

Patient NAME Mr John Doe	DATE OF BIRTH 1992-Jun-12	DISEASE Prostate	STAGE II	Physician NAME Administrator
SPECIMEN 20ml Blood	VIAL IDs 1			

REPORT SUMMARY

- **There is indication according to the marker profile that there is an activation of autoimmune response that causes the CFS.**
- **A VZV viral genome for the tested viruses has been amplified and detected.**

Information

Laboratory Process

- Isolation of the white cells using gradient Ficoll with a membrane that isolates white cells from platelets and red cells. The selection of WBC to each subgroup has been performed through cell separator using antibodies conjugated with magnetic beads. Additionally the serum has been collected and evaluated.
- PCR techniques have been performed using primers for viruses (HHVs, VZV, CMV, EBV, HTLV1, HPV16, HPV 18 and XMVR. For DNA viruses a direct PCR has been performed. For retroviruses a two step qPCR has been performed with relative quantification.
- For measuring of cytokines has been performed using gene expression profile using inflammatory markers (12K, 12X10³ markers).

VIRUS

SERUM

CELLS

VIRUS	SERUM	CELLS
HHV1	Negative	Negative
HHV2	Negative	Negative
HHV6	Negative	Negative
VZV	Negative	Positive (Ct:17)
EBV	Negative	Negative
CMV	Negative	Negative
HPV16	Negative	Negative
HPV18	Negative	Negative
HTLV1	Negative	Negative
XMVR	Negative	Negative
*HBV	Negative	Negative
HCV	Negative	Negative
HIV	Negative	Negative
TEC1/16S	Negative	Negative

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Negative	Ct > 35
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Low value	30 < Ct <= 35
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Intermediate value	28 < Ct <= 30
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High value	Ct <= 28
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SYMBOL	CYTOKINE NAME	COMPARATIVE VALUE
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IL-1-r	Interleukin 1 rec.	10% over control
IL-3-r	Interleukin 3 rec.	10% over control
IL-6-r	Interleukin 6 rec.	10% over control
IL-7-r	Interleukin 7 rec.	10% over control
IL-9-r	Interleukin 9 rec.	10% over control
IL-12-r	Interleukin 12 rec.	10% over control
IL-13-r	Interleukin 13 rec.	10% over control
IL-15-r	Interleukin 15 rec.	10% over control
IL-17-r	Interleukin 17 rec.	10% over control
IFNa	Interferone a	10% over control
IFNb	Interferone b	10% over control
TNF-a-r	Tumor Nectosis F. receptor-a	10% over control
TNF-b-r	Tumor Nectosis F. receptor-b	10% over control
Fas-r	Apoptosis	Normal
Jak/STAT path	Autoimmune response active	-5% below control
AIRE	Autoimmune Regulator Factor	Normal

Sincerely,

Dr. Ioannis Papatiriu MD, PhD, SCym