



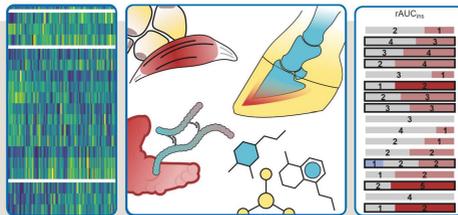
Julien Delarocque (Autor)
Metabolic profiling of hyperinsulinemic horses

Wissenschaftliche Reihe
der Klinik für Pferde

Herausgegeben von
Karsten Feige, Peter Stadler,
Harald Sieme, Bernhard Ohnesorge



Julien Delarocque
Metabolic profiling of hyperinsulinemic horses



STIFTUNG TIERÄRZTLICHE HOCHSCHULE HANNOVER

50



Cuvillier Verlag Göttingen
Internationaler wissenschaftlicher Fachverlag

<https://cuvillier.de/de/shop/publications/8448>

Copyright:

Cuvillier Verlag, Inhaberin Annette Jentsch-Cuvillier, Nonnenstieg 8, 37075 Göttingen,
Germany

Telefon: +49 (0)551 54724-0, E-Mail: info@cuvillier.de, Website: <https://cuvillier.de>

Table of contents

1. Introduction.....	1
1.1. Equine hyperinsulinemia.....	1
1.2. Insulin-associated laminitis.....	3
1.3. Metabolic profile associated with insulin dysregulation.....	4
1.3.1. Previously described alterations of the metabolism.....	4
1.3.2. Technical aspects.....	5
1.4. Diagnosing insulin dysregulation.....	6
1.4.1. Basal testing.....	6
1.4.2. Detecting insulin resistance.....	6
1.4.3. The advantages of oral testing protocols.....	7
1.5. Treating insulin dysregulation.....	7
1.5.1. Current recommendations.....	7
1.5.2. Pharmacological treatment.....	8
1.6. Hypotheses (H), aims (A) and objectives (O).....	8
2. Manuscript 1.....	11
3. Manuscript 2.....	25
4. Manuscript 3.....	35
5. Manuscript 4.....	57
6. General discussion.....	71
6.1. Potential biomarkers of insulin dysregulation and laminitis.....	71
6.2. The oral glucose test as hyperinsulinemia model.....	73
6.3. Insulin dysregulation in the context of the equine metabolic syndrome.....	74
6.4. Pathological processes potentially associated with insulin dysregulation.....	76
6.5. Future perspectives.....	77
7. Conclusion.....	79
8. References.....	81