```
<?php
define("NOAUTH", true);
require_once "/var/www/html/redcap/plugins/paw/outcomes_health/scripts/paw_shared.php"; //
abstracted SQL queries
$filter = $_GET['filter'];
function calculate_completeness($table, $variable, $project, $filter)
{
       try
       {
               if($table == null || $variable == null)
               {
                        throw new Exception("Table or variable is not defined.");
               }
               else
               {
                        $calc_completeness = (100 * (round((completeness($table, $variable, $project,
$filter) / completeness('demographics', 'warehouse_id', $project, $filter)), 3)));
                        return $calc_completeness;
               }
       }
       catch(Exception $e)
       {
               echo "Error: " . $e->getMessage();
       }
}
```

```
try
{
        if($_GET['table'] == null || $_GET['table'] == ")
        {
                throw new Exception("Whoops! Completeness table is undefined.");
        }
        if($_GET['table'] == 'basic')
        {
                $projects = array(1, 2, 3, 5); // projects not including CAPO
                $project_labels = array("HAPPI 1&2", "HAPPI 2.5", "HAPPI 3", "SHARP");
                $wid = array(); // initialize completeness arrays
                $hosp_id = array();
                $hosp_doa = array();
                sn = array();
                $firstname = array();
                $lastname = array();
                $dob = array();
                $age = array();
                $race = array();
                $sex = array();
                $overall_completeness = array(1, 1, 1, 1);
                $averages = array();
                $filter_array= explode(" ,", $filter);
                for($i = 0; $i < count($projects); $i++)
                { // push the rounded completeness values into the array for each project
```

```
{
                                                                array_push($wid, calculate_completeness('demographics', 'warehouse_id',
$projects[$i], $filter_array[$j]));
                                                                array_push($hosp_id, calculate_completeness('happi_data', 'hospital_id',
$projects[$i], $filter_array[$j]));
                                                                array push($hosp doa, calculate completeness('hospitalization', 'hosp doa',
$projects[$i], $filter_array[$j]));
                                                                array_push($ssn, calculate_completeness('demographics', 'ssn', $projects[$i],
$filter_array[$j]));
                                                                array_push($firstname, calculate_completeness('demographics', 'firstname',
$projects[$i], $filter array[$i]));
                                                                array push($lastname, calculate completeness('demographics', 'lastname',
$projects[$i], $filter_array[$j]));
                                                                array_push($dob, calculate_completeness('demographics', 'dob', $projects[$i],
$filter_array[$j]));
                                                                array_push($age, calculate_completeness('demographics', 'age', $projects[$i],
$filter_array[$j]));
                                                                array push($race, calculate completeness('demographics', 'race', $projects[$i],
$filter_array[$j]));
                                                                array push($sex, calculate completeness('demographics', 'sex', $projects[$i],
$filter_array[$j]));
                                                                array_push($averages, (($wid[$i] + $hosp_id[$i] + $hosp_doa[$i] + $ssn[$i] +
firstname[i] + fiastname[i] + fiology + firstname[i] + final + final
                                                                }
                                          }
```

for(\$j = 0; \$j < count(\$filter\_array); \$j++)</pre>

echo "DATABASEWarehouse IDHospital IDHospital DOAHospital DOAHospital

```
NameOBAgeRaceSexOverall Completeness
```

```
// Create rows of completeness table
             for(\$i = 0; \$i < count(\$wid); \$i++)
                    echo "" . $project_labels[$j] . "" . $wid[$j] . "%" .
$hosp id[$i]. "%". $firstname[$i].
"%" . $lastname[$i] . "%" . $dob[$i] . "%" . $age[$i] . "%" .
$race[$i] . "%" . $sex[$i] . "%" . $averages[$i] . "%";
             }
             // Same calculation and logic as above, but for the whole warehouse
             $wid_paw = calculate_completeness('demographics', 'warehouse_id', null, $filter);
             $hosp_id_paw = calculate_completeness('happi_data', 'hospital_id', null, $filter);
             $hosp_doa_paw = calculate_completeness('hospitalization', 'hosp_doa', null, $filter);
             $ssn_paw = calculate_completeness('demographics', 'ssn', null, $filter);
             $firstname_paw = calculate_completeness('demographics', 'firstname', null, $filter);
             $lastname paw = calculate completeness('demographics', 'lastname', null, $filter);
             $dob_paw = calculate_completeness('demographics', 'dob', null, $filter);
             $age_paw = calculate_completeness('demographics', 'age', null, $filter);
             $race_paw = calculate_completeness('demographics', 'race', null, $filter);
             $sex_paw = calculate_completeness('demographics', 'sex', null, $filter);
             $average_paw = (($wid_paw + $hosp_id_paw + $hosp_doa_paw + $ssn_paw +
$firstname paw + $lastname paw + $dob paw + $age paw + $race paw + $sex paw) / 10);
             // Add last row to the table
             echo "ALL". $wid_paw. "%". $hosp_id_paw.
"%".$hosp doa paw."%".$ssn paw."%".$firstname paw."
```

```
"%" . $lastname_paw . "%" . $dob_paw . "%" . $age_paw . "%" .
$race_paw . "%" . $sex_paw . "%" . $average_paw . "%";
              echo "";
              echo "<br />";
       }
       if($_GET["table"] == "clinical")
       {
              $projects = array(1, 2, 3, 5); //array for projects
              $project_labels = array("HAPPI 1&2", "HAPPI 2.5", "HAPPI 3", "SHARP");
              //array for corresponding projects
              $wid = array();
                                                                                //initialize
completeness arrays, warehosue identification number
              $exam_sbp = array();
                                                                         //systolic blood
pressure for patient
                                                                         //diabolic blood
              $exam_dbp = array();
pressure for patient
              $exam_temp = array();
                                                                         //exam temperature for
patient
                                                                                //chest scan for
              ct = array();
patient
              $cxr = array();
                                                                                //xray for
patient
              $outcome_rh30 = array();
                                                                         //outcomes in 30 days
              $outcome rh6mo = array();
                                                                         //outcomes in 6
months
              $outcome_rh1year = array();
                                                                         //outcomes in 1 year
              $tcs = array();
                                                                                //days to
statistical stability
```

```
$averages = array();
                                               $overall completentess = array(1, 1, 1, 1);
                                              for(\$i = 0; \$i < count(\$projects); \$i++)
                                              { //push the rounded completeness values into the array for each project
                                                                       array_push($wid, calculate_completeness('demographics', 'warehouse_id',
$projects[$i], $filter));
                                                                       array_push($exam_sbp,
calculate completeness('physical exam lab admission', 'exam sbp', $projects[$i], $filter));
                                                                       array push($exam dbp,
calculate completeness('physical exam lab admission', 'exam dbp', $projects[$i], $filter));
                                                                       array push($exam temp,
calculate_completeness('physical_exam_lab_admission', 'exam_temp', $projects[$i], $filter));
                                                                       array_push($ct, calculate_completeness('radio_findings', 'ct', $projects[$i],
$filter));
                                                                       array_push($cxr, calculate_completeness('radio_findings', 'cxr', $projects[$i],
$filter));
                                                                       array push($outcome rh30, calculate completeness('clinical outcomes',
'outcome_rh30', $projects[$i], $filter));
                                                                       array push($outcome rh6mo, calculate completeness('clinical outcomes',
'outcome_rh6mo', $projects[$i], $filter));
                                                                       array_push($outcome_rh1year,calculate_completeness('clinical_outcomes',
'outcome rh1year', $projects[$i], $filter));
                                                                       array push($tcs, calculate completeness('clinical course', 'calculated tcs',
$projects[$i], $filter));
                                                                       array_push($averages, (($wid[$i] + $exam_sbp[$i] + $exam_dbp[$i] +
\sum_{j=1}^{n} + \cot[i] + 
$outcome_rh1year[$i] + $tcs[$i] + $averages[$i]) / 10));
                                              }
```

```
echo "<tr style='background-color:#004963;
color:#ffffff'>DATABASEWarehouse IDSystolic Blood
<br/><br>PressureDiastolic Blood <br>PressureTemperatureChest
ScanX-rayOutcome<br>in 30 daysOutcome<br>in 6
monthsOutcome<br>in 1 yearDays to
Clinical<br>StabilityOverall<br>Completeness";
            for(\$j = 0; \$j < count(\$wid); \$j++)
            {
                   echo "" . $project labels[$j] . "" . $wid[$j] . "%" .
$exam_sbp[$j] . "%" . $exam_dbp[$j] . "%" . $exam_temp[$j] . "%" .
$ct[$i]. "%". $cxr[$i]. "%". $outcome rh30[$i]. "%<...".
$averages[$i] . "%";
            }
            //same calcuation and logic as above, but for the whole warehouse
            $wid_paw = calculate_completeness('demographics', 'warehouse_id', null, $filter);
            $exam_sbp_paw = calculate_completeness('physical_exam_lab_admission', 'exam_sbp',
null, $filter);
            $exam_dbp_paw = calculate_completeness('physical_exam_lab_admission',
'exam_dbp', null, $filter);
            $exam temp paw = calculate completeness('physical exam lab admission',
'exam temp', null, $filter);
            $ct paw = calculate completeness('radio findings', 'ct', null, $filter);
            $cxr paw = calculate competeness('radio findings', 'cxr', null, $filter);
            $outcome rh30 paw = calculate completeness('clinical outcomes', 'outcome rh30',
null, $filter);
            $outcome rh6mo paw = calculate completness('clinical outcomes', 'outcome rh6mo',
null, $filter);
            $outcome rh1year paw = calculate completeness('clinical outcomes',
'outcome rh1year', null, $filter);
```

```
$averages_paw = (($wid_paw + $exam_sbp_paw + $exam_dbp_paw +
$exam temp paw + $ct paw + $cxr paw + $outcome rh30 paw + $outcome rh6mo paw +
$outcome rh1year paw + $tcs paw) / 10) . "%";
                                        echo "ALL". $wid paw."". $exam sbp paw.""
. $exam_dbp_paw . "" . $exam_temp_paw . "" .$ct_paw. "" .$cxr_paw.
"" . $outcome_rh30_paw . "" . $outcome_rh6mo_paw . "" .
$outcome_rh1year_paw . "" . $tcs_paw . "" . $averages_paw . "";
                                       echo "";
                                       echo "<br />";
                                        echo "<div>&nbsp;&nbsp;&nbsp;<font size=\"2\">*CAPO has been removed from this
table.<br/>
<a href="mailto:knbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n
international study.</div>";
                                       }
if($_GET['table'] == 'psi')
{
$projects = array(1, 2, 3, 5); // projects not including CAPO
$project_labels = array("HAPPI 1&2", "HAPPI 2.5", "HAPPI 3", "SHARP");
$wid = array(); // initialize completeness arrays
$hosp_id = array();
$hosp_doa = array();
sn = array();
$firstname = array();
$lastname = array();
$dob = array();
$age = array();
$race = array();
```

\$tcs\_paw = calculate\_completeness('clinical\_course', 'calculated\_tcs', null, \$filter);

```
sex = array();
$overall completeness = array(1, 1, 1, 1);
$averages = array();
for($i = 0; $i < count($projects); $i++)
{ // push the rounded completeness values into the array for each project
        array_push($wid, (100 * (round((completeness('demographics', 'warehouse_id', $projects[$i],
$filter) / completeness('demographics', 'warehouse_id', $projects[$i], $filter)), 3))));
        array push($hosp id, (100 * (round((completeness('happi data', 'hospital id', $projects[$i],
$filter) / completeness('demographics', 'warehouse id', $projects[$i], $filter)), 3))));
        array push($hosp doa, (100 * (round((completeness('hospitalization', 'hosp doa', $projects[$i],
$filter) / completeness('demographics', 'warehouse_id', $projects[$i], $filter)), 3))));
        array_push($ssn, (100 * (round((completeness('demographics', 'ssn', $projects[$i], $filter) /
completeness('demographics', 'warehouse_id', $projects[$i], $filter)), 3))));
        array_push($firstname, (100 * (round((completeness('demographics', 'firstname', $projects[$i],
$filter) / completeness('demographics', 'warehouse id', $projects[$i], $filter)), 3))));
        array push($lastname, (100 * (round((completeness('demographics', 'lastname', $projects[$i],
$filter) / completeness('demographics', 'warehouse id', $projects[$i], $filter)), 3))));
        array push($dob, (100 * (round((completeness('demographics', 'dob', $projects[$i], $filter) /
completeness('demographics', 'warehouse_id', $projects[$i], $filter)), 3))));
        array_push($age, (100 * (round((completeness('demographics', 'age', $projects[$i], $filter) /
completeness('demographics', 'warehouse id', $projects[$i], $filter)), 3))));
        array_push($race, (100 * (round((completeness('demographics', 'race', $projects[$i], $filter) /
completeness('demographics', 'warehouse id', $projects[$i], $filter)), 3))));
        array push($sex, (100 * (round((completeness('demographics', 'sex', $projects[$i], $filter) /
completeness('demographics', 'warehouse_id', $projects[$i], $filter)), 3))));
        array_push(\$averages, ((\$wid[\$i] + \$hosp_id[\$i] + \$hosp_doa[\$i] + \$ssn[\$i] + \$firstname[\$i] +
$lastname[$i] + $dob[$i] + $age[$i] + $race[$i] + $sex[$i])/10));
}
```

```
IDHospital IDHospital DOASSNFirst NameLast
NameOBAgeRaceSexOverall
Completeness";
// Create rows of completeness table
for(\$i = 0; \$i < count(\$wid); \$i++)
{
       echo "" . $project_labels[$j] . "" . $wid[$j] . "%" . $hosp_id[$j] .
"%" . $hosp_doa[$j] . "%" . $ssn[$j] . "%" . $firstname[$j] . "%" .
$lastname[$j] . "%" . $dob[$j] . "%" . $age[$j] . "%" . $race[$j] .
"%" . $sex[$i] . "%" . $averages[$i] . "%";
}
// Same calculation and logic as above, but for the whole warehouse
$wid_paw = (100 * (round((completeness('demographics', 'warehouse_id', null, $filter) /
completeness('demographics', 'warehouse_id', null, $filter)), 3))) . "%";
$hosp_id_paw = (100 * (round((completeness('happi_data', 'hospital_id', null, $filter) /
completeness('happi data', 'warehouse id', null, $filter)), 3))). "%";
$hosp doa paw = (100 * (round((completeness('hospitalization', 'hosp doa', null, $filter) /
completeness('hospitalization', 'warehouse id', null, $filter)), 3))). "%";
$ssn_paw = (100 * (round((completeness('demographics', 'ssn', null, $filter) /
completeness('demographics', 'warehouse_id', null, $filter)), 3))) . "%";
$firstname_paw = (100 * (round((completeness('demographics', 'firstname', null, $filter) /
completeness('demographics', 'warehouse_id', null, $filter)), 3))) . "%";
$lastname paw = (100 * (round((completeness('demographics', 'lastname', null, $filter) /
completeness('demographics', 'warehouse id', null, $filter)), 3))) . "%";
$dob_paw = (100 * (round((completeness('demographics', 'dob', null, $filter) /
completeness('demographics', 'warehouse_id', null, $filter)), 3))) . "%";
$age paw = (100 * (round((completeness('demographics', 'age', null, $filter) /
completeness('demographics', 'warehouse_id', null, $filter)), 3))) . "%";
$race paw = (100 * (round((completeness('demographics', 'race', null, $filter) /
```

completeness('demographics', 'warehouse id', null, \$filter)), 3))) . "%";

echo "DATABASEWarehouse

```
$sex_paw = (100 * (round((completeness('demographics', 'sex', null, $filter) /
completeness('demographics', 'warehouse_id', null, $filter)), 3))) . "%";
$average paw = (($wid paw + $hosp id paw + $hosp doa paw + $ssn paw + $firstname paw +
$lastname_paw + $dob_paw + $age_paw + $race_paw + $sex_paw) / 10) . "%";
// Add last row to the table
echo "ALL". $wid paw."". $hosp id paw."". $hosp doa paw."
. "" . $ssn_paw . "" . $firstname_paw . "" . $lastname_paw . "
$dob_paw . "" . $age_paw . "" . $race_paw . "" . $sex_paw . "" .
$average_paw . "";
echo "";
echo "<br />";
}
if($_GET['table'] == 'common')
{
projects = array(1, 2, 3, 5);
                    //array for the projects
$projects_labels = array("HAPPI 1&2", "HAPPI 2.5", "HAPPI 3", "SHARP");
                                                                                   //labels
for the projects
$hosp_vent = array();
                           //hospital ventilation
$hx_renalfailure = array();
                           //renal failure
$hx liver = array();
                           //liver disease
$hx_cirrhosis = array();
                    //cirrhosis
abx 30 = array();
                                  //antibiotics within 30 days
```

```
$cardio systemicsteroids = array();
                        //systemic steroids
$cardio_antithrombotic = array();
                        //antithrombotic
$micro_bacter = array();
                                //persistent bacteria
$prevent_smokinghistory = array();
                        //smoking history of patient
$hosp dischargedate = array();
                        //discharge date at hospital
for(\$i = 0; \$i < count(\$projects); \$i++)
{
array push($hosp vent, calculate competeness(completeness('hospitalization', 'hosp vent',
$projects[$i], $filter);
array_push($hx_renalfailure, calculate_completeness('patient_history', 'hx_renalfailure', $projects[$i],
$filter);
array_push($hx_liver, clculate_completeness('patient_history', 'hx_liver', $projects[$i], $filter);
array_push($hx_cirrhosis, calculate_completeness('patient_history', 'hx_cirrhosis', $projects[$i], $filter);
array_push($abx_30, calculate_completeness('antimicrobial_therapy', 'abx_30', $projects[$i], $filter);
array_push($cardio_systemicsteroids, calculate_completeness('cardiovascular',
'cardio_systemicsteroids', $projects[$i], $filter);
array push($cardio antithrombotic, calculate completeness('cardiovascular', 'cardio antithrombotic',
$projects[$i], $filter);
array push($micro bacter, calculate completeness('antimicrobial therapy', 'micro bacter',
$projects[$i], $filter);
array push($prevent smokinghistory, calculate completeness('prevention', 'prevent smokinghistory',
$projects[$i], $filter);
array_push($hosp_dischargedate, calculate_completeness('hospitalization', 'hosp_dischargedate',
$projects[$i], $filter);
array push(($hosp vent[$i] + $hx renal failure + $hx liver[$i] + $hx cirrhosis[$i] + $abx 30[$i] +
$cardio systemicsteroids[$i] + $cardio antithrombotic[$i] + $micro bacter[$i] +
$prevent_smokinghistory[$i] + $hosp_dischargedate[$i]) / 10));
```

```
echo "Hospital
VentilationRenal FailureLiver DiseaseHospital
DOACirrhosisAntibiotics administered Within 30 DaysSystemic
SteroidsAntithrombitcPersistent BacteriaSmoking HistoryDate
of Hospital DischargeAverage Completeness";
for($j = 0; $j < count($projects); $j++)
{
      echo "" . $hosp_vent[$j] . "" . $hx_renalfailure[$j] . "%" .
$hx liver[$j]. "%". $hosp doa[$j]. "%". $hx cirrhosis[$j]. "%".
$abx_30[$j] . "%" . $cardio_systemicsteroids[$j] . "%" . $cardio_antithrombotic[$j] .
"%" . $micro_bacter[$j] . "%";
}
$hosp_vent_paw = calculate_completeness('hospitalization', 'hosp_vent', null, $filter);
$hx_renalfailure_paw = calculate_completeness('hospitalization', 'hosp_vent', null, $filter);
$hx_liver_paw = calculate_completeness('hospitalization', 'hosp_vent', null, $filter);
$hosp_doa_paw = calculate_completeness('hospitalization', 'hosp_doa', null, $filter);
$hx_cirrhosis_paw = calculate_completeness('hospitalization', 'hosp_vent', null, $filter);
$abx_30_paw = calculate_completeness('hospitalization', 'hosp_vent', null, $filter);
$cardio systemicsteroids paw = calculate completeness('hospitalization', 'hosp vent', null, $filter);
$cardio_antithrombotic_paw = calculate_completeness('hospitalization', 'hosp_vent', null, $filter);
$micro_bacter_paw = calculate_completeness('hospitalization', 'hosp_vent', null, $filter);
$prevent_smokinghistory_paw = calculate_completeness('prevention', 'prevent_smokinghistory', null,
$filter);
$hosp dischargedate paw = calculate completeness('hospitalization', 'hosp dischargedate', null,
$filter);
$average_paw = (($hosp_vent + $hx_renalfailure_paw + $hx_liver_paw + $hosp_doa_paw +
$hx cirrhosis paw + $abx 30 paw + $cardio systemicsteroids paw + $cardio antithrombotic paw +
$micro_bacter_paw + $prevent_smokinghistory_paw + $hosp_dischargedate_paw) / 10));
```

}

```
echo "ALL". $hosp_vent_paw."". $hx_renalfailure_paw."".
$hx_liver_paw . "" . $hosp_doa_paw . "" . $hx_cirrhosis_paw . "" .
$abx_30_paw . "" . $cardio_systemicsteroids_paw . "" .
$prevent_smokinghistory_paw . "" . $hosp_dischargedate_paw . "" . $average_paw.
"";
echo "";
echo "<br />";
}
}
catch(Exception $e)
{
    echo "Error: " . $e->getMessage();
}
?>
```