



Applying VICH Guidelines : OVERVIEW

Focus on stability

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6th cycle regional seminar for OIE focal points for veterinary products
Addis Ababa, 9th July 2019

4 CATEGORIES

- > ANALYTICAL VALIDATION
- > IMPURITIES
- > STABILITY
- > SPECIFICATIONS

1. Analytical validation

- > Validation of analytical procedures : Definition and Terminology
 - VICH GL1 - Implemented in October 1999

- > Validation of analytical procedures : Methodology
 - VICH GL2 - Implemented in October 1999



2. Impurities

- > Impurities in New Veterinary Drug Substances
 - VICH GL10(R) – January 2008

- > Impurities in New Veterinary Medicinal Products
 - VICH GL11(R) – January 2008

- > Impurities: Residual Solvents in new veterinary medicinal products, active substances and excipients
 - VICH GL18(R) - July 2011



3. Stability

- > Stability Testing of New Veterinary Drug Substances and Medicinal Products VICH GL3(R) – January 2008
- > Stability Testing: Requirements for New Dosage Forms
 - VICH GL4 Annex to the VICH GL3 Implemented in May 2000
- > Photostability Testing of New Drug Substances and Products
 - VICH GL5 (Quality - Stability) - Implemented in May 2000
- > Stability Testing for Medicated Premixes
 - VICH GL8 - November 1999
- > Stability testing for biotech/biological products
 - VICH GL 17 – July 2001
- > Bracketing and matrixing designs for stability testing
 - VICH GL45 - April 2011
- > Statistical evaluation of stability data
 - VICH GL51 February 2014n



4. Specifications

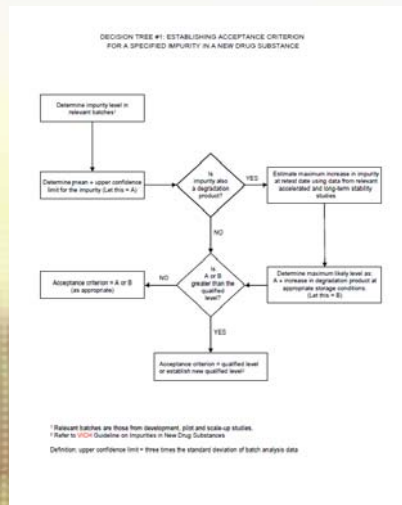
> Test Procedures and Acceptance Criteria for New Veterinary Drug Substances and New Medicinal Products: Chemical Substances + Decision Trees

- VICH GL39 - November 2006

- VICH GL 40 specifications for biologicals

> Decision Trees

- VICH GL39





Stability Guidelines

What is the objective of VICH stability guidelines?

- **Provide guidance for conducting the stability studies**

of new drug substances or medicinal products that will support a re-test period (drug substance), a shelf life (drug substance/medicinal product) and recommended storage conditions.

- **Define the stability data package**

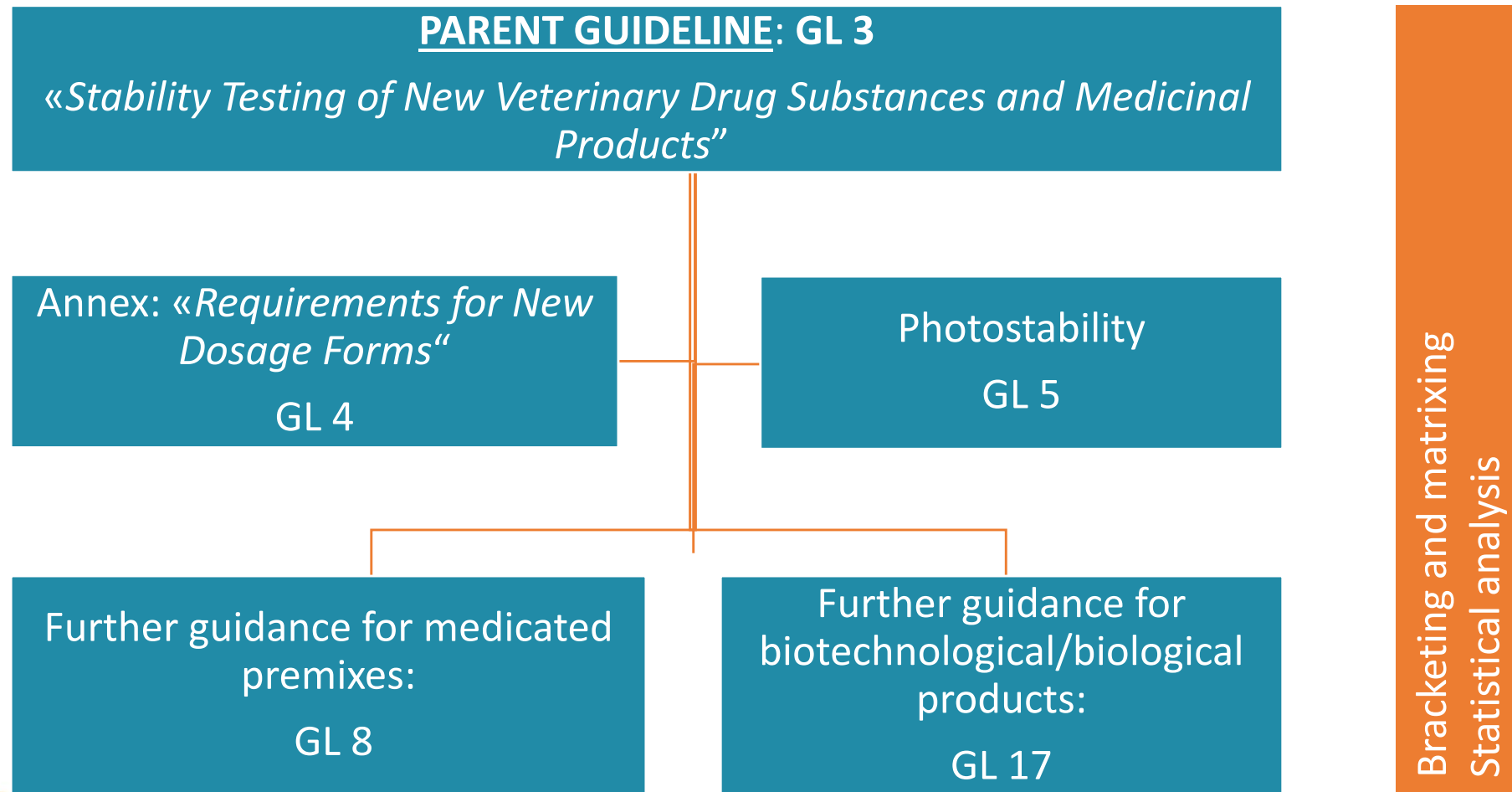
for a new drug substance or medicinal product that is sufficient for a registration application.

- **Provide recommendations for the evaluation of stability data**

Structure of VICH Stability guidance: Guidance on the stability studies to conduct



- > What are the stability guidelines applicable to new drug substances and new medicinal products according to their type?



- **New dosage form:** a new dosage form is defined as a drug product which is a different pharmaceutical product type, but contains the same active substance as the existing approved product.
- Different pharmaceutical product types include
 - different administration route (e.g., oral to parenteral),
 - new functionality/delivery systems (e.g., immediate release tablet to modified release tablet) and
 - different dosage forms (e.g. capsule to tablet, solution to suspension).

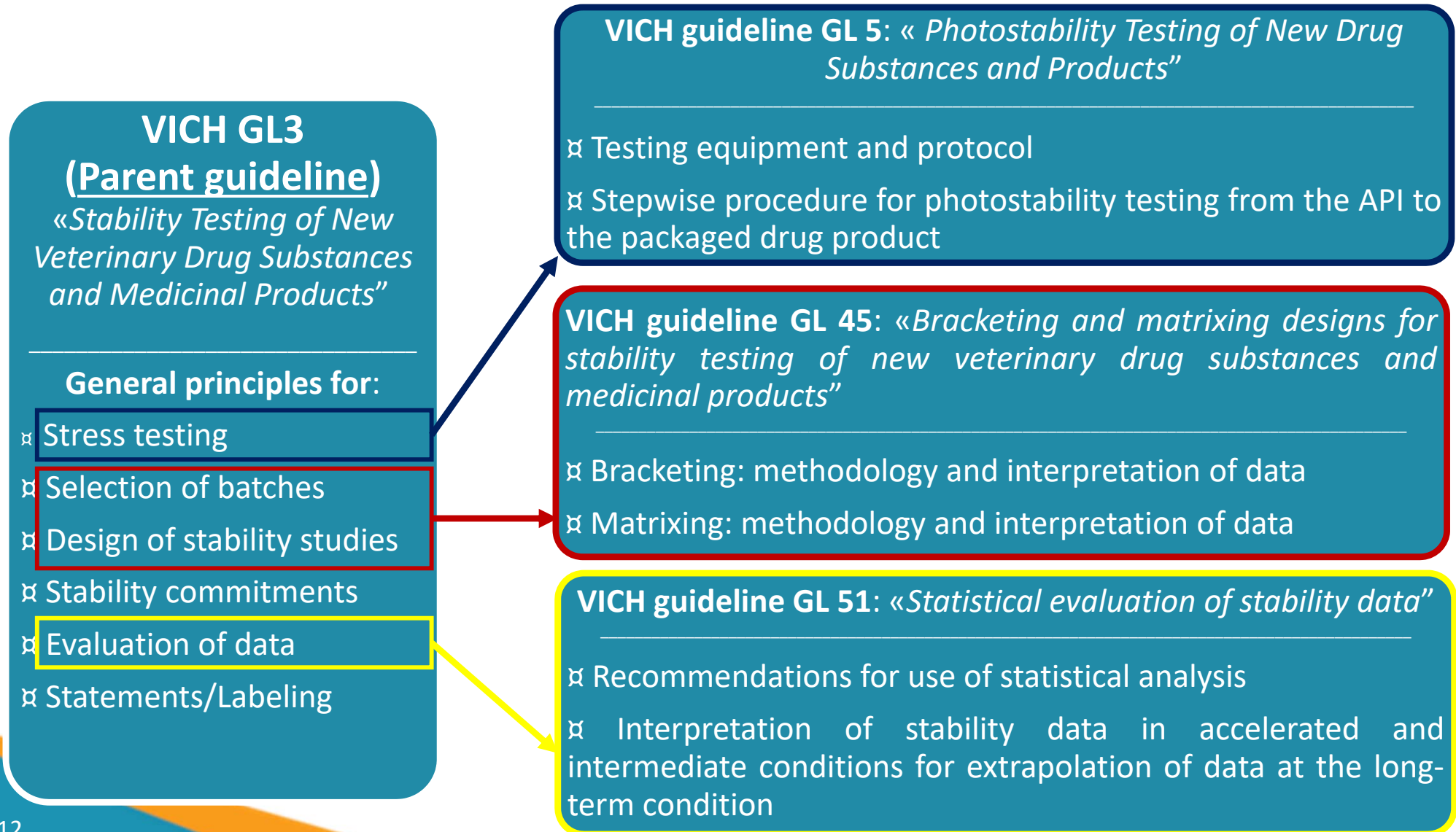


- **Medicated premix (Type A Medicated Article):** a medicated premix is a veterinary medicinal product consisting of a mixture of one or more drug substances, generally with a carrier, that is prepared to facilitate oral administration of the drug to animals when mixed with feed.
- **Biotechnological/biological product (scope of VICH GL17):** well-characterized proteins and polypeptides, and their derivatives which are isolated from tissues, body fluids, cell cultures, or produced using recombinant deoxyribonucleic acid (r-DNA) technology. The guideline does not cover antibiotics, heparins, vitamins, cell metabolites, DNA products, allergenic extracts, conventional vaccines, cells, whole blood, and cellular blood components.

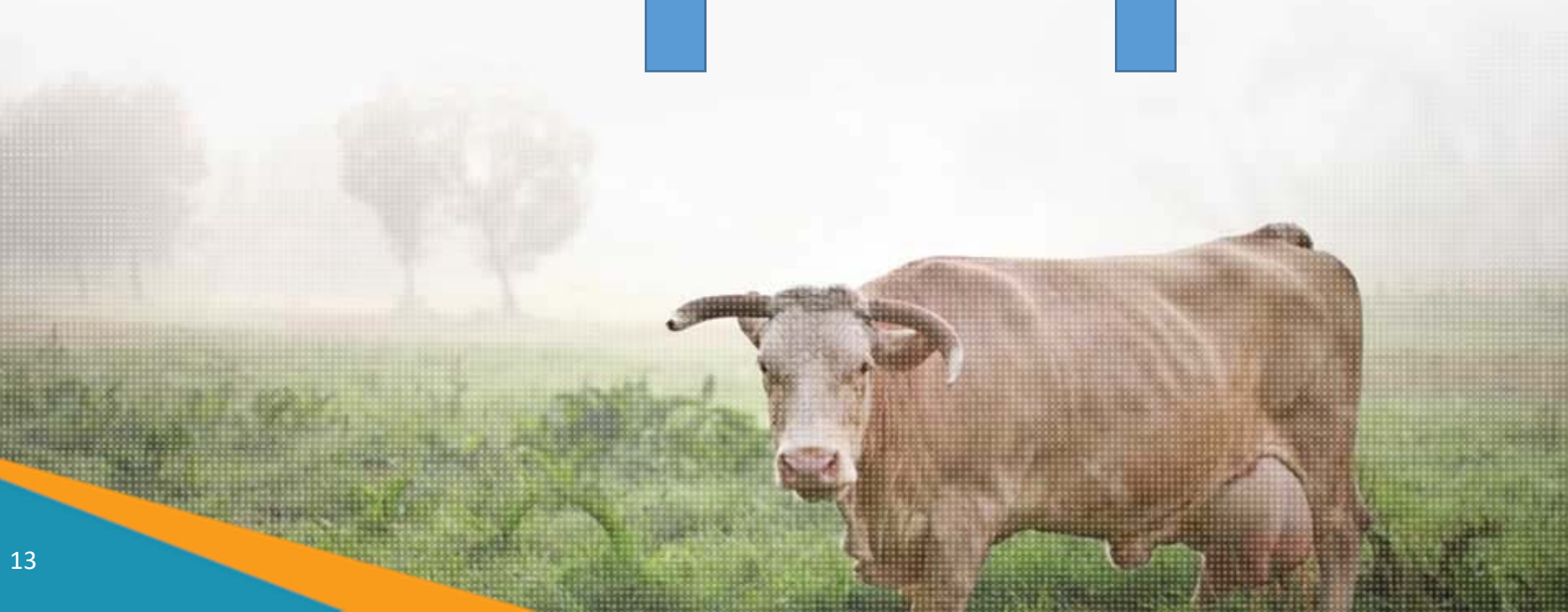
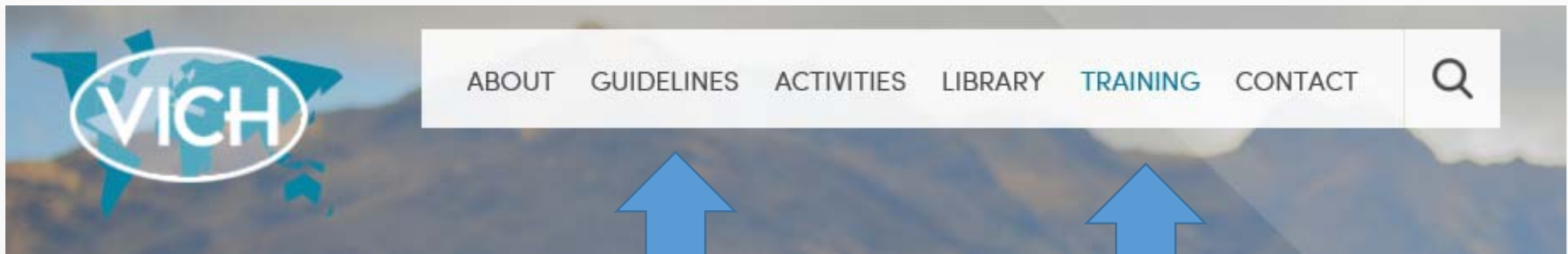
Structure of VICH Stability guidance: General methodology for protocols and data



- > Where to find general recommendations for designing the protocol of stability studies and evaluating data?



> VICH website





GUIDELINES

QUALITY

[ANALYTICAL VALIDATION](#) | IMPURITIES | STABILITY | SPECIFICATIONS

SAFETY

ENVIRONMENTAL SAFETY | METABOLISM AND RESIDUE KINETICS | TOXICOLOGY |
TARGET ANIMAL SAFETY | ANTIMICROBIAL SAFETY

EFFICACY

GOOD CLINICAL PRACTICE | ANTHELMINTICS | BIOEQUIVALENCE

Analytical validation

- [Validation of analytical procedures : Methodology](#)
VICH GL2 (Validation methods) - Implemented in October 1999
- [Validation of analytical procedures : Definition and Terminology](#)
VICH GL1 (Validation definitions) - Implemented in October 1999





TRAINING

Module 2 – Quality

- [VICH Guidelines on Stability: Overview](#)
- [VICH GL3 \(R\) & 4](#) – Stability testing of new veterinary drug substances and medicinal products + Annex GL4 – Requirements for new dosage forms
- [VICH GL5](#) – Photostability testing of new veterinary drug substances and medicinal products
- [VICH GL8 \(R\)](#) – Stability testing for medicated premixes
- [VICH GL10: Impurities](#) – GL on impurities in new veterinary drug substances
- [VICH GL11: Impurities: GL on impurities in new veterinary medicinal products](#)
- [VICH GL18 \(R\): Impurities: Residual solvents in new veterinary medicinal products, active substance and excipients](#)
- [VICH GL45 \(R\)](#) – Bracketing and matrixing designs for stability testing of new veterinary drug substances and medicinal products
- [VICH GL51](#) – Statistical evaluation of stability data

GENERAL TRAINING MATERIAL

MODULE 1 – GENERAL TOPICS

MODULE 2 – QUALITY

MODULE 3 – EFFICACY

MODULE 4 – SAFETY

MODULE 5 – BIOLOGICALS

MODULE 6 – PHARMACOVIGILANCE



Link to the presentations of VICH stability guidelines



#	Title
	VICH Guidelines on stability: OVERVIEW (<i>this presentation!</i>)
GL 3 and GL 4	Stability Testing of New Veterinary Drug Substances and Medicinal Products and Requirements for New Dosage Forms (Annex to VICH GL 3)
GL 5	Stability Testing: Photo-stability Testing of New Drug Substances and Products
GL 8	Stability Testing for Medicated Premixes
GL 45	Bracketing and matrixing designs for stability testing of new veterinary drug substances and medicinal products
GL 51	Statistical evaluation of stability data
GL17	Stability testing of new biotechnological/biological veterinary medicinal products



www.vichsec.org