



Hormone Report; saliva

Laboratory, Inc.

Ph.D., Director

KS 66214

(913)

Fax (913)

Order: 180821-0060



Client #: 24510

Laboratory
Street
KS 66214 USA

Patient: Kaveri Alaghappan

Id: P181000105 Client Ref: 605257

Age: 33 DOB: 12/27/1984

Sex: Female

Body Mass Index (BMI): 18.6

Menopausal Status: Pre-menopausal,
LMP: 07/21/2018

Sample Collection Date/Time

Date Collected 08/12/2018

Morning 08/12/2018 0745

Noon 08/12/2018 1345

Evening 08/12/2018 1800

Night 08/12/2018 2200

Date Received 08/21/2018

Date Reported 08/23/2018

Analyte	Result	Unit	L	WR	H	Reference Interval	Supplementation Range**
Estrone (E1)*	16.9	pg/mL		◆		< 45	
Estradiol (E2)	0.70	pg/mL		◆		0.5 - 5.0	1.5 - 7.2
Estriol (E3)*	<5.0	pg/mL		◆		< 66	67 - 708
EQ (E3 / (E1 + E2)) Ratio	0.28		↓			> 1.0	
Progesterone (Pg)	96	pg/mL	↓			127 - 446	500 - 3000
Pg/E2 Ratio	137		↓			200 - 600	
Testosterone	7	pg/mL		◆		6.0 - 49	30 - 60
DHEA*	44	pg/mL	↓			106 - 300	

Hormone Comments:

- Estrone, estradiol and estriol are within the reference ranges, however the Estrogen Quotient (EQ) is low. Estriol is less potent than the other estrogens and when present in sufficient quantities (as indicated by an optimal EQ) it plays an antagonistic role, and may govern the proliferative effects of estrone and estradiol. Estriol supplementation is a consideration to balance this quotient and reduce associated risks. .
- Progesterone to estradiol (Pg/E2) ratio and reported symptoms are consistent with progesterone insufficiency (estrogen dominance). Supplementation with topical progesterone to correct this relative deficiency is a consideration. Note: The progesterone level is suggestive of an anovulatory cycle, luteal phase failure or collection outside of luteal phase. .
- DHEA levels typically decline with age and the level measured here is below the reference range. The low DHEA level may warrant supplementation for optimal well-being. Note: Supplementation with DHEA may increase testosterone and/or estradiol levels.

Notes:

Estriol result confirmed via repeat analysis

RI= Reference Interval, L (blue)= Low (below RI), WRI (green)= Within RI (optimal), WRI (yellow)= Within RI (not optimal), H (red)= High (above RI)

The current samples are routinely held three weeks from receipt for additional testing.

The Pg/E2 ratio is an optimal range established based on clinical observation. Progesterone supplementation is generally required to achieve this level in men and postmenopausal women.



Adrenal Hormone Report; saliva

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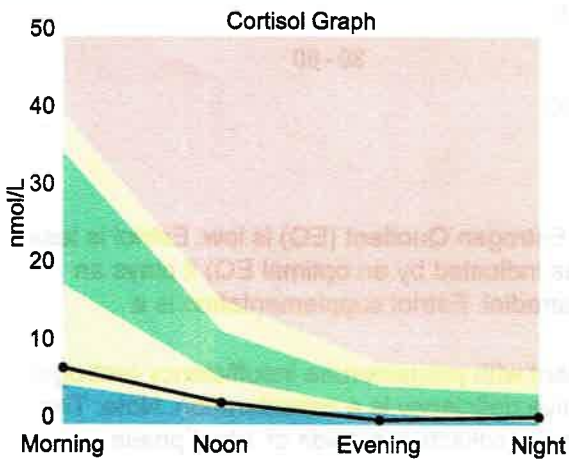
Laboratory
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Analyte	Result	Unit	L	WR	H	Optimal Range	Reference Interval
Cortisol Morning	7.3	nmol/L		WRI		18 - 35	5.1 - 40
Cortisol Noon	2.8	nmol/L		WRI		6.0 - 12	2.1 - 16
Cortisol Evening	0.58	nmol/L	L			2.0 - 5.0	1.5 - 8.0
Cortisol Night	0.99	nmol/L		WRI		1.0 - 4.0	0.33 - 7.0
DHEA*	44	pg/mL	L				106 - 300



Hormone Comments:

- Diurnal cortisol pattern and reported symptoms are consistent with evolving (Phase 2) HPA axis (adrenal gland) dysfunction.
- DHEA levels typically decline with age and the level measured here is below the reference range. The low DHEA level may warrant supplementation for optimal well-being. Note: Supplementation with DHEA may increase testosterone and/or estradiol levels.

Adrenal Phase: 2



Notes:

RI= Reference Interval, L (blue)= Low (below RI), WRI (green)= Within RI (optimal), WRI (yellow)= Within RI (not optimal), H (red)= High (above RI)
 The current samples are routinely held three weeks from receipt for additional testing.

Accession: 19-21123

Phone: 215-

Fax: 1-215-

Received: 5/10/2019

Completed: 5/15/2019

Reported: 5/15/2019

QUAKERTOWN, PA 18951

Results For: ALAGHAPPAN, KAVERI

Age: 34 DOB: 12/27/1984

Sex: F

Patient's Tel: 1-484-302-0262

Ref. ID:

Specimen Collected: 5/4/2019

ePeriM Expanded Perimenopause Hormone Panel - Saliva

Free Fraction - Hormone	Results		Range
	1st Sample	2nd Sample	
DHEA - Dehydroepiandrosterone [DHEA + DHEA-S] (saliva)	1 Low	1 Low	Adults: 3-10 ng/ml
TTF - Testosterone (saliva)	49 High	36 Normal	Adults Borderline: 6-9 pg/ml Normal: 10-38 pg/ml
E1 - Estrone (saliva)	151 High	16 Low	Normal for Age 16-39: 30-58 pg/ml
E2 - Estradiol (saliva)	12	4	Postmenopause-No HRT: 1-4 pg/ml BHRT Target Range: 2-10 pg/ml Follicular: 2-10 pg/ml Luteal: 3-16 pg/ml
E3 - Estriol (saliva)	50 High	14	Postmenopause-No HRT: 7-18 pg/ml BHRT Target Range: 14-38 pg/ml Cycling Female: 12-25 pg/ml
P1 - Progesterone (saliva)	33	69	Postmenopause-No HRT: 5-95 pg/ml BHRT Target Range: 100-300 pg/ml Follicular: 20-100 pg/ml Luteal: 65-500 pg/ml
FSH - Follicle stimulating hormone (saliva)	41	67	Cycling Female: <125 uIU/mL Postmenopause: 90-500 uIU/mL
LH - Luteinizing hormone (saliva)	42	28	Cycling Female: 8-30 uIU/mL HRT: 8-30 uIU/mL Postmenopause-No HRT: 25-200 uIU/mL

Note: The BHRT target range is based on optimal physiological hormone levels in cycling females. Current or previous topical hormone use or inadvertent exposure may lead to increased salivary hormone levels that exceed physiological or BHRT target ranges.

Diagnosis Code(s): Not Provided To The Lab

Results and comments above are intended for informational purposes and should not be construed as medical advice. Use this report in context of the clinical picture and patient history before initiating any treatment.

COURTESY INTERPRETATION of test and technical support are available upon request, to Physicians Only.

SCANNED

Patient Report

Patient: ALAGHAPPAN, KAVERI
DOB: 12/27/1984

Patient ID:

Control ID: 10462458881

Specimen ID: 046-504-0551-0
Date collected: 02/15/2019 0943 Local

TESTS	RESULT	FLAG	UNITS	REFERENCE INTERVAL	LAB
	1 day - 30 days		Not estab.	Not estab.	
	1 month - 5 months		1 - 30	0 - 16	
	6 months		2 - 52	1 - 24	
	7 months - 11 months		2 - 82	2 - 82	
	1 year		3 - 200	2 - 100	
	2 years - 3 years		6 - 366	4 - 227	
	4 years - 6 years		14 - 710	6 - 455	
	7 years - 9 years		19 - 893	12 - 708	
	10 years		22 - 1055	12 - 708	
	11 years		22 - 1055	12 - 796	
	12 years		16 - 810	12 - 796	
	13 years		19 - 893	9 - 681	
	14 years - 15 years		20 - 798	6 - 681	
	16 years		18 - 628	9 - 472	
	17 years - 100 years		6 - 495	6 - 495	

Pregnenolone, MS 36 ng/dL 03
 Reference Range:
 Adults: <151

Hemoglobin A1c
 Hemoglobin A1c 5.3 % 4.8 - 5.6 02
 Please Note: 02
 Prediabetes: 5.7 - 6.4
 Diabetes: >6.4
 Glycemic control for adults with diabetes: <7.0

DHEA-Sulfate 33.3 Low ug/dL 84.8 - 378.0 02

Testosterone, Serum 4 Low ng/dL 8 - 48 02

Prolactin 10.9 ng/mL 4.8 - 23.3 02

Estradiol 205.3 pg/mL 02
 Adult Female:
 Follicular phase 12.5 - 166.0
 Ovulation phase 85.8 - 498.0
 Luteal phase 43.8 - 211.0
 Postmenopausal <6.0 - 54.7
 Pregnancy
 1st trimester 215.0 - >4300.0
 Girls (1-10 years) 6.0 - 27.0

Roche ECLIA methodology

Vitamin D, 25-Hydroxy 30.7 ng/mL 30.0 - 100.0 02
 Vitamin D deficiency has been defined by the Institute of Medicine and an Endocrine Society practice guideline as a level of serum 25-OH vitamin D less than 20 ng/mL (1,2). The Endocrine Society went on to further define vitamin D insufficiency as a level between 21 and 29 ng/mL (2).
 1. IOM (Institute of Medicine). 2010. Dietary reference

Iron and TIBC

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Iron Bind.Cap.(TIBC)	368		ug/dL	250-450
UIBC ⁰¹	307		ug/dL	131-425
Iron ⁰¹	61		ug/dL	27-159
Iron Saturation	17		%	15-55

DHEA, Serum

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Dehydroepiandrosterone (DHEA) A 02	54		ng/dL	31-701

Age		
1 - 5 years	0 - 67	
6 - 7 years	0 - 110	
8 - 10 years	0 - 185	
11 - 12 years	0 - 201	
13 - 14 years	0 - 318	
15 - 16 years	39 - 481	
17 - 19 years	40 - 491	
>19 years	31 - 701	

Vitamin D, 25-Hydroxy

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Vitamin D, 25-Hydroxy ⁰¹	36.1	26.1 01/24/2020	ng/mL	30.0-100.0

Vitamin D deficiency has been defined by the Institute of Medicine and an Endocrine Society practice guideline as a level of serum 25-OH vitamin D less than 20 ng/mL (1,2). The Endocrine Society went on to further define vitamin D insufficiency as a level between 21 and 29 ng/mL (2).

1. IOM (Institute of Medicine). 2010. Dietary reference intakes for calcium and D. Washington DC: The National Academies Press.
2. Holick MF, Binkley NC, Bischoff-Ferrari HA, et al. Evaluation, treatment, and prevention of vitamin D deficiency: an Endocrine Society clinical practice guideline. JCEM. 2011 Jul; 96(7):1911-30.

Homocyst(e)ine

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Homocyst(e)ine ⁰¹	9.8	11.9 01/24/2020	umol/L	0.0-14.5