'068	847
Ultraschalluntersuchungen stationär	764	426
Computertomographien / Cone beam Computertomographien	7	6
Laboruntersuchungen Wiederkäuer und Schweine		
Einzelanalysen; Chemie, Hämatologie, Urin, Zytologie, etc.	54'357	51'992
Anzahl Fälle		
Wiederkäuer	1'061	1'035
Pensionstage		
Hospitalisations-Tage	7'207	5'709
Isolations-Tage	1'222	1'045



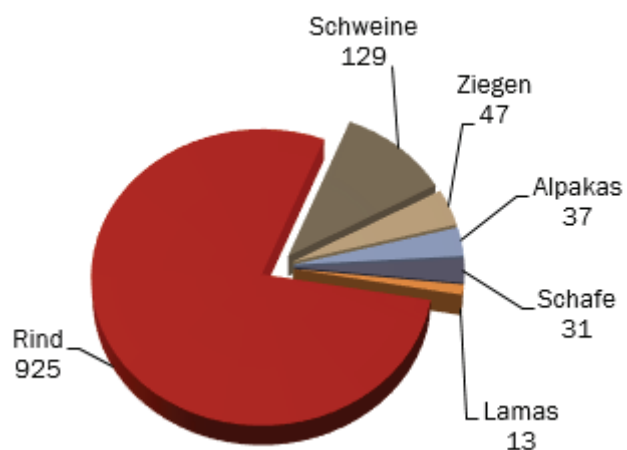
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Schweine

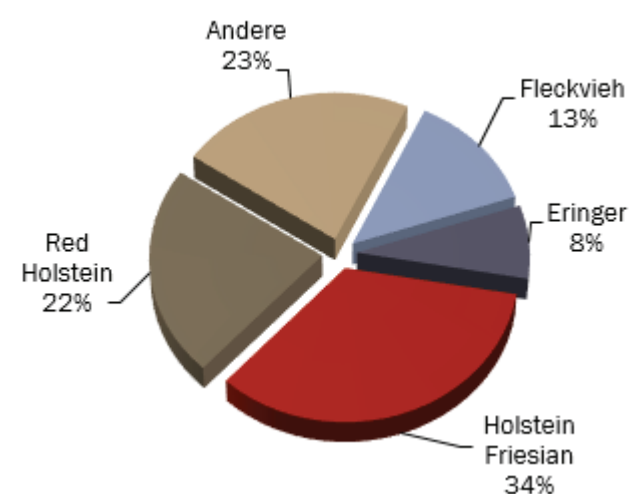
Eingriffe / Therapien / Behandlungen

	2019	2020
Anzahl Eintrittsuntersuchungen	101	63
Chirurgische Eingriffe		
Operationen	11	13
Kastrationen	23	25
Bestandesuntersuchungen	136	134
Radiologische Untersuchungen		
Ultraschalluntersuchungen	22	11
Anzahl Fälle		
Schweine	120	124

Tierarten Nutztiere



die vier meistbehandelten Rinderrassen



Publikationen peer reviewed

Abrams, Brittany; Selmic, Laura; Hettlich, Bianca F.; Wavreille, Vincent (2020). Corrective osteotomy and partial tarsal arthrodesis in two greyhounds with calcaneal malunion. *Veterinary surgery*, 49(8), pp. 1600-1608. Wiley-Blackwell 10.1111/vsu.13517

Adami, Chiara; Spadavecchia, Claudia (2020). Use of nociceptive threshold testing in cats in experimental and clinical settings: a qualitative review. *Veterinary anaesthesia and analgesia*, 47(4), pp. 419-436. Blackwell Science 10.1016/j.vaa.2019.12.009

Amengual-Batle, Pablo; José-López, Roberto; Durand, Alexane; Czopowicz, Michal; Beltran, Elsa; Guevar, Julien; Lazzerini, Kali; De Decker, Steven; Muñana, Karen; Early, Peter; Mariani, Christopher; Olby, Natasha; Petrovitch, Nicholas; Gutierrez-Quintana, Rodrigo (2020). Traumatic skull fractures in dogs and cats: A comparative analysis of neurological and computed tomographic features. *Journal of veterinary internal medicine*, 34(5), pp. 1975-1985. Wiley-Blackwell 10.1111/jvim.15838

Ardüser, Flurin; Moore-Jones, Gaia Alessandra; Gobeli, Stefanie; Dürr, Salome Esther; Steiner, Adrian; Ryser-Degjorgis, Marie-Pierre; Zanolari, Patrik (2020). *Dichelobacter nodosus* in sheep, cattle, goats and South American camelids in Switzerland-Assessing prevalence in potential hosts in order to design targeted disease control measures. *Preventive veterinary medicine*, 178, p. 104688. Elsevier 10.1016/j.prevetmed.2019.05.001

Bannoehr, Jeanette; Balmer, Pierre; Stoffel, Michael H.; Jagannathan, Vidya; Gaschen, Véronique; Kühni, Kathrin; Sayar, Beyza; Drögemüller, Michaela; Howald, Denise; Wiener, Dominique J.; Leeb, Tosso; Welle, Monika M.; Müller, Eliane J.; Roosje, Petra (2020). Abnormal keratinocyte differentiation in the nasal planum of Labrador Retrievers with hereditary nasal parakeratosis (HNPK). *PLoS ONE*, 15(3), e0225901. Public Library of Science 10.1371/journal.pone.0225901

Barandun, Marc A.; Bult, Stella; Demierre, Stanislas; Vidondo, Beatriz; Forterre, Franck (2020). Colder ambient temperatures influence acute onset canine intervertebral disc extrusion. *Frontiers in veterinary science*, 7(175), p. 175. Frontiers Media 10.3389/fvets.2020.00175

Barnard, Laura; Durand, Alexane; Blume, Lauren; Lee, Laura; Cameron, Starr (2020). Aventriculi associated with holoprosencephaly in a dog. *Journal of veterinary internal medicine*, 34(6), pp. 2682-2686. Wiley-Blackwell 10.1111/jvim.15907

Basso, Walter; Sollberger, Elena; Schares, Gereon; Küker, Ursula; Ardüser, Flurin; Moore-Jones, Gaia; Zanolari, Patrik (2020). *Toxoplasma gondii* and *Neospora caninum* infections in South American camelids in Switzerland and assessment of serological tests for diagnosis. *Parasites & Vectors*, 13(1), p. 256. BioMed Central 10.1186/s13071-020-04128-9

Baur, Sarah; Rufener, Christina; Toscano, Michael J.; Geissbühler, Urs (2020). Radiographic Evaluation of Keel Bone Damage in Laying Hens—Morphologic and Temporal Observations in a Longitudinal Study. *Frontiers in veterinary science*, 7(129), p. 129. Frontiers Media 10.3389/fvets.2020.00129

Becker, Jens Michael; Schüpbach, Gertraud Irene; Steiner, Adrian; Perreten, Vincent; Wüthrich, Dominik; Hausherr, Anna; Meylan, Mireille (2020). Effects of the novel concept 'outdoor veal calf' on antimicrobial use, mortality and weight gain in Switzerland. *Preventive veterinary medicine*, 176, p. 104907. Elsevier 10.1016/j.prevetmed.2020.104907

Behrendt, Daphne; Burger, Dominik; Gremmes, Steffen; Szunyog, Katja; Röthmeier, Selena; Sieme, Harald (2020). Active immunisation against GnRH as treatment for unilateral granulosa theca cell tumour in mares. (In Press). *Equine veterinary journal* Wiley-Blackwell 10.1111/evj.13352

Benveggen, Jennifer; De Breuyn, Bettina; Gerber, Vinzenz; Rottenberg, Sven; Koch, Christoph (2020). Immunohistochemical analysis of programmed death-ligand 1 expression in equine sarcoids. *Journal of equine veterinary science*, 97, p. 103338. Elsevier 10.1016/j.jevs.2020.103338

Bernhard, Johanna Karin; Vidondo, Beatriz; Achermann, Rahel Lisa; Rediger, Rahel; Müller, Kerstin Elisabeth; Steiner, Adrian (2020). Carpal, tarsal, and stifle skin lesion prevalence and potential risk factors in Swiss dairy cows kept in tie stalls: A cross-sectional study. *PLoS ONE*, 15(2), e0228808. Public Library of Science 10.1371/journal.pone.0228808

Bernhard, Johanna Karin; Vidondo, Beatriz; Achermann, Rahel Lisa; Rediger, Rahel; Stucki, Dimitri; Müller, Kerstin Elisabeth; Steiner, Adrian (2020). Slightly and Moderately Lambe Cows in Tie Stalls Behave Differently From Non-lame Controls. A Matched Case-Control Study. *Frontiers in veterinary science*, 7, p. 594825. Frontiers Media 10.3389/fvets.2020.594825

Bongartz, U; Nessler, J; Maiolini, A; Stein, V M; Tipold, A; Bathen-Nöthen, A (2020). Vestibular disease in dogs: association between neurological examination, MRI lesion localisation and outcome. *Journal of small animal practice*, 61(1), pp. 57-63. Wiley 10.1111/jsap.13070

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