

## Tube Feeding Diets for Dogs and Cats

<b>Table 1. Moist homogenized commercial diets used for tube feeding dog and cats: esophagostomy, or gastrostomy tubes</b>							
<b>Product</b>	<b>Kcal per ml</b>	<b>% kcal protein</b>	<b>% kcal carb</b>	<b>% kcal fat</b>	<b>n-6:n-3 ratio</b>	<b>suitable for</b>	<b>Tube size</b>
<b>Prescription Diet A/D (Hill's)</b> Isosmolar Lactose free Fiber 1.3% DMB Adequate taurine	1.2	35	12	53	2:1	feline pancreatitis not canine pancreatitis	18F +
<b>1 can Prescription Diet A/D (Hill's) + 25 ml water</b> Isosmolar Lactose free Fiber 1.3% DMB Adequate taurine	1.0	35	12	53	2:1	feline pancreatitis not canine pancreatitis	12F +
<b>Prescription Diet A/D mixed 1:1 with water</b> Isosmolar Lactose free Fiber 1.3% DMB Adequate taurine	0.6	35	12	53	2:1	feline pancreatitis not canine pancreatitis	8F +
<b>2 cans Prescription Diet A/D + 1 can Feline Clinicare</b> Isosmolar Lactose free Fiber 0.9% DMB Adequate taurine	1.1	33	17	50	n/a	feline pancreatitis not canine pancreatitis	12F +
<b>Maximum Calorie (Iams/Eukanuba)</b>	2.1	31	15	54	5:1	feline pancreatitis not canine pancreatitis	18F +
<b>Recovery Formula (Iams/Eukanuba)</b> Isosmolar Lactose free Fiber 1.6% DMB Adequate taurine	2.1	29	66	5	n/a	feline pancreatitis canine pancreatitis	18F +

**Table 2. Liquid polymeric commercial diets used for tube feeding dog and cats: nasoesophageal, esophagostomy, or gastrostomy tubes**

<b>Product</b>	<b>Kcal per ml</b>	<b>% kcal protein</b>	<b>% kcal carb</b>	<b>% kcal fat</b>	<b>n-6:n-3 ratio</b>	<b>suitable for</b>	<b>Tube size</b>
<b>CliniCare Canine (Abbott)</b> Isosmolar Lactose free Fiber free Taurine 88 mg/ml	1	20	25	55	6:1	not canine pancreatitis	5F +
<b>CliniCare Feline (Abbott)</b> Isosmolar Lactose free Fiber free Adequate taurine	1	30	25	45	6:1	feline pancreatitis	5F +
<b>CliniCare RF Feline (Abbott)</b> Isosmolar Lactose free Fiber free Adequate taurine	1	22	21	57	6:1	feline pancreatitis	5F +
<b>Concentration Instant Diet Canine (Waltham/Pedigree)</b>	1.5	30	25	37	n/a	not canine pancreatitis	5F +
<b>Concentration Instant Diet Feline (Waltham/Pedigree)</b>	1.3	37	15	48	n/a	feline pancreatitis	5F +
<b>Ensure HN (Ross)</b>	1.1	22	53	25	n/a	feline pancreatitis not canine pancreatitis	5F +
<b>Immun-Aid (McGaw)</b> Protein source: lactalbumin, L-arginine, BCAA, nucleic Acid Hyperosmolar (460 mosmol/kg) Lactose free Fiber free Taurine 200 mg/L (low)	1.0	32	48	20	n/a	feline pancreatitis not canine pancreatitis	???
<b>Impact (Sandoz)*</b> Protein source: L-arginine, Na and Ca caseinates Isotonic Lactose free Fiber free Taurine free	1	22	53	25	n/a	feline pancreatitis not canine pancreatitis	8F +
<b>Jevity (Ross)*</b> Protein source: Na and Ca caseinates Isotonic lactose free fiber 14.4 g/L taurine 114 mg/L (low)	1.1	17	54	29	n/a	feline pancreatitis** not canine pancreatitis	8F +

**Table 2 (cont'd). Liquid polymeric commercial diets used for tube feeding dog and cats: nasoesophageal, esophagostomy, or gastrostomy tubes**

Product	Kcal per ml	% kcal protein	% kcal carb	% kcal fat	n-6:n-3 ratio	suitable for	Tube size
<b>OsmoliteHN (Ross)*</b> Protein source: soy protein, Na and Ca caseinates Isotonic Lactose free Fiber free Taurine 114 mg/L (low)	1.1	17	54	29	n/a	feline pancreatitis** not canine pancreatitis	5F +
<b>Pulmocare (Ross)</b>	1.5	17	28	55	n/a	feline pancreatitis** not canine pancreatitis	8F +
<b>Sustacal (Mead Johnson)</b>	1	24	55	21	n/a	feline pancreatitis not canine pancreatitis	8F +
<b>Traumacal (Mead Johnson)*</b> Protein source: Na and Ca caseinates Hyperosmolar (490 mosm/kg) Lactose free Fiber free Taurine free	1.5	22	38	40	nab	feline pancreatitis not canine pancreatitis	???
<b>Vitaneed (Sherwood)*</b> Protein source: pureed beef, Na and Ca caseinates Isotonic Fiber 8 g/L Taurine free	1.0	16	48	36	n/a	feline pancreatitis not canine pancreatitis	???

= not available

\*Human formulas are low and taurine, and if used for cats, 250 mg taurine per 8 ounces should be added

\*\* not suitable for cats long term (low protein); can add protein (see Table 4)

**Table 3. Liquid monomeric commercial diets used for tube feeding dog and cats: naso-esophageal, esophagostomy, gastrostomy or jejunostomy tubes**

Product	Kcal per ml	% kcal protein	% kcal carb	% kcal fat	n-6:n-3 ratio	suitable for	tube size
<b>Peptamen (CliniTec)</b> Protein source: hydrolyzed whey protein isosmolar lactose free fiber free taurine 130 mg/ml	1	16	51	33	nab.	feline pancreatitis** not canine pancreatitis	5F +
<b>Perative (Ross)*</b> Protein source: partially Hydrolyzed Na caseinate, Lactalbumin hydrolysate Hyperosmolar (425 mosmol/kg) Lactose free Fiber free Taurine 130 mg/ml	1.3	20	55	25	nab.	feline pancreatitis** not canine pancreatitis	5F +
<b>Travasorb HN (Clintec)*</b> Protein source: hydrolyzed lactalbumin Hyperosmolar (560 mosmol/kg) Lactose free Fiber free Taurine free	1.0	18	70	12	nab.	feline pancreatitis** canine pancreatitis	???
<b>Vital HN (Ross)*</b> Protein source: partially hydrolyzed whey, meat, soy, L-amino acids Hyperosmolar (500 mosm/kg) Lactose free Fiber free Taurine free	1	17	74	9	nab.	feline pancreatitis** canine pancreatitis	5F +
<b>Vivonex TEN (Sandoz, Norwich Eaton)*</b> Protein source: crystalline amino acids hyperosmolar (630 mosmol/kg) lactose free fiber free taurine free	1	15	83	2	nab.	feline pancreatitis** canine pancreatitis	5F +

nab. = not available

\* Human formulas are low and taurine, and if used for cats, 250 mg taurine per 8 ounces should be added

\*\* not suitable for cats long term (low protein); can add protein (see Table 4)

**Table 4. Protein modules to increase protein content of liquid diets**

<b>Product</b>	<b>tube size</b>
Promod (Ross)	5F +
Pro-Magic (Animal Nutrition Laboratories)	5F +

Add 15-30 g casein or whey powder to 8 ounces of liquid diet.  
Human formulas are low in taurine, and if used for cats, 250 mg taurine per 8 ounces should be added

**Table 5. Recipe for liquid diet for jejunostomy tube or trickle feeding into E-tube or G-tube in cats with pancreatitis**

One package Vital low-fat elemental diet (Ross)  
 355 ml water  
 2 tablespoons Promod (protein product - Ross)  
 500 mg arginine  
 500 mg taurine  
 350 mg choline if hepatic lipidosis  
 1-2 ml liquid vitamin B supplement

Final solution is 0.87 kcal/ml  
 Solution is hyperosmolar, and can sometimes cause diarrhea

**Dr. Kathy Michel, U Penn VH**

**Table 6. Custom feline/canine tube feeding diet, using any canned commercial food**

1 can (11-13 oz.) of commercial canned cat or dog food  
 ¾ cup tap water  
 Any other nutrients indicated for the individual

1. Put all of the ingredients in a blender and run at the fastest cycle
2. Pour the food through a kitchen strainer to prevent plugging of the 12 Fr + tube

**Tom Smith, ACVIM**

**Table 7. Custom feline tube feeding diet, using any canned commercial food**

3 cans (5.5 oz each) of commercial canned cat food  
8 oz tap water  
2 oz vegetable oil  
16 mEq potassium gluconate.  
Any other nutrients indicated for the individual

1. Put all of the ingredients in a blender and run at the fastest cycle
2. Pour the food through a kitchen strainer to prevent plugging of the 12 Fr + tube
3. Feed each cat 45-50 ml/kg daily.

**Gary Norsworthy, ABVP**