Name: Dr Tanmoy Kar Age/Sex: 29yrs/M

Date: 22nd Mar 2016 Time: 3:45 pm

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**RESTING HEART RATE VARIABILITY REPORT\***

|  |  |  |
| --- | --- | --- |
| **Parameter** | **Observed value** | **Normal value** |
| SDNN (in ms) | 31.79 | 141±39 |
| RMSSD (in ms) | 9.85 | 27±12 |
| Total Power (in ms2) | 1329 | 3466±1018 |
| Low frequency power (in ms2) | 153.1 | 1170±416 |
| High frequency power (in ms2) | 42.6 | 975±203 |
| Low frequency (normalized units) | 80.39 | 54±4 |
| High frequency (normalized units) | 22.37 | 29±3 |
| LF/HF ratio | 3.59 | 0.5-1.5 |

##### **CONVENTIONAL CARDIAC AUTONOMIC FUNCTION TEST REPORT**

##### **(In Response to Physiological Stressors) \*\***

|  |  |  |
| --- | --- | --- |
| **Parameters/tests** | **Observed value** | **Normal range** |
| Deep breathing difference | 26.66 | >15 |
| Valsalva ratio | 1.56 | >1.21 |
| Max: min ratio (orthostatic test) | 1.46 | >1.04 |
| Δ ↑DP (isometric handgrip test) (mmHg) | Increased by 11 | >15 |
| Δ ↓SP (orthostatic test) (mmHg) | Increased by 1 | <10 |

**Comments:**

1. The resting average HR was 89 BPM.
2. The resting BP was 121/81mm of Hg.
3. Respiratory sinus arrhythmia was adequate during deep breathing test.
4. Valsalva ratio was adequate.
5. During isometric hand grip test BP basal 120/80mm of Hg, BP after 2 min 137/91mm of Hg
6. Blood pressure and Heart rate changes during Orthostatic test:

|  |  |  |  |
| --- | --- | --- | --- |
|  | **SBP (in mm of Hg)** | **DBP (in mm of Hg)** | **HR (per min)** |
| Basal | 122 | 83 | 91 |
| Immediately after standing | 125 | 85 | 112 |
| 1 min after standing | 131 | 83 | 95 |
| 2 min after standing | 123 | 83 | 93 |
| 5 min after standing | 124 | 88 | 91 |

1. No postural symptoms were reported by the subject.

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**TILT TABLE TEST REPORT**

|  |  |  |  |
| --- | --- | --- | --- |
| **Time(minutes)** | **SBP(mm of Hg)** | **DBP(mm of Hg)** | **HR(BPM)** |
| Basal | 122 | 80 | 89 |
| TILTED | | | |
| Immediately after tilt | 118 | 80 | 86 |
| 1min | 128 | 90 | 91 |
| 2 min | 117 | 84 | 83 |
| 3 min | 128 | 84 | 91 |
| 4 min | 124 | 82 | 81 |
| 5 min | 125 | 88 | 86 |
| 7min | 130 | 86 | 82 |
| 10 min | 127 | 88 | 84 |
| 12 min | 118 | 85 | 84 |
| 15 min | 120 | 80 | 86 |
| 18 min | 127 | 89 | 92 |
| 20 min | 129 | 87 | 85 |
| TILTED BACK | | | |
| Immediately | 127 | 81 | 81 |
| 1 min | 119 | 83 | 81 |
| 2 min | 126 | 82 | 76 |
| 5 min | 130 | 87 | 76 |

**Comments:**

* Subject was *hemodynamically stable* during tilt table test
* Subject *did not report of any postural symptoms* during tilt table test

**IMPRESSION:**

* Resting HRV parameters show ***Reduction in Total Power with Sympathovagal Imbalance with Sympathetic Dominance***
* Conventional Cardiac Autonomic Function Test (In Response to Physiological Stressors) shows ***Normal Cardiac Autonomic Function***
* Tilt Table Test is ***Negative***
* **Kindly correlate clinically**