

# PureResponse™ Case Study 1



## Dory

*Dory's case focuses on Th17 activation, self-tissue response and innate immune support*

**Background:** 52-year-old attorney

**Chief Complaints:** Thyroid function and nerve health

### About

Concerned with thyroid function since the birth of her second child in her 30's. Recently been feeling that her movements are clumsy. She also observes occasional left arm numbness.

### Functional Medicine Symptom Inventory

Suggests the need to address and support intestinal microbial balance, occasional stress, fatigue, and thyroid function.

### Questionnaire Total Score

Th1 = 16, Th2 = 10

### Lab Tests

- CBC with differential white blood cell count—with attention to total wbc's and neutrophils
- EBV Antibody Profile:
  - EBV VCA IgM
  - EBV VCA IgG
  - EBNA IgG
  - EBV EA IgG
- IgG Food Sensitivity Assay
- Myelin basic protein antibody
- Imaging: MRI

### Interpretation

In any patient with existing self-tissue response, there is a clinical concern that the immune system can develop an interest in other tissue targets. Since clumsiness and occasional numbness were observed, a panel of brain-related antibodies was run. The primary concern here is that the new onset of occasional clumsiness and arm numbness raises concerns about nervous system function, in a patient who exhibits self-tissue response.

Expansion of the neutrophil compartment, relative to the rest of the WBC types, suggests an increase in the activity of neutrophils, driven by Th17 cell activation, a key component of the self-tissue response. This patient has a self-tissue process related to myelin. The clinical task is to support healthy immune balance and nerve health.



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# PureResponse™ Questionnaire

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Dory's responses

Please complete the following questions by circling 0-4 based on the frequency and severity of your symptoms.  
 0 = No symptoms; 1 = Occasional, mild symptoms; 2 = Frequent, mild symptoms; 3 = Occasional, severe symptoms; 4 = Frequent, severe symptoms

## Th1 Support and Innate Immune Support Indicators

Joint comfort, digestion, energy and/or mental clarity	0	1	2	3	4
Daily stress	0	1	2	3	4
Self-tissue response (joint, thyroid function)	0	1	2	3	4
Intestinal health (over the past year)	0	1	2	3	4
Current intestinal health (today)	0	1	2	3	4
Immune health (short-term)	0	1	2	3	4
Immune health (long-term)	0	1	2	3	4
Lip/mouth comfort (responds to lysine)	0	1	2	3	4
Urinary tract health (over the past year)	0	1	2	3	4
Current bladder function	0	1	2	3	4
Sinus health (over the past year)	0	1	2	3	4
Current sinus health (today)	0	1	2	3	4
Respiratory health (over the past year)	0	1	2	3	4
Current respiratory health (today)	0	1	2	3	4
How many times have you taken antibiotics in the past year?	0	1	2	3	4
<b>Score</b>	<b>16</b>				
<b>Age: add 2 points for every 5 years over 50</b>	<b>0</b>				
<b>Total (score + age points)</b>	<b>16</b>				

## Th2 Modulation Indicators

Bronchial/Airway function (childhood)	0	No				3 - Yes
Gastrointestinal function (childhood)	0	No				3 - Yes
Ear health (childhood)	0	No				3 - Yes
Bronchial/Airway function (over the past year)	0	1	2	3	4	
Airflow/Ease of breathing (today)	0	1	2	3	4	
Current lung health (today)	0	1	2	3	4	
Sinus health (over the past year)	0	1	2	3	4	
Current sinus health (today)	0	1	2	3	4	
Occasional forehead, cheek, or face discomfort	0	1	2	3	4	
Nasal mucous	0	1	2	3	4	
Mucous in stool	0	1	2	3	4	
Allergy to environment (pollen, mold, etc.)	0	1	2	3	4	
Food sensitivities / reactions	0	1	2	3	4	
Gastrointestinal health (over the past year)	0	1	2	3	4	
Current gastrointestinal health (today)	0	1	2	3	4	
Chronic stress	0	1	2	3	4	
How often do you work with toxic chemicals?	0	1	2	3	4	
<b>Score</b>	<b>10</b>					
<b>Age: add 2 points for every 5 years over 50</b>	<b>0</b>					
<b>Total (score + age points)</b>	<b>10</b>					

### Th1 Evaluation

Use your Th1 score to assess the need for Th1 and innate immune support:

- < 8 No support needed
- 9 - 13 Low-level support
- 14 - 19 Moderate-level support
- > 20 High-level support

### Th2 Evaluation

Use your Th2 score to assess the need for Th2 modulation:

- < 8 No modulation needed
- 9 - 13 Low-level modulation
- 14 - 19 Moderate-level modulation
- > 20 High-level modulation

### Consider the Following Lab Tests to Determine the Need for Th1 Support and/or Th2 Modulation

**Lab tests indicating the need for Th1 support:\*\***  
 CBC: monocytes (low)      Viral IgG's (and IgM's if appropriate) for:  
 TGFβ                              EBV                              HHV-6  
 NK cell %                        CMV                              Parvovirus  
 Salivary cortisol                HSV 1 & 2                        Coxsackie virus

**Lab tests indicating the need for Th2 modulation:\*\***  
 CBC: Eosinophils or Basophils (high)  
 CD8 count and/or CD4/CD8 ratio  
 Stool analysis

**Innate immune system support lab tests:\*\***  
 WBC's and TGFβ

\*\*All lab tests are available through Quest Diagnostics or LabCorp.



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<sup>+</sup>Dr. Yanuck is a retained consultant for Pure Encapsulations.  
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