

Item Bank Templates

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updated 4/19/2021

2 Rows 2 Columns Align Left

| | |
|----------------|----------------|
| Row 1 Column 1 | Row 1 Column 2 |
| Row 2 Column 1 | Row 2 Column 2 |

6 Rows 4 Columns Align Center

| | | | |
|---|---|---|---|
| | X | Y | Z |
| A | 1 | 2 | 3 |
| B | 1 | 2 | 3 |
| C | 1 | 2 | 3 |
| D | 1 | 2 | 3 |
| E | 1 | 2 | 3 |

6 Rows 5 Columns Align Center

| | | | | |
|---|---|---|---|---|
| | W | X | Y | Z |
| A | 1 | 2 | 3 | 4 |
| B | 1 | 2 | 3 | 4 |
| C | 1 | 2 | 3 | 4 |
| D | 1 | 2 | 3 | 4 |
| E | 1 | 2 | 3 | 4 |

BBTM Family Study

| | ABO | Rh | HLA-A | HLA-B |
|-----------|-----|----|-------|-------|
| Father | X | x | x | x |
| Mother | X | x | x | x |
| Sibling 1 | X | x | x | x |
| Sibling 2 | X | x | x | x |
| Sibling 3 | X | x | x | x |

Blood Gases

| Test (units) | Patient Result | Reference Value |
|---------------------------|----------------|-----------------|
| pH | x | 7.38–7.42 |
| pCO ₂ (mm Hg) | x | 38–42 |
| pO ₂ (mm Hg) | x | 80–100 |
| Oxygen saturation (%) | x | >95 |
| HCO ₃ (mmol/L) | x | 22–29 |

Cerebrospinal Fluid (CSF)

| Test (units) | Patient Result | Reference Value |
|---------------------------------|----------------|---|
| CSF total protein (mg/100 mL) | x | 15–60 |
| CSF glucose (mg/100 mL) | x | 50–80 (or greater than two-thirds of blood glucose level) |
| CSF WBC count (all mononuclear) | x | 0–5 |
| CSF RBC count | x | 0 |

CBC

| Test (units) | Patient Result | Reference Value |
|----------------------------------|----------------|--|
| WBC (x 10 ⁹ /L) | x | 3.5–10.5 |
| RBC (x 10 ¹² /L) | x | 4.3–5.7 (male) 3.9–5.0 (female) |
| Hemoglobin (g/dL) | x | 13.5–17.5 (male) 12.0–15.5 (female) |
| Hematocrit (%) | x | 38.8–50.0 (male) 34.9–44.5 (female) |
| MCV (fL) | x | 80–100 |
| MCH (g/dL) | x | 25–35 |
| MCHC (g/dL) | x | 31–36 |
| RDW (%) | x | 11.6–14.8 |
| Platelets (x 10 ⁹ /L) | x | 150–450 |

CBC w/ Reticulocyte Ct

| Test (units) | Patient Result | Reference Value |
|---|----------------|--|
| WBC (x 10 ⁹ /L) | x | 3.5–10.5 |
| RBC (x 10 ¹² /L) | x | 4.3–5.7 (male) 3.9–5.0 (female) |
| Hemoglobin (g/dL) | x | 13.5–17.5 (male) 12.0–15.5 (female) |
| Hematocrit (%) | x | 38.8–50.0 (male) 34.9–44.5 (female) |
| MCV (fL) | x | 80–100 |
| MCH (g/dL) | x | 25–35 |
| MCHC (g/dL) | x | 31–36 |
| RDW (%) | x | 11.6–14.8 |
| Platelets (x 10 ⁹ /L) | x | 150–450 |
| Reticulocyte count (x 10 ⁹ /L) | x | 25–75 |

Coagulation

| Test (units) | Patient Result | Reference Value |
|---------------------------------------|----------------|--|
| aPTT (sec) | x | 28–38 |
| PT (sec)/INR | x/x | 9.5–13.8 / 0.8–1.2 |
| Platelet count (x 10 ⁹ /L) | x | 150–450 |
| Thrombin time (sec) | x | 15–23 |
| Fibrinogen (mg/dL) | x | 200–430 |
| D-dimer (ng/mL) | x | <250 |
| Protein C activity (%) | x | 70–150 |
| Protein S activity (%) | x | 65–160 (male; female >50) 50–160 (female <50) |

Coagulation Hemostasis

| Test (units) | Patient Result | Reference Value |
|---------------------------------------|----------------|--|
| aPTT (sec) | x | 28–38 |
| PT (sec)/INR | x/x | 9.5–13.8 / 0.8–1.2 |
| Platelet count (x 10 ⁹ /L) | x | 150–450 |
| Thrombin time (sec) | x | 15–23 |
| Fibrinogen (mg/dL) | x | 200–430 |
| D-dimer (ng/mL) | x | <250 |
| Protein C activity (%) | x | 70–150 |
| Protein S activity (%) | x | 65–160 (male; female >50) 50–160 (female <50) |
| von Willebrand factor antigen (%) | x | 50–150 |
| Factor VIII (%) | x | 50–150 |

Electrolytes, Glucose, BUN, Creatinine, Osmolality

| Test (units) | Patient Result | Reference Value |
|-------------------------|----------------|-----------------|
| Sodium (mmol/L) | x | 135–145 |
| Potassium (mmol/L) | x | 3.6–5.2 |
| Chloride (mmol/L) | x | 102–112 |
| Bicarbonate (mmol/L) | x | 22–29 |
| Glucose, random (mg/dL) | x | 70–140 |
| BUN (mg/dL) | x | 6–24 |
| Creatinine (mg/dL) | x | 0.6–1.3 |
| Osmolality (mOsm/kg) | x | 275–295 |

Immunophenotype

| | CD3 | CD4 | CD45RO | CD7 |
|---|-----|-----|--------|-----|
| A | neg | + | + | neg |
| B | + | neg | + | neg |
| C | + | + | neg | neg |
| D | + | + | + | neg |
| E | + | + | + | + |

Iron Studies

| Test (units) | Patient Result | Reference Value |
|--------------------------------------|----------------|-----------------|
| Serum iron (mmol/L) | x | 10–30 |
| Total iron-binding capacity (mmol/L) | x | 40–75 |
| Serum ferritin (mg/L) | x | 40–340 |

Lipid Panel

| Test (units) | Patient Result | Reference Value |
|---------------------------|----------------|------------------------------|
| Total cholesterol (mg/dL) | x | <200 |
| HDL cholesterol (mg/dL) | x | >40 (males) >50 (females) |
| Triglycerides (mg/dL) | x | <150 |

Liver Panel

| Test (units) | Patient Result | Reference Value |
|--|----------------|------------------------------------|
| Total bilirubin (mg/dL) | x | ≤1.2 |
| Direct bilirubin (mg/dL) | x | 0.0–0.3 |
| Aspartate aminotransferase [AST] (U/L) | x | 8–48 (males) 8–43 (females) |
| Alanine aminotransferase [ALT] (U/L) | x | 7–55 (males) 7–45 (females) |
| Alkaline phosphatase (U/L) | x | 45–115 (males) 55–142 (females) |
| Total protein (g/dL) | x | 6.3–7.9 |
| Albumin (g/dL) | x | 3.5–5.0 |

Neonatal Amino Acid Screen

| Test | Patient Result (mmol/L) | Reference Value (mmol/L) |
|----------------|-------------------------|--------------------------|
| Alanine | x | 230–410 |
| Arginine | x | 20–90 |
| Asparagine | x | 20–70 |
| Aspartic acid | x | 0–20 |
| Citrulline | x | 0–30 |
| Glutamic acid | x | 20–110 |
| Glutamine | x | 530–960 |
| Glycine | x | 220–520 |
| Histidine | x | 40–12 |
| Hydroxyproline | x | 0–30 |
| Isoleucine | x | 20–60 |
| Leucine | x | 40–110 |
| Lysine | x | 110–270 |
| Methionine | x | 0–50 |
| Ornithine | x | 40–160 |
| Phenylalanine | x | 40–110 |
| Proline | x | 100–280 |
| Serine | x | 90–250 |
| Taurine | x | 70–220 |
| Threonine | x | 110–340 |
| Tyrosine | x | 40–100 |
| Valine | x | 80–250 |

Quad Test

| Test | Multiple of the Median (MOM) |
|------------------------------|------------------------------|
| Alpha-fetoprotein (AFP) | x |
| Unconjugated estriol (uE3) | x |
| Human chorionic gonadotropin | x |
| Dimeric inhibin A | x |

Serum Proteins

| Test (units) | Patient Result | Reference Value |
|----------------------|----------------|-----------------|
| Total protein (g/dL) | x | 6–8 |
| Albumin (g/dL) | x | 3.3–5 |
| IgG (mg/dL) | x | 790–1640 |
| IgA (mg/dL) | x | 66–436 |
| IgM (mg/dL) | x | 43–279 |
| IgE (mg/dL) | x | 10–180 |

Table with Arrows

| | X | Y | Z |
|---|---|---|---|
| A | ↓ | ↓ | ↓ |
| B | ↑ | ↑ | ↑ |
| C | ↓ | ↑ | ↑ |
| D | ↑ | ↓ | ↓ |
| E | ↑ | ↑ | ↓ |

Thyroid Panel

| Test (units) | Patient Result | Reference Value |
|------------------|----------------|-----------------|
| TSH (mIU/L) | x | 0.3–4.2 |
| Total T4 (µg/dL) | x | 4.5–11.7 |
| Free T4 (ng/dL) | x | 0.9–1.7 |
| Total T3 (ng/dL) | x | 80–200 |

WBC Diff

| Test (units) | Patient Result | Reference Value |
|--------------------|----------------|-----------------|
| Neutrophils (%) | x | 45–74 |
| Bands (%) | x | 0–4 |
| Lymphocytes (%) | x | 16–45 |
| Monocytes (%) | x | 2–8 |
| Eosinophils (%) | x | 0–7 |
| Basophils (%) | x | 0–2 |
| Promyelocytes (%) | x | |
| Myelocytes (%) | x | |
| Metamyelocytes (%) | x | |
| Blasts (%) | x | |