



### Mission

- To enhance awareness among the veterinary healthcare team and the public for nutrition's vital role in optimum pet health.
- To advocate for nutrition as a key component in all veterinary and veterinary nurse/technician curricula.
- To promote the importance of performing a nutritional assessment on every animal at every visit, and to make specific nutritional recommendations for each animal as an integral component of patient care. The 5th Vital Assessment!
- To advance the central role of the veterinary healthcare team as the expert source of information for optimal pet nutrition.

### Vision

To help the veterinary healthcare team and the public understand the importance of nutrition in companion animal health by providing an expert source of accurate nutritional information and recommendations

### Current Members:

1. Martin de Scally, BVSc, BVSc (Hons), BVSc (MMed), Hilton Veterinary Hospital, South Africa
2. Rachel Lumbis, MSc (VetEd), BSc (Hons), PG Cert (MedEd), RVN, Cert SAN, FHEA. Lecturer in Veterinary Nursing, Royal Veterinary College, UK
3. Adriana López Quintana, DVMT, Clinical Director of a Small Animal Clinic in Maldonado, (Private practice, Uruguay, South America)
4. Minna Rinkinen, VMD, PhD, Adjunct Prof University of Helsinki (Helsinki, Finland)
5. Gregg Takashima, DVM, Co-Chair (United States)
6. Ping-Chih (Ben) Teng, BVM (National Veterinary Hospital, Taiwan)
7. S Yathiraj, DVM, PhD (Dean, Bangalore Veterinary College, India)
8. Lisa P. Weeth, DVM, Dipl. ACVN (USA)
9. Marge Chandler; DVM, MS, MANZCVSc, DACVN, DACVIM, DECVIM-CA, MRCVS. Co-Chair (Scotland)
10. Cecilia Villaverde Cecilia Villaverde Haro, BVSc, PhD, DACVN, DECVN (Spain)



Photo: Cape Town, 2014

### WSAVA Liaison

Colin Burrows, BVetMed, Ph.D

### Advisors

- Peter van Beukelen, DVM, PhD, Professor Quality Improvement in Veterinary Medicine (University of Utrecht, Netherlands)

- Nick Cave, BVSc, MVSc, MACVSc, DACVN (Senior Lecturer in Small Animal Medicine, Massey University Veterinary Teaching Hospital, New Zealand)
- Clayton MacKay, DVM (Veterinary Consultant, Canada)
- Patrick Nguyen, DVM, MS, RDH, Dipl. ECVN (University of Nantes, France)
- Betina Rama, DVM, INSEAD Diplomate of Clinical Organizational Psychology (Consultant, Argentina)
- Ross Tiffin (Commercial Coordinator, International Society for Feline Medicine, United Kingdom)
- Lisa Freeman, DVM, PhD, DACVN (Professor of Clinical Nutrition, Tufts Cummings School of Veterinary Medicine, USA)

## History

Global Nutrition Committee (GNC) Formed in 2010, initial task was to develop global nutrition guidelines.

Nutritional Assessment Guidelines published in 2011

- In 10 languages, published in 17 publications and endorsed by 29 organizations

Have held nutrition tracks at the last 3 Congresses:

- Auckland 2013: 4 hr pre-congress lectures & 8 hr congress track
- Cape Town 2014: 1 ½ days of Nutritional talks involving a specialist & nutritionist. New and collaborative effort
- Bangkok 2015: 1 ½ days of this popular collaboration showcasing the importance of nutrition in multiple disciplines. Many lectures were standing room only...



## Nutrition Toolkit

Introduced at the Auckland Congress, 2013... containing 9 nutritional tools.

- Calorie Needs for Healthy Adult Cat
- Calorie Needs for Healthy Adult Dog
- Short Diet History Form
- Nutritional Assessment Checklist
- Feeding Guide for Hospitalized Dogs and Cats
- Feeding Instructions & Monitoring Chart for Hospitalized Patients
- The Savvy Cat Owner's Guide to the Internet
- The Savvy Dog Owners Guide to the Internet
- Selecting the Best Food for Your Pet

The collage includes several key documents from the WSAVA Global Nutrition Committee:

- Feeding Guide for Hospitalized Dogs and Cats:** A flowchart titled "When to Intervene in a hospitalized patient" with three levels of intervention:
  - 5 days:** Additional support to hospitalize. Place feeding tube or initiate parenteral nutrition.
  - 4-6 days:** Additional support study needed if recovery is not imminent. Consider feeding tube placement if patient will be anorectic.
  - 1-3 days:** With feeding orders, monitor food intake and clinical condition daily.
- Short Diet History Form:** A form for pet owners to provide information about their pet's diet, including sections for "How active is your pet?", "How much do you feed your pet?", and "What does your pet eat?".
- Muscle Condition Score Charts:** Four diagrams showing the progression of muscle loss in a cat, labeled "Normal muscle mass", "Mild muscle loss", "Moderate muscle loss", and "Severe muscle loss". Each diagram shows the cat's body with red arrows indicating the areas of muscle loss.

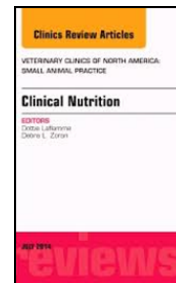
As of Dec 2015; a total 18 tools available for your use with these additions.

- Body Condition Score Video (Courtesy of Purina)
- Pet nutrition assessment video. Courtesy of CVMA
- Body Condition Score Chart for Cats
- Body Condition Score Chart for Dogs
- Muscle condition score chart for Dogs
- Muscle condition score chart for Cats

- Quick Tips on Implementing the WSAVA Nutrition Guidelines
- Implementing the WSAVA Nutrition Guidelines
- New tools for the nutritional assessment and management of critical care patients

#### Publications Using or Referencing the WSAVA GNC Guidelines or Toolkit:

- Larsen, J, Villaverde, C. Nutritional evaluation for hospitalized patients. Small Animal Critical Care Medicine. Ch 27. Aug 2014
- Love, L, Clines, M. Veterinary Anesthesia and Analgesia, July 2014. (BCS used)
- Chandler, M, Takashima, G. Nutritional concepts for the veterinary practitioner. Vet Cl of North America. July 2014
- Villaverde, C. Spanish Clinical Nutrition Manual. (in progress)
- Freeman, L. Manual of Feline and Canine Cardiology. MCS toolkit. (in progress)
- Lumbis, R. & Chan, D.L., 2015 (in press). The Raw Deal: Clarifying the Nutritional and Public Health Issues Regarding Raw Meat-Based Diets in Dogs. The Veterinary Nurse.
- Lumbis, R., 2014. Nutritional Calculations: A Guide for the Veterinary Healthcare Team. The Veterinary Nurse. 5 (8), pp.424 - 433
- Lumbis, R., 2014. Reflections On Nutritional Assessment: The Veterinary Nurse workshop 2014. The Veterinary Nurse. 5 (2). pp.64 – 67
- Freeman LM. Nutritional management of heart disease. In: Little SP. August's consultations in feline internal medicine, 7th ed. St Louis: Elsevier (In Press)
- Freeman LM, Rush JE. Nutrition and cardiovascular disease. In: Tilley L, Smith FWK, Oyama M, Sleeper M. Canine and feline cardiology, 5th ed. St Louis: Elsevier: 394-404
- Freeman LM, Rush JE. Nutritional management of cardiac disease. Cachexia and sarcopenia. Ettinger SJ, Feldman EC, Cote E (eds). Textbook of veterinary internal medicine, 8th ed. St Louis: Elsevier (In Press)
- Freeman, LM. Nutritional Modulations of Heart Disease. Textbook Vet Intl Med, Ettinger, 8th ed.
- Villaverde C, Herta M. "MANUAL DE NUTRICIÓN CLÍNICA DE PERROS Y GATOS" Multimedica Ediciones, July 2015
- Freeman, L. Manual of Feline and Canine Cardiology. MCS toolkit. Textbook of Veterinary Internal Medicine, 8th Ed (in press)
- Corr, SC. Companion Animal Ethics. Wiley & Blackwell (in progress)
  - Michel, KE. Ch on Nutritional Assessment. Textbook of Vet Int Medicine, 8th ed (in press)
  - Freeman LM, Michel KR. Clinical Veterinary Advisor: Dogs and Cats. 3rd Ed. Elsevier (in progress)
  - Koch D, Fischer, M. Lahmheitsuntersuchung beim Hunder. Enkein MVS Medizinverlage Stuttgart GmbH & Co KG (in progress)
  - Battalia. Small Animal and Critical Care for the Veterinary Technician, 3rd ed (in progress)
- Villaverde C. Neonatal and Pediatric Nutrition & Nutrition in healthy geriatric cats and dogs. In: Textbook of Veterinary Internal Medicine Expert Consult, 8th Edition. Editors: Stephen J. Ettinger, Edward C. Feldman, Etienne Cote. Saunders Elsevier. In press.)



- Villaverde C. Enfermedades del tracto urinario inferior felino. Nutritional Management of Feline Lower Urinary Tract Disease. (in press)

Presentations: *(It is difficult to track all presentations involving the GNC material. The following is what we know has been used)*

April 2014-April 2015:

1. North American Veterinary Conference, Orlando, FL. January 19, 2014
2. Western Veterinary Conference, February 18, 2014
3. American College of Veterinary Internal Medicine, Nashville, TN, June 4-7, 2014
4. Conti Symposium on Current Concepts and Critical Care, August 3, 2014
5. Getting the most of out "pet therapy" (Animal-Assisted Interventions), Tufts Paws for People webinar, August 19, 2014
6. Optimal nutrition for patients with cardiac disease. CVCA Cardiac Care for Pets (Maryland and Virginia – lecture via teleconference), April 23, 2014
7. UNAM: Mexico. Sept 2014
8. World Small Animal Veterinary Association, Cape Town, South Africa, September 16-20, 2014
9. Swedish Feline Medicine Group Oct, 2014
10. Taiwan Academy of Veterinary Internal Medicine, Taipei, Taiwan, October 26, 2014
11. Pet obesity epidemic. Friedman School of Nutrition Science and Policy Seminar Series, Boston, MA, November 4, 2014
12. XVIII National Training programme for 21 days on "Advanced techniques in detection and control of Parasitic diseases", organized by the Centre of Advanced Faculty Training in Veterinary Parasitology at Veterinary College, KVAFSU, Bangalore on Nov 26, 2014
13. Technical Meet of Pet Practitioners Association of Karnataka on Dec 14, 2014 at Hotel Chalukya, Bangalore
14. Canine Dermatology and Renal diseases of dogs with special reference to chronic renal disease, organized by Odisha Veterinary Council at Bhuvaneshwar on Jan 8, 2015
15. North American Veterinary Conference, Orlando, FL. January 17-21, 2015
16. Western Veterinary Conference, February 15-19, 2015
17. U of Barcelona: 2014-2015
18. Tufts University: 2014-2015
19. VetNI Regional CPD meeting, February 2015, 'Nutritional Assessment: the Fifth or
20. Pet Trade Fair / Exhibition and Round Table organized by Pet Practitioners Association of Bangalore and India International Pet Trade Fair (IIPTF) at KTPO, Trade Centre Bangalore, Whitefield on Feb 8, 2015
21. Care of Senior Cats. China Assc of Veterinary 2015
22. Nutritional training of Chinese Veterinary Group (瑞鵬動物醫院), March 2015
23. Uni Helsinki, Vet faculty March 2015
24. Univet company 28th March 2015
25. Nutritional modulation of cardiovascular disease. American Society for Nutrition Scientific Sessions, Boston, MA, March 28-April 1, 2015



## Presentations:

April 2015 – Current 2015

1. Lifestyle Diseases in Companion Animals” in the Delhi Pet Practitioners meet organized at Taj Palace, New Delhi on April 19, 2015
2. Reviiri Vet Clinic, Tampere 18th April 2015
3. WSAVA Congress Bangkok, May 2015:
  - Implications of Nutrition and Dental Health: M Chandler & B Niemec
  - Nutritional Support for the Post-Op Joint Sx Patient: C Villaverde & R Palmer
  - Why Nutrition in the General Practice: R Lumbis & G Takashima
  - Feline Diabetes Mellitus and Nutrition: C Villaverde & S Little
  - Nutrition in Feline Liver Disorders: M Chandler & A Harvey
  - What to Feed in Chronic GI Dz: M Chandler & M Willard
  - Nutrition in the Critical Care Patient: C Villaverde & A Boag
  - Nutrition & Feline Cystitis: C Villaverde & S Little
  - Nutrition in Dermatological Disorders: P Forsyth
  - Raw Foods: Good, Bad or Ugly? Panel Discussion
4. I Simposio de Nutrición-AVEPA (I Nutrition Symposium AVEPA), Barcelona, Spain. June 13th-14th, 2015. C Villaverde
  - Dietas alternativas (crudas, vegetarianas, sin cereales), en la alimentación de perros y gatos ¿ciencia o moda? (Alternative diets (raw, vegetarian, grain free) in canine and feline diets: science or fad?)
  - FLUTD: actualización de tratamiento médico y nutricional basado en la evidencia (FLUTD: evidence based update on medical and nutritional treatment)
5. European College of Veterinary Internal Medicine: Malnutrition in hospitalised cats and dogs: modeling of risk factors by C Villaverde. September 2015
6. September 2015: Presented nutritional evaluation guidelines and toolkit to senior veterinary students in the Universidad Autónoma de México (Mexico). C Villaverde
7. October 2015: Presented nutritional evaluation guidelines and toolkit to 1st year veterinary students during a 3 hour lab at the Universitat Autònoma de Barcelona (Spain). C Villaverde
8. Fall 2015: Presented toolkit and guidelines to senior students at the Universitat Autònoma de Barcelona (Spain) during a two hour seminar regarding management of hospitalized animals with gastrointestinal disease. C. Villaverde
9. Atlantic Veterinary College on "Who's who in Pet Food?" by October 1, 2015, by Clayton MacKay.
10. Southern European Veterinary Conference, October 2015, nutrition lectures. Marge Chandler
11. FASAVA 6th Congress, Taipei Taiwan, 19 -22 November. Chinese version of GNC Toolkit presented by Ping-Chih Teng.
12. All student lectures at Tufts (nutrition courses/lectures for 1st and 3rd year students, nutrition rounds for 4th year students) by Dr Lisa Freeman.
13. Quantitative assessment of muscle in dogs using ultrasound 8th Cachexia Conference taking place in Paris, 4-6 December 2015.




FASAVA  
6th  
Congress  
Taipei  
Taiwan

## Current Project Developments:


1. 2 year study on nutritional awareness in UK: (Being finalized)



- Nutritional awareness survey during Cape Town Congress: (Finalized and distributed)
- Translations of Toolkit into **Chinese**: (**Completed** and being uploaded to website)
- Translations of Toolkit into **Spanish**: (**Completed** and being uploaded to website)
- Study of Nutritional Awareness among veterinarians and public in Bangalore, India: (In progress)
- Myths & FAQ Tool: (In progress)
- GNC & One Health conference on Obesity: (Being finalized)
- Muscle Condition Score (MCS) Video: (In collaboration with Clinicians Brief, in progress)
- Clinician Brief Column "Nutrition in Disease" Series (initiated, in progress, first article due out February 2016: "Nutrition in Cardiac Disease")
- WSAVA Outreach programs on Nutrition: (in progress)
- Increase dissemination of Guidelines and Toolkit information through sponsor channels (to do)
- Nutrition Track for Cartegena 2016 (finalizing, including Spanish presentations)
  - Nutritional Assessment Case Studies (Lisa Weeth & Gregg Takashima)
  - Dental Disease and Diet (Brook Niemec & Marge Chandler)
  - GI Disease and Nutrition (Fred Gaschen & Lisa Weeth)
  - Feline Chronic Kidney Dz and Diet (Jessica Quimby & Cecilia Villaverde)
  - Dermatology and Diet (Valerie Fadok & Cecilia Villaverde)
  - IBD and Nutrition (Tona Melgarego & Marge Chandler)
  - Alternative Diets: Good, Bad or Depends (A panel discussion)



# Global Nutrition Committee



## Evaluación Nutricional

**A completar por el propietario. Por favor, responde las siguientes preguntas sobre su mascota.**

día de la mascota \_\_\_\_\_ Esperanza \_\_\_\_\_ Edad \_\_\_\_\_  
 día del propietario \_\_\_\_\_ Fecha en que se rellena el formulario \_\_\_\_\_

☒ **Muy activa**    ☐ **Actividad moderada**    ☐ **No muy activa**  
☐ **Cómo describe al peso de su mascota?**    ☐ **Sobrepeso**    ☐ **Peso ideal**    ☐ **Poco peso**  
☐ **Dónde pone su mano en mayor parte del tiempo? Interior**    ☐ **Exterior**    ☐ **Interior y exterior**  
 si/yes, indique sus marcas o medidas de presión (o su equivalencia) las categorías de TGOOS los alertamos, anemia, proteínas producidas y hígado dental, y evaluarlo otro forma es decir comando su mascota, incluyendo los que utiliza para administrar medicamentos.

nombre animal	Alimento	*Cantidad	Número	Administrador de
especie:				
raza:	sexo	kg gramos	Zubida	Frecia 2010
edad:	alim	las horas	la semana	Marzo 2011
el tipo de alimento	dieta			Agosto 2012
enfermedad dental	precio		cada día	Enero 2013

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calcular las raciones por volumen, ¿qué tipo de medida utilizó?