## Rehabilitation after illness and injury in companion and sports animals, 15.0 credits -VM0124

Semester: spring 2021, 210118-210323
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The course is given partly as a distance-learning course, i.e. some weeks are free from teaching activities but meant to be reserved for independent litterature studies as well as work with the rehabilitation plan (course examination). Certain elements are mandatory and are identified in the schedule with bold formatting. NOTA BENE! Due to the corona-19 situation, there can be acute changes in the schedule- so please keep informed by following messages at the Canvas course room!

The lectures will be held over Zoom, so please install zoom and look for updates on lecture zoom links on the Canvas course page. Some of the practical sessions will be moved to week 20 (appr 3 days between the 17<sup>th</sup> and 21<sup>st</sup> of May). Those are the practical exercises "Evaluation methods", "Soft tissue mobilization", "Rehabilitation horse", "Rehabilitation small animals part 1 and 2".

Part of the course will be held in conjunction between BI1358 "Exercise physiology and rehabilitation for performance and injury prevention" and DO0104 "Rehabilitation within veterinary care". *Italic formatting identify elements recommended but not part of this course.* 

Date	Time	Activity	Teacher	Room			
week 3	Modul	Module 1: Introduction and Module 2: Functional anatomy, and physiology.					
Monday 18/1	09.15- 09.45	Introduction to the course	ABe	Zoom https://slu-			
	10.00- 11.45	Introduction to rehabilitation and rehabilitation order. Introduction to veterinary rehabilitation and functional anatomy. Introduction to rehabilitation plan	ABe	se.zoom.us/j/6312 1695536 Passcode: 691741			
	12.30- 14.15	The anatomy of the musculoskeletal apparatus	JS	Zoom https://slu- se.zoom.us/j/6970 3015095 Passcode:111111			

	14.30- 16.15	Injury mechanisms, healing processes, adaptation to load.	ABe	Zoom <a href="https://slu-se.zoom.us/j/6582">https://slu-se.zoom.us/j/6582</a> 3070999 Passcode: 946048
Tuesday		Visit the reception at Ull's house to get codes for the internet, passage cards, etc (independently)		
19/1	8.00- 17.00	Anatomy, independent repetition and demo of functional anatomy (separate schedule)		Zoom or live: Asis (dry and wet), Amphi-theatre
Wednes- day 20/1	09.15- 12.00	How does an animal move/motor control. Pain and its effect on physical function. Introduction to functional diagnosis.	ABe	Zoom <a href="https://slu-se.zoom.us/j/6639">https://slu-se.zoom.us/j/6639</a> <a href="https://slu-se.zoom.us/j/6639">1647004</a> Passcode: 937793
Thursday 21/1	13.15- 14.15	Injury perspective in different sports (with BI1358)	MR	Zoom
	9.15- 10.30	Acute effects of physical activity -an overview (with BI1358)	AJ	Zoom
Friday 22/1	11.00- 12.00	Muscle physiology: a) an important method b) effects of exercise and rest (with BI1358)	AJ	Zoom
	13.15- 14.30	Circulation- effects of training (with BI1358)	AJ	Zoom

**Goal week 3:** Learning objective 1+5. (Functional anatomy. Healing, and tissue's adaptation to load. Functional diagnosis. Exercise physiology. Pain physiology.)

**Teaching material:** Book: ch 4-6. Canvas: Lecture handouts and Articles under "Module 1 and Module 2". Canvas room: "Resursrum rörelseapparaten".

Rehabplan: Chosen rehab case.

week 4	Module I	Module 1: Introduction and Module 2: Functional anatomy, and physiology			
Monday 25/1		Independent studies			
Tuesday 26/1		Independent studies			
Wednesd ay 27/1		Independent studies			
Thursday 28/1		Independent studies			

Friday 29/1		Independent studies		
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Goal week 4: As week 3

**Teaching material:** As week 3

Rehabplan: Written about the anamnesis and described the injury/illness (tissue, healing

times, healing processes).

Test: Canvas: quiz Palpation (situated at the Canvas course room).

week 5	Module 3: Assessment of physical dysfunction				
Monday 1/2	13.15- 15.00	Clinically applied outcome measures in veterinary rehabilitation	ABe	Zoom https://slu- se.zoom.us/j/6646 4076503 Passcode: 882235	
	10.00- 11.00	Standardised exercise tests (with BI1358)	AJ	Recorded	
	11.30- 12.15	Practical training: exercise test as a method to measure response to exercise (with BI1358)	AJ	Recorded	
Tuesday 2/2	13.15- 14.00	Example of rehab plan	ABe	zoom <u>https://slu-se.zoom.us/j/6731</u> 3575338 Passcode: 537474	
	14.15- 16.15	Practical training palpation. Two groups on dog and horse, respectively, who then shift. Bring your dog if you can (separate schedule). (for those who are able to participate, the rest are offered to do this week 20)	ABe, JS, MR, AP	Bulan 1 and 2 (dog) hus 3 (horse)	
Wednes- day 3/2	09.15- 12.00	Veterinary rehabilitation- a scientific update on treatment methods	AB	Zoom https://slu- se.zoom.us/j/6877 2766545 Passcode. 761666	
Thursday	9.15- 10.00	Follow-up on the exercise test (with BI1358)	AJ	Zoom	
4/2	10.15- 12.00	The young horse project -a long term perspective study (with BI1358)	AJ	Zoom	
Friday 5/2		Independent studies			

**Goal week 5:** Learning objectives: 2+3+4. (Assessment of physical dysfunction.)

**Teachingmaterial**: Book: chapter 11, 22. Canvas: Lecture handouts and articles on "Module 3"

Rehabplan: Written about assessment methods (outcome measures).

**Examination:** Canvas course room: quiz assessment methods.

week 6	Module 4: Rehabilitation methods				
Monday 8/2	13.15- 16.30	Practical training assessment methods (for those who are able to participate, the rest are offered to do this week 20)	Abe, Ape, JS	Experimentell smådjur, Bulan4	
Tuesday	10.15- 12.00	Massage therapy and passive range of motion	НН	Zoom	
9/2	13.15- 17.30	Practical training massage, PROM (for those who are able to participate, the rest are offered to do this week 20)	CE, ABe	Hältgång smådjurskliniken UDS3, Bulan 4	
Wednes- day 10/2	9.15- 12.00	Rehabilitation of the horse	НН	Zoom	
Thursday 11/2	9.15- 11.30	Case discussions horse and dog	НН, АВ	Zoom	
Friday 12/2		Independent studies			

Goal week 6: Learning objectives 2+3+4+5. (Rehab methods. Ethical discussions.)

**Teachingmaterial:** Book: chapter 12-14, 19-20. Canvas: Lecture handouts and articles on Module 4.

**Rehabplan:** Written about treatment methods and plan.

week 7	Module 4	4: Rehabilitation methods	
Monday 15/2		Independent studies	
Tuesday 16/2		Independent studies	
Wednes- day 17/2		Independent studies	
Thursday 18/2		Independent studies	
Friday 19/2		Independent studies	

Goal week 7: as above.

**Teachingmaterial:** as above.

**Rehabplan:** Written treatment plan, starting writing about home advice and ethical discussion.

week 8	Module 4	4: Rehabilitation methods		
Monday 22/2	13.15- 16.00	Rehabilitation in cats	АН	Zoom

Tuesday 23/2	09.15- 12.00	The orthopedic patient.	АН	Zoom
Wednes- day 24/2	09.15- 12.00	The neurologic patient. The critically ill patient.	АН	Zoom
Thursday 25/2	09.15- 11.00	Home advice	SA, MY	Zoom
Friday 26/2		Independent studies		

Goal week 8: as above.

**Teachingmaterial:** Book: chapter 17-18. Canvas: Lecture handouts and articles on Module 4. **Rehabplan:** Written about home advice and ethical discussion.

week 9	week 9 Module 5: Rehabilitation plan					
Monday 1/3		Independent studies				
Tuesday 2/3		Independent studies				
Wednesd ay 3/3		Independent studies				
Thursday 4/3		Independent studies				
Friday 53		Independent studies				

Goal week 9: as above

**Teachingmaterial**: Canvas: Lecture handouts and articles on Module 5.

**Rehabplan:** Written about ethical considerations, team around the rehab patient and collaboration/responsibilities. Send in your rehabplan to a fellow student, read and comment another student's rehabplan.

week 10	Modul	e 5: Rehabilitation plan	
Monday 8/3		Independent studies	
Tuesday 9/3		Independent studies	
Wednesd ay 10/3		Independent studies	
Thursday 11/3		Independent studies	
Friday 12/3		Independent studies	

Goal week 10: see above.

Teachingmaterial: as above

Rehabplan: Finalise the rehab plan and the oral presentation for the seminar

week 11 Module 5: Rehabilitation plan					
Monday 15/3	11-12	Time for questions	ABe	zoom	

Tuesday 16/3	8.15- 17.30	Seminar presentation rehabilitation plans	ABe	zoom <u>https://slu-se.zoom.us/j/6841</u> 7790288 Passcode: 385746
Wednesd ay 17/3		Work with rehab plan		
Thursday 18/3		Work with rehab plan		
Friday 19/3		Work with rehab plan		
Goal week 11: see above.				
Teachingmaterial: as above				
Rehabplan: Revise and finalise the rehab plan.				
week 12	Module 5	: Rehabilitation plan		
Monday 22/3		Work with rehab plan		
Tuesday 23/3		Send in rehab plan (23.55)		
week 20 Practical sessions				
2-3 days		Practical sessions	AH, HH, ABe	

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