

# DNA & Allergen Compatibility Report

REPORT FOR:

JOHN W. DOE | 11.21.2017



## John W. Doe Personal Profile

**CURRENT MEDICATIONS:**

Advil	07.11.2017
Clopidogrel	07.23.2017
Doxepin	09.04.2017
Fluoxetine	09.17.2017
Warfarin	10.27.2017

**CURRENT ILLNESSES:**

Migraine Headaches	07.11.2017
Heart Disease	07.23.2017
Insomnia	09.04.2017
Depression	09.17.2017
Blood Clots	10.27.2017

**DRUG ALLERGIES:**

Amoxicillin	05.17.2017
Tetracycline	06.22.2017
Lamotrigine	09.01.2017

**FOOD:**

Soy:	None
Citrus:	1 Serving Daily
Protein:	3 Servings Daily
Fiber:	3 Servings Daily
Chocolate:	None
Cheese:	3 Servings Daily
Sour Cream:	None
Yogurt:	1 Serving Daily
Fruit:	1 Serving Daily
Egg:	1 Serving Weekly
Tofu:	None
Salmon:	None
Nuts:	2 Servings Daily

**BEVERAGES:**

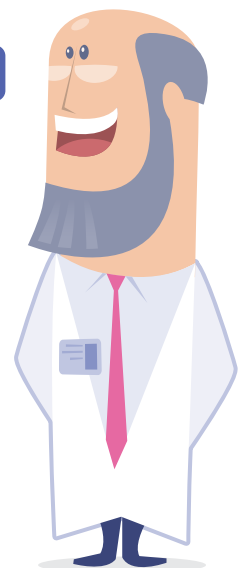
Milk:	4oz Daily
Soda:	4oz Daily
Tea:	8oz Daily
Coffee:	4oz Weekly

**LIFESTYLE:**

Alcohol:	8oz Weekly
Smoking:	None

**EXERCISE:**

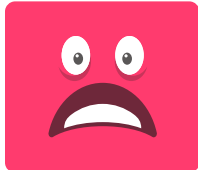
Exercise:	Aerobic
Frequency:	1 Time Daily



## Drug to Gene Conflicts for John W. Doe

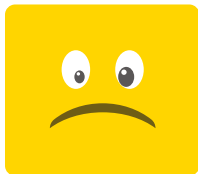
Reaction Level: ■ No Conflict ■ Low Conflict ■ Moderate Conflict ■ Severe Conflict

Prescription Medications: Always review all results with physician! Over-the-Counter Medications: Always review all results with pharmacist or physician!  
All results assume that all relevant patient and third party information collected and organized is accurate and up-to-date.



### **CLOPIDOGREL: SEVERE CONFLICT!** Doxepin Conflict With CYP2C19

Consider an alternative drug, or consider prescribing doxepin at standard dose and monitor the plasma concentrations of doxepin and desmethyldoxepin to guide dose adjustments. Increased Sensitivity to Doxepin



### **CLOPIDOGREL: MODERATE CONFLICT!** Clopidogrel Conflict With CYP2C19

Clopidogrel can be prescribed at standard label-recommended dosage. Individuals with the \*17 allele may have an increased risk of bleeding while taking clopidogrel. Increased Response to Clopidogrel



### **DOXEPIN: MILD CONFLICT!** Doxepin Conflict With CYP2D6

Doxepin can be prescribed at standard label-recommended dosage and administration. Normal Sensitivity to Doxepin



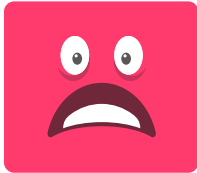
### **WARFARIN: NO CONFLICT.** Warfarin No Conflict With CYP2C9

Initiation Therapy: a dose increase may be required. Consider using the following warfarin dose range as provided in the FDA-approved label: 5-7 mg/day. OR consider using a personalized dose calculated by a pharmacogenetic algorithm. The estimated time to reach steady state is 4-5 days. Less than normal Sensitivity to Warfarin

## Drug to Drug Conflicts for John W. Doe

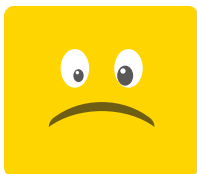
Reaction Level: ■ No Conflict ■ Low Conflict ■ Moderate Conflict ■ Severe Conflict

Prescription Medications: Always review all results with physician! Over-the-Counter Medications: Always review all results with pharmacist or physician!  
All results assume that all relevant patient and third party information collected and organized is accurate and up-to-date.



### **DOXEPIN: SEVERE CONFLICT!** Doxepin 50 Mg Capsule Conflicts With Phenelzinet

Concurrent use may result in a severe reaction including hyperpyrexia, convulsions, excitability, muscular rigidity, fluctuations in blood pressure, convulsions, grand mal seizures, coma, and death. Symptoms of serotonin syndrome may include tremor, agitation, diaphoresis, hyperreflexia, clonus, tachycardia, hyperthermia, and muscle rigidity.(30)



### **ADVIL: MODERATE CONFLICT!** Advil 100 Mg Tablet Conflicts With Warfarin

Concurrent use of anticoagulants and NSAIDs may increase the risk for bleeding.



### **ADVIL: MILD CONFLICT!** Advil 100 Mg Tablet Conflicts With Plavix

Concurrent use of platelet aggregation inhibitors and NSAIDs may increase the risk of bleeding.



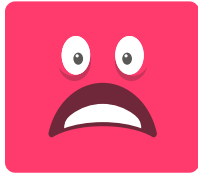
### **WARFARIN: NO CONFLICT.** Warfarin No Conflict With CYP2C9

Concurrent administration of fluoxetine or paroxetine with selected tricyclic antidepressants may result in an increase in serum levels, toxicities (e.g. risk for seizures or torsades de pointes), and/or clinical effects of the tricyclic agent. Concurrent administration of fluoxetine or paroxetine with clomipramine, and perhaps with high doses of imipramine or amitriptyline may increase the risk for serotonin syndrome. Cyclic antidepressants included in this monograph are amitriptyline (strengths > 40 mg), clomipramine (strengths > 25 mg), desipramine (all strengths), doxepin (strengths > 25 mg), imipramine (strengths > 10 mg), nortriptyline (strengths > 30 mg), trazodone (strengths > 75 mg), and trimipramine (strengths > 25 mg).

## Drug to Drug Conflicts for John W. Doe

Reaction Level: ■ No Conflict ■ Low Conflict ■ Moderate Conflict ■ Severe Conflict

Prescription Medications: Always review all results with physician! Over-the-Counter Medications: Always review all results with pharmacist or physician!  
All results assume that all relevant patient and third party information collected and organized is accurate and up-to-date.



### **FLUOXETINE: SEVERE CONFLICT!** Fluoxetine 40 Mg Capsule Conflicts With Phenelzine

Concurrent use may result in a severe reaction including hyperpyrexia, convulsions, excitability, muscular rigidity, fluctuations in blood pressure, convulsions, grand mal seizures, coma, and death. Symptoms of serotonin syndrome may include tremor, agitation, diaphoresis, hyperreflexia, clonus, tachycardia, hyperthermia, and muscle rigidity.(30)



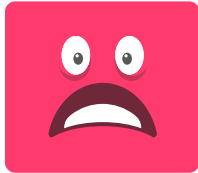
### **WARFARIN: NO CONFLICT.** Warfarin 10 Mg Tablet No Conflicts With Plavix

The concurrent use of platelet aggregation inhibitors and anticoagulants may result in an increased risk of bleeding

## Drug to Illness Conflicts for John W. Doe

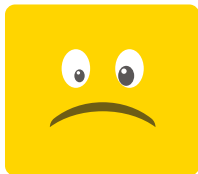
Reaction Level: ■ No Conflict ■ Low Conflict ■ Moderate Conflict ■ Severe Conflict

Prescription Medications: Always review all results with physician! Over-the-Counter Medications: Always review all results with pharmacist or physician!  
All results assume that all relevant patient and third party information collected and organized is accurate and up-to-date.



### **WARFARIN: SEVERE CONFLICT!** Warfarin 10 Mg Tablet Conflicts With Hemorrhage

This patient has hemorrhage on their illness list. The drug warfarin 10 mg tablet is contradicted in patients with hemorrhage.



### **XANAX: MODERATE CONFLICT!** Xanax 1 Mg Tablet Conflicts With Depression

This patient has depression on their illness list. Patients with depression should be carefully evaluated before initiating therapy and monitored closely while taking xanax 1 mg tablet.



### **ADVIL: MILD CONFLICT!** Advil 100 Mg Tablet Conflicts With Thrombosis

This patient has thrombosis on their illness list. Patients with thrombosis should be carefully evaluated before initiating therapy and monitored closely while taking advil 100 mg tablet.



### **BENICAR: NO CONFLICT.** Benicar 20 Mg Tablet No Conflicts With Type 2 Diabetes Mellitus

This patient has type 2 diabetes mellitus on their illness list. Patients with type 2 diabetes mellitus should be carefully monitored during therapy with benicar 20 mg tablet.



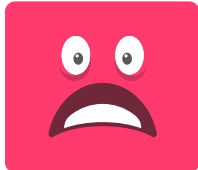
### **VIAGRA: NO CONFLICT.** Viagra 50 Mg Tablet No Conflicts With Leukemia

This patient has leukemia on their illness list. Patients with leukemia should be carefully monitored during therapy with viagra 50 mg tablet.

## Drug to Allergy Conflicts for John W. Doe

Reaction Level: ■ No Conflict ■ Low Conflict ■ Moderate Conflict ■ Severe Conflict

Prescription Medications: Always review all results with physician! Over-the-Counter Medications: Always review all results with pharmacist or physician!  
 All results assume that all relevant patient and third party information collected and organized is accurate and up-to-date.



### **XANAX: SEVERE CONFLICT!** Xanax 1 Mg Tablet Conflicts With Milk Containing Products

Xanax 1 Mg Tablet contains lactose, which belongs to the milk containing products Cross-sensitive Allergen Group. This patient's profile indicates milk containing products as an allergen, and milk containing products



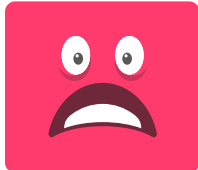
### **ADVIL: SEVERE CONFLICT!** Advil 100 Mg Tablet Conflicts With Ibuprofen

Advil 100 Mg Tablet contains ibuprofen. This patient's profile indicates ibuprofen as an allergen. Advil 100 Mg Tablet poses the risk of causing an ingredient-based allergic reaction in this patient.

## Drug to Lifestyle Conflicts for John W. Doe

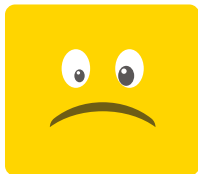
Reaction Level: ■ No Conflict ■ Low Conflict ■ Moderate Conflict ■ Severe Conflict

Prescription Medications: Always review all results with physician! Over-the-Counter Medications: Always review all results with pharmacist or physician!  
All results assume that all relevant patient and third party information collected and organized is accurate and up-to-date.



### **XANAX: SEVERE CONFLICT!** Xanax 1 Mg Tablet Conflicts With Alcohol

Concurrent use of benzodiazepines and alcohol-containing products may result in enhanced disruption of psychomotor performance and increased central nervous system depression.



### **WARFARIN: MODERATE CONFLICT!** Warfarin 10 Mg Tablet Conflicts With Food

Alterations in the amount of vitamin K in the diet may alter the patient's response to coumarin anticoagulants.



### **PLAVIX: MILD CONFLICT!** Plavix 75 Mg Tablet Conflicts With Citrus

Consumption of grapefruit juice may decrease formation of the active clopidogrel metabolite and decrease clopidogrel efficacy.(1)



### **PLAVIX: MILD CONFLICT!** Plavix 75 Mg Tablet Conflicts With Fruit

Consumption of grapefruit juice may decrease formation of the active clopidogrel metabolite and decrease clopidogrel efficacy.(1)



### **VIAGRA: NO CONFLICT.** Viagra 50 Mg Tablet No Conflicts With Citrus

Concurrent of grapefruit juice may result in increased effects of sildenafil, tadalafil, and vardenafil.



# Inhalant Allergens

Total IgE: 488 ASU



## Inhalants



Inhalants	ASU Antibody Standard Units	CLASS 00 =<100	CLASS 01 100-250	CLASS 02 251-500	CLASS 03 501-1000	CLASS 04 1001- 2000	CLASS 05 2001- 4000	CLASS 06 4001- 8000	CLASS 07 8001- 1600	CLASS 08 16001- 32000	CLASS 09 32001- 64000	CLASS 10 64001 +	
Cedar, Mountain	.70												
Privet	0.90												
Ragweed, Western	222.00												
Red Mulberry	0.55												
Red Oak	64000.												
Rough Marsh Elder	.41												
Russian Thistle	3225.00												
Sagebrush	32451.00												
Shag-bark Hickory	1400.00												
Tall Ragweed	405.00												
Timothy Grass	211.00												
Virginia Live Oak	.60												
Walnut, Black	.38												
White Oak	.46												
Bermuda Grass	107.00												
Box Elder	.45												
Juniper	751.00												
Maple Pollen	57000.00												

## Reaction Level:

● Mild ● Moderate ● Severe

**Allergen Specific IgE:** Antibody Standard Units (ASU) obtained directly from the 16-bit (2<sup>16</sup>) microarray scanner, which reports digital test values from 0-65,535. Allergen-specific IgE levels are reported as Trace, Very Low, Low, Moderate, High and Very High for classes 0, 1 and 2, 3 and 4, 5 and 6, 7 and 8, and 9 and 10. The numerical ASU ranges for classes 0-10 are 0-<100, 100-250, >250-500, >500-1,000, >1,000-2,000, >2,000-4,000, >4,000-8,000, >8,000-16,000, >16,000-32,000, >32,000-64,000, and >64,000, respectively

**Total IgE:** Test units are Antibody Standard Units (ASU) obtained directly from the 16-bit (2<sup>16</sup>) microarray scanner, which reports digital test values from 0-65,535. ASU values are converted computationally into a 0-1,000 scale to match for IU/L values of 1 ASU = 1 IU/L.

# Inhalant Allergens

Total IgE: 488 ASU



## Inhalants



Inhalants	ASU Antibody Standard Units	CLASS <b>00</b> =<100	CLASS <b>01</b> 100-250	CLASS <b>02</b> 251-500	CLASS <b>03</b> 501-1000	CLASS <b>04</b> 1001- 2000	CLASS <b>05</b> 2001- 4000	CLASS <b>06</b> 4001- 8000	CLASS <b>07</b> 8001- 1600	CLASS <b>08</b> 16001- 32000	CLASS <b>09</b> 32001- 64000	CLASS <b>10</b> 64001 +
Mugwort	.38	[Bar]										
Pecan Pollen	.46	[Bar]										
Perennial Ryegrass	107.00	[Bar]										
Cat Hair	.29	[Bar]										
Dog Hair	751.00	[Bar]										
Fire Ant	57000.00	[Bar]										
Honey Bee	224.00	[Bar]										
Wasp	411.00	[Bar]										
White-faced Hornet	228.00	[Bar]										
Yellow Jacket	.82	[Bar]										
Cladosporium, (F)	.46	[Bar]										
Drechslera	1490.00	[Bar]										
Alternaria	.84	[Bar]										
Aureobasidium	.62	[Bar]										
Mite Farinae	.35	[Bar]										
Mite Pteronyssinus	.51	[Bar]										
Cockroach Mix	104.00	[Bar]										

## Reaction Level:

● Mild ● Moderate ● Severe


**Allergen Specific IgE:** Antibody Standard Units (ASU) obtained directly from the 16-bit (2<sup>16</sup>) microarray scanner, which reports digital test values from 0-65,535. Allergen-specific IgE levels are reported as Trace, Very Low, Low, Moderate, High and Very High for classes 0, 1 and 2, 3 and 4, 5 and 6, 7 and 8, and 9 and 10. The numerical ASU ranges for classes 0-10 are 0-<100, 100-250, >250-500, >500-1,000, >1,000-2,000, >2,000-4,000, >4,000-8,000, >8,000-16,000, >16,000-32,000, >32,000-64,000, and >64,000, respectively

**Total IgE:** Test units are Antibody Standard Units (ASU) obtained directly from the 16-bit (2<sup>16</sup>) microarray scanner, which reports digital test values from 0-65,535. ASU values are converted computationally into a 0-1,000 scale to match for IU/L values of 1 ASU = 1 IU/L.

# Food Allergens

Total IgE: 488 ASU



Foods 	ASU Antibody Standard Units	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS
		00 =<100	01 100-250	02 251-500	03 501-1000	04 1001- 2000	05 2001- 4000	06 4001- 8000	07 8001- 1600	08 16001 32000	09 32001- 64000	10 64001 +
Egg White	.32	█										
Egg Yolk	16223.00											
CodFish	6400.00											
Tuna	.43	█										
Milk	756.00											
Almond	1455.00											
Walnut	175.25											
Peanut	6321											
Clam	161.23											
Crab	.77	█										
Lobster	.55	█										
Shrimp	5640											
Soybean	.81	█										
Buckwheat	.76	█										
Wheat grain	.38	█										

## Reaction Level:

● Mild ● Moderate ● Severe

**Allergen Specific IgE:** Antibody Standard Units (ASU) obtained directly from the 16-bit (2<sup>16</sup>) microarray scanner, which reports digital test values from 0-65,535. Allergen-specific IgE levels are reported as Trace, Very Low, Low, Moderate, High and Very High for classes 0, 1 and 2, 3 and 4, 5 and 6, 7 and 8, and 9 and 10. The numerical ASU ranges for classes 0-10 are 0-<100, 100-250, >250-500, >500-1,000, >1,000-2,000, >2,000-4,000, >4,000-8,000, >8,000-16,000, >16,000-32,000, >32,000-64,000, and >64,000, respectively

**Total IgE:** Test units are Antibody Standard Units (ASU) obtained directly from the 16-bit (2<sup>16</sup>) microarray scanner, which reports digital test values from 0-65,535. ASU values are converted computationally into a 0-1,000 scale to match for IU/L values of 1 ASU = 1 IU/L.