Health Tests - Forms and Information

The PWDCA recommends that all health clearances be completed, current and entered into the Health & Litter Log (http://hll.pwdca.org) for both Sire and Dam PRIOR to breeding.

For breeders and puppy buyers, it's recommended that you verify health information is current for the sire and dam at: www.ofa.org. Searches for parents may be done by searching the registered name of each parent.

Failure to do the complete set of recommended health screenings can result in offspring that are affected by GM-1, JDCM, prcd-PRA, EOPRA and/or Microphthalmia Syndrome, all of which may lead to a premature death, increased veterinary costs and/or decreased quality of life.

**Not previously producing an affected offspring and the parent not being affected in no way guarantees subsequent offspring produced won't be affected. Only the recommended health screenings can ensure it is not produced and passed to offspring.

Recommended health screenings: Health screening is important to the health of our breed. When the recommended screenings and subsequent breedings are done per the club's recommendation, puppies produced from those litters will not be affected by GM-1, JDCM, prcd-PRA, EOPRA and Microphthalmia Syndrome. Health screenings for hip dysplasia and eye issues can decrease the likelihood of these occurring in subsequent generations.

	Hip Dysplasia	**Progressive Retinal Atrophy (prcd-PRA)**	**Early Onset Progressive Retinal Atrophy (EOPRA)**	**GM-1 Storage Disease (Gangliosidosis)**	**Juvenile Dilated Cardiomyopathy (JDCM)**	**Canine Eye Certification Registry (CAER) (formerly CERF)**	**Microphthalmia Syndrome (MO)**
Sire and/or Dam Required Testing	**Both** Sire and Dam	**Either** Sire or Dam	**Either** Sire or Dam	**Either** Sire or Dam	**Either** Sire or Dam	**Both** Sire and Dam	**Either** Sire or Dam
Testing Frequency	Radiographs required once at 24 months or greater	Once at any age prior to breeding **or** Cleared By Parentage (CBP) via DNA Analysis *see below	Once at any age prior to breeding **or** Cleared By Parentage (CBP) via DNA Analysis *see below	Once at any age prior to breeding **or** Cleared By Parentage (CBP) via DNA Analysis *see below	Once at any age prior to breeding **or** Cleared By Parentage (CBP) via DNA Analysis *see below	Prior to initial breeding then yearly for breeding dogs up to 120 months of age.	Once at any age prior to breeding **or** Cleared By Parentage (CBP) via DNA Analysis *see below
Results Required to produce unaffected puppies	**Both** Sire and Dam have **PASSING** score of • Excellent • Good • Fair	**One parent** must be "**NORMAL**" (non-carrier) **or** Cleared by Parentage (CBP) via DNA (see below)	**One parent** must be "**NORMAL**" (non-carrier) **or** Cleared by Parentage (CBP) via DNA (see below)	**One parent** must be "**NORMAL**" (non-carrier) **or** Cleared by Parentage (CBP) via DNA (see below)	**One parent** must be "**NORMAL**" (non-carrier) **or** Cleared by Parentage (CBP) via DNA (see below)	**Both** Sire and Dam have **PASSING** rating (up to the age of 120 months) *Frozen Semen litters see below	**One parent** must be "**NORMAL**" (non-carrier) **or** Cleared by Parentage (CBP) via DNA (see below)

Testing Facilities	Radiographs performed by Veterinarian	Optimal Selection (Wisdom Health)	Optimal Selection (Wisdom Health)	Optimal Selection (Wisdom Health)	PennGen	Board Certified Ophthalmologist	PennGen
Link to Website	OFA	Optimal Selection	Optimal Selection	Optimal Selection	PennGen Labs	OFA	PennGen Labs
Testing Instructions	Radiographs submitted to OFA for review and grading	Samples are submitted via cheek swabs that are obtained by ordering a test kit from the website.	Samples are submitted via cheek swabs that are obtained by ordering a test kit from the website.	Samples are submitted via cheek swabs that are obtained by ordering a test kit from the website.	Search by Breed and Test Samples may be submitted to PennGen via cheek swab (acquired via PennGen) or blood sample taken and shipped via veterinarian.	Follow instructions from ophthalmologist and submit paperwork provided.	Search by Breed and Test Samples may be submitted to PennGen via cheek swab (acquired via PennGen) or blood sample taken and shipped via veterinarian.
Submit all completed health screening certifications to the PWD Health and Litter Log (http://hll.pwdca.org)							

Optional health screenings: Optional health screenings are available to breeders and owners, but are not part of the recommended tests per the PWDCA. Doing these optional health screenings can be done in addition to the above recommended screenings, but they in no way replace or can be substituted for the recommended health screenings.

	Improper Coat (IC) (optional)	Elbow Dysplasia (optional)	Cardiac Evaluation (optional)	Autoimmune Thyroiditis (optional)	Sebaceous Adenitis (optional)	Patellar Luxation (optional)	Hip Dysplasia (PennHip)
Sire Dam Required Testing	No requirement set	No requirement set	No requirement	No requirement	No requirement	No requirement	No requirement
Testing Frequency	Once at any age prior to breeding						
Results Required to produce unaffected puppies	At least one parent clear						
Testing Facilities	Optimal Selection (Wisdom Health) Paw Print Genetics	Radiographs performed by Veterinarian					PennHip

Link to Website	Optimal Selection Paw Print Genetics	OFA					
Testing Instructions	Samples are submitted via cheek swabs that are obtained by ordering a test kit from the website.	Radiographs submitted to OFA for review and grading					
Optional health screenings may also be submitted to the PWD Health and Litter Log (http://hll.pwdca.org)							

***Litters produced using FROZEN SEMEN: CAER Testing (OFA Eye Certification Registry-formerly CERF) –**

(a) If Sire is alive, the CAER must be current at the time of breeding except where the Sire is over 120 months of age or the CAER or a CERF (Canine Eye Registration Foundation) was current at such date.

(b) If the Sire is deceased, the CAER or CERF exam status must have complied with the "then current" PWDCA health recommendations at the time of his death.

***Cleared by Parentage (CBP)-**From the OFA Website:

That means that if both parents have been DNA tested clear for a disease, OFA will declare offspring clear by virtue of the fact that the parents tested clear. However, there are a few requirements to clear by parentage.

1.) As mentioned, both sire and dam must have tested clear, and those test results must be on record with OFA.

2.) The sire, dam and the offspring to be cleared must all have been DNA identity profiled, and DNA profiles must be on record at OFA.

Once those requirements are met, the owner of the offspring to be cleared will fill out the application for DNA Based Genetic Disease (available on the OFA website), writing "clear by parentage" in the blank line at the top of the form, and submit the form with the $15 OFA processing fee. That's it—your dog is now cleared by parentage for that disease.

The resulting certification will have a suffix of CBP, indicating that the dog itself was not tested and that the clearance is based on the sire and dam's test results. OFA will only clear by parentage for one generation, due to the possibility of new mutations or as yet undiscovered gene mutations.

For more information on CBP (Cleared by Parentage) visit: https://www.ofa.org/clear-by-parentage

To submit DNA FOR CLEARED BY PARENTAGE (CBP) Program, DNA needs to be submitted to and cleared by CHIC or AKC at and then submitted to OFA:

CHIC- http://www.caninehealthinfo.org/chic_dnabankapp_main.pdf

AKC- https://shop.akc.org/products/akc-dna-test?variant=30519215236

OFA (information on how to submit DNA results to achieve CBP status)- https://www.ofa.org/clear-by-parentage

CHIC (Canine Health Information Center)- A dog achieves CHIC Certification if it has been screened for every disease recommended by the parent club for that breed *and* those results are publicly available in the OFA database.

For more information on CHIC visit: https://www.ofa.org/about/chic-program

Other accepted DNA facilities (reviewed annually)

Test	Facility
GM-1 Gangliosidosis	ASAP Genetics (AUST)
GM-1 Gangliosidosis	Eurovetgene
GM-1 Gangliosidosis	HealthGene (Canada)
GM-1 Gangliosidosis	Laboklin
GM-1 Gangliosidosis	Optimal Selection
GM-1 Gangliosidosis	Paw Prints Genetics
GM-1 Gangliosidosis	VetGen
Juvenile Dilated Cardiomyopathy (JDCM)	PennGEN
Progressive Retinal Atrophy (prcd PRA)	Genetic Technologies (AUS)
Progressive Retinal Atrophy (prcd PRA)	Optimal Selection
Progressive Retinal Atrophy (prcd PRA)	Paw Print Genetics