



The European Pet Food Industry

PARNUTs Task Force

PMFA Session
ESVCN Congress
September 2017

PARNUTs
Background and where we are

Outline



- **PARNUTs definitions**
- **Examples of PARNUTs ‘dietetic’ pet food**
- **Need to update the regulation**
- **FEDIAF PARNUTs Revision Task force work and outcomes**
- **First amendments and perspectives**

What is a “PARNUT” ?

(definitions from Directive 2008/38)



“PARticular NUTritional purpose” (PARNUTs)

To meet the **specific nutritional needs** of animals whose process of **assimilation, absorption** or **metabolism** is, or could be, **temporarily** or **irreversibly** impaired and which can benefit from ingestion of the feed appropriate to their condition

“Feedingstuffs for particular nutritional purposes”

- can **satisfy** a particular nutritional purpose by:
 - particular composition, or
 - particular method of production, and
 - are easily distinguishable from ordinary feed or medicated feed



Marketing of feed intended for particular nutritional purposes (Regulation 767/2009)



Feed intended for particular nutritional purposes may only be marketed as such if its intended use is included in the **list of intended uses** and if it meets the essential nutritional characteristics for the respective particular nutritional purpose set forth in that list.



PARNUTs relevant to dogs and cats



1. Support of renal function in the case of chronic renal insufficiency
2. Dissolution of struvite stones
3. Reduction of struvite stone recurrence
4. Reduction of urate stones formation
5. Reduction of oxalate stones formation
6. Reduction of cystine stones formation
7. Reduction of ingredient and nutrient intolerances
8. Reduction of acute intestinal absorptive disorders
9. Compensation for maldigestion
10. Support of heart function in the case of chronic cardiac insufficiency
11. Regulation of glucose supply (*Diabetes mellitus*)
12. Support of liver function in the case of chronic liver insufficiency
13. Regulation of lipid metabolism in the case of hyperlipidaemia
14. Reduction of iodine levels in case of hyperthyroidism
15. Reduction of copper in the liver
16. Reduction of excessive bodyweight
17. Nutritional restoration, convalescence
18. Support of skin function in the case of dermatosis and excessive loss of hair
19. Support of the metabolism of joints in the case of osteoarthritis
20. Stabilisation of water and electrolyte balance to support the physiological digestion



PARNUTs: a distinct category



Ordinary pet food

Healthy Animals

Regular nutritional needs (growth, adulthood)

Provides nutrition

PARNUTs

Animals with impaired metabolism

Particular needs

Provides adapted nutrition

Medicated pet food

Sick animals

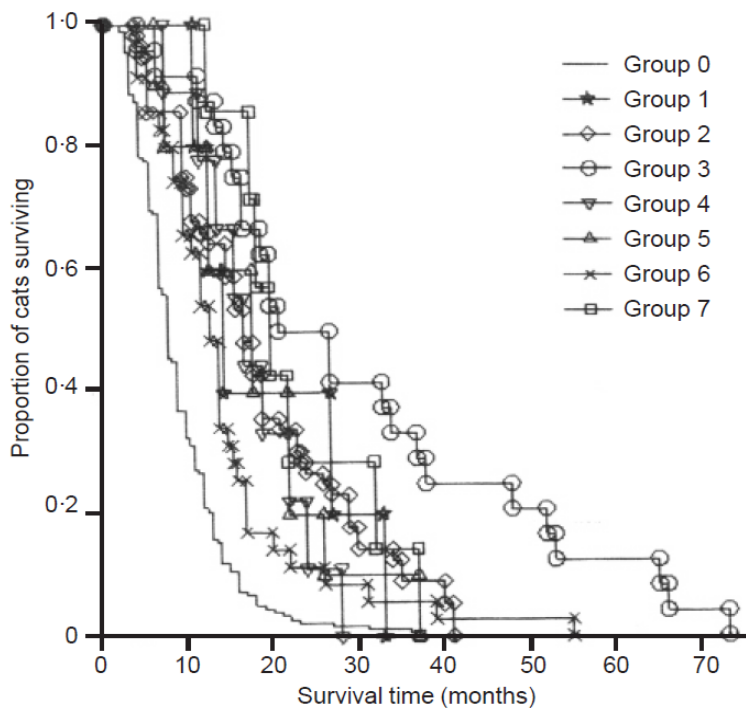
Contains Drugs

Prevents, treats or cures the disease

Renal Pet food with a particular composition



Plantinga et al., 2005	1	2	3	4	5	6	7	FEDIAF
Protein (g/1000 kcal)	52.7	54.8	52.7	53.1	62.3	49.4	53.6	62.5/83.3
Phosphorous (g/1000 kcal)	0.8	1.0	0.8	0.9	1.4	0.7	0.9	1.25/1.67



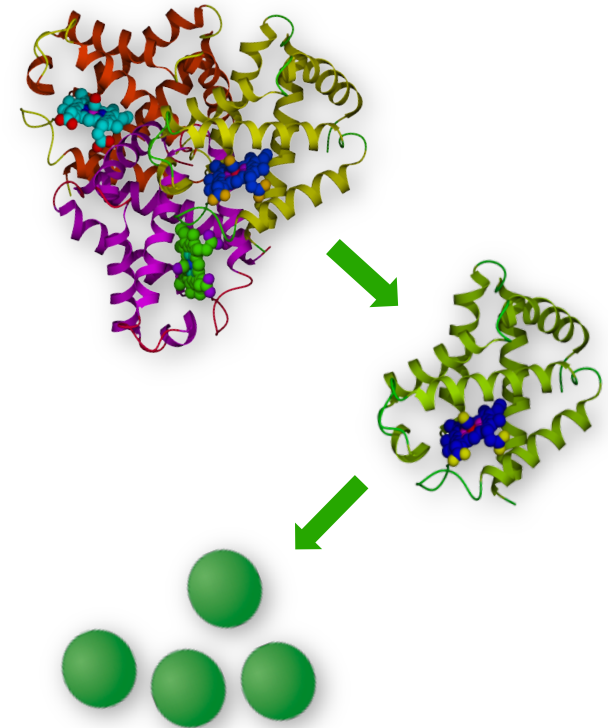
* Plantinga et al., 2005. Retrospective study of the survival of cats with acquired chronic renal insufficiency offered different commercial diets. *Veterinary Record* (2005) 157, 185-187.



Gastrointestinal pet food with a particular method of production



- Reduced number of protein sources
- Can contain hydrolysed protein sources
- Molecular weight of proteins is lower than a typical pet food



History of PARNUTs



1993

- **93/74** “PARNUTs directive”
- **94/39** “directive establishing a list of PARNUTs”
- **2008/38** “directive establishing a list of PARNUTs”
- **767/2009** “Placing on the market and use of feed” regulation

PARNUTs legislation :

20 years of enforcement : PARNUTS are useful

20 years of scientific developments : need to refresh the 17 historical entries

- **2012** : “FEDIAF PARNUTs revision Task Force” is created
- **2014** : 3 first amendment published in EU OJ



PARNUTs regulation: an updatable list



“Directive 2008/38”

- Feed operators can submit a dossier to the competent authority to add a new PARNUT to the list
- EU Commission publishes a regulation to update the list



Why is there a need for an update of historical entries ?



PARNUTs legislation :

- 20 years of enforcement
 - PARNUTs are useful
- 20 years of scientific developments
- 20 years of innovation in pet food production
 - Need to refresh



The request from EU Commission: FEDIAF to submit dossiers with threshold values for essential nutritional characteristics



From:

« Low level of phosphorus and restricted level of protein but of high quality »

To:

« High quality proteins and restricted levels of phosphorus **maximum 5 g/kg** complete pet food with a moisture content of 12 % and crude **protein maximum 220 g/kg** complete pet food with a moisture content of 12 % »



Scope of the revision: the 17 “historical PARNUTs”



1. Support of renal function in the case of chronic renal insufficiency
2. Dissolution of struvite stones
3. Reduction of struvite stone recurrence
4. Reduction of urate stones formation
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20. Stabilisation of water and electrolyte balance to support the physiological digestion



Directive 2008/38 EC

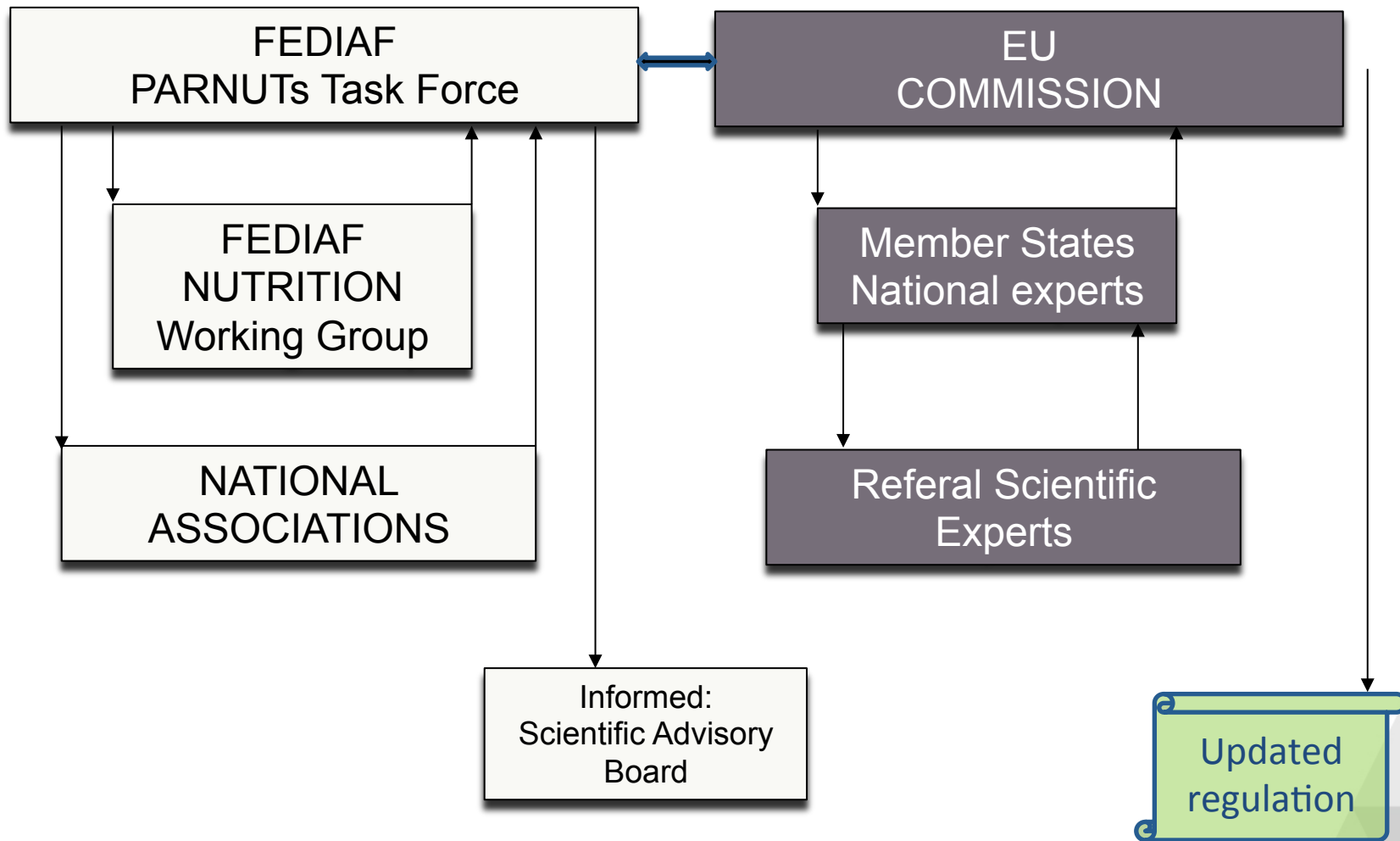
Example of Renal PARNUT before revision



Particular nutritional purpose	Essential nutritional characteristics	Species or category of animal	Labelling declarations	Recommended length of time	Other provisions
Support of renal function in case of chronic renal insufficiency	Low level of phosphorus and restricted level of protein but of high quality	Dogs and cats	<ul style="list-style-type: none">— Protein source(s)— Calcium— Phosphorus— Potassium— Sodium— Content of essential fatty acids (if added)	Initially up to 6 months	Indicate on the package, container or label: 'It is recommended that a veterinarian's opinion be sought before use or before extending the period of use.' Indicate in the instructions for use: 'Water should be available at all times.'



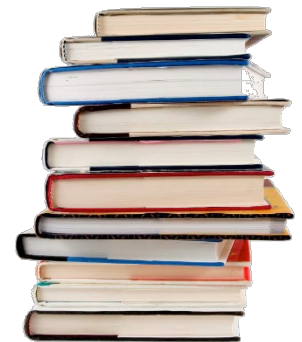
Process of updating PARNUTs



Scientific review of nutrition and renal disease dogs and cats



- Reviewed and submitted analysis of 9 (cat) and 15 (dog) scientific studies considered pertinent at time of dossier submission
- Provided epidemiological background to the risk and impact of nutrition on the condition
- Provided follow up Q+A in response to member state review



Directive 2008/38 EC

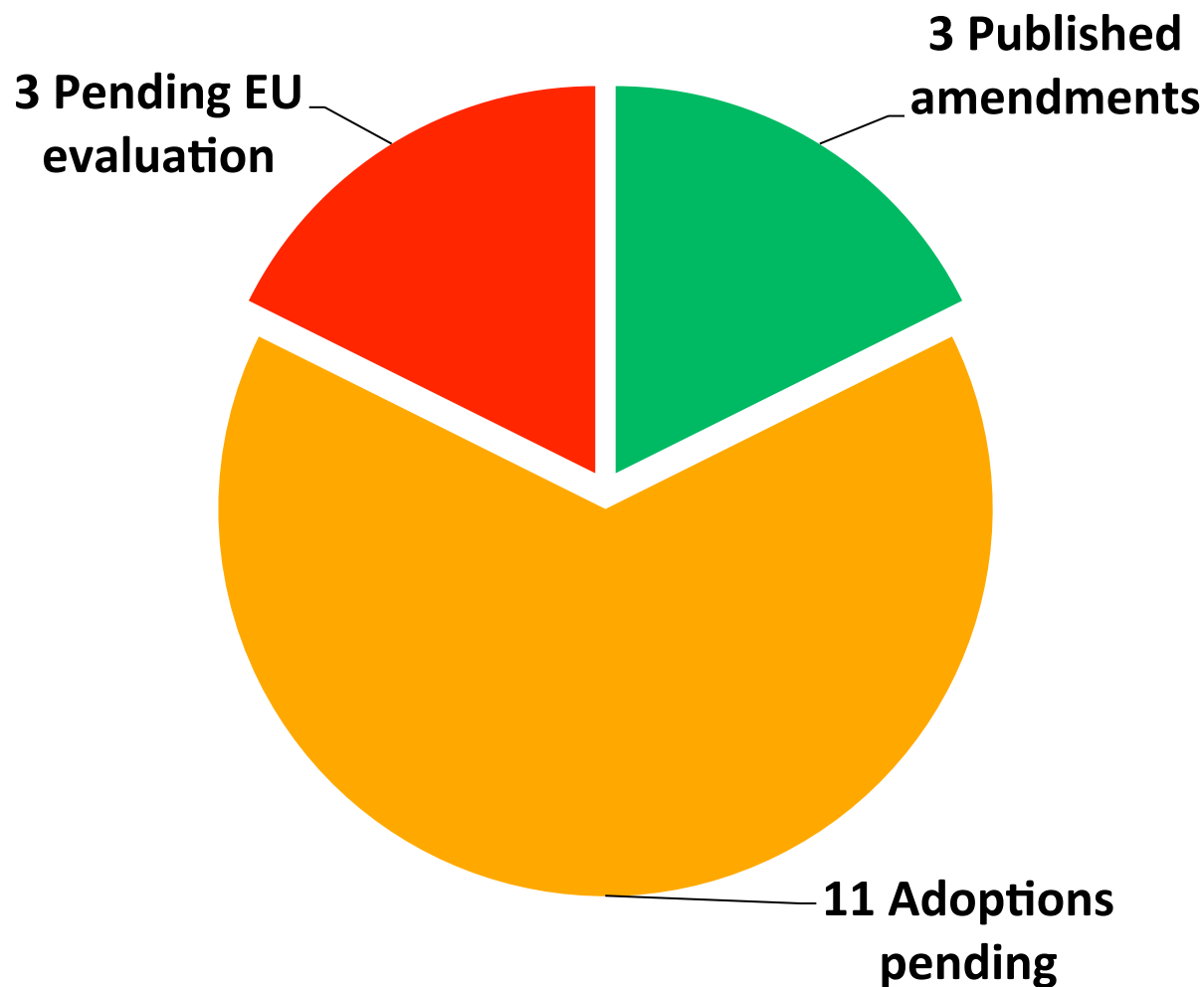
Example of Renal Function after revision



Particular nutritional purpose	Essential nutritional characteristics	Species or category of animal	Labelling declarations	Recommended length of time	Other provisions
Support of renal function in case of chronic renal insufficiency	High quality proteins and restricted levels of phosphorus maximum 6,2 g/kg complete pet food with a moisture content of 12 % and crude protein maximum 320 g/kg complete pet food with a moisture content of 12 %	Cats	<ul style="list-style-type: none"> — Protein source(s) — Calcium — Phosphorus — Potassium — Sodium — Content of essential fatty acids (if added) 	Initially up to 6 months	<ul style="list-style-type: none"> — The feed shall be placed on the market as complete feed. — Recommended digestibility of proteins: minimum 85 %. — Indicate on the labelling: “It is recommended that advice from a veterinarian be sought before use and before extending the period of use.” — Indicate in the instructions for use: “Water should be available at all times.”



Where are we in the process?



Scope of the revision: the 17 “historical PARNUTs”



Support of **renal** function in the case of chronic renal insufficiency

Dissolution of **struvite** stones

Reduction of **struvite** stone recurrence

Reduction of **urate** stones formation

Reduction of **oxalate** stones formation

Reduction of **cystine** stones formation

Reduction of ingredient and **nutrient intolerances**

Reduction of acute intestinal **absorptive disorders**

Compensation for **maldigestion**

Support of heart function in the case of **chronic cardiac insufficiency**

Regulation of glucose supply (***Diabetes mellitus***)

Support of liver function in the case of **chronic liver insufficiency**

Regulation of lipid metabolism in the case of **hyperlipidaemia**

Reduction of copper in the **liver**

Reduction of excessive **bodyweight**

Nutritional restoration, **convalescence**

Support of skin function in the case of **dermatosis** and excessive loss of hair



Some take home points



- PARNUTs legislation in Europe provides a clear framework to this specific category of pet food
- One of the most advanced regulation in the world on this topic



- For the benefit of cats and dogs with impaired metabolism



