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Date of Birth : 20-Feb-1976  
 Sex : M  
 Collected : 26/Feb/2021  
 Received: 02/Mar/2021  
 31/154 CURRUMBIN CREEK ROAD  
 CURRUMBIN WATERS QLD 4223  
 Lab id : **3724360** UR#: 6572046

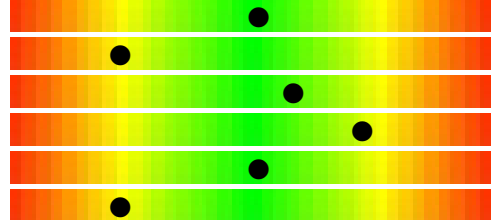
HERB BAR  
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 TUGUN QLD 4224

## ENDOCRINOLOGY SALIVA

SALIVA

### Male Hormone Profile-Extensive

	Result	Range	Units
<b>DHEAS.</b>	<b>17.0</b>	5.0 - 30.0	nmol/L
<b>Androstenedione...</b>	<b>0.70</b>	0.70 - 5.20	nmol/L
<b>Testosterone.</b>	<b>479.0</b>	100.0 - 720.0	pmol/L
<b>Estradiol (E2)</b>	<b>5.4</b>	1.0 - 6.0	pmol/L
<b>Estrone (E1)</b>	<b>25.6</b>	7.7 - 40.0	pmol/L
<b>Androstenedione/E1 Ratio</b>	<b>0.03 *L</b>	0.05 - 1.10	RATIO



(\*) Result outside normal reference range

(L) Result is below lower limit of reference range





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### Saliva Hormone Comments

TABLE 1: SALIVARY HORMONE REFERENCE RANGES: (NOT ON HRT - BASELINE)

	E2	E1	E3	Progesterone	DHEAS
<b>FEMALE</b>					
Pre/menarcheal				44-195	
Follicular	<18	9.5-40	7.7-49	<320	
Mid-Cycle	11-29	9.5-40	7.7-49	-	
Luteal	<18	9.5-40	7.7-49	320-1998	
Post Men.	<6	9.5-40	9.0-62	<213	<6.5
Premenopausal, no oral contraceptives					2.5-25.0
Premenopausal, with oral contraceptives					2.0-8.0
<b>MALE</b>	<6	7.7-40	6.6-38	<213	5.0-30.0

TABLE 2: TARGET REFERENCE RANGES: (ON HRT - 24 to 48 hr post last dose)

	E2	E1	E3	Progesterone	Testosterone Age Dpndt
Oral	7-73	-	69-139	320-1998	
Patch	4-18	-	-	-	
Cream/Gel	37-184	-	1040-1734	3180-15000	F: 277-867 M: 347-1734

\*\*\* PLEASE NOTE NEW SALIVA HORMONES REFERENCE RANGES \*\*\*

**SALIVA ESTRONE (E1)** is produced primarily from androstenedione originating from the gonads or the adrenal cortex. In premenopausal women, more than 50% of the E1 is secreted by the ovaries. In prepubertal children, men and non-supplemented postmenopausal women, the major portion of E1 is derived from peripheral tissue conversion of androstenedione. Interconversion of E1 and E2 also occurs in peripheral tissue. Bioassay data indicate that the estrogenic action is much less than E2. E1 is a primary estrogenic component of several pharmaceutical preparations, including those containing conjugated and esterified estrogens. In premenopausal women E1 levels generally parallel those of E2. After menopause E1 levels increase, possibly due to increased conversion of androstenedione to E1.

**SALIVA E1** level is within range for a male, indicating minimal aromatisation of androgens to E1.

**SALIVA E2** level is within range for a male and suggestive of minimal aromatisation of androgens. Prudent to check E1 levels as well on males especially if the BMI is >30.

#### LOW DHEAS LEVEL:

Saliva DHEAs level is below the mean range and suggestive of the need for supplementation with 25mg of DHEA.

Maladaptation if consistently elevated cortisol. Adrenal fatigue if morning and evening cortisol only elevated, or if all markers low.

(\*) Result outside normal reference range

(L) Result is below lower limit of reference range



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**SALIVA FREE TESTOSTERONE level is above the mean reference range and essentially adequate.**