

Canine separation-related behaviour at six months of age: Dog, owner and early-life risk factors identified using the ‘Generation Pup’ longitudinal study

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Table S1. Recategorisation of categories of questions from the Generation Pup questionnaires for univariate and multivariate statistical analysis (variables which reached $P < 0.200$ shown)

Variable name/question	Questionnaire/ Time-point	Original categories in Generation Pup	New Variable Name	Categories used for analysis
My puppy is a/an	About My Puppy	List of dog breeds presented to owners	Dog Breed	<ul style="list-style-type: none"> • Crossbreeds • Labrador Retriever • Other pure breeds
Derived Kennel Club classification from breed names	About My Puppy	None and Unknown Working Pastoral Hound Terrier Utility Toy Gundog	Kennel Club Group	<ul style="list-style-type: none"> • None and Unknown • Working, Hound, Terrier, Utility and Toy • Pastoral • Gundog
I am aged...	About Me	16-24 years 25-34 years 35-44 years 45-54 years 55-64 years 65 years and older Prefer not to state	Owner Age	<ul style="list-style-type: none"> • 16-34 years • 35 years and older

My marital status is...	About Me	Single Common law partnered/Co habiting Married Civil partnered Divorced/Sep arated Widowed Prefer not to state	Marital Status Combined	<ul style="list-style-type: none"> • Single & Widowed • Common Law • Married & Civil Partnered • Divorced/Separated
I live in a...	About My Household	City or urban area Suburban area Village or small town Rural area (such as small village or hamlet) In a remote/isolated area Other	Home Location Combination	<ul style="list-style-type: none"> • City or urban area • Suburban area • Village or small town or • Rural or remote
The longest period that my puppy has been left at home without human company (during the day/evening or night) was...	≤16 weeks	Less than 1 hour One or more hours but less than three hours Three or more hours but less than six hours Six or more hours I don't know	Maximum Period Left at ≤16 weeks combination	<ul style="list-style-type: none"> • Not Left Alone • Less than 1 hour • One or more hours but less than three hours • Three or more hours but less than six hours and • Six or more hours
The type of enclosed space used for my puppy was...	≤16 weeks	A crate or indoor kennel A utility room or kitchen area which may be shut off from the rest of the house A garage/out-building	Type of Enclosed Space Combination at ≤16 weeks	<ul style="list-style-type: none"> • Not enclosed • Any crate experience • Other (e.g. utility room or kitchen area only, play pen, area of house sectioned off by gate etc)

		An outdoor kennel Other (please specify)		
I have used an enclosed space for my puppy...	≤16 weeks	To make sure he/she had a safe space To separate him/her from other household pets To keep him/her calm/quiet To keep him/her still if he/she has been naughty To house train him/her Other (please specify)	Reason Enclosed at ≤16 weeks	<ul style="list-style-type: none"> • Not enclosed • Calm and/or safe only (plus sleep only) and house train • Different combinations but include separate from others or keep still if naughty
My puppy goes in the enclosed space...	≤16 weeks	Occasionally Regularly, in the day, for less than 3 hours total Regularly, in the day, for 3 or more hours in total Overnight	Frequency Enclosed at ≤16 weeks day/night	<ul style="list-style-type: none"> • Not enclosed • Day Only (not mention overnight) • Combinations of time but experience of being enclosed overnight
My puppy sleeps during the night-time for a total of approximately	≤16 weeks	Owner entered maximum number of hours	Maximum Hours Sleep at Night at ≤16 weeks	<ul style="list-style-type: none"> • 6 hours to 8 hours • 9 hours • 10 hours and over • Unspecified
My puppy sleeps during the night-time for a total of approximately	≤16 weeks	Owner entered minimum number of hours	Minimum Hours Sleep at Night at ≤16 weeks	<ul style="list-style-type: none"> • 0 hours - 4 hours • 5 hours • 6 hours • 7 hours • 8 hours or more • Unspecified
My puppy sleeps during the day-time for a total of	≤16 weeks	Owner entered maximum number of hours	Maximum Hours Sleep During the Day at ≤16 weeks	<ul style="list-style-type: none"> • 2 hours - 3 hours • 4 hours • 5 hours • 6 hours • 7 hours and over

approximately				<ul style="list-style-type: none"> • Unspecified
At the moment, my puppy is settled to sleep at night...	≤16 weeks	<p>By having him/her in a bedroom with human company</p> <p>By sleeping in another room in the house with him/her (for example sleeping in the living room)</p> <p>By waiting for him/her to be asleep before going to bed in a different room</p> <p>By leaving him/her in a room/area without human company</p> <p>By leaving him/her in an outbuilding (for example kennel, stable)</p>	Method of settling at ≤16 weeks combination	<ul style="list-style-type: none"> • Sleeping in room • (By having him/her in a bedroom with human company) • By sleeping in another room in the house with him/her (for example sleeping in the living room) • By waiting for him/her to be asleep before going to bed in a different room) • Leaving Alone • (By leaving him/her in a room/area without human company) • By leaving him/her in an outbuilding (for example kennel, stable)
At night my puppy sleeps...	≤16 weeks	<p>In a kennel/crate</p> <p>On a dog bed</p> <p>On a chair/other furniture</p> <p>On a person's bed</p> <p>On the floor</p> <p>Other (please specify)</p>	Sleep Location at ≤16 weeks combination	<ul style="list-style-type: none"> • Anything not including kennel/crate or person's bed (on a dog bed, on a chair/furniture, on the floor) • Kennel/crate plus other locations • Kennel/crate only • Person's bed mentioned (with/without other locations)
My puppy's housetraining...	≤16 weeks	Is complete, my puppy no longer has	Housetraining Progression	<ul style="list-style-type: none"> • Zero to three accidents a week

		any accidents indoors Is ongoing, and there are fewer than four accidents a week Is ongoing, but there are still four or more accidents per week	at ≤16 weeks combination	<ul style="list-style-type: none"> • Is ongoing, but there are still four or more accidents per week
I am training, or want to train my puppy to toilet by...	≤16 weeks	Taking/letting him/her outside regularly Telling him/her off when he/she toilets inside Praising him/her when he/she toilets in the correct place Using puppy pads/newspapers on the floor to show areas where he/she may toilet I haven't started this training yet Other (please specify)	House Train Method at ≤16 weeks combination	<ul style="list-style-type: none"> • Taken out regularly and/or praised • Telling off mentioned and/or praise not mentioned
At the party/class, I was given information or shown how to...	≤16 weeks	Given information about this, but NOT shown how to do this Shown how to do this, but NOT given separate information about this	Puppy Training Class House Training Info at ≤16 weeks Combination	<ul style="list-style-type: none"> • No classes • Given information about this, but NOT shown how to do this • Shown how to do this, AND/OR given separate information about this • This was not covered

		Shown how to do this AND given separate information about this This was not covered		
When training my puppy to do a new behaviour, I use the following rewards...	≤16 weeks	Verbal praise (for example 'good boy/girl') Physical praise (for example pat/stroke/cuddle) A toy A ball A clicker Some of his/her normal dog food A dog food other than his/her own kibble/biscuit Dog food treats Human food (for example cheese/sausage) None/no other rewards are used Training not started Other (please specify)	Training Reward – Kibble or dog food treat at ≤16 weeks	<ul style="list-style-type: none"> • No use of kibble and/or dog food treats • Kibble and/or dog food treats
When correcting my puppy for doing something wrong, I would...	≤16 weeks	Tell him/her off Use a physical reprimand/correction (for example smack or tap him/her on	Correction Method at ≤16 weeks combination	<ul style="list-style-type: none"> • Move away, withhold treats, ignore, don't use anything, other(e.g. Show him/her correct behaviour, redirect behaviour) • Tell off, physical, distraction,

		nose or bottom) Distraction (for example rattle can/loud noise/water spray) Withhold treats Ignore him/her Use physical manipulation (for example putting him/her into a sit or pushing him/her if he/she jumps up) Hold him/her still I don't use anything Other (please specify)		manipulation, hold still (may use response categories too (e.g. move away, ignore etc)
In total, the number of nights my puppy has been separated from me, and all household members (if applicable) since he/she came to live with me is...	6 months	Not stayed away One night 2-5 nights 6-10 nights 11-15 nights More than 15 nights I don't know/can't remember	Nights separated at six-months combination	<ul style="list-style-type: none"> • Not stayed away • One to five nights • 6-10 nights • 11 or more nights
In general, during the last seven days, when I/we were relaxing at home with my puppy and he/she behaved in a way that I/we would like	6 months	Verbally praise him/her (for example saying 'good dog') Play with him/her Give him/her a food treat	Response to Good Behaviour when Relaxing at six-months	<ul style="list-style-type: none"> • No cuddle or stroke • Cuddle and/or stroke

him/her to, I/we would...	Ignore him/her Stroke him/her Cuddle him/her Not applicable, he/she has not generally behaved in a way I would like to encourage Other (please specify)	6 months	In general, during the last seven days, when I/we were relaxing at home with my puppy and he/she behaved in a way that I/we would NOT like him/her to, I/we would...	Tell him/her off Use a physical reprimand/co rrection (for example smack or tap him/her on nose or bottom) Distract him/her (for example rattle can/loud noise/water spray) Move away from him/her Don't give him/her treats that would normally be given at this time Ignore him/her Physically manipulate him/her (for example, hold still, put him/her into a sit or push	Response to Bad Behaviour when Relaxing at six-months	<ul style="list-style-type: none"> • ≤1 aversive techniques and no timeouts • ≤1 aversive techniques but time-outs • ≥2 aversive techniques
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		off if he/she jumps up) Play with him/her Stroke him/her Cuddle him/her Hold him/her still Encourage him/her to calm down Let him/her outside into the garden or yard Move him/her to another part of the house Not applicable, he/she has not generally behaved in a way I would like to discourage Other (please specify)		
In general, during the last seven days, when I was preparing to leave my puppy behind in the house (without human company), and she/he behaved in a way that I/we would like him/her to, I/we would...	6 months	Verbally praise him/her (for example saying 'good dog') Play with him/her Give him/her a food treat Ignore him/her Stroke him/her Cuddle him/her Not applicable, he/she has not generally	Response to Good Behaviour when Preparing to Leave Without Puppy at six-months	<ul style="list-style-type: none"> • No stroke and/or cuddle • Stroke and/or cuddle mentioned

		behaved in a way I would like to encourage Other (please specify)		
In general, during the last seven days, when I was preparing to leave my puppy behind in the house (without human company), and she/he behaved in a way that I/we would NOT like him/her to, I/we would...	6 months	<p>Tell him/her off</p> <p>Use a physical reprimand/correction (for example smack or tap him/her on nose or bottom)</p> <p>Distract him/her (for example rattle can/loud noise/water spray)</p> <p>Move away from him/her</p> <p>Don't give him/her treats that would normally be given at this time</p> <p>Ignore him/her</p> <p>Physically manipulate him/her (for example, hold still, put him/her into a sit or push off if he/she jumps up)</p> <p>Play with him/her</p> <p>Stroke him/her</p> <p>Cuddle him/her</p> <p>Hold him/her still</p>	<p>Response to Bad</p> <p>Behaviour when Preparing to Leave without Puppy at six-months</p>	<ul style="list-style-type: none"> • ≤1 aversive technique • ≥2 aversive techniques • Not applicable mentioned

		<p>Encourage him/her to calm down</p> <p>Let him/her outside into the garden or yard</p> <p>Move him/her to another part of the house</p> <p>Give him/her a food treat</p> <p>Not applicable, he/she has not generally behaved in a way I would like to discourage</p> <p>Other (please specify)</p>		
<p>In general, during the last seven days, when I was preparing to leave the house WITH my puppy (for example putting on coat, picking up keys, picking up lead or harness), and my puppy knew he/she was coming too and he/she behaved in a way that I/we would NOT like him/her to, I/we would...</p>	6 months	<p>Tell him/her off</p> <p>Use a physical reprimand/correction (for example smack or tap him/her on nose or bottom)</p> <p>Distract him/her (for example rattle can/loud noise/water spray)</p> <p>Move away from him/her</p> <p>Don't give him/her treats that would normally be given at this time</p> <p>Ignore him/her</p>	<p>Response to Bad Behaviour when Preparing to Leave with Puppy at six-months</p>	<ul style="list-style-type: none"> • No aversive techniques* • One or more aversive techniques

Physically
 manipulate
 him/her (for
 example, hold
 still, put
 him/her into
 a sit or push
 off if he/she
 jumps up)
 Play with
 him/her
 Stroke
 him/her
 Cuddle
 him/her
 Hold him/her
 still
 Encourage
 him/her to
 calm down
 Let him/her
 outside into
 the garden or
 yard
 Move
 him/her to
 another part
 of the house
 Give him/her
 a food treat
 Not
 applicable,
 he/she has
 not generally
 behaved in a
 way I would
 like to
 discourage
 Other (please
 specify)

During the last seven days, when left at home without human company my puppy was usually left...	6 months	Confined to his/her outside kennel Confined to his/her indoor kennel Outside, with free range of the garden	Left Alone Access at six-months	<ul style="list-style-type: none"> • Confined to his/her indoor crate/outdoor kennel • Restricted to one room/area of the home • With free range of house OR in the house with access to the garden/OR
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		Restricted to one room/area of the home With free range of the house In the house with access to garden Other (please specify)		outside, with free range of the garden
In general, during the last seven days, my puppy has slept...	6 months	Indoors, in a bedroom with human company Indoors, in a room without human company Outdoors, in an outbuilding (for example stable or barn) Outdoors, in a kennel or small sheltered area Other (please specify)	Sleeping Location Type at six-months	<ul style="list-style-type: none"> • Indoors, in a bedroom with human company (With human company) • Indoors, in a room without human company/Outdoors, in a kennel or small sheltered area (Without human company)
In general, during the last seven days, my puppy has slept...	6 months	On the floor On furniture (other than a bed) On a human bed In a crate/kennel On a dog bed I don't know Other (please specify)	Normal Sleeping Location at six-months	<ul style="list-style-type: none"> • Only dog bed, floor, other • Mention crate (no human bed or furniture) • Mention human bed and/or furniture
In general, during the last seven days, when I or other members of the	6 months	Verbally praise him/her (for example	Response to Good Behaviour when No	<ul style="list-style-type: none"> • No stroke and/or cuddle • Stroke and/or cuddle

<p>household were not paying attention to my puppy, and he/she behaved in a way that I/we would like him/her to, I/we would...</p>	<p>saying 'good dog') Play with him/her Give him/her a food treat Ignore him/her Stroke him/her Cuddle him/her Not applicable, he/she has not generally behaved in a way I would like to encourage Other (please specify)</p>	<p>Attention at six-months</p>		
<p>In general, during the last seven days, when I or other members of the household were not paying attention to my puppy, and he/she behaved in a way that I/we would NOT like him/her to, I/we would...</p>	<p>6 months</p>	<p>Tell him/her off Use a physical reprimand/correction (for example smack or tap him/her on nose or bottom) Distract him/her (for example rattle can/loud noise/water spray) Move away from him/her Don't give him/her treats that would normally be given at this time Ignore him/her</p>	<p>Response to Bad Behaviour when No Attention at six-months</p>	<ul style="list-style-type: none"> • ≤1 aversive techniques • ≥2 aversive techniques • Not applicable mentioned

		Physically manipulate him/her (for example, hold still, put him/her into a sit or push off if he/she jumps up) Play with him/her Stroke him/her Cuddle him/her Hold him/her still Encourage him/her to calm down Let him/her outside into the garden or yard Move him/her to another part of the house Give him/her a food treat Not applicable, he/she has not generally behaved in a way I would like to discourage Other (please specify)		
In general, during the last seven days, when my puppy was separated (for example by a closed or baby gate) from myself or another member of the	6 months	Tell him/her off Use a physical reprimand/co rrection (for example smack or tap him/her on nose or bottom)	Response to Bad Behaviour when Separated at Home at six-months	<ul style="list-style-type: none"> • ≤1 aversive techniques • ≥2 aversive techniques • Not applicable

**household
while in the
home, and
he/she behaved
in a way that
I/we would
NOT like
him/her to,
I/we would...**

Distract
him/her (for
example
rattle
can/loud
noise/water
spray)
Move away
from him/her
Don't give
him/her
treats that
would
normally be
given at this
time
Ignore
him/her
Physically
manipulate
him/her (for
example, hold
still, put
him/her into
a sit or push
off if he/she
jumps up)
Play with
him/her
Stroke
him/her
Cuddle
him/her
Hold him/her
still
Encourage
him/her to
calm down
Let him/her
outside into
the garden or
yard
Move
him/her to
another part
of the house
Give him/her
a food treat
Not
applicable,
he/she has

		not generally behaved in a way I would like to discourage Other (please specify)		
In general, during the last seven days, when my puppy had been left at home WITHOUT human company and I/we returned to the house, and he/she behaved in a way that I/we would NOT like him/her to, I/we would...	6 months	Tell him/her off	Response to Bad	<ul style="list-style-type: none"> • ≤1 aversive techniques
		Use a physical reprimand/correction (for example smack or tap him/her on nose or bottom)	Behaviour upon Return at six-months	<ul style="list-style-type: none"> • ≥2 aversive techniques • Not applicable
		Distract him/her (for example rattle can/loud noise/water spray)	Response to Bad	<ul style="list-style-type: none"> • No greet or tell off • Greet and/or tell off • No greet or tell off but not applicable
		Move away from him/her Don't give him/her treats that would normally be given at this time Ignore him/her Physically manipulate him/her (for example, hold still, put him/her into a sit or push off if he/she jumps up) Play with him/her Stroke him/her Cuddle him/her	Behaviour upon Return at six-months – 'Fuss'	<ul style="list-style-type: none"> • No play/stroke/cuddle/greet • Play/stroke/cuddle/greet • Not applicable

	Hold him/her still Encourage him/her to calm down Let him/her outside into the garden or yard Move him/her to another part of the house Give him/her a food treat Not applicable, he/she has not generally behaved in a way I would like to discourage Other (please specify)		
In the last two months I have taken my puppy to a veterinary practice	Yes No, but a vet visited my home instead/there is a vet in the household Not at all, my puppy has not seen a vet in the last two months	Vet Visit at six-months	<ul style="list-style-type: none"> • A visit of any type (Yes or No, but a vet visited my home instead/there is a vet in the household) • Not at all, my puppy has not seen a vet in the last two months

* Aversive techniques: Tell him/her off, physically reprimand/correct him/her (for example smack or tap on nose or bottom), distract him/her (for example with a rattled can/loud noise/water spray), physically manipulate him/her (for example hold still, put into a sit, or push off if he/she jumps up), hold him/her still

Table S2. Variables that reached threshold significance of $P \leq 0.200$ in univariable analysis for risk factors (n = 145).

Variable name	Categories	Reference Category	P-value	OR	CI
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Dog Breed (Combined categories)	Crossbreeds	Unknown/known breeds/crosses	0.020		
	Labrador Retriever		0.005	0.172	0.05-
	Other pure breeds		0.188	0.618	0.594-1.264
Kennel Club Group (Combined Categories)	None and Unknown	None and Unknown	0.001		
	Working, Hound, Terrier, Utility and Toy		0.900	1.055	0.457-2.433
	Pastoral		0.073	0.371	
	Gundog		0.001	0.218	0.126-1.095-0.092-0.517
Pure v Cross Breed	Pure breed	Pure breed			
	Cross breed		0.057	1.967	0.980-3.949
Owner Age	16-34 years	16-34 years			
	35 years and older		<0.001	5.349	2.025-14.126
Marital Status Combo	Single & Widowed	Single & Widowed	0.045		
	Common Law		0.395	1.76	0.479-
	Married & Civil Partnered		0.131	0.512	6.467
	Divorced/Separated		0.081	0.21	0.215-1.22-0.036-1.21
Home Location Combo Plus	City or urban area	City or urban area	0.198		
	Suburban area		0.072	0.395	0.144-
	Village or small town or Rural or remote		0.191	0.549	1.086-0.224-1.348
Maximum Period Left at ≤16 weeks	Not Left Alone	Not Left Alone	0.063		
	Less than 1 hour and		0.435	1.5	0.542-4.155
	One or more hours but less than three hours				
	Three or more hours but less than six hours and Six or more hours		0.042	2.946	1.042-8.335
Type of Enclosed Space Combo at ≤16 weeks	Not enclosed	Not enclosed	<0.001		
	Any crate experience		<0.001	0.176	0.069-
	Other		0.420	0.583	0.45-0.158-2.159
Reason Enclosed at ≤16 weeks	Not enclosed	Not enclosed	0.003		
	Calm and/or safe only (plus sleep only) and housetrain		0.001	0.195	0.076-0.505
	Diff combinations but include separate from		0.018	0.259	0.084-0.794

	others or keep still if naughty				
Frequency Enclosed at ≤16 weeks	Not enclosed	Not enclosed	<0.001		
	Day Only (not mention overnight)		0.093	0.407	0.142-1.163
	Combinations of time but experience of being enclosed overnight		<0.001	0.139	
					0.052-0.369
Maximum Hours Sleep at Night at ≤16 weeks	6 hours to 8hours	6 hours to 8 hours	0.018		
	9 hours		0.036	0.375	0.15-
	10 hours and over		0.007	0.161	0.94
	Unspecified		0.415	0.7	0.043-0.605
					0.297-1.649
Minimum Hours Sleep at Night at ≤16 weeks	0 hours - 4 hours	0 hours - 4 hours	0.068		
	5 hours		0.180	2.554	0.648-
	6 hours		0.911	1.061	10.059
	7 hours		0.275	0.546	0.375-
	8 hours or more		0.042	0.273	3.006
	Unspecified		0.789	0.867	0.184-1.619
					0.078-0.954
					0.304-2.474
Maximum Hours Sleep During the Day at ≤16 weeks	2 hours - 3 hours	2 hours - 3 hours	0.116		
	4 hours		0.184	0.457	0.144-
	5 hours		0.073	0.286	1.449
	6 hours		0.158	0.39	0.073-
	7 hours and over		0.954	0.964	1.124
	Unspecified		0.747	1.169	0.105-1.442
					0.283-3.284
					0.453-3.014
Method of settling at ≤16 weeks	Sleeping in room (By having him/her in a bedroom with human company OR By sleeping in another room in the house with him/her (for example sleeping in the living room) OR By waiting for him/her to be asleep before going to bed in a different room)	Sleeping in room			

	Leaving Alone (By leaving him/her in a room/area without human company OR By leaving him/her in an outbuilding (for example kennel, stable))		0.021	0.45	0.228-0.889
Access to People at ≤16 weeks	No Yes	No	0.008	3.136	1.343-7.324
Sleep Location at ≤16 weeks	Anything not including kennel Kennel plus something Kennel only Persons bed at all	Anything not including kennel	0.001 0.340 0.002 0.330	0.591 0.273 1.92	0.2-1.742 0.118-0.631 0.516-7.144
Housetraining Progression at ≤16 weeks	Zero to three accidents per week Is ongoing, but there are still four or more accidents per week	Zero to three accidents per week	<0.001	4.356	1.861-10.197
House Train Method at ≤16 weeks	Taken out regularly and/or praised Telling off mentioned and/or praise not mentioned	Taken out regularly and/or praised	0.107	2.164	0.846-5.531
Puppy Training Class House Training Info at ≤16 weeks	No classes Given information about this, but NOT shown how to do this Shown how to do this, AND/OR given separate information about this This was not covered	No classes	0.060 0.810 0.103 0.116	1.122 2.848 0.534	0.438-2.875 0.811-10.008 0.244-1.167
Puppy Class Run by Vet Practice at ≤16 weeks	No classes No Yes	No classes	0.082 0.029 0.273	3.327 1.483	1.132-9.779 0.733-2.999
Training Reward – Kibble or dog food treat at ≤16 weeks	No use of kibble and/or dog food treats Kibble and/or dog food treats	No use of kibble and/or dog food treats	0.003	3.529	1.521-8.189

Correction Method at ≤16 weeks	Move away, withhold treats, ignore, don't use anything, other Tell off, physical, distraction, manipulation, hold still (may use others too)	Move away, withhold treats, ignore, don't use anything, other	0.010	2.591	1.251-5.367
Experience Gunshot at six-months	Definitely No Definitely Yes I don't know	Definitely No	0.105 0.049 0.261	0.479 0.514	0.230-0.996 0.161-1.639
Experience Raised Voices at six-months	Definitely No Definitely Yes	Definitely No	0.043	1.935	1.022-3.667
Nights Separated at six-months	Not stayed away One to five nights 6-10 nights 11 or more nights	Not stayed away	0.106 0.475 0.086 0.131	1.325 2.981 0.294	0.613-2.866 0.856-10.377 0.06-1.438
Response to Good Behaviour when Relaxing at six-months	No cuddle or stroke Cuddle and/or stroke	No cuddle or stroke	0.062	3.033	0.944-9.744
Response to Bad Behaviour when Relaxing at six-months	≤1 aversive techniques ≤1 aversive techniques but time-outs ≥2 aversive techniques	≤1 aversive techniques	0.039 0.018 0.018	3 3.25	1.205-7.47 1.227-8.605
Response to Good Behaviour when Preparing to Leave Without Puppy at six-months (Includes 4 NAs)	No stroke and/or cuddle Stroke and/or cuddle mentioned	No stroke and/or cuddle	0.010	2.337	1.228-4.448
Response to Bad Behaviour when Preparing to	≤1 aversive technique ≥2 aversive techniques Not applicable mentioned	≤1 aversive technique	0.002 0.039 0.021	3.5 0.442	1.062-11.534 0.221-0.883

Leave without Puppy at six-months					
Response to Bad Behaviour when Preparing to Leave with Puppy at six-months	No aversive techniques	≤1 aversive technique	0.043	1.927	1.02-3.643
	One or more aversive techniques				
Left Alone Access at six-months	Confined to his/her indoor crate/outdoor kennel	Confined to his/her indoor crate/outdoor kennel	0.048		
	Restricted to one room/area of the home		0.018	2.31	1.156-4.615
	With free range of house OR in the house with access to the garden/OR outside, with free range of the garden		0.117	2.117	0.829-5.409
Sleeping Location Type at six-months	Indoors, in a bedroom with human company (With human company)	Indoors, in a bedroom with human company (With human company)			
	Indoors, in a room without human company/Outdoors, in a kennel or small sheltered area (Without human company)		0.013	0.432	0.223-0.837
Normal Sleeping Location at six-months	Only dog bed, floor, other	Only dog bed, floor, other	0.001		
	Mention crate (no human bed or furniture)		0.951	1.027	0.442-2.383
	Mention human bed and/or furniture		0.004	3.896	1.551-9.783
Access People at Night at six-months	No	No			
	Yes		0.148	1.624	0.841-3.135
Response to Good Behaviour when No Attention at six-months	No stroke and/or cuddle	No stroke and/or cuddle	0.04	2.19	1.036-4.627
	Stroke and/or cuddle				
Response to Bad	≤1 aversive techniques	≤1 aversive techniques	0.005		
	≥2 aversive techniques		0.003	3.516	

Behaviour when No Attention at six-months	Not applicable mentioned		0.446	0.684	1.528-8.091 0.257-1.817
Response to Bad Behaviour when Separated at Home at six-months	≤1 aversive techniques	≤1 aversive techniques	0.015		
	≥2 aversive techniques		0.111	2.708	0.796-
	Not applicable		0.033	0.44	9.211 0.207-0.936
Puppy Behavioural Problem at six-months	No	No			
	Yes		0.013	2.553	1.220-5.341
Response to Good Behaviour upon Return at six-months	No cuddle mentioned	No cuddle mentioned			
	Cuddle mentioned		0.002	2.826	1.458-5.476
Response to Bad Behaviour upon Return at six-months	≤1 aversive techniques	≤1 aversive techniques	0.003		
	≥2 aversive techniques				
	Not applicable		0.052	8.143	0.985-67.303
			0.011	0.425	0.219-0.823
Response to Bad Behaviour upon Return at six-months	No greet or tell off	No greet or tell off	0.001		
	Greet and/or tell off		0.033	2.485	1.074-
	No greet or tell off but NA		0.171	0.571	5.748 0.256-1.275
- Greet/Tell Off					
Response to Bad Behaviour upon Return at six-months	No	No	0.001		
	play/stroke/cuddle/greet	play/stroke/cuddle/greet	0.063	2.237	0.956-
	Play/stroke/cuddle/greet		0.053	0.481	5.234 0.229-1.01
- 'Fuss'					
Showing Teething at six-months	No	No			
	Yes		0.094	1.771	0.908-3.457
Vet Visit at six-months	Some visit of any type (Yes or No, but a vet visited my home instead/there is a vet in the household)	Yes			
			0.121	0.564	0.273-1.164

Not at all, my puppy has
not seen a vet in the last
two months
