RGD Rindergesundheitsdienst
SSB Service Sanitaire Bovin

KGD Schweizer Kälbergesundheitsdienst
SSV Suisse Service Sanitaire Veau

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Economic assessment of use of antibiotics in the veal calf industry in Switzerland

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Presentation of project

- 2 years project (ends April 2019) led by the Swiss Bovine Health Service (Vetsuisse-Faculty, Zürich)
- Funding provided by the Swiss Federal Food Safety and Veterinary Office

Schweizerische Eidgenossenschaft
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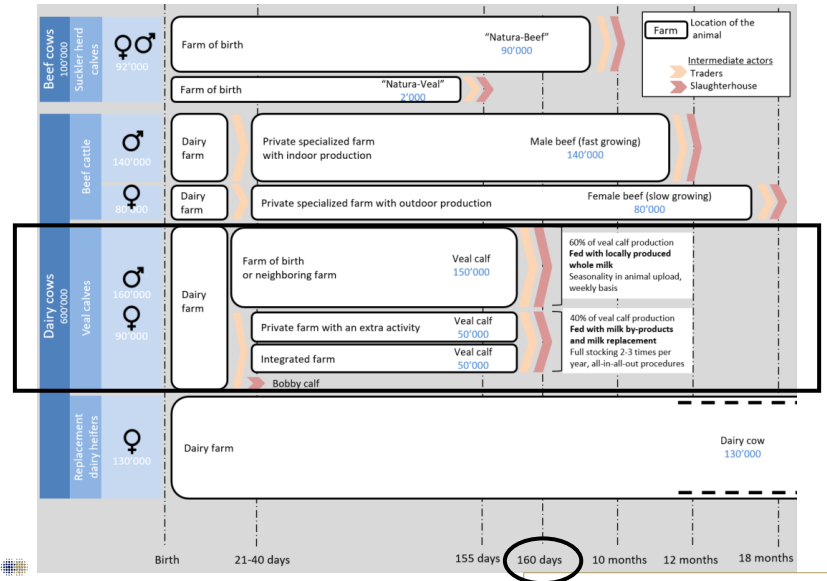
Eidgenössisches Departement des Innern EDI
Bundesamt für Lebensmittelsicherheit und Veterinärwesen BLV

- Objectives
  - Characterization of the value chain of the veal calf industry in Switzerland
  - Organization of a workshop with European experts
  - Data collection: questionnaire survey to assess the income of large animal practices in Switzerland based on disposal of antibiotics

Calf value chain in Switzerland

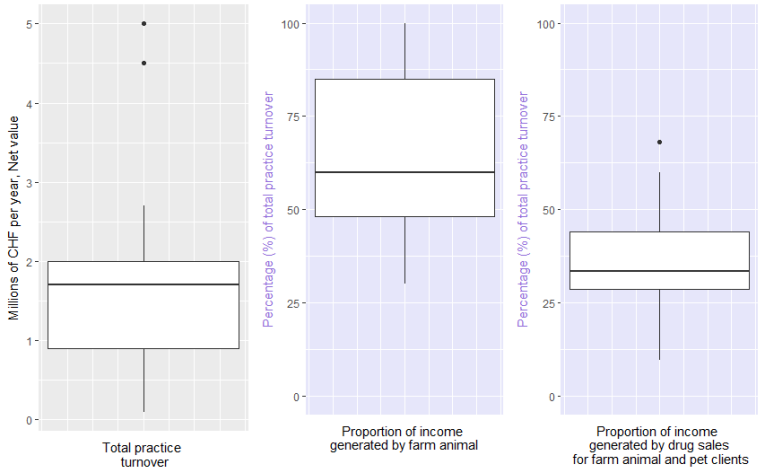


Economic data collection

- Income of veterinary practices due to sales of antibiotics
  - Data collected from 29 practices
  - Survey conducted in January-February 2018
- Invoices for veal calf operations over 1 year (2017)
  - 6'232 positions on bills collected

Preliminary results: Drug sales

(29 veterinary practices)



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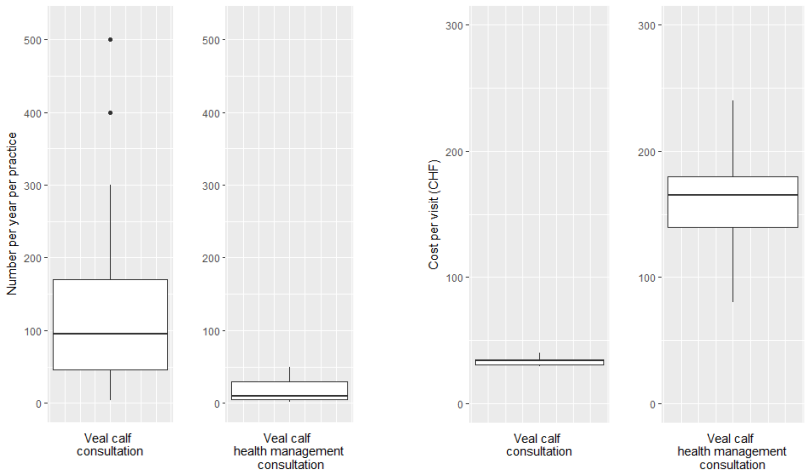
Preliminary results: Practice activities

(29 veterinary practices)



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Discussions

- Huge variability between practices
- Further analysis ongoing
- Provides basis for discussing reduction policy options

- According to the literature: possible reduction of AM use at national level for livestock
  - 10% in Denmark of AM consumption for pigs (per kg, 2010-2013) *(Danish Veterinary and Food Administration, 2014)*
  - 50% in the Netherlands for farm animals in 2013 *(Speksnijder, 2015)*
  - Translation at veterinarian level?

Next steps

- Detailed economic analysis to establish net income (benefit) per practice
- Quantification of income loss
- Estimation of alternative business models for veal calf veterinarians to compensate

Veterinarian

Positive Impacts		
Added Income	CHF	per
Advisory work	0	consultation
Vaccines	0	cow
Support for AM reduction	0	consultation
Voucher from farmers	0	farm
Training for farmers	0	training
Phone consultations	0	call
	0	
Total increase Income	0	
Reduced Costs	CHF	per
Training for vets (paid by government)	0	
	0	
	0	
Total reduced Costs	0	
Total positive Impacts	**0**	

Competing Impacts		
Added costs	CHF	per
Phone calls for reminders	0	call
Time spent for administration	0	
Continuous education about AMU	0	
Additional training (nutrition…)	0	
	0	
	0	
	0	
Total increased Costs	0	
Reduced Incomes	CHF	per
Antimicrobials	0	year
Consultations for prescription	0	consultation
	0	
Total reduced Incomes	0	
Total competing Impacts	**0**	

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References

- Speksnijder, D. C., Mevius, D. J., Bruschke, C. J. and Wagenaar, J. A. (2015), *Reduction of Veterinary Antimicrobial Use in the Netherlands. The Dutch Success Model*. Zoonoses Public Health, 62: 79-87
- Danish Veterinary and Food Administration (2014) *Special provisions for the reduction of the consumption of antibiotics in pig holdings (the yellow card initiative)*