

TABLE : BREED PREDISPOSITION AND HERITABILITY FOR CONGENITAL AND ACQUIRED CARDIAC DISEASE IN CATS AND DOGS (UPDATED JANUARY 2010)		
BREED	INCREASED RISK	HERITABILITY
All breeds	PDA	proven, polygenic threshold trait
Airedale	PS	proven, polygenic threshold trait
Akita	VSD	unknown
American shorthair cat	HCM	autosomal dominant possibly modified by modifier genes or by environmental triggers
Bichon frise	PDA	proven, polygenic threshold trait
Basset	VSD	unknown
Beagle	PS	proven, polygenic threshold trait
Bordeaux Dog	SAS	strongly suspected
	TD	strongly suspected
Bouvier	SAS	strongly suspected
Boxer	SAS	strongly suspected
	PS	proven, polygenic threshold trait
	ASD	unknown
	ARVC	autosomal dominant trait one mutation recognised
British short hair cat	HCM	autosomal dominant possibly modified by modifier genes or by environmental triggers
Bull terrier	MD	strongly suspected
	SAS	strongly suspected
Burmese cats	Atrial standstill	suspected
CKCS	PDA	proven, polygenic threshold trait
	MVE	proven, polygenic threshold trait
Chihuahua	PDA	proven, polygenic threshold trait
	PS	proven, polygenic threshold trait
Cocker Spaniel	PDA	proven, polygenic threshold trait
	PS	proven, polygenic threshold trait
	SSS	unknown
Cocker Spaniel (English)	DCM	hereditary, pattern unknown
Collie	PDA	proven, polygenic threshold trait
Cornish Rex	HCM	autosomal dominant possibly modified by modifier genes or by environmental triggers
Dalmatian	AV dysplasia	unknown
	DCM	suspected hereditary
Dachshund	MVE	proven, polygenic threshold trait
Deerhound	DCM	familial or genetic basis suspected
Doberman	ASD	unknown
	DCM	suspected autosomal dominant with reduced penetrance
English Bulldog	PS	proven, polygenic threshold trait
	TOF	strongly suspected
	VSD	autosomal recessive with variable expression
	SAS	strongly suspected
	ARVC	Strongly suspected
English Springer spaniel	PDA	proven, polygenic threshold trait
	VSD	proven

German Shepherd dog	PDA	proven, polygenic threshold trait
	SAS	strongly suspected
	MD	strongly suspected
	TD	strongly suspected
	PRAA	strongly suspected, complex inheritance
	DCM	familial or genetic basis suspected
German Short Hair Pointer	SAS	strongly suspected
Golden Retriever	SAS	proven
	MD	strongly suspected
	TD	proven Study 1: single recessive allele with a substantial impact on the expression of TVD Study 2: an autosomal dominant trait with reduced penetrance. chromosome 9 mutation
	DCM	familial or genetic basis suspected
Great Dane	MD	strongly suspected
	TD	strongly suspected
	AS	strongly suspected
	PRAA	strongly suspected, complex inheritance
	DCM	X-linked recessive trait suspected
Great Pyrenees	TD	strongly suspected
Greyhound	PRAA	Strongly suspected
Irish Setter	PRAA	strongly suspected, complex inheritance
Irish Wolfhound	TD	unknown
	DCM	suspected autosomal dominant
	IAF	unknown, association with DCM suspected
Keeshond	TOF	autosomal recessive
	VSD	autosomal recessive with variable expression
	PDA	proven, polygenic threshold trait
	PS	proven, polygenic threshold trait
Labrador retriever	TD	proven recessive
	PDA	proven, polygenic threshold trait
	DCM	familial or genetic basis suspected
	WPW	Proven recessive if in association with TD
Lakeland Terrier	VSD	unknown
Maine Coon	PPDH	unknown
	HCM	autosomal dominant possibly modified by modifier genes or by environmental triggers Myosin binding protein C mutation
Maltese	PDA	proven, polygenic threshold trait
Mastiff	MD	strongly suspected
	PS	polygenic threshold

Newfoundland	SAS	autosomal dominant with variable expression
	MD	strongly suspected
	PDA	proven, polygenic threshold trait
	DCM	suspected autosomal dominant
	IAF	unknown, association with DCM suspected
Norwegian Forest Cat	HCM	autosomal dominant possibly modified by modifier genes or by environmental triggers
OESD	TD	strongly suspected
	DCM	familial or genetic basis suspected
Persian cats	AV canal defect	proven
	HCM	autosomal dominant possibly modified by modifier genes or by environmental triggers
	Moderator band CM	suspected
Poodle	PDA	proven, polygenic threshold trait
Pomeranian	PDA	proven, polygenic threshold trait
Portuguese water dog	DCM	proven, autosomal recessive trait
Pugs	PS	proven, polygenic threshold trait
Rottweiler	AS	proven
Samoyed	PS	proven, polygenic threshold trait
	AS	strongly suspected
	ASD	unknown
Schnauzer	PS	proven, polygenic threshold trait
	PDA	proven, polygenic threshold trait
	SSS	unknown
Sheltie	PDA	proven, polygenic threshold trait
Shih tzu	VSD	unknown
Sint Bernard	DCM	familial or genetic basis suspected
Ragdoll cat	HCM	autosomal dominant possibly modified by modifier genes or by environmental triggers Myosin binding protein C mutation
Sphynx	HCM	autosomal dominant possibly modified by modifier genes or by environmental triggers
Terriers	PS	proven, polygenic threshold trait
Weimaraner	TD	strongly suspected
	PPDH	unknown
	DCM	familial or genetic basis suspected
Welsh Corgi	PDA	proven, polygenic threshold trait
WHWT	PS	polygenic threshold
	VSD	strongly suspected
	TOF	strongly suspected
	SSS	unknown
Yorkshire Terrier	PDA	proven, polygenic threshold trait