Calculation of Energy Requirement Worksheet

Use the following sample worksheet to step through the calculation process.

Name:		Species/Breed:			
Age:		BCS (9-point scale): / 9			
Weight: MCS: normal			nild wasting 🗌 moo		
STEP 1: Identify Patient's	Body Condition	Score (BCS)			
Use the table below to sel	ect and record th	ne % lean mass m	nost applicable to		
	BCS	% BODY FAT	% LEAN MASS		
	1/9	0	100		
	2/9	5	95		
	3/9	10	90		
	4/9	15	85		
	5/9	20	80		
	6/9	25	75		
	7/9	30	70		
	8/9	35	65		
	9/9	40	60		

STEP 3: Calculate Patient's Resting Energy Requirement (RER)

____ kg = ____ kg x ____ % / 0.8

RER (kcal/day) = 70 x (ideal weight) $^{0.75}$

_____ kcal/day = 70 x (_____ kg)^{0.75}

STEP 4: Identify Daily Energy Requirement Key Nutritional Factor

Use the tables below to select and record the **factor** most applicable to this patient: _____

FOR WEIGHT GAIN **FOR GROWTH** FOR LACTATION FOR OTHER **Based on current** Weight gain < 4 months 3.0 1 puppy 3.0 Intact 1.8 energy intake Light work 2.0 > 4 months 2.0 2 puppies 3.5 Neutered 1.6 Inactive / Moderate work 3.0 3-4 puppies 4.0 1.4 obese prone Heavy work 5-6 puppies Weight loss 4.0-8.0 5.0 1.0 **1.8** (first 42 days); Gestation 7-8 puppies 5.5 Critical care 1.0 **3.0** (last 21 days) 9+ puppies 6.0

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FOR WEIGHT GAIN		FOR LACTATION		FOR OTHER	
Critical care	1.0	Week 1-2	RER + 30% per kitten	Intact	1.4
Weight gain	Based on current energy intake	Week 3	RER + 45% per kitten	Neutered	1.2
Gestation	1.6 (gradual change to 2.0 at parturition)	Week 4	RER + 55% per kitten	Active adult	1.6
Growth	2.5	Week 5	RER + 65% per kitten	Inactive / obese prone	1.0
		Week 6	RER + 90% per kitten	Weight loss	0.8

STEP 5: Calculate Patient's Daily Energy Requirement (DER)

DER (kcal/day) = DER Factor x RER

_____ kcal/day = _____ x ____ kcal/day

STEP 6: Determine Caloric Density of Recommended Diet

Diet:

kcal/cup or kcal/can = _____

STEP 7: Calculate Patient's Daily Energy Requirement (DER)

Amount to Feed (cup or can) = DER / Caloric Density (kcal/cup or kcal/can)

_____(cup) = _____ kcal/day / _____ (kcal/cup)

OR

_____ (can) = ____ kcal/day / ____ (kcal/can)

STEP 8: Subtract for Treats, if Necessary (Optional)

Up to 10% of calories can consist of unbalanced foods (e.g., treats).

Calories to come from Recommended Diet:

Diet (kcal/day) = $0.9 \times DER$

_____ kcal/day = 0.9 x _____ kcal/day

Repeat step six to determine amount to feed

Calories to Come from Treats:

Treats (kcal/day) = 0.1 x DER

_____ kcal/day = 0.1 x _____ kcal/day