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The CAFARAD Project:

Food animal chemical residues research data portal and veterinarians' go-to website for extra-label drug questions



- Food Animal Residue Avoidance Databank (FARAD) is a five-university research effort supported by the USDA.
- CAFARAD (California-FARAD) is the UC Davis-maintained area within FARAD, encompassing veterinarians' questions and pharmacokinetic research and document management which supports the answers and other universities' efforts.

Beginning in 2014, Cogni, Inc. assumed the IT portion of CAFARAD, including all aspects ranging from server hosting and support to new .NET / IIS web application development.

The first part of the project involved converting a MS Access data backend with 300 tables to SQL Server, and converting a classic ASP veterinarian's submission page to .NET. Various UI improvements were added, such as filtering as shown to the right, to help veterinarians find the drug at issue faster.

	e See a hehah er an anale.				
*Drug#1-Tradename	alba				
1	Albac / Coyden 25 / Albac				
	Albaplex 3x Tablets Albaplex Tablets				
*Drug#1-Route	Amprol Hi-E; Albac: 3-Nitro				
*Drug#1-Dose	Amprol HI-E: Albac: 3-Nitro				
Drugel Number Of	Avatec / Albac				
Drug#1-Number Of	Avatec 3-Nitro; Albac				
Doses	Baciferm / Albac, Baciferm / Monteban				
	Bio-Cox + 3-Nitro + Albac				
	Bio-Cox; Albac; 3-Nitro				
	Carb-O-Sep: Albac				
	Coban: Albac; 3-Nitro				
	Coyden 25; Albac; 3-Nitro				
	Deccox: 3-Nitro; Albac				
o 11 o c	Deccox: Albac; 3-Nitro				
General Information Q	Delta Albaplex 3x Tablets, Delta Albaplex Tablets				
Additional Case in:	Sacox, 3-Nitro, Albac				
	Sacox; Albac; 3-Nitro				

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Outsourced from UC Davis IT, a mission-critical project to support UCDavis' responsibilities in a five-university USDA-funded project which helps protect the safety of the US food supply.

TECHNICAL GOALS

Within avaiable funding, convert most of the original classic ASP web applications to .NET technology. Re-imagine/redesign the web user interfaces. Provide responsive web design (RWD) design treatments to pages. Create new web applications as requested withn budget.

HAND-OFF

The project was successfully handed back to UC Davis in November 2020. By then, the web hosting had moved to an AWS virtual server. Local UCD staff assumed the duties of any future development, maintenance and support.



Some neat web apps along the way...

Citation Search: a publicly facing web application allows veterinarians and other researchers to quickly find research related to a specific chemical and how long it taks for specific animals to clear the chemical from their system so that the food product is safe for consumption.

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			Acta Chrom.	In vive investigation of certicite-loaded gelation bracks dogs	n and PLGA microspheres	2013	18	Hao, Z., Wang, L., Xiao, K.; Zhao, Y.; Zou, M. Zhang, Q., Ding, Z., Yang,	DOLIN

Pharmacokinetic research data entry portal: used within UC Davis by kineticists to enter research data about withdrawal interval calculations for food animals.

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Indian Journal of Small 2017 23(2):208- 212 Kamal, Pant Ahmad, A. Pharmacokinetics of enrofloxacin in sheep following intravenous and intramuscular administration									
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Species*: Sheep Find Route*: Intravenous Breed: + Matrix*: Plasma + (A)NADA: Drug*: enrofloadan Urug*: enrofloadan Urug*: Edit <<delete< li=""> Dose: units: y 5 mg/kg Total boxy Total box Total box To</delete<>	Sub-gennums for 9017678-1 Find Sub-gennum: AnimalAverage1 Change label to: AnimalAverage1 Change Add Sub-gennum: Animal2 View Sub-GenNums or name here: + Current Sub-GenNum Record: AnimalAverage1 # Males: 0 [integer]								
# of doses administered: 1 (integer required)	# Females: 5 (integer) # Both sexes: 0 (integer)								
Dose Interval (frequency):	□lamb (<45 d)								
Co-Administered Drug (0): Image: Combination Drug (0): Combination Drug (0): Image: Combination Drug (0):	Age Category: market age (6-9 mo)								
Additional Animal / Dosing / Administration Information:	Ladult (>9 mo)								

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OTHER CAFARAD WEB APPLICATIONS

EndNote citation XML importer

Responder's Portal

Bibliographic and PharmacoKinetic research data search portal.

PharmacoKinetic data entry portal

Portal for U Florida to upload new chemical and trade name data.

WYSIWYG editor for researchers to post links

PARTNER UNIVERSITIES

Kansas State University University of Florida University of North Carolina University of Virginia