

PATIENT:

Ruff Jones

2023123456



nextmune



**ALLERGY TESTING
RESULTS BOOKLET**



Interpreting our NEW Results

How to read the results

PAX is a molecular allergology test that will provide you with IgE levels to extracts and molecular components. Extract and components are identified by the icons below. The paw prints indicate the level of measurable IgE for each allergen from "no IgE present" to "very high IgE present". Treatment is indicated for every treatable allergen over 28 ng/ml.



Summary of detectable sensitizations

This page is a snapshot of the highest score of each allergen category. Since there are many allergen detail scores, the summary helps guide you to the relevant detail section.

IgE sensitization detection timing

Due to the short half-life of IgE circulating in serum, the timing of blood sampling for IgE serological testing such as the PAX is very important. A lack of elevated circulating IgE can cause negative test results.

Treatable vs non-treatable

Not all positive reactions are treatable. Allergens that are treatable are identified on the test details pages. Allergens shown in the treatment recommendation may be fewer than the positive treatable reactions due to cross-reactivity that will be identified in the allergen interpretations. Identifiable cross-reactivity will decrease the amount of allergens in each treatment set; reducing unnecessary vaccination and improving treatment effectiveness.

Better treatment specificity

We are able to build more concise treatment sets as a result of our improved CCD-blocking process, implementation of a new threshold of 28 ng/mL of IgE, and a more automated testing process. Treatment sets may have as few as 1 allergen, which you may not be accustomed to seeing. This more precise set will have less interference of unnecessary allergens and a higher volume of the relevant allergens, allowing for less overstimulation of the patient, resulting in a better outcome.

Immunotherapy

Patients on immunotherapy can take as long as 12 months to see improvements, while still managing breakthroughs or flares with comfort therapies. Patients will become well managed on treatment alone as they continue on maintenance. Immunotherapy should be continued for 5 years in a symptom free patient or continued for the rest of the patient's life in all other cases.

HYPOSENSITIZATION TREATMENT SET ORDER FORM



Date _____	Animal's First Name _____
Clinic _____	Last Name _____
Address _____	<input type="checkbox"/> Canine <input type="checkbox"/> Feline <input type="checkbox"/> Equine
City _____ State _____ Zip _____	Breed _____
Phone (____) _____ Fax (____) _____	Age _____ Date _____
Purchase Order #: _____	Weight: <input type="checkbox"/> Over 22 lbs <input type="checkbox"/> Under 22 lbs
	Sex: <input type="checkbox"/> Male <input type="checkbox"/> Neutered <input type="checkbox"/> Female <input type="checkbox"/> Spayed
	Lab Number: _____

For additional information about treatment visit
Nextmune.com/tx

CHOOSE TREATMENT OPTION BELOW



ALLERGY INJECTIONS

Given SubQ | 9 month treatment

- Single (one set, up to 24 allergens)
- Double (two sets, over 24 allergens)
*Administer both vials concurrently, at different areas of the body

Maintenance Refill

Please note: Given SubQ | 6 month treatment

Auto-Refill Enrollment

Please note: patient refill will be automatically shipped to clinic per the treatment type schedule



SUBLINGUAL ALLERGY DROPS

Given orally | 3-5 month treatment

- Single (one set, up to 24 allergens)
- Double (two sets, over 24 allergens)

Auto-Refill Enrollment

Please note: patient refill will be automatically shipped to clinic per the treatment type schedule

ALLERGY REPORT



Lab Number 2023123456
Order Date 01/03/2023
Patient Ruff Jones
Sex M **Age** 3 Yrs
Owner Jones
Breed American Pit Bull Terrier Mix

Nextmune US

PAX Complete



Lab report: Summary on detectable sensitisations

POLLEN

Grasses (25.65)

Weeds (31.32)

Trees (32.68)

MITES & COCKROACHES

House Dust & Storage Mites (34.29)

Flea (22.66)

Cockroach (27.24)

MICROORGANISMS

Molds & Yeasts (35.16)

PLANT-BASED FOOD

Cereals & Seeds (28.02)

Fruits (27.33)

Legumes & Nuts (31.20)

Vegetables & Tubers (25.01)

ANIMAL-DERIVED FOOD

Egg & Milk (26.96)

Meats (47.45)

Seafood (37.56)

INSECT VENOMS

Bee & Wasp (30.29)

Ant (19.30)

DANDER & EPITHELIA

Epidermals (25.37)

Highest measured IgE concentration per allergen group



POLLEN

Grasses

Name	Allergen	Function	ng/ml	Concentration	Tx
Bahia	 Pas n		23.31	   	
Bermuda	 Cyn d		21.01	   	
	 Cyn d 1	Beta-Expansin	25.65	   	
Bluegrass/June	 Poa p		22.59	   	
Cultivated Rye	 Sec c_pollen		23.70	   	
Johnson	 Sor h		21.44	   	
Meadow fescue	 Fes p		24.53	   	
Orchard	 Dac g		20.62	   	
Perennial Rye	 Lol p 1	Beta-Expansin	22.40	   	
Timothy	 Phl p 1	Beta-Expansin	25.10	   	
	 Phl p 12	Profilin	20.62	   	
	 Phl p 2	Expansin	23.04	   	
	 Phl p 5.0101	Grass group 5/6	20.77	   	
	 Phl p 6	Grass group 5/6	22.79	   	
	 Phl p 7	Polcalcin	25.44	   	

Weeds

Name	Allergen	Function	ng/ml	Concentration	Tx
Annual Mercury	 Mer a 1	Profilin	19.96	   	
Dock/Sorrel	 Rum a_Rum c		21.45	   	
English Plantain	 Pla l		23.62	   	
	 Pla l 1	Ole e 1-family	31.05	   	<input checked="" type="checkbox"/>
Lamb's Quarter	 Che a		23.91	   	
	 Che a 1	Ole e 1-family	23.41	   	
Mugwort	 Art v		22.69	   	
	 Art v 1	Plant defensin	20.05	   	
	 Art v 3	nsLTP	19.34	   	
Nettle	 Urt d		22.11	   	
Pigweed	 Ama r		23.60	   	
Ragweed	 Amb a		29.61	   	<input checked="" type="checkbox"/>

Ragweed	<input type="radio"/>	Amb a 1	Pectate lyase	24.23		
	<input type="radio"/>	Amb a 4	Plant defensin	20.52		
Russian Thistle	<input type="radio"/>	Sal k		26.39		
	<input type="radio"/>	Sal k 1	Pectin methylesterase	24.97		
Wall Pellitory	<input type="radio"/>	Par j		23.60		
	<input type="radio"/>	Par j 2	nsLTP	31.32		<input checked="" type="checkbox"/>

Trees

Name	Allergen	Function	ng/ml	Concentration	Tx
Acacia	<input type="radio"/> Aca m		25.36		
Alder	<input type="radio"/> Aln g		21.92		
	<input type="radio"/> Aln g 1	PR-10	27.23		
	<input type="radio"/> Aln g 4	Polcalcin	31.63		<input checked="" type="checkbox"/>
Arizona Cypress	<input type="radio"/> Cup a 1	Pectate lyase	21.65		
Ash	<input type="radio"/> Fra e		20.63		
	<input type="radio"/> Fra e 1	Ole e 1-family	22.08		
Beech	<input type="radio"/> Fag s 1	PR-10	32.68		<input checked="" type="checkbox"/>
Cottonwood	<input type="radio"/> Pop n		23.84		
Cypress	<input type="radio"/> Cup s		26.46		
Elm	<input type="radio"/> Ulm c		23.07		
Hazel	<input type="radio"/> Cor a_pollen		24.72		
Hazelnut	<input type="radio"/> Cor a 1.0103	PR-10	20.79		
Japanese Cedar	<input type="radio"/> Cry j 1	Pectate lyase	21.78		
Mountain / Red Cedar	<input type="radio"/> Jun a_Jun v		23.70		
Mulberry	<input type="radio"/> Mor r		21.04		
Olive	<input type="radio"/> Ole e 1	Ole e 1-family	22.87		
	<input type="radio"/> Ole e 7	nsLTP	20.05		
	<input type="radio"/> Ole e 9	1,3 β -glucanase	20.96		
	<input type="radio"/> Ole e_pollen		17.95		
Privet	<input type="radio"/> Lig v		25.17		
Silver Birch	<input type="radio"/> Bet v		19.67		
	<input type="radio"/> Bet v 1	PR-10	24.25		
	<input type="radio"/> Bet v 2	Profilin	21.20		

Silver Birch		Bet v 6	Isoflavon reductase	25.57	   	
Walnut		Jug r_pollen		27.67	   	

MITES & COCKROACHES

House Dust & Storage Mites

Name	Allergen	Function	ng/ml	Concentration	Tx
Acarus Siro	 Aca s		24.28	   	
B. tropicalis (storage mite)	 Blo t		21.86	   	
	 Blo t 10	Tropomyosin	24.35	   	
	 Blo t 21	unknown	21.54	   	
	 Blo t 5	Mite, Group 5	21.75	   	
D. farinae (Dust Mite)	 Der f		28.58	   	<input checked="" type="checkbox"/>
	 Der f 1	Cysteine protease	27.58	   	
	 Der f 15	Chitinase	23.33	   	
	 Der f 18	Chitin-binding protein	22.76	   	
	 Der f 2	NPC2 family	25.78	   	
D. pteronyssinus (Dust Mite)	 Der p		26.12	   	
	 Der p 1	Cysteine protease	18.98	   	
	 Der p 10	Tropomyosin	23.68	   	
	 Der p 11	Myosin, heavy chain	34.29	   	<input checked="" type="checkbox"/>
	 Der p 2	NPC2 family	22.86	   	
	 Der p 20	Arginine kinase	25.07	   	
	 Der p 21	unknown	24.19	   	
	 Der p 23	Peritrophin-like protein domain	25.17	   	
	 Der p 5	unknown	26.01	   	
	 Der p 7	Mite group 7	24.21	   	
Glycyphagus domesticus	 Gly d 2	NPC2 family	27.74	   	
Lepido (Storage Mite)	 Lep d		24.60	   	
	 Lep d 2	NPC2 family	21.24	   	
Tyrophagus (Storage Mite)	 Tyr p		21.82	   	
	 Tyr p 2	NPC2 family	25.21	   	

Flea

Name	Allergen	Function	ng/ml	Concentration	Tx
Cat Flea	 Cte f 1	unknown	22.66	   	

Cockroach

Name	Allergen	Function	ng/ml	Concentration	Tx
American Cockroach	 Per a 6	Troponin C	20.60	   	
	 Per a 7	Tropomyosin	27.24	   	
German Cockroach	 Bla g 1	Cockroach group 1	21.51	   	
	 Bla g 2	Aspartyl protease	19.45	   	
	 Bla g 4	Calycin	18.80	   	
	 Bla g 5	Glutathione S-transferase	21.71	   	
	 Bla g 9	Arginine kinase	25.30	   	

MICROORGANISMS

Molds & Yeasts

Name	Allergen	Function	ng/ml	Concentration	Tx
Alternaria	 Alt a		26.82	   	
	 Alt a 1	Alt a 1-family	22.22	   	
	 Alt a 6	Enolase	23.77	   	
Aspergillus	 Asp f		20.01	   	
	 Asp f 1	Mitogillin family	35.16	   	<input checked="" type="checkbox"/>
	 Asp f 3	Peroxisomal protein	20.12	   	
	 Asp f 4	unknown	24.31	   	
	 Asp f 6	Mn superoxid-dismutase	25.60	   	
Cladosporium	 Cla h		21.88	   	
	 Cla h 8	Short-chain dehydrogenase	31.95	   	<input checked="" type="checkbox"/>
Malassezia	 Mala p		24.12	   	
	 Mala s 1	Peroxisomal protein	24.97	   	
	 Mala s 11	Mn superoxid-dismutase	25.63	   	
	 Mala s 5	unknown	22.23	   	
	 Mala s 6	Cyclophilin	22.40	   	
	 Mala s 9	unknown	22.28	   	
Penicillium	 Pen ch		19.55	   	

PLANT-BASED FOOD

Cereals & Seeds

Name	Allergen	Function	ng/ml	Concentration	Tx
Barley	 Hor v		25.71	   	

Buckwheat		Fag e		26.05		
		Fag e 2	2S albumin	21.96		
Corn		Zea m		22.28		
		Zea m 14	nsLTP	28.02		
		Zea m_GBSSI	Granule-bound starch synthase 1	22.50		
Millet		Pan m		26.96		
Oat		Ave s		26.63		
Rice		Ory s		24.56		
		Ory s_GLUB1	Glutelin B1	18.49		
Rye		Sec c_flour		25.51		
Sunflower		Hel a		26.42		
Wheat		Tri a		24.72		
		Tri a 14	nsLTP	22.82		
		Tri a 19	Omega-5-gliadin	24.45		
		Tri a aA_TI	Alt a 1-family	22.72		

Fruits

Name	Allergen	Function	ng/ml	Concentration	Tx	
Apple		Mal d 1	PR-10	27.33		
		Mal d 2	Thaumatococcus protein	18.49		
		Mal d 3	nsLTP	23.70		

Legumes & Nuts

Name	Allergen	Function	ng/ml	Concentration	Tx	
Lentil		Len c		26.21		
		Len c 1	7/8S globulin	23.84		
		Len c 2	Seed-specific biotinylated protein	21.07		
		Len c 3	nsLTP	23.38		
Pea		Pis s		26.76		
		Pis s 1	7/8S globulin	21.38		
		Pis s 2	7/8S globulin	20.74		
		Pis s 3	nsLTP	20.83		
Peanut		Ara h 1	7/8S globulin	22.35		

Peanut		Ara h 15	Oleosin	20.93	   	
		Ara h 2	2S albumin	20.57	   	
		Ara h 3	11S globulin	19.01	   	
		Ara h 5	Profilin	20.86	   	
		Ara h 6	2S albumin	18.49	   	
		Ara h 8	PR-10	20.35	   	
		Ara h 9	nsLTP	24.38	   	
Soy		Gly m		24.14	   	
		Gly m 4	PR-10	25.53	   	
		Gly m 5	7/8S globulin	31.20	   	
		Gly m 6	11S globulin	23.23	   	
		Gly m 8	2S albumin	23.23	   	

Vegetables & Tubers

Name	Allergen	Function	ng/ml	Concentration	Tx	
Carrot		Dau c		25.00	   	
		Dau c 1	PR-10	18.56	   	
Potato		Sol t		21.47	   	
		Sol t 2	Aspartic protease inhibitor	17.01	   	
		Sol t_GBSSI	Granule-bound starch synthase 1	22.11	   	
Tomato		Sola l		25.01	   	
		Sola l 6	nsLTP	19.58	   	

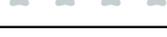
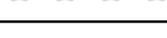
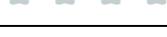
ANIMAL-DERIVED FOOD

Egg & Milk

Name	Allergen	Function	ng/ml	Concentration	Tx	
Cow Milk		Bos d 4	α -lactalbumin	22.18	   	
		Bos d 5	β -lactoglobulin	21.75	   	
		Bos d 8	Casein	24.65	   	
		Bos d_milk		22.08	   	
Egg - White		Gal d 1	Ovomucoid	23.54	   	
		Gal d 2	Ovalbumin	17.86	   	
		Gal d 3	Ovotransferrin	21.03	   	

Egg - White		Gal d 4	Lysozym C	26.15		
		Gal d_white		26.96		
Egg - Yolk		Gal d 5	Serum albumin	21.14		
		Gal d_yolk*		20.09		

Meats

Name	Allergen	Function	ng/ml	Concentration	Tx	
Beef		Bos d 6	Serum albumin	18.59		
		Bos d 7	Immunoglobulin G	22.30		
		Bos d_ACTA1	Alpha actin	18.43		
		Bos d_LDHA	Lactate dehydrogenase A	20.28		
		Bos d_meat		25.63		
Chicken		Gal d 7	Myosin light chain	22.89		
		Gal d 9	Beta-enolase (enolase -3)	25.43		
		Gal d_PKM	Pyruvate kinase M	24.58		
		Gal d_meat		24.92		
Horse		Equ c_meat*		19.74		
Lamb		Ovi a_IgG	Immunoglobulin G	21.00		
		Ovi a_meat		47.45		
Mealworm		Ten m		25.33		
Pig		Sus d 1	Serum albumin	22.84		
		Sus d_meat		33.13		
Rabbit		Ory c_CKM	Creatine kinase M	19.03		
		Ory c_GAPDH	GAPDH	19.52		
		Ory c_PGM1	Phosphoglucomutase-1	17.45		
		Ory c_PKM	Pyruvate kinase M	17.47		
		Ory c_TPI1	Triose phosphate isomerase 1	20.02		
		Ory_meat		27.81		
Turkey		Mel g		20.18		

Seafood

Name	Allergen	Function	ng/ml	Concentration	Tx	
Cod		Gad m		37.56		

* Due to concentration issue, this score has been reduced by 10 points

Cod		Gad m 1	β -parvalbumin	19.25	   	
		Gad m 2+3	Aldolase/Beta-enolase (enolase -3)	26.02	   	
		Gad m 4	Tropomyosin	25.68	   	
Herring		Clu h		22.18	   	
		Clu h 1	β -parvalbumin	20.60	   	
Mackerel		Sco s		25.80	   	
		Sco s 1	β -parvalbumin	23.47	   	
Salmon		Sal s		26.59	   	
		Sal s 1	β -parvalbumin	24.09	   	
		Sal s 2	Beta-enolase (enolase -3)	23.31	   	
		Sal s 3	Aldolase	24.06	   	
		Sal s 4	Tropomyosin	16.93	   	
		Sal s 6	collagen	20.90	   	
		Sal s 7	Creatine kinase M	19.27	   	
		Sal s 8	Triosephosphate isomerase 1	22.50	   	
Tuna		Thu a		25.37	   	
		Thu a 1	β -parvalbumin	20.49	   	

INSECT VENOMS

Bee & Wasp

Name	Allergen	Function	ng/ml	Concentration	Tx	
Common Wasp Venom		Ves v		26.28	   	
		Ves v 1	Phospholipase A2	25.51	   	
		Ves v 5	Antigen 5	30.29	   	
Honey Bee Venom		Api m		23.35	   	
		Api m 1	Phospholipase A2	22.33	   	
		Api m 10	Icarapin variant 2	24.94	   	
		Api m 2	Hyaluronidase	18.49	   	
		Api m 3	Acid phosphatase	24.86	   	
		Api m 5	Dipeptidylpeptidase IV	19.61	   	
Long-headed Wasp Venom		Dol spp		22.13	   	
Paper Wasp Venom		Pol d		21.20	   	
		Pol d 5	Antigen 5	25.07	   	

Ant

Name	Allergen	Function	ng/ml	Concentration	Tx
Fire Ant Venom	 Sol spp		19.30	   	

DANDER & EPITHELIA

Epidermals

Name	Allergen	Function	ng/ml	Concentration	Tx
Cat Epithelia	<input checked="" type="radio"/> Fel d 1	Uteroglobin	23.27	   	
	<input checked="" type="radio"/> Fel d 2	Serum albumin	23.92	   	
	<input checked="" type="radio"/> Fel d 4	Lipocalin	20.25	   	
	<input checked="" type="radio"/> Fel d 7	Lipocalin	23.40	   	
Cattle	<input checked="" type="radio"/> Bos d 2	Lipocalin	21.82	   	
Guinea Pig	<input checked="" type="radio"/> Cav p 1	Lipocalin	18.47	   	
Horse Epithelia	<input checked="" type="radio"/> Equ c 1	Lipocalin	21.54	   	
	<input checked="" type="radio"/> Equ c 3	Serum albumin	18.42	   	
	<input checked="" type="radio"/> Equ c 4	Latherin	25.37	   	
Mouse Epithelia	<input checked="" type="radio"/> Mus m 1	Lipocalin	19.52	   	
Rabbit Epithelia	<input checked="" type="radio"/> Ory c 1	Lipocalin	20.56	   	
	<input checked="" type="radio"/> Ory c 2	Lipocalin	18.57	   	
	<input checked="" type="radio"/> Ory c 3	Secretoglobin	16.80	   	

PAX - Interpretations

English Plantain Pla l 1

Pla l 1 is an allergen from plantain (*Plantago lanceolata*); it is a member of the Ole e 1 allergen family. The potential for cross-reactions with Ole e 1 allergens from other plantain species is high, but low with Ole e 1-like allergens from other plant families. In humans, Pla l 1 is a highly specific marker for ribwort plantain pollen sensitization; at this time, it is not known if the same occurs in animals. Allergen-specific immunotherapy is recommended for plantain pollen sensitization, if the corresponding clinical signs occur.

Ragweed Amb a

This patient is sensitized to ragweed pollen. Associated allergic signs are generally worse during the ragweed pollination season in the late summer and early fall. There is a strong cross-reaction with other ragweed (*Ambrosia*) species, as well as with mugwort (*Artemisia*), marsh elder (*Iva*) and cocklebur (*Xanthium*). Allergen-specific immunotherapy is recommended for ragweed pollen sensitization, if the corresponding clinical signs occur.

Wall Pellitory Par j 2

Par j 2 is an allergen from the wall pellitory (*Parietaria judaica*); it is a member of the nsLTP allergen family. The potential for cross-reactions with most other allergens of this family is considered low. In humans, Par j 2 is a highly specific marker for pellitory pollen sensitization; at this time, it is not known if the same occurs in animals. Allergen-specific immunotherapy is recommended for pellitory pollen sensitization, if the corresponding clinical signs occur.

Alder Aln g 4

Aln g 4 is an allergen from alder (*Alnus glutinosa*); it is a member of the polcalcin allergen family. Associated allergic signs are generally worse during the alder pollination season in the early spring. The potential for cross-reactions between Aln g 4 and other allergens of the polcalcin family is high. Many pollens and other allergenic sources contain polcalcins, so the origin of this sensitization might not be from alder pollen.

Beech Fag s 1

Fag s 1 is an allergen from beech (*Fagus sylvatica*); it is a member of the PR-10 family. The potential of cross-reactions with other allergens from the PR-10 family is high. Food sources containing PR-10 allergens include strawberries, hazelnuts, peanuts, soy, carrot, and celery. The potential for cross-reactions with other trees of the Betulaceae and Fagaceae family (e.g., birch, alder, hazel, hornbeam,...) is very high. Allergen-specific immunotherapy is recommended for beech pollen sensitization, if the corresponding clinical signs occur. Due to the high cross-reactivity existing among Fagaceae and Betulaceae pollens, immunotherapy might be limited to a single tree pollen.

D. farinae (Dust Mite) Der f

This patient has a sensitization to house dust mites.

Associated allergic signs are generally year-round, but house dust mites are known to proliferate during times of high humidity and temperature.

There is a known cross-reactivity between allergens of house dust and storage mite species, as well as between those of *Dermatophagoides farinae* and *Toxocara canis*.

Allergen-specific immunotherapy is recommended for house dust mite sensitization, if the corresponding clinical signs occur.

D. pteronyssinus (Dust Mite) Der p 11

Der p 11 is an allergen from the *Dermatophagoides pteronyssinus* house dust mite; it is a member of the mite Group 11 allergen family (myosin heavy chains, paramyosins).

Der p 11 is a major allergen of humans with atopic dermatitis sensitized to this house dust mite; at this time it is not known if this is also the case in animals.

Der p 11 is a major allergen of humans with atopic dermatitis sensitized to this house dust mite; at this time it is not known if this is also the case in animals.

Due to the high risk of cross-reactions among tropomyosins, immunotherapy is not recommended in case of dogs monosensitized to Der p 10.

Aspergillus Asp f 1

Asp f 1 is an allergen from the *Aspergillus fumigatus* mold; it is a member of the ribotoxin (ribonuclease mitogillin) allergen family.

Asp f 1 is a major allergen of humans sensitized to this mold and a marker for allergic bronchopulmonary aspergillosis (ABPA); at this time it is not known if this is also the case in animals.

There is a limited risk of cross-reactivity of Asp f 1 with allergens of other *Aspergillus* species. As such, sensitization to this allergen likely reflects a primary sensitization to *Aspergillus* molds.

Allergen-specific immunotherapy is recommended for *Aspergillus* mold sensitization, if the corresponding clinical signs occur.

Cladosporium Cla h 8

Cla h 8 is an allergen from the *Cladosporium herbarum* mold; it is a member of the short-chain (mannitol) dehydrogenase allergen family.

Cla h 8 is a major allergen of humans sensitized to this mold; at this time it is not known if this is also the case in animals.

There is a known cross-reactivity of Cla h 8 with other mold allergens of the same family.

Allergen-specific immunotherapy is recommended for *Cladosporium* mold sensitization, if the corresponding clinical signs occur.

Corn Zea m 14

Zea m 14 is an allergen from corn/maize (*Zea mays*); it is a member of the nonspecific lipid-transfer (nsLTP) allergen family.

Zea m 14 is a major allergen of humans sensitized to corn/maize; at this time we do not know if this is the case in animals.

The potential for cross-reactions between members of the nsLTP allergen family is high within botanically-closely related species, and moderate between less closely-related species.

Allergen-specific immunotherapy is currently not available for food allergens; the best treatment currently consists on the avoidance of foodstuff containing the offending allergens.

Soy Gly m 5

Gly m 5 is an allergen from soybeans (*Glycine max*); it is the soybean's vicilin, the alpha subunit of beta-conglycinin.

Gly m 5 is partially resistant to digestion.

Gly m 5 is a major allergen in humans sensitized to soybeans; this allergen has been shown to be the target of IgE in some dogs.

There is some cross-reactivity potential between Gly m 5 and other allergens from nuts, for example Ara h 1 and Ara h 3 from peanuts.

Allergen-specific immunotherapy is currently not available for food allergens; the best treatment currently consists on the avoidance of foodstuff containing the offending allergens.

Lamb Ovi a_meat

This patient has a sensitization to lamb meat.

Clinical signs follow the ingestion of lamb meat-containing foodstuff; clinical manifestations of food allergy are variable and affect the skin, ears and/or digestive tract.

There is cross-reactivity potential between lamb meat and that of other mammals.

Allergen-specific immunotherapy is currently not available for food allergens; the best treatment currently consists on the avoidance of foodstuff containing the offending allergens.

Pig Sus d_meat

This patient has a sensitization to pork meat.

Clinical signs follow the ingestion of pork meat-containing foodstuff; clinical manifestations of food allergy are variable and affect the skin, ears and/or digestive tract.

There is cross-reactivity potential between pork meat and that of other mammals.

Allergen-specific immunotherapy is currently not available for food allergens; the best treatment currently consists on the avoidance of foodstuff containing the offending allergens.

Cod Gad m

This patient has a sensitization to cod.

Clinical signs follow the ingestion of cod-containing foodstuff; clinical manifestations of food allergy are variable and affect the skin, ears and/or digestive tract.

There is high cross-reactivity potential between allergens shared among different fish species.

Allergen-specific immunotherapy is currently not available for food allergens; the best treatment currently consists on the avoidance of foodstuff containing the offending allergens.

Common Wasp Venom Ves v 5

Ves v 5 is an allergen from the common wasp (*Vespula vulgaris*); it is a member of Vespidae antigen 5 family.

Ves v 5, or antigen 5, is a major allergen of humans sensitized to wasp venom; our preliminary results suggest that it is also an allergen of dogs sensitized to wasp venom.

Ves v 5 is considered a marker of vespid venom sensitization, as there is known cross-reactivity with other antigen 5s of vespids.

Allergen-specific immunotherapy is currently not available for wasp venom sensitization; the treatment is symptomatic.



Dietary Results

Your dog tested positive for the following ingredients:

Corn	Pig	Soy
Cod	Lamb	

The following foods carry a strong likelihood of cross-reaction based on the positive results above.

Peanut	Strawberry	Hazelnut
Carrot	Celery	

A nutritious diet is essential to your dog's quality of life. The following pages include a list of prescription diets free of the ingredients to which your dog has reacted. This is a guideline for you and your veterinarian to discuss.

You may also access our online, interactive food list at nextmune.pawdiet.com. Simply enter the lab number found at the bottom left of this page and the owner's last name.

Manufacturers alter food formulations without notice. Please verify that your chosen diet does not contain any of the ingredients listed above.

For additional information visit Nextmune.US

*In the event of a food recall, please check each food against the published list as provided by the USDA or FDA.

WHERE DOES YOUR PATIENT FALL ON THE FOOD ALLERGY DISEASE SPECTRUM?

urticaria
angioedema
anaphylaxis

atopic dermatitis

inflammatory
bowel disorders

IgE-mediated

cell-mediated



VISIT OUR INTERACTIVE FOOD LIST

Nextmune.pawdiet.com

ALLERGY REPORT



Lab Number	201820172
Order Date	5/12/2018
Patient	Ruff Jones
Sex	M
Owner	Jones
Breed	Terrier

You can find the lab number here

PawDiet Brands Breeds Coupons Library Recalls Food Finder Search For Pet Food Products By Name...

	<p>Dr. Doctor ABC Veterinary Clinic 123 N Main St Anywhere, Anywhere 12345 (800) 555-1212</p>	<table border="0"> <tr><td>Lab Number</td><td>201820172</td></tr> <tr><td>Order Date</td><td>May 12, 2018</td></tr> <tr><td>Patient</td><td>Ruff Jones</td></tr> <tr><td>Owner</td><td>Jones</td></tr> <tr><td>Breed</td><td>Terrier</td></tr> <tr><td>Sex / Age</td><td>M / 3 Yrs</td></tr> </table>	Lab Number	201820172	Order Date	May 12, 2018	Patient	Ruff Jones	Owner	Jones	Breed	Terrier	Sex / Age	M / 3 Yrs
Lab Number	201820172													
Order Date	May 12, 2018													
Patient	Ruff Jones													
Owner	Jones													
Breed	Terrier													
Sex / Age	M / 3 Yrs													

Simply enter your patient's lab number and last name.

Ruff Jones tested positive for the following ingredients:

- Corn
- Rice
- Flax
- White Potato
- Alfalfa
- Sweet Potato
- Beef
- Soybean

The food list will populate with dry, wet and treat options based on the pet's allergy report.

These commercially available diets are free of the ingredients listed above. This is a guideline for you and your veterinarian to discuss. Always check each diet's ingredient list ensuring it does not contain the ingredients listed above. [Print](#)

Your Recommend Product Lists

- Dry Dog Food Formulas**
November 13th, 2019 95 Products →
- Wet Dog Food Formulas**
November 13th, 2019 95 Products →
- Dog Food Recommendations**
January 17th, 2020 100 Products →

Powered by:
PawDiet

Interpreting Food Sensitivity Results



DIET TRIAL

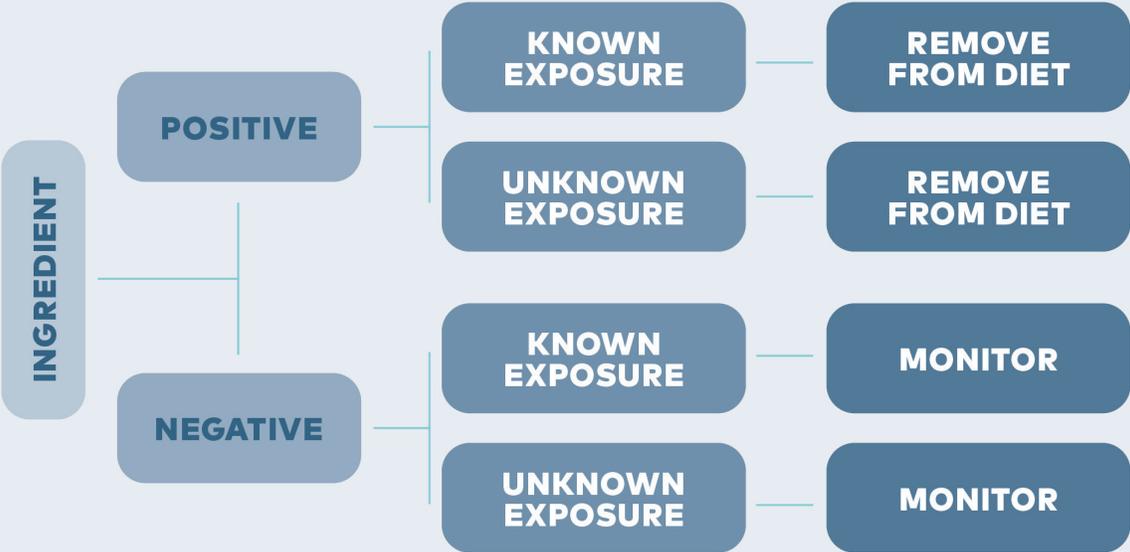
A diet trial is the gold-standard for determining the type of food sensitivities a patient is experiencing. A patient may be experiencing IgE-mediated sensitivities or cell-mediated sensitivities OR a combination of both. The recommended way to identify where on the spectrum the patient falls is to feed Purina Elemental or Royal Canin Ultamino exclusively for 8 weeks and then return to the original offending diet for a challenge. If the patient reacts with allergic symptoms within 24 hours, the patient has IgE-mediated disease.

NEXTMUNE'S TESTING

Patients with IgE-mediated disease should avoid the foods identified with our testing.

INTERPRETING RESULTS

Since exposure plays a role in IgE elevations, you should also categorize foods into known exposure and unknown exposure. Once you have the exposure category, then you know how to prioritize the ingredients. Our food lists treat all positives as requiring removal. However, it is important to understand that a negative without exposure may become a positive with regular exposure.



PRESCRIPTION DIETS ONLY
 Visit nextmune.pawdiet.com for more options

Blue Buffalo

Type	Food
DRY	Natural Veterinary Diet GI Gastrointestinal Support
DRY	Natural Veterinary Diet HF Hydrolyzed For Food Intolerance For Dogs
DRY	Natural Veterinary Diet NP Novel Protein Alligator For Dogs
WET	Natural Veterinary Diet GI Gastrointestinal Support
WET	Natural Veterinary Diet HF Hydrolyzed For Food Intolerance For Dogs (Canned)
WET	Natural Veterinary Diet NP Novel Protein Alligator For Dogs (Canned)
WET	Natural Veterinary Diet W+M Weight Management + Mobility Support (Canned)

Farmina

Type	Food
DRY	Vet Life Caloric Control Canine Formula
DRY	Vet Life Convalescence Canine Formula
DRY	Vet Life Derma Management With Fish Canine Formula
DRY	Vet Life Diabetic Canine Formula
DRY	Vet Life Gastrointestinal Canine Formula
DRY	Vet Life HP Derma Canine Formula
DRY	Vet Life Hypoallergenic Egg & Rice Canine Formula
DRY	Vet Life Joint Canine Formula
DRY	Vet Life Oxalate Canine Formula
DRY	Vet Life Renal Canine Formula
DRY	Vet Life Urinary ST/control Canine Formula
DRY	Vet Life Urinary St/management Canine Formula
WET	Vet Life Derma Management Duck Recipe Canine Formula (Canned)
WET	Vet Life Derma Management Fish Recipe Canine Formula (Canned)
WET	Vet Life Gastrointestinal Canine Formula (Canned)
WET	Vet Life Recoup Canine Formula (Canned)

Farmina

Type	Food
WET	Vet Life Renal Canine Formula (Canned)
WET	Vet Life Urinary ST/control Canine Formula (Canned)

Hill's Prescription Diet

Type	Food
WET	Skin/Food Sensitivities d/d Duck Formula
WET	Skin/Food Sensitivities d/d Salmon Formula

JustFoodForDogs

Type	Food
FROZEN	Veterinary Diets Balanced Remedy
FROZEN	Veterinary Diets Critical Care & Neoplasia Support

Purina Pro Plan

Type	Food
TREAT	Veterinary Diets Lite Snackers Canine Treats
WET	Veterinary Diets EN Gastroenteric Naturals Canine Formula (Canned)

Royal Canin

Type	Food
DRY	Veterinary Diet Gastrointestinal Low Fat Recipe For Dogs
DRY	Veterinary Diet Selected Protein PW For Dogs
DRY	Veterinary Diet Selected Protein PW For Large Breed Dogs
DRY	Veterinary Diet Selected Protein PW Moderate Calorie For Dogs
DRY	Veterinary Diet Skin Support Recipe For Dogs
DRY	Veterinary Diet Vegetarian Recipe For Dogs
TREAT	Veterinary Diet Gastrointestinal Canine Treats
TREAT	Veterinary Diet Original Canine Treats
WET	Veterinary Diet Selected Protein PD Canned Dog Food

PRESCRIPTION DIETS ONLY
Visit nextmune.pawdiet.com for more options

Royal Canin

Type	Food
WET	Veterinary Diet Selected Protein PR Canned Dog Food
WET	Veterinary Diet Selected Protein PV Canned Dog Food
WET	Veterinary Diet Selected Protein PW Canned Dog Food

Why allergy treatment?

Allergy testing without proceeding to allergy therapy does little to improve your dog's quality of life. Allergy therapy is the **ONLY** way to increase tolerance and address the root cause of their symptoms without harsh side effects. This is accomplished by introducing their immune system to small, controlled doses of the allergens to which they've reacted.

Treatment is available in allergy drops (lasting 100 days) or allergy injections (lasting 283

days). Regardless of which method you choose, treatment sets are formulated specifically for your dog based on their allergy test results.

With compliance from both the pet parent and the veterinarian, NextmuneUS has seen improvement rates as high as 90%* – this means less reactions!

Discuss the details of your dog's treatment with your veterinarian today!



*According to a veterinary survey



DID YOU KNOW?

Breeds most likely to suffer from allergies...



#1: Golden Retriever



#2: Labrador Retriever



#3: German Shepherd



#4: Cocker Spaniel



#5: Boxer

Hypo-sensitization for allergy management



ALLERGY INJECTIONS

- Every other day initially & eventually once per month
- Treat up to 24 allergens per set
- Initial set lasts 283 days
- Most economical option
- Observe dog for 45 minutes after each dose



ALLERGY DROPS

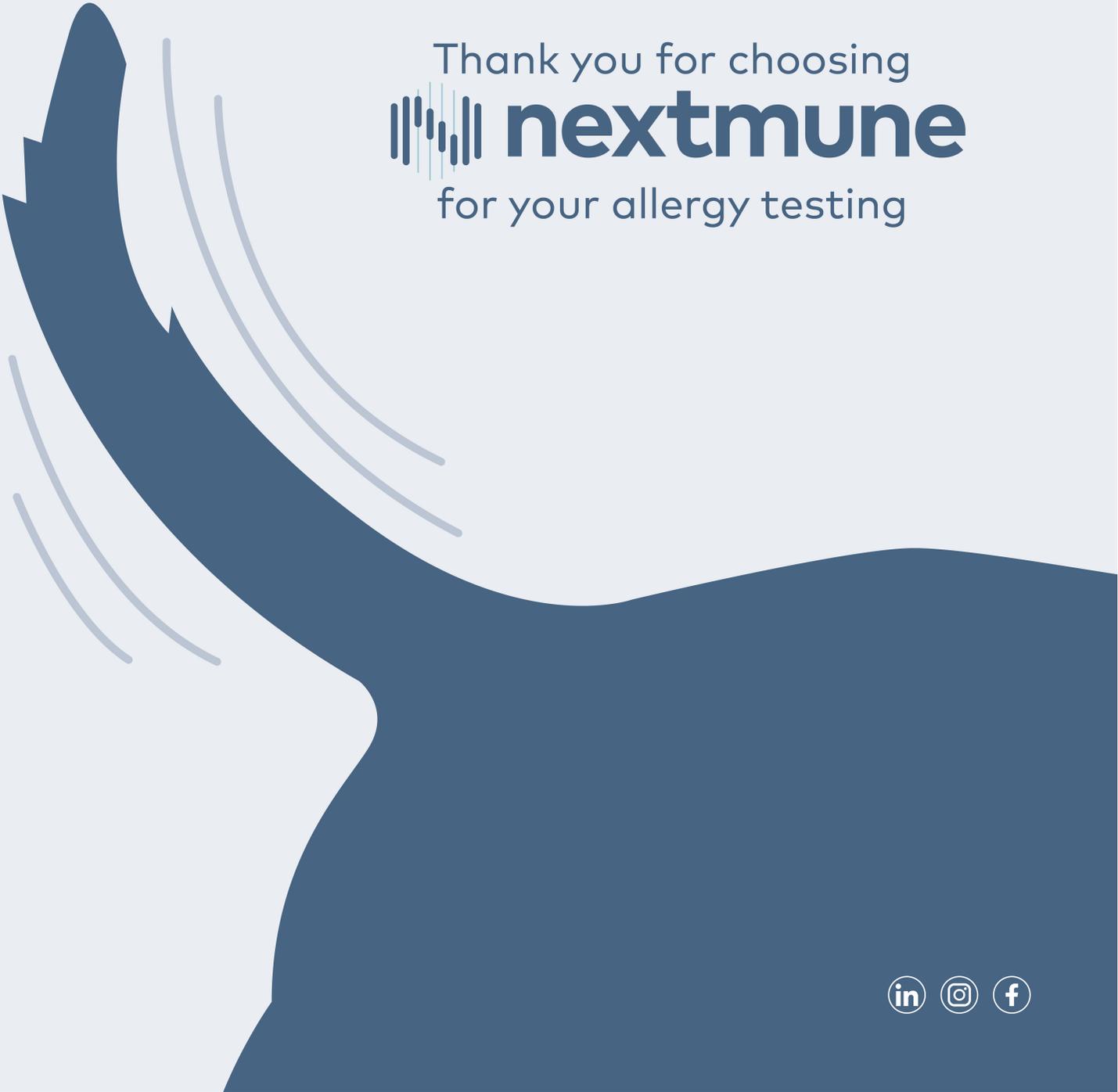
- Once a day oral administration
(No food/drink 10 minutes before/after)
- Treat up to 24 allergens per set
- Initial set lasts 100 days or 150 days
- 2 pumps or 3 pumps (based on weight)
- Observe dog for 45 minutes after each dose

NEXTMUNE'S TREATMENT VS OTHER OPTIONS

Treatment 	Effectiveness 	Side Effects 	Cost  <small>*Prices calculated based on medium-sized dog (60 lbs)</small>	Benefits 	Downsides 
Steroids	Effective in about 30-40% of cases	Excessive thirst, hunger & urination	About \$0.40-.50/day ³	Efficacy, cost	Long-term side effects, never addresses root cause of allergy
Apoquel®	Effective in about 60% of cases	Low instance of dermal masses, vomiting & diarrhea	About \$4-5/day ⁴	Relief for itchy pets, cost	Long-term effects unknown, never addresses cause of allergy, symptoms may return
Cytopoint®	Up to 80% of cases experienced itch relief ¹	Facial swelling, GI issues & hives	About \$3-6/day ⁵	Works quickly, about once per month	Long-term effects unknown, never addresses cause of allergy, symptoms may return
NextmuneUS Testing & Treatment	Very effective in about 85-90% of cases ²	Low instance in increased allergy symptoms (depending on season)	About \$1/day (injection), about \$2/day (oral)	Efficacy, addresses root cause of allergy symptoms, safe for long term use	Can take 4-6 months before benefits of therapy are seen

1. Zoetis, *Veterinary Dermatology* 2. Internal veterinary survey 3. 1-800-PetMeds.com / Medi-Vet.com 4. 1-800-PetMeds.com 5. Zoetis price list

Nextmune US
2801 South 35th Street
Phoenix, AZ 85034



Thank you for choosing
 **nextmune**
for your allergy testing

