

```
<!DOCTYPE html>

<html>

<head>

  <meta name = "viewport" content = "width=device-width, initial-scale = 1">

  <style>

    header {

      padding: 15px;

      border-style: solid;

      border-color: black;

      background-image:linear-gradient(red,white);

      font-color: white;

      font-size: 15px;

      font-family: monospace;

      opacity: 0.8;

      text-align: center;

    }

    header::after {

      padding: 15px;

      border-style: solid;

      border-color: black;

      background-image:linear-gradient;

      content = "";

      clear: both;

      display: table;

      opacity: 0.8;

      font-family: monospace;

      font-color: white;

    }

  }
```

```
body {  
    font-family: monospace;  
    margin: 0;  
    border-style: black;  
    border-color: black;  
}  
  
section {  
    content = "";  
    display: table;  
    float: left;  
    clear: both;  
    width: 100%;  
    font-size: 15px;  
    border-style: solid;  
    border-color: black;  
}  
  
table {  
    border-style: solid;  
    border-color: black;  
    width: 80%;  
}  
  
th {  
    border-style: solid;  
    border-color: black;  
}  
  
footer {  
    padding: 15px;  
    color: white;  
    border-style: solid;
```

```

        border-color: black;
    }
</style>
<header>
    <h3>Edgar Test Lab Values</h3>
</header>
</head>
<body>
    <?php

        define("NOAUTH",true);
        require_once "/var/www/html/redcap/redcap_conntect.php";

        //The following queries calculate the average value for field names

        //takes the average value for PACO2 levels within the database and ouputs it on a table
        $avg_paco2_query = "SELECT avg(value) AS AVGPACO2 FROM informatics.redcap_data WHERE
field_name = 'paco2_lv'";
        $avg_paco2_result = mysqli_query($conn,$avg_paco2_query);
        while ($avg_paco2_row = mysqli_fetch_assoc($avg_paco2_result))
        {
            $avg_paco2_output = $avg_paco2_row['AVGPACO2'];
        }

        //takes hte average value for PAO2 levles within the database and outputs it on a table
        $avg_pao2_query = "SELECT avg(value) AS AVGP AO2 FROM informatics.redcap_data WHERE
field_name = 'pao2_lv'";
        $avg_pao2_result = mysqli_query($conn,$avg_pao2_query);
        while ($avg_pao2_row = mysqli_fetch_assoc($avg_pao2_result))

```

```

{
    $avg_pao2_output = $avg_pao2_row['AVGPAO2'];
}

//takes the average value for serum bicarbonate levels within the database and outputs it on a
table
$avg_serumbicarb_query = "SELECT avg(value) AS AVGSERUMBI FROM informatics.redcap_data
WHERE field_name = serum_bicarbonate_level";
$avg_serumbicarb_result = mysqli_query($conn, $avg_serumbicarb_query);
while ($avg_serumbicarb_row = mysqli_fetch_assoc($avg_serumbicarb_result))
{
    $avg_serumbicarb_output = $avg_serumbicarb_row['AVGSERUMBI'];
}

//takes the average value for blood urea nitrogen within the database and outputs it on a table
$avg_bun_query = "SELECT avg(value) AS AVGBUN FROM informatics.redcap_data WHERE
field_name = 'blood_urea_nitrogen_lv'";
$avg_bun_result = mysqli_query($conn, $avg_bun_query);
while ($avg_bun_row = mysqli_fetch_assoc($avg_bun_result))
{
    $avg_bun_output = $avg_bun_row['AVGBUN'];
}

//takes the average value for serum glucose within the database and outputs it on a table
$avg_serumglucose_query = "SELECT max(value) AS AVGSERUMGLUCOSE FROM
informatics.redcap_data WHERE field_name = 'serum_glucose'";
$avg_serumglucose_result = mysqli_query($conn, $avg_serumglucose_query);
while ($avg_serumglucose_row = mysqli_fetch_assoc($avg_serumglucose_result))
{
    $avg_serumglucose_output = $avg_serumglucose_row['AVGSERUMGLUCOSE'];
}

```

```
}
```

```
//takes the average value for hermatocrit within the database and outputs it on a table
```

```
$avg_hermatocrit_query = "SELECT avg(value) AS AVGHERM FROM informatics.redcap_data  
WHERE field_name = 'hermatocrit_lv'";
```

```
$avg_hermatocrit_result = mysqli_query($conn, $avg_hermatocrit_query);
```

```
while ($avg_bun_row = mysqli_fetch_assoc($avg_hermatocrit_result))
```

```
{
```

```
    $avg_hermatocrit_output = $avg_hermatocrit_row['AVGHERM'];
```

```
}
```

```
//takes the average value for serum sodium within the database and outputs it on a table
```

```
$avg_serumsodium_query = "SELECT avg(value) AS AVGSERUMSODIUM FROM  
informatics.redcap_data WHERE field_name = 'serum_sodium_lv'";
```

```
$avg_serumsodium_result = mysqli_query($conn, $avg_serumsodium_query);
```

```
while ($avg_sodium_row = mysqli_fetch_assoc($avg_serumsodium_result))
```

```
{
```

```
    $avg_serumsodium_output = $avg_serumsodium_row['AVGSERUMSODIUM'];
```

```
}
```

```
//takes the average value for plueral effusion within the database and outputs it on a table
```

```
$avg_plueraleff_query = "SELECT avg(value) AS AVGPLUERALEFF FROM informatics.redcap_data  
WHERE field_name = 'plueral_effusion'";
```

```
$avg_plueraleff_result = mysqli_query($conn,)
```

```
$min_paco2_query = "SELECT min(value) AS minPACO2 FROM informatics.redcap_data WHERE  
field_name = 'paco2_lv'";
```

```
$min_paco2_result = mysqli_query($conn,$min_paco2_query);
```

```
while ($min_paco2_row = mysqli_fetch_assoc($min_paco2_result))
```

```
{
```

```
    $min_paco2_output = $min_paco2_row['MINPACO2'];
```

```
}
```

```
//The following queries calculate the minimum value for field names
```

```
//takes the minimum value for PACO2 levels within the database and outputs it on a table
```

```
$min_paco2_query = "SELECT min(value) AS MINPACO2 FROM informatics.redcap_data WHERE  
field_name = 'paco2_lv'";
```

```
$min_paco2_result = mysqli_query($conn, $min_paco2_query);
```

```
while ($min_paco2_row = mysqli_fetch_assoc($min_paco2_result))
```

```
{
```

```
    $min_paco2_output = $min_paco2_row['MINPACO2'];
```

```
}
```

```
//takes the minimum value for PAO2 levels within the database and outputs it on a table
```

```
$min_pao2_query = "SELECT min(value) AS MINPAO2 FROM informatics.redcap_data WHERE  
field_name = 'pao2_lv'";
```

```
$min_pao2_result = mysqli_query($conn,$min_pao2_query);
```

```
while ($min_pao2_row = mysqli_fetch_assoc($min_pao2_result))
```

```
{
```

```
    $min_pao2_output = $min_pao2_row['MINPAO2'];
```

```
}
```

```
//takes the minimum value for serum bicarbonate levels within the database and outputs it on  
a table
```

```
$min_serumbicarb_query = "SELECT min(value) AS MINSERUMBI FROM informatics.redcap_data  
WHERE field_name = serum_bicarbonate_level";
```

```
$min_serumbicarb_result = mysqli_query($conn, $min_serumbicarb_query);
```

```
while ($min_serumbicarb_row = mysqli_fetch_assoc($min_serumbicarb_result))
```

```
{
```

```
    $min_serumbicarb_output = $min_serumbicarb_row['MINSERUMBI'];
```

```
}
```

```
//takes the minimum value for blood urea nitrogen within the database and outputs it on a  
table
```

```
$min_bun_query = "SELECT min(value) AS MINBUN FROM informatics.redcap_data WHERE  
field_name = 'blood_urea_nitrogen_lv'";
```

```
$min_bun_result = mysqli_query($conn, $min_bun_query);
```

```
while ($min_bun_row = mysqli_fetch_assoc($min_bun_result))
```

```
{
```

```
    $min_bun_output = $min_bun_row['MINBUN'];
```

```
}
```

```
//takes the minimum value for serum glucose within the database and outputs it on a table
```

```
$min_serumglucose_query = "SELECT min(value) AS MINSERUMGLUCOSE FROM  
informatics.redcap_data WHERE field_name = 'serum_glucose'";
```

```
$min_serumglucose_result = mysqli_query($conn, $min_serumglucose_query);
```

```
while ($min_serumglucose_row = mysqli_fetch_assoc($min_serumglucose_result))
```

```
{
```

```
    $min_serumglucose_output = $min_serumglucose_row['MINSERUMGLUCOSE'];
```

```
}
```

```
//takes the minimum value for hermatocrit within the database and outputs it on a table
```

```
$min_hematocrit_query = "SELECT min(value) AS MINHERM FROM informatics.redcap_data  
WHERE field_name = 'hermatocrit_lv'";
```

```
$min_hematocrit_result = mysqli_query($conn, $min_hematocrit_query);
```

```
while ($min_bun_row = mysqli_fetch_assoc($min_hematocrit_result))
```

```
{
```

```
    $min_hematocrit_output = $min_hematocrit_row['MINHERM'];
```

```
}
```

```

//takes the minimum value for serum sodium within the database and outputs it on a table

$min_serumsodium_query = "SELECT min(value) AS MINSERUMSODIUM FROM
informatics.redcap_data WHERE field_name = 'serum_sodium_lv'";

$min_serumsodium_result = mysqli_query($conn, $min_serumsodium_query);
while ($min_sodium_row = mysqli_fetch_assoc($min_serumsodium_result))
{
    $min_serumsodium_output = $min_serumsodium_row['MINSERUMSODIUM'];
}

```

```

//takes the maximum value for PACO2 levels within the database and outputs it on a table

$max_paco2_query = "SELECT max(value) AS MAXPACO2 FROM informatics.redcap_data
WHERE field_name = 'paco2_lv'";

$max_paco2_result = mysqli_query($conn,$max_paco2_query);
while ($max_paco2_row = mysqli_fetch_assoc($max_paco2_result))
{
    $max_paco2_output = $max_paco2_row['MAXPACO2'];
}

```

```

//takes the maximum value for PAO2 levels within the database and outputs it on a table

$max_pao2_query = "SELECT max(value) AS MAXPAO2 FROM informatics.redcap_data WHERE
field_name = 'pao2_lv'";

$max_pao2_result = mysqli_query($conn,$max_pao2_query);
while ($max_pao2_row = mysqli_fetch_assoc($max_pao2_result))
{
    $max_pao2_output = $max_pao2_row['MAXPAO2'];
}

```

```

//takes the maximum value for serum bicarbonate within the database and outputs it on a table

$max_serumbicarb_query = "SELECT max(value) AS MAXSERUMBI FROM
informatics.redcap_data WHERE field_name = 'serum_bicarbonate_level'";

```



```

$max_serumbicarb_result = mysqli_query($conn, $max_serumbicarb_query);
while ($max_serumbicarb_row = mysqli_fetch_assoc($max_serumbicarb_result))
{
    $max_serumbicarb_output = $max_serumbicarb_row['MAXSERUMBI'];
}

//takes the maximum value for blood urea nitrogen within the database and outputs it on a
table
$max_bun_query = "SELECT max(value) AS MAXBUN FROM informatics.redcap_data WHERE
field_name = 'blood_urea_nitrogen_lv'";
$max_bun_result = mysqli_query($conn, $max_bun_query);
while ($max_bun_row = mysqli_fetch_assoc($max_bun_result))
{
    $max_bun_output = $max_bun_row['MAXBUN'];
}

//takes the maximum value for serum glucose wihtin the database and outputs it on a table
$max_serumglucose_query = "SELECT max(value) AS MAXSERUMGLUCOSE FROM
informatics.redcap_date WHERE field_name = 'serum_glucose'";
$max_serumglucose_result = mysqli_query($conn, $max_serumglucose_query);
while ($max_serumglucose_row = mysqli_fetch_assoc($max_serumglucose_result))
{
    $max_serumglucose_output = $max_serumglucose_row['MAXSERUMGLUCOSE'];
}

//takes the maximum value for hermatocrit
$max_hematocrit_query = "SELECT max(value) AS MAXHERM FROM informatics.redcap_data
WHERE field_name = 'hermatocrit_lv'";
$max_hematocrit_result = mysqli_query($conn, $max_hematocrit_query);
while ($max_bun_row = mysqli_fetch_assoc($max_hematocrit_result))

```

```
{  
    $max_hermatocrit_output = $max_hermatocrit_row['MAXHERM'];  
}
```

//takes the maximum value for serum sodium within the database and outputs it on a table

```
$max_serumsodium_query = "SELECT max(value) AS MAXSERUMSODIUM FROM  
informatics.redcap_data WHERE field_name = 'serum_sodium_lv'";
```

```
$max_serumsodium_result = mysqli_query($conn, $max_serumsodium_query);
```

```
while ($max_sodium_row = mysqli_fetch_assoc($max_serumsodium_result))
```

```
{  
    $max_serumsodium_output = $max_serumsodium_row['MAXSERUMSODIUM'];  
}
```

```
?>
```

<p>The tables below will show the average results of the lab tests.</p>

<table>

<tr>

<th>Average PaCO2 Levels</th>

<th>Average PaO2 Levels</th>

<th>Average Serum Bicarbonate Levels</th>

<th>Average Blood Urea Nitrogen</th>

<th>Average Serum Glucose</th>

<th>Average Hermatocrit</th>

<th>Average Serum Sodium</th>

<th>Average Plueral Effusion</th>

</tr>

<tr>

<th><?php echo \$avg_paco2_output;?></th>

<th><?php echo \$avg_pao2_output;?></th>

<th><?php echo \$avg_serumbicarb_output;?></th>
<th><?php echo \$avg_bun_output;?></th>
<th><?php echo \$avg_serumglucose_output;?></th>
<th><?php echo \$avg_hermatocrit_output;?></th>
<th><?php echo \$avg_serumsodium_output;?></th>
<th><?php echo \$avg_plueraleff_output;?></th>

</tr>

</table>

<p>The table below shows the minimum results for lab test results.</p>

<table>

<tr>

<th>Minimum PaCO2 Levels</th>

<th>Minimum PaO2 Levels</th>

<th>Minimum Serum Bicarbonate Levels</th>

<th>Minimum Blood Urea Nitrogen</th>

<th>Minimum Serum Glucose</th>

<th>Minimum Hermatocrit</th>

<th>Minimum Serum Sodium</th>

<th>Minimum Plueral Effusion</th>

</tr>

<tr>

<th><?php echo \$min_paco2_output;?></th>

<th><?php echo \$min_pao2_output;?></th>

<th><?php echo \$min_serumbicarb_output;?></th>

<th><?php echo \$min_bun_output;?></th>

<th><?php echo \$min_serumglucose_output;?></th>

<th><?php echo \$min_hermatocrit_output;?></th>

<th><?php echo \$min_serumsodium_output;?></th>

```

        <th><?php echo $min_plueral_eff_output;?></th>
    </tr>
</table>
<br><br>
<p>The table below shows the maximum results for lab test results.</p>
<table>
    <tr>
        <th>Maximum PaCO2 Levels</th>
        <th>Maximum PaO2 Levels</th>
        <th>Maximum Serum Bicarbonate Levels</th>
        <th>Maximum Blood Urea Nitrogen</th>
        <th>Maximum Serum Glucose</th>
        <th>Maximum Hematocrit</th>
        <th>Maximum Serum Sodium</th>
        <th>Maximum Plueral Effusion</th>
    </tr>
</table>
</body>
</html>

```