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Dr. Yugam Chopra  
 MD (Pathology)  
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|                       |  |                          |                        |
|-----------------------|--|--------------------------|------------------------|
| <b>NAME</b>           | : Baby. HARLEEN                        | <b>PATIENT ID</b>        | : 1718253              |
| <b>AGE/ GENDER</b>    | : 6 YRS/FEMALE                         | <b>REG. NO./LAB NO.</b>  | : 012501070032         |
| <b>COLLECTED BY</b>   | :                                      | <b>REGISTRATION DATE</b> | : 07/Jan/2025 01:57 PM |
| <b>REFERRED BY</b>    | : SNEH HOSPITAL (AMBALA CANTT)         | <b>COLLECTION DATE</b>   | : 07/Jan/2025 02:01PM  |
| <b>BARCODE NO.</b>    | : 01523578                             | <b>REPORTING DATE</b>    | : 07/Jan/2025 02:55PM  |
| <b>CLIENT CODE.</b>   | : KOS DIAGNOSTIC LAB                   |                          |                        |
| <b>CLIENT ADDRESS</b> | : 6349/1, NICHOLSON ROAD, AMBALA CANTT |                          |                        |

| Test Name | Value | Unit | Biological Reference interval |
|-----------|-------|------|-------------------------------|
|-----------|-------|------|-------------------------------|

**COAGULATION PANEL**  
**PROTHROMBIN TIME STUDIES (PT/INR)**

|   |                   |      |             |
|---|-------------------|------|-------------|
| PT TEST (PATIENT)<br>by PHOTO OPTICAL CLOT DETECTION                    | 18.3 <sup>H</sup> | SECS | 11.7 - 15.1 |
| PT (CONTROL)<br>by PHOTO OPTICAL CLOT DETECTION                         | 12                | SECS |             |
| ISI<br>by PHOTO OPTICAL CLOT DETECTION                                  | 1.1               |      |             |
| INTERNATIONAL NORMALISED RATIO (INR)<br>by PHOTO OPTICAL CLOT DETECTION | 1.59 <sup>H</sup> |      | 0.87 - 1.20 |
| PT INDEX<br>by PHOTO OPTICAL CLOT DETECTION                             | 65.57             | %    |             |

**ADVICE**

**KINDLY CORRELATE CLINICALLY**

**INTERPRETATION:-**


1. INR is the parameter of choice in monitoring adequacy of oral anti-coagulant therapy. Appropriate therapeutic range varies with the disease and treatment intensity.
2. Prolonged INR suggests potential bleeding disorder /bleeding complications
3. Results should be clinically correlated.
4. Test conducted on Citrated Plasma

**RECOMMENDED THERAPEUTIC RANGE FOR ORAL ANTI-COAGULANT THERAPY (INR)**

| INDICATION   |                | INTERNATIONAL NORMALIZED RATIO (INR) |
|--|----------------|--------------------------------------|
| Treatment of venous thrombosis                         | Low Intensity  | 2.0 - 3.0                            |
| Treatment of pulmonary embolism                        |                |                                      |
| Prevention of systemic embolism in tissue heart valves |                |                                      |
| Valvular heart disease                                 |                |                                      |
| Acute myocardial infarction                            |                |                                      |
| Atrial fibrillation                                    |                |                                      |
| Bileaflet mechanical valve in aortic position          |                |                                      |
| Recurrent embolism                                     | High Intensity | 2.5 - 3.5                            |
| Mechanical heart valve                                 |                |                                      |



  
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|--|-------|------|-------------------------------|
| Antiphospholipid antibodies <sup>+</sup> |       |      |                               |

**COMMENTS:**

The prothrombin time (PT) and its derived measures of prothrombin ratio (PR) and international normalized ratio (INR) are measures of the efficacy of the extrinsic pathway of coagulation. PT test reflects the adequacy of factors I (fibrinogen), II (prothrombin), V, VII, and X. It is used in conjunction with the activated partial thromboplastin time (aPTT) which measures the intrinsic pathway.

The common causes of prolonged prothrombin time are :

- 1.Oral Anticoagulant therapy.
- 2.Liver disease.
- 3.Vit K. deficiency.
- 4.Disseminated intra vascular coagulation.
- 5.Factor 5, 7 , 10 or Prothrombin deficiency



  
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### ACTIVATED PARTIAL THROMBOPLASTIN TIME (APTT)

|                                 |      |      |             |
|---------------------------------|------|------|-------------|
| APTT (PATIENT VALUE)            | 40.2 | SECS | 31.8 - 43.7 |
| by PHOTO OPTICAL CLOT DETECTION |      |      |             |

#### INTERPRETATION:-

The activated partial thromboplastin time (aPTT or APTT) is a performance indicator measuring the efficacy of both the **intrinsic** (now referred to as the contact activation pathway) and the common coagulation pathways. Apart from detecting abnormalities in blood clotting, it is also used to monitor the treatment effects with heparin, a major anticoagulant. It is used in conjunction with the prothrombin time (PT) which measures the extrinsic pathway.

#### COMMON CAUSES OF PROLONGED APTT :-

1. Disseminated intravascular coagulation.
2. Liver disease.
3. Massive transfusion with stored blood.
4. Heparin administration or contamination.
5. A circulating Anticogulant.
6. Deficiency of a coagulation Factor other than factor 7.



  
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## CLINICAL CHEMISTRY/BIOCHEMISTRY

### BILIRUBIN COMPLETE

|   |                          |       |   |
|---|--------------------------|-------|---|
| BILIRUBIN TOTAL: SERUM<br><i>by DIAZOTIZATION, SPECTROPHOTOMETRY</i>                | <b>18.32<sup>H</sup></b> | mg/dL | INFANT: 0.20 - 8.00<br>ADULT: 0.00 - 1.20 |
| BILIRUBIN DIRECT (CONJUGATED): SERUM<br><i>by DIAZO MODIFIED, SPECTROPHOTOMETRY</i> | <b>12.43<sup>H</sup></b> | mg/dL | 0.00 - 0.40                               |
| BILIRUBIN INDIRECT (UNCONJUGATED): SERUM<br><i>by CALCULATED, SPECTROPHOTOMETRY</i> | <b>5.89<sup>H</sup></b>  | mg/dL | 0.10 - 1.00                               |



  
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|---|-------|-------|-------------------------------|
| <b>PROTEINS COMPLETE</b>                                      |       |       |                               |
| TOTAL PROTEINS: SERUM<br><i>by BIURET, SPECTROPHOTOMETRY</i>  | 7.02  | gm/dL | 6.20 - 8.00                   |
| ALBUMIN: SERUM<br><i>by BROMOCRESOL GREEN</i>                 | 3.66  | gm/dL | 3.50 - 5.50                   |
| GLOBULIN: SERUM<br><i>by CALCULATED, SPECTROPHOTOMETRY</i>    | 3.36  | gm/dL | 2.30 - 3.50                   |
| A : G RATIO: SERUM<br><i>by CALCULATED, SPECTROPHOTOMETRY</i> | 1.09  | RATIO | 1.00 - 2.00                   |

\*\*\* End Of Report \*\*\*



  
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