Forschungsschwerpunkt	Infektionskrankheiten
Projekttitel	Prospective randomized clinical trial: Octenidine dihydrochloride for
	preoperative surgical site skin preparation in clean surgeries in cattle
Inhalt	Surgical site infections (SSI) represent a major economic and welfare
	burden. The impact of SSI implies increased veterinary costs because
	of delayed wound healing, prolonged hospitalization, increased use of
	antibiotics, possible enhanced resistance of microorganisms to
	antimicrobials, increased morbidity, and may result in a fatal outcome.
	SSI have been reported in up to 10.5% of clean standing flank
	The recommendations for control of CCL state that propagative
	surgical site skip proparation using appropriate products is one of the
	important interventions to prevent SSL Povidone-indine (PVI) and
	chlorbevidine digluconate (CHX) in combination with alcohol or sterile
	saline solution, are the most commonly used antiseptics for
	preoperative skin preparation in veterinary surgery. Despite similar
	initial reduction in bacterial count, PVI has a low residual effect
	compared to CHX, thus faster bacterial regrowth may appear. In
	addition, concerns have been expressed about the suitability of CHX
	because of acquired resistance of methicillin-resistant Staphylococcus
	aureus (MRSA) and enterococci to this compound. Low dermal
	tolerance is another disadvantage seen with the use of both these
	antiseptics.
	Octenidine dihydrochloride (OCT) is a bactericidal and fungicidal
	antiseptic currently used in human hospitals in Europe. OCT use has
	not been established for skin antisepsis in veterinary surgery. The in-
	Vitro antimicrobial efficacy of UCI is 3 to 10 times higher than that of
	CHX and its residual effect similar to that of CHX. Additionally, OCI
	shows low cytotoxicity, which can guarantee a better dermain tolorance. OCT is also effective against MPSA and multidrug resistant
	Gram-negative nathogens
	The objective of the study is to compare and evaluate preoperative
	surgical site skin preparation with OCT. CHX or PVI in cattle surgery in
	regard to the occurrence of SSI. The study is designed to test the
	following hypothesis: OCT preoperative surgical site skin preparation
	will result in non-inferior immediate reduction in bacterial counts,
	residual effect, and prevention of occurrence of SSI when compared to
	CHX and PVI.
Hauptverantwortliche	Wiederkäuerklinik, Vetsuisse Fakultät, Universität Bern
Mitverantwortliche	
Kollaboration	Institut für Veterinärbakteriologie, Vetsuisse Fakultät, Universität Bern
Finanzierung	Universität Bern, DKV, Stiftung Tierspital Bern Shülke & Mayr GmbH
Kontaktperson	mailto:emma.marchionatti@vetsuisse.unibe.ch
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