

S1 Table - Overview of PCA-item loadings

Results of loadings after rotation from PCA-analysis for 32/62-PSDQ (Robinson et al., 1995) and new dog-directed parenting styles in 518 Dutch dog owning parents; presented are the loadings $\geq |0.4|$.

Item	$\mu \pm s.d.$	Authoritarian 32-items	Authoritarian 62-items	Authoritarian - correction orientated (new DD- PSDQ)	Authoritative 32-items - intrinsic	Authoritative 62-items - intrinsic	Authoritative - intrinsic value orientated (new DD- PSDQ)	Authoritative 32-items - training	Authoritative 62-items - training	Authoritative - training orientated (new DD- PSDQ)
I use a poke of my finger, or short kick to snap my dog out of it when it misbehaves. ^{AN*}	0.8±1.0	-0.6	0.6	0.7	-	-	-	-	-	-
I use short pulls on the leash or pull back when my dog pulls. ^{AN}	1.6±1.2	-	0.6	-	-	-	-	-	-	-
I allow my dog to jump up on people, as long as it is friendly. ^{PM}	0.6±0.9	-	-	-	-	-	-	-	-	-
I have good times together with my dog. ^{AV*}	3.7±0.5	-	-	-	-	-	-	-	-	-
When two dogs are fighting, I discipline first and think about why it happened later. ^{AN}	2.1±1.4	-	-	-	-	-	-	-	-	-
I encourage my dog to 'be dog' even when it results in a dirty or wet dog. ^{AV*}	3.4±0.8	-	-	-	-	-	-	-	0.4	-
I lure my dog with reward to solicit certain behaviour, even when it is misbehaving at that moment. ^{PM}	2.4±1.3	-	-	-	-	-	-	-	0.5	-
I scold or criticize when my dog's behaviour doesn't meet my expectations. ^{AN*}	0.6±0.8	-0.6	0.5	0.8	-	-	-	-	-	-
I show respect for my dog's needs by encouraging my dog to 'be dog'. ^{AV*}	3.4±0.8	-	-	-	-	-	-	-	0.4	-
I set strict well-established rules for my dog. ^{PM}	1.3±1.0	-	-	-	-	-	-	-	-	-
I let my dog know how I feel about its good and bad behaviour. ^{AV*}	2.9±1.0	-	0.4	-	-	-	-	-	-	-

I use threats as punishment without feeling need for justification towards my dog. ^{AN*}	0.4±0.8	-0.5	0.6	-	-	-	-	-	-	-
I take into account my dog's preferences in making plans. ^{AV*}	3.0±1.0	-	-	-	0.5	0.4	0.5	-	-	-
When I ask my dog to do something, he should do so, because I said so and I am its boss. ^{AN*}	2.2±1.2	-0.5	0.6	-	-0.5	-	-	-	-	-
I am unsure on how to solve my dog's misbehaviour. ^{PM}	0.9±1.0	-	-	-	-	-	-	-	-	-
I practice behaviour step by step with my dog, so I am sure he understands what I ask of him. ^{AV*}	3.1±1.0	-	-	-	-	-	-	0.6	0.6	0.6
I demand that my dog does things. ^{AN}	1.5±1.2	-	0.5	-	-	-	-	-	-	-
I channel my dog's misbehaviour into a more acceptable activity. ^{AV}	3.1±0.9	-	-	-	-	-	-	-	0.6	-
I shove my dog when he is disobedient. ^{AN}	0.7±0.9	-	0.6	-	-	-	-	-	-	-
I use more or higher value reward (food or toy) when I believe my dog should really do something in a situation. ^{AV*}	2.9±1.2	-	-	-	-	-	-	0.7	0.5	0.6
I encourage my dog to show how it feels by its body language, I see growling as a signal of my dog's emotion for example. ^{AV*}	2.0±1.3	-	-	-	0.5	0.4	0.6	-	-	-
I guide my dog by punishment more than by tapping into its natural needs. ^{AN}	0.3±0.7	-	0.5	-	-	-	-	-	-	-
I know the names of my dog's play mates. ^{AV}	3.1±1.1	-	-	-	-	-	-	-	-	-
I find it difficult to discipline my dog. ^{PM*}	0.8±1.0	-	-	-	-	-	-	-	-	-
I give praise when my dog is good. ^{AV*}	3.7±0.6	-	-	-	-	-	-	0.6	0.6	0.7

I use a corrective slap when my dog misbehaves. ^{AN*}	0.7±1.0	-0.7	0.7	0.8	-	-	-	-	-	-
I play and have fun with my dog. ^{AV}	3.7±0.6	-	-	-	-	-	-	-	0.5	-
I set consequences when my dog acts contrary to my wishes. ^{PM}	2.0±1.3	-	-0.4	-	-	-	-	-	-0.4	-
I show sympathy when my dog is hurt or frustrated. ^{AV}	3.0±1.1	-	-	-	-	0.6	-	-	-	-
I punish by taking away toys from my dog. ^{AN*}	0.2±0.7	-	-	-	-	-	-	-	-	-
I spoil my dog. ^{PM*}	2.3±1.1	-	-	-	0.6	0.6	-	-	-	-
I give comfort when my dog is upset. ^{AV*}	2.5±1.3	-	-	-	0.6	0.6	0.6	-	-	-
I yell or shout when my dog misbehaves. ^{AN*}	1.1±1.1	-0.7	0.6	0.8	-	-	-	-	-	-
I am easy going and relaxed with my dog. ^{AV}	3.3±0.8	-	-	-	-	-	-	-	-	-
I allow my dog to greet someone else, regardless of that person's appreciation of dogs. ^{PM}	1.2±1.2	-	-	-	-	-	-	-	-	-
I practice certain behaviour with my dog before asking this behaviour in a more difficult situation. ^{AV}	2.9±1.1	-	-	-	-	-	-	-	0.7	-
I raise my voice to make my dog improve. ^{AN*}	1.9±1.2	-0.7	0.6	0.6	-	-	-	-	-	-
I show patience with my dog. ^{AV}	3.2±0.8	-	-	-	-	-	-	-	-	-
I grab my dog when it is being disobedient. ^{AN*}	1.1±1.1	-0.6	0.6	0.5	-	-	-	-	-	-
I threaten with punishments towards my dog and do not actually do them. ^{PM*}	0.3±0.7	-0.4	0.5	-	-	-	-	-	-	-
I am responsive to my dog's feelings or needs. ^{AV*}	3.2±0.9	-	-	-	0.5	0.4	0.6	-	0.5	-
I allow my dog to give input on decisions for instance with regard to the route we follow on walks. ^{AV*}	1.6±1.3	-	-	-	0.7	0.6	0.7	-	-	-
I struggle with my dog. ^{AN}	0.4±0.8	-	-	-	-	-	-	-	-	-

I am confident about training skills towards my dog. ^{PM}	0.7±0.8	-	-	-	-	-	-	-	-	-	-
I think about why rules should be obeyed by my dog. ^{AV*}	3.3±0.9	-	-	-	-	-	-	-	0.6	0.6	0.6
I am more concerned with own feelings than with my dog's feelings. ^{AN}	1.1±1.0	-	-	-	-	-	-	-	-	-	-
I tell my dog 'good dog' when he tries to follow guidance, even if he does not succeed. ^{AV}	3.0±1.0	-	-	-	-	-	-	-	-	-	-
I punish by giving my dog 'time out' and walking away if he misbehaves, even if he finds the situation he is in uncomfortable. ^{AN*}	1.1±1.2	-	-	-	-	-	-	-	-	-	-
I help my dog to understand the impact of its behaviour by offering him choices in situations. ^{AV*}	1.5±1.3	-	-	-	-	-	-	-	-	-	-
I am afraid that disciplining my dog for misbehaviour will cause him to like me less. ^{PM}	0.4±1.0	-	-	-	-	-	-	-	-	-	-
I take my dog's desires into account before asking him to do something. ^{AV*}	1.9±1.2	-	-	-	0.6	0.5	0.7	-	-	-	-
I can explode in anger towards my dog when he does something he knows I don't want him to do. ^{AN*}	0.4±0.7	-0.6	0.6	0.6	-	-	-	-	-	-	-
I am aware of problems or concerns about my dog that neighbours (may) have. ^{AV}	1.9±1.5	-	-	-	-	-	-	-	-	-	-
I threaten my dog with punishment more often than actually giving it. ^{PM*}	0.4±0.8	-	-	-	-	-	-	-	-	-	-
I express affection, for instance by rubbing my dog under its chin. ^{AV}	3.6±0.7	-	-	-	-	-	-	-	-	-	-
I ignore my dog's misbehaviour such as chasing game, barking	0.9±1.2	-	-	-	-	-	-	-	-	-	-

at other people or peeing against stores in a shopping area. ^{PM}											
I use physical punishment as a way to improve my dog's behaviour. ^{AN*}	0.6±1.0	-0.6	0.6	0.8	-	-	-	-	-	-	-
I carry out discipline after my dog misbehaves. ^{PM}	1.7±1.2	-	-	-	-	-	-	-	-	-	-
I feel bad towards my dog when making a mistake in guiding it. ^{AV}	1.9±1.3	-	-	-	-	-	-	-	-	-	-
I let my dog know what I expect from him. ^{AV}	3.2±0.8	-	-	-	-	-	-	-	-	-	-
I give into my dog when he causes a commotion about something or doesn't do something I want it to. ^{PM*}	0.8±1.0	-	-	-	-	0.5	-	-	-	-	-
I think about why my dog does something when it misbehaves. ^{AV}	3.2±0.9	-	-	-	-	-	-	-	-	0.6	-

^{AN} - Authoritarian item in the original PSDQ, ^{AV} - Authoritative item in the original PSDQ, ^{PM} - Permissive item in the original PSDQ, * - 32-PSDQ