

```
<?php
// Import of XML data from XML files created by "MEDICS" offline EMR application
// development by mi-squared.com -2010 licences under GPL v2 or greater
//
// Provided as an example of how to import complete medical records into OpenEMR
// from an XML formatted file
//
// This is intended to be run by a automated command line process/cron job not a web request
// Based on OpenEMR 3.1 release
// See import_mi2xml-xpaths.txt for a field structure details

$ignoreAuth = true;
include_once("../interface/globals.php");
include_once("$srcdir/patient.inc");
include_once("$srcdir/forms.inc");
include_once("$srcdir/acl.inc");

// set name of XML file
if ( $argc < 1 ) {
    echo "No XML file path provided.\n";
    exit(-1);
}

array_shift($argv);
$file = $argv[0];

// load file
$medics = simplexml_load_file($file) or die ("Unable to load XML file!");

///////////////////////////////
process_medics( $medics );
///////////////////////////////

///////////////////////////////
// FUNCTION START
///////////////////////////////

function process_medics ( $medics ) {

    // add patient
    // - medical history
    // - family/social history
    {
        $errors = array();
        $msg = create_patient( $medics, $errors );
        $has_errors = sizeof($errors) > 0;
        if ( !$has_errors ) {
            render_errors( $errors );
            return;
        } else {
            echo $msg;
        }
    }

    // add encounter:
    // - encounter form
    // - vitals
    {
        $errors = array();
        $msg = add_encounter( $medics, $errors );
        $has_errors = sizeof($errors) > 0;
        if ( !$has_errors ) {
            render_errors( $errors );
            return;
        } else {
            echo $msg;
        }
    }
}
```

```
}

}

function render_errors( &$errors ) {
    $first = true;
    foreach( $errors as $error ) {
        if ( !$first ) {
            echo "|";
        }
        echo "ERR[$error]";
        $first = false;
    }
}

function create_patient( &$medics, &$errors ) {

    $alertmsg = "";
    $patient_pid = get_patientid($medics);

    $pubpid = trim( $medics->pubpid );

    // ID must be valid or 'NEWPATIENT'
    if (empty($pubpid)) {
        array_push( $errors, "Patient ID '$pubpid' missing, patient skipped! " );
        return $alertmsg;
    }

    if ( $pubpid != 'NEWPATIENT' ) {

        // 1. validate patient
        $patient_pid = 0;
        $query = "SELECT pid FROM patient_data WHERE pubpid LIKE '$pubpid'";
        $res = sqlStatement($query);
        $row = sqlFetchArray($res);

        if ($row) {
            $patient_pid = $row['pid'];
            if (sqlFetchArray($res)) {
                array_push( $errors, "Patient ID '$pubpid' is ambiguous, patient skipped! " );
                return $alertmsg;
            } else {
                // array_push( $errors, "Patient ID '$pubpid' exists, updates/new encounters only. " );
            }
        }
    }

    // 2. validate insurance provider - REMOVED

    // 3. validate billing provider

    $tmp = array();
    $tmp = fetchProviderInfo($medics);
    if (!array($tmp)) {
        array_push( $errors, "Provider '$tmp' not found, patient skipped! " );
        return $alertmsg;
    }

    $patient_provider_id = $tmp['id'];
    $patient_provider_name = $tmp['username'];
    $patient_provider_facility = $tmp['facility_id'];

    // 4. get facility from // Move to function
    $row = sqlQuery("SELECT id, name, pos_code FROM facility WHERE id = '$patient_provider_facility' " );

    if (!$row['id']) {
        array_push( $errors, "Facility '$tmp' not found, patient skipped! " );
    }
}
```



```

);

// Insert dummy row for employer_data.
newEmployerData($patient_pid);

// Update or Instest subscriber ins data
if( ($medics->pubpid == 'NEWPATIENT') || (!empty($medics->policy_id) ) ) {
newInsuranceData(
    $patient_pid,
    'primary',
    $insurance_company_id,           // (insurance) provider
    form2db($medics->policy_id),    // policy_number - same as pt identifier?
    '',
    '',                                // group_number - anything special here?
    '',                                // plan_name - anything special here?
    form2db($medics->lname),         // subscriber_lname
    form2db($medics->mname),         // subscriber_mname
    form2db($medics->fname),          // subscriber_fname
    'self',                            // subscriber_relationship
    '',                                // subscriber_ss
    fixDate($medics->dob),           // subscriber_DOB
    form2db($medics->street),        // subscriber_street
    form2db($medics->zip),           // subscriber_postal_code
    form2db($medics->city),          // subscriber_city
    form2db($medics->state),         // subscriber_state
    '',
    // subscriber_country
    form2db($medics->phone_home),    // subscriber_phone
    '',
    // subscriber_employer
    '',
    // subscriber_employer_street
    '',
    // subscriber_employer_city
    '',
    // subscriber_employer_postal_code
    '',
    // subscriber_employer_state
    '',
    // subscriber_employer_country
    '',
    // copay
    sex($medics->sex),              // subscriber_sex
    fixDate($medics->eff_date)      // effective date
);
}

$tmp = $medics->lname . ',' . $medics->fname;
$alertmsg .= "New Patient Added: '$patient_pid' / '$tmp' <br>\n";
}

$medics->pid = $patient_pid;

$history = array(
    'history_father'                => form2db($medics->familyinformation->father),
    'history_mother'                => form2db($medics->familyinformation->mother),
    'history_spouse'                => form2db($medics->familyinformation->spouse),
    'history_siblings'              => form2db($medics->familyinformation->siblings),
    'history_offspring'             => form2db($medics->familyinformation->offspring),
    'relatives_cancer'               => form2db($medics->medical->relativesexperience->cancer),
    'relatives_tuberculosis'        => form2db($medics->medical->relativesexperience->tuberculosis),
    'relatives_diabetes'             => form2db($medics->medical->relativesexperience->diabetes),
    'relatives_high_blood_pressure' => form2db($medics->medical->relativesexperience-
>highbloodpressure),
    'relatives_heart_problems'       => form2db($medics->medical->relativesexperience->heartproblems),
    'relatives_stroke'               => form2db($medics->medical->relativesexperience->stroke),
    'relatives_epilepsy'             => form2db($medics->medical->relativesexperience->epilepsy),
    'relatives_mental_illness'        => form2db($medics->medical->relativesexperience->mentalillness),
    'relatives_suicide'              => form2db($medics->medical->relativesexperience->suicide),
    'usertext12'                    => form2db($medics->medical->relativesexperience->other),
    'coffee'                        => form2db($medics->medical->lifestyleusage->coffee),
    'tobacco'                       => form2db($medics->medical->lifestyleusage->tobacco),
    'alcohol'                        => form2db($medics->medical->lifestyleusage->alcohol),
    'sleep_patterns'                => form2db($medics->medical->lifestyleusage->sleep),
    'exercise_patterns'             => form2db($medics->medical->lifestyleusage->exercise),
    'seatbelt_use'                  => form2db($medics->medical->lifestyleusage->seatbelt),

```

```
'counseling'          => form2db($medics->medical->lifestyleusage->counseling),
'hazardous_activities' => form2db($medics->medical->lifestyleusage->hazardactivities),
'usertext13'           => form2db($medics->medical->lifestyleusage->urinaryincontinence),
'usertext14'           => form2db($medics->medical->lifestyleusage->fallhistory),
'additional_history'   => form2db($medics->medical->lifestyleusage->other) . " " .
                           form2db($medics->medical->lifestyleusage->generalnotes)
);

// Insert/Update into history_data.
if ($medics->pubpid == 'NEWPATIENT') {
    newHistoryData($patient_pid, $history);
} else {
    updateHistoryData($patient_pid, $history);
}

// Add or Update History data
add_update_history($medics, $patient_pid, $errors);

// Create or update an issue for each historical medication.
//
foreach ($medics->medical->medications->medication as $medication) {

    if (isempty($medication->name)) continue;

    $meds = array();
    $meds['title']      = form2db($medication->name);
    $meds['dosage']     = form2db($medication->dosage);
    $meds['frequency']  = form2db($medication->frequency);
    $meds['duration']   = form2db($medication->duration); // TBD does not exsist in MEDICS
    $meds['id']         = form2db($medication->id);

    if ( !isempty($meds['id']) ) {
        $row = sqlQuery("SELECT id FROM lists WHERE id = " . $meds['id']);
        if (! $row ) {
            create_issue($patient_pid, 'medication', $meds );
        } else {
            update_issue($patient_pid, 'medication', $meds );
        }
    } else {
        create_issue($patient_pid, 'medication', $meds );
    }
}

return $alertmsg;
}

// Create a new issue in the lists table.
//
function create_issue($pid, $type, $fields) {

if ( !isempty( $fields['title'] ) ) {
    echo "\nAdding new issue '" . $fields['title'] . "'";

    sqlInsert("INSERT INTO lists SET ".
    "date = NOW(), ".
    "pid = '$pid', ".
    "type = '$type', ".
    "title = '" . $fields['title'] . "', ".
    "activity = 1, ".
    "user = '" . $$SESSION['authUser'] . "', ".
    "groupname = '" . $$SESSION['authProvider'] . "', ".
    "outcome = '', ".
    "destination = ''".
    "frequency = '" . $fields['frequency'] . "', ".
    "dosage = '" . $fields['dosage'] . "', ".
    "duration = '" . $fields['duration'] . "'"
);
}
```

```
    } else {
        echo "Skipping field creation with empty title.";
    }

}

// update issue in the lists table.
//
function update_issue($pid, $type, $fields) {

    echo "\nUpdating issue id " . $fields['id'] . " (" . $fields['title'] . ")";

    sqlInsert("update lists SET ".
        "date = NOW(), ".
        "pid = '$pid', ".
        "type = '$type', ".
        "title = '" . $fields['title'] . "', ".
        "activity = 1, ".
        "user = '" . $$SESSION['authUser'] . "', ".
        "groupname = '" . $$SESSION['authProvider'] . "', ".
        "outcome = '', ".
        "destination = '', ".
        "frequency = '" . $fields['frequency'] . "', ".
        "dosage = '" . $fields['dosage'] . "', ".
        "duration = '" . $fields['duration'] . "'".
        "WHERE id = " . $fields['id']
    );
}

function add_update_history ($medics, $patient_pid, &$errors) {
    $msg;
    $dos = fixDate($medics->fromdate);

    if (!isempty($medics->medical->medicalhistory->medicationnotes) ||
        !isempty($medics->medical->medicalhistory->allergies) ||
        !isempty($medics->medical->medicalhistory->history) ||
        !isempty($medics->medical->medicalhistory->surgicalhistory) ||
        !isempty($medics->medical->medicalhistory->preventative)) {

        $row = sqlQuery("SELECT pid FROM aperio_medical_history WHERE pid = '$patient_pid'");
        if (!$row) {
            sqlInsert("INSERT INTO aperio_medical_history SET ".
                "pid = '$patient_pid', ".
                "medication = '" . $medics->medical->medicalhistory->medicationnotes . "', ".
                "allergies = '" . $medics->medical->medicalhistory->allergies . "', ".
                "medical = '" . $medics->medical->medicalhistory->history . "', ".
                "surgical = '" . $medics->medical->medicalhistory->surgicalhistory . "', ".
                "preventative = '" . $medics->medical->medicalhistory->preventative . "'".
                "updated = '$dos'"
            );
            // return( "Created history form for Patient ID:" . $patient_pid);
        } else {
            sqlStatement("UPDATE aperio_medical_history SET ".
                "medication = '" . $medics->medical->medicalhistory->medicationnotes . "', ".
                "allergies = '" . $medics->medical->medicalhistory->allergies . "', ".
                "medical = '" . $medics->medical->medicalhistory->history . "', ".
                "surgical = '" . $medics->medical->medicalhistory->surgicalhistory . "', ".
                "preventative = '" . $medics->medical->medicalhistory->preventative . "'".
                "updated = '$dos'" .
                " WHERE pid = '$patient_pid'"
            );
            // return("Updated history form for Patient ID:" . $patient_pid);
        }
    }
}
```

```
// return("No History form created for Patient ID:" . $patient_pid);  
}  
  
function add_encounter( $medics, &$errors ) {  
    $msg;  
  
    $patient_pid = $medics->pid;  
    $dos = fixDate($medics->fromdate);  
    $encounter_id = $GLOBALS['adodb']['db']->GenID('sequences');  
    $encounter_reason = form2db($medics->chiefcomplaint);  
    addForm($encounter_id, "New Patient Encounter",  
        sqlInsert("INSERT INTO form_encounter SET ".  
            "date = '$dos', ".  
            "onset_date = '$dos', ".  
            "reason = '$encounter_reason', ".  
            "facility = '$patient_facility_name', ".  
            "facility_id = '$patient_facility_id', ".  
            "sensitivity = 'normal', ".  
            "pid = '$patient_pid', ".  
            "encounter = '$encounter_id'"  
        ),  
        "newpatient", $patient_pid, 1, $dos  
    );  
  
    $msg .= "Created new encounter for " . $medics->pubpid . ".<br>\n";  
  
// Custom Forms  
  
    $msg .= add_ros_subj ( $patient_pid, $dos, $encounter_id, $medics, $errors ); //ROS  
    $msg .= add_phyexam_obj( $patient_pid, $dos, $encounter_id, $medics, $errors ); //PE  
    $msg .= add_assessment_plan( $patient_pid, $dos, $encounter_id, $medics, $errors ); //Assessment/Plan  
    $msg .= add_vitals( $patient_pid, $dos, $encounter_id, $medics, $errors ); //  
    $msg .= add_other_dx( $patient_pid, $dos, $encounter_id, $medics, $errors ); //Other DX  
  
// Fee Sheet  
    $msg .= add_billing_records( $patient_pid, $dos, $encounter_id, $medics, $errors );  
  
    return $msg;  
}  
  
function isempty( $str ) {  
    return $str == null || empty($str);  
}  
function add_ros_subj( $patient_pid, $dos, $encounter_id, $medics, &$errors ) {  
  
    if (  
        !isempty($medics->medical->subjective->general) ||  
        !isempty($medics->medical->subjective->neurological) ||  
        !isempty($medics->medical->subjective->heent) ||  
        !isempty($medics->medical->subjective->respiratory) ||  
        !isempty($medics->medical->subjective->cardio) ||  
        !isempty($medics->medical->subjective->gastro) ||  
        !isempty($medics->medical->subjective->skin) ||  
        !isempty($medics->medical->subjective->extremities) ||  
        !isempty($medics->medical->subjective->subjective)  
    ) {  
  
        $row = fetchProviderInfo($medics);  
  
        if ($row['id']) { // TBD array error check NEEDED  
            $patient_provider_name = $row['username'];  
        }  
  
        addForm($encounter_id, "ROS",  
            sqlInsert("INSERT INTO form_aperio_ros SET ".  
                "date = '$dos', ".  
                "encounter_id = '$encounter_id', ".  
                "provider_name = '$patient_provider_name', ".  
                "ros = '$row[id]' ".  
            ).  
            "order = 1" .  
        );  
    }  
}
```

```

        "date = '$dos', " .
        "pid = '$patient_pid', " .
        "authorized = 1, " .
        "activity = 1, " .
        "general = '' . form2db($medics->medical->subjective->general) . "", " .
        "neurological = '' . form2db($medics->medical->subjective->neurological) . "", " .
        "heent = '' . form2db($medics->medical->subjective->heent) . "", " .
        "respiratory = '' . form2db($medics->medical->subjective->respiratory) . "", " .
        "cardio = '' . form2db($medics->medical->subjective->cardio) . "", " .
        "gastro = '' . form2db($medics->medical->subjective->gastro) . "", " .
        "skin = '' . form2db($medics->medical->subjective->skin) . "", " .
        "extremities = '' . form2db($medics->medical->subjective->extremities) . "", " .
        "subjective = '' . form2db($medics->medical->subjective->subjective) . "", " .

    ),
    "aperio_ros", $patient_pid, 1, $dos, $patient_provider_name
);

return "Added ROS for Patient ID " . $patient_pid . ".";
}

function add_phyexam_obj( $patient_pid, $dos, $encounter_id, $medics, &$errors ) {

if (!isempty($medics->medical->objective->general) ||
!isempty($medics->medical->objective->neurological) ||
!isempty($medics->medical->objective->heent) ||
!isempty($medics->medical->objective->respiratory) ||
!isempty($medics->medical->objective->cardio) ||
!isempty($medics->medical->objective->gastro) ||
!isempty($medics->medical->objective->skin) ||
!isempty($medics->medical->objective->extremities) ||
!isempty($medics->medical->objective->objective))
{
    $row = fetchProviderInfo($medics);
    if ($row['id']) { // TBD array error check NEEDED
        $patient_provider_name = $row['username'];
    }

    addForm($encounter_id, "Physical Exam",
    sqlInsert("INSERT INTO form_aperio_pe SET " .
        "date = '$dos', " .
        "pid = '$patient_pid', " .
        "authorized = 1, " .
        "activity = 1, " .
        "general = '' . form2db($medics->medical->objective->general) . "", " .
        "neurological = '' . form2db($medics->medical->objective->neurological) . "", " .
        "heent = '' . form2db($medics->medical->objective->heent) . "", " .
        "respiratory = '' . form2db($medics->medical->objective->respiratory) . "", " .
        "cardio = '' . form2db($medics->medical->objective->cardio) . "", " .
        "gastro = '' . form2db($medics->medical->objective->gastro) . "", " .
        "skin = '' . form2db($medics->medical->objective->skin) . "", " .
        "extremities = '' . form2db($medics->medical->objective->extremities) . "", " .
        "objective = '' . form2db($medics->medical->objective->objective) . "", " .

    ),
    "aperio_pe", $patient_pid, 1, $dos, $patient_provider_name
);

return "Added PE for Patient ID " . $patient_pid . ".";
}

function add_assessment_plan( $patient_pid, $dos, $encounter_id, $medics, &$errors ) {

if (!isempty($medics->medical->systems->assessment) ||
!isempty($medics->medical->systems->plan))

```

```

{
    $row = fetchProviderInfo($medics);
    if ($row['id']) { // TBD array error check NEEDED
        $patient_provider_name = $row['username'];
    }

    addForm($encounter_id, "Assessment-Plan",
    sqlInsert("INSERT INTO form_aperio_ap SET " .
        "date = '$dos', " .
        "pid = '$patient_pid', " .
        "authorized = 1, " .
        "activity = 1, " .
        "assessment = ''" . form2db($medics->medical->systems->assessment) . "' , " .
        "plan = ''" . form2db($medics->medical->systems->plan) . "'"
    ),
    "aperio_ap", $patient_pid, 1, $dos, $patient_provider_name
);

    return "Added Assessment for Patient ID " . $patient_pid . ".";
}
}

function add_other_dx( $patient_pid, $dos, $encounter_id, $medics, &$errors ) {

if (!isempty($medics->medical->systems->otherdx)) {
    $row = fetchProviderInfo($medics);
    if ($row['id']) { // TBD array error check NEEDED
        $patient_provider_name = $row['username'];
    }

    addForm($encounter_id, "Other DX",
    sqlInsert("INSERT INTO form_aperio_opd SET " .
        "date = '$dos', " .
        "pid = '$patient_pid', " .
        "authorized = 1, " .
        "activity = 1, " .
        "opd = ''" . form2db($medics->medical->systems->otherdx) . "'"
    ),
    "aperio_opd", $patient_pid, 1, $dos, $patient_provider_name
);

    return "Added OtherDX for Patient ID " . $patient_pid . ".";
}
}

function add_vitals( $patient_pid, $dos, $encounter_id, $medics, &$errors ) {
    $bmi;
    $bmi_status;

    // Create Vitals form.
    if (!empty($medics->medical->physicalexamsvitals->bps)) {

/* DISABLED
// Calculate BMI_status
if ($medics->medical->physicalexamsvitals->weight > 0 &&
    $medics->medical->physicalexamsvitals->height > 0) {
    $bmi = ($weight/$height/$height)*703;
    if ( $bmi > 42 ) $bmi_status = 'Obesity III';
    elseif ( $bmi > 34 ) $bmi_status = 'Obesity II';
    elseif ( $bmi > 30 ) $bmi_status = 'Obesity I';
    elseif ( $bmi > 27 ) $bmi_status = 'Overweight';
    elseif ( $bmi > 25 ) $bmi_status = 'Normal BL';
    elseif ( $bmi > 18.5 ) $bmi_status = 'Normal';
    elseif ( $bmi > 10 ) $bmi_status = 'Underweight';
}
*/
}

```

```

addForm($encounter_id, "Vitals",
    sqlInsert("INSERT INTO form_vitals SET ".
        "date = '$dos', ".
        "pid = '$patient_pid', ".
        "user = '' . form2db($patient_provider_name) . ''",
        "groupname = '', ".
        "authorized = 1, ".
        "activity = 1, ".
        "mentalstate = '' . form2db($medics->medical->physicalexamsvitals->mentalstatus) . ''",
        "bps = '' . form2db($medics->medical->physicalexamsvitals->bps) . ''",
        "bpds = '' . form2db($medics->medical->physicalexamsvitals->bpds) . ''",
        "weight = '' . form2db($medics->medical->physicalexamsvitals->weight) . ''",
        "height = '' . form2db($medics->medical->physicalexamsvitals->height) . ''",
        "temperature = '' . form2db($medics->medical->physicalexamsvitals->temperature) . ''",
        "temp_method = '' . form2db($medics->medical->physicalexamsvitals->tempmethods) . ''",
        "pulse = '' . form2db($medics->medical->physicalexamsvitals->pulse) . ''",
        "respiration = '' . form2db($medics->medical->physicalexamsvitals->respiration) . ''",
        "BMI = '' . form2db($medics->medical->physicalexamsvitals->bmi) . ''",
        "BMI_status = '$bmi_status', ''",
        "waist_circ = '' . form2db($medics->medical->physicalexamsvitals->waistcirc) . ''",
        "head_circ = '' . form2db($medics->medical->physicalexamsvitals->headcirc) . ''",
        "oxygen_saturation = '' . form2db($medics->medical->physicalexamsvitals->o2) . ''"
    ),
    "vitals", $patient_pid, 1, $dos
);

return "Created vitals form for Patient ID " . $patient_pid . ".\n";
}

return "No vitals form created for Patient ID " . $patient_pid . ".\n";
}

function add_billing_records( $patient_pid, $dos, $encounter_id, $medics, &$errors ) {

$row = fetchProviderInfo($medics);
$patient_provider_id = $row['id'];

$diags = array();

for ( $diag = 0; $diag < 15; $diag++ ) {

$_code = trim($medics->medical->systems->diagnosis[$diag]->code);
$_codenote = trim($medics->medical->systems->diagnosis[$diag]->codenote);
$_codestatus = trim($medics->medical->systems->diagnosis[$diag]->codestatus);

if (empty($_code)) { continue; }
$diags[] = $_code;

echo "\n--> ::: $_code $_codenote $_codestatus\n";
add_billing(
    $patient_pid,
    $encounter_id,
    $patient_provider_id,
    'ICD9',
    $_code,
    $_codenote . ' (' . $_codestatus . ')'
);

}

if (!empty($medics->medical->billable)) {

$cptCode = $medics->medical->billable->service[0]->code;
$codeNote= $medics->medical->billable->service[0]->codenote;

for ($justify = '', $j = 0; $j < 4 && $j < count($diags); ++$j) {
$justify .= $diags[$j] . ':';
}
}
}

```

```
}

    add_billing($patient_pid, $encounter_id, $patient_provider_id,
    'CPT4', $cptCode, $codeNote, $justify);
}

// Write a row to the billing table.
//
function add_billing($pid, $encounter, $provider, $codetype, $code,
    $description, $justify='', $modifier='', $units=1) {

    // echo "\n ADD BILLING: ---> $pid $encounter $provider $codetype $code $description $justify $modifier
$units\n";

    // Get the fee from the codes table.
    $fee = 0;
    if ($codetype == 'CPT4') {
        $query = "SELECT fee FROM codes WHERE code_type = 1 AND code = '$code' AND ";
        if (empty($modifier))
            $query .= "( modifier IS NULL OR modifier = '')";
        else
            $query .= "modifier = '$modifier'";
        $row = sqlQuery($query);
        if ($row['fee']) $fee = $row['fee'] * $units;
    }

    sqlInsert("INSERT INTO billing ( ".
        "date, code_type, code, pid, provider_id, user, groupname, authorized, " .
        "encounter, code_text, billed, activity, payer_id, modifier, units, " .
        "fee, justify " .
    ") VALUES ( ".
        "NOW(), " .
        "'$codetype', " .
        "'$code', " .
        "'$pid', " .
        "'$provider', " .
        "'$_SESSION['authUser']', " .
        "'$_SESSION['authProvider']', " .
        "1, " .
        "'$encounter', " .
        "'$description', " .
        "0, " .
        "1, " .
        "'$insurance_company_id', " .
        "'$modifier', " .
        "'$units', " .
        "'$fee', " .
        "'$justify'" .
    ")");
}

function get_patientid( $medics ) {

    $pubpid = trim( $medics->pubpid );
    $patient_pid = 0;
    $query = "SELECT pid FROM patient_data WHERE pubpid LIKE '$pubpid'";
    $res = sqlStatement($query);
    $row = sqlFetchArray($res);
    if ($row) {
        $patient_pid = $row['pid'];
    }

    return $patient_pid;
}
```

```
}

// Encode a string from a form field for database writing.
//
function form2db($fldval) {
    $fldval = trim($fldval);
    if (!get_magic_quotes_gpc()) $fldval = addslashes($fldval);
    return $fldval;
}

// Encode sex for OpenEMR compatibility.
//
function sex($insex) {
    if (!empty($insex)) {
        $insex = strtoupper(substr($insex, 0, 1));
        if ($insex == 'M') return 'Male';
        if ($insex == 'F') return 'Female';
    }
    return '';
}

function fetchProviderInfo($medics) {
    $query = "SELECT id, username, facility_id FROM users WHERE npi = '" . $medics->provider_npi . "'";
    $row = sqlQuery($query);
    if (!$row['id']) {
        array_push( $errors, "Provider " . $medics->provider_npi . "' not found");
        return $alertmsg;
    }
    return ($row);
}

?>

<?php

/*
# XPATHS used by import_mi2xml.php scripts
# Includes customized encounter forms (see the code) provided for example
#
# Some xpaths can be repeated many times, see comments below
#
# Provided by Medical Information Integration, LLC
# www.mi-squared.com
#
patient/pubpid
patient/insurance_id
patient/policy_id
patient/eff_date
patient/lname
patient/fname
patient/mname
patient.sex
patient/dob
patient/ethnicity
patient/street
patient/street2
patient/city
patient/state
patient/zip
patient/phone_home
patient/phone_alternate
patient/hippa_notice
patient/provider_npi
patient/provider_name
patient/fromdate
patient/chiefcomplaint
```

```
patient/familyinformation/father
patient/familyinformation/mother
patient/familyinformation/spouse
patient/familyinformation/siblings
patient/familyinformation/offspring

patient/medical/relativesexperience/cancer
patient/medical/relativesexperience/tuberculosis
patient/medical/relativesexperience/diabetes
patient/medical/relativesexperience/highbloodpressure
patient/medical/relativesexperience/heartproblems
patient/medical/relativesexperience/stroke
patient/medical/relativesexperience/epilepsy
patient/medical/relativesexperience/mentalillness
patient/medical/relativesexperience/suicide
patient/medical/relativesexperience/other
patient/medical/lifestyleusage/coffee
patient/medical/lifestyleusage/tobacco
patient/medical/lifestyleusage/alcohol
patient/medical/lifestyleusage/sleep
patient/medical/lifestyleusage/exercise
patient/medical/lifestyleusage/seatbelt
patient/medical/lifestyleusage/counseling
patient/medical/lifestyleusage/hazardactivities
patient/medical/lifestyleusage/urinaryincontinence
patient/medical/lifestyleusage/fallhistory
patient/medical/lifestyleusage/other
patient/medical/lifestyleusage/generalnotes

patient/medical/medicalhistory/medicationnotes
patient/medical/medicalhistory/allergies
patient/medical/medicalhistory/history
patient/medical/medicalhistory/surgicalhistory
patient/medical/medicalhistory/preventative

# Multiple segments supported in current script

patient/medical/medications/medication/name
patient/medical/medications/medication/dosage
patient/medical/medications/medication/frequency
patient/medical/medications/medication/id

# Custom Form
patient/medical/subjective/general
patient/medical/subjective/neurological
patient/medical/subjective/heent
patient/medical/subjective/respiratory
patient/medical/subjective/cardio
patient/medical/subjective/gastro
patient/medical/subjective/skin
patient/medical/subjective/extremities
patient/medical/subjective/subjective

# Custom Form
patient/medical/objective/general
patient/medical/objective/neurological
patient/medical/objective/heent
patient/medical/objective/respiratory
patient/medical/objective/cardio
patient/medical/objective/gastro
patient/medical/objective/skin
patient/medical/objective/extremities
patient/medical/objective/objective

# Custom Form
patient/medical/physicalexamsvitals/mentalstatus
```

```
patient/medical/physicalexamsvitals/bps
patient/medical/physicalexamsvitals/bpd
patient/medical/physicalexamsvitals/weight
patient/medical/physicalexamsvitals/height
patient/medical/physicalexamsvitals/temperature
patient/medical/physicalexamsvitals/tempmethods
patient/medical/physicalexamsvitals/pulse
patient/medical/physicalexamsvitals/respiration
patient/medical/physicalexamsvitals/bmi
patient/medical/physicalexamsvitals/waistcirc
patient/medical/physicalexamsvitals/headcirc
patient/medical/physicalexamsvitals/o2

# Custom Form
patient/medical/systems/assessment
patient/medical/systems/plan

# Multiple segments supported in current script
patient/medical/systems/diagnosis/code
patient/medical/systems/diagnosis/codenote
patient/medical/systems/diagnosis/codestatus

# Custom Form
patient/medical/systems/otherdx

# Multiple segments supported in current script
patient/medical/billable/service[1]/code
patient/medical/billable/service[1]/codenote
patient/medical/billable/service[1]/modifier

*/
?>
```