```vb
Option Explicit

Private Const MODULE_NAME = "frmLookupProcedure"

' Returned values
Public m_sRecId As String
Public m_sName As String
Public m_sNarrative As String
Public m_sCPTcode As String

Dim m_bDisplayShortText As Boolean
Dim m_bUpperCase As Boolean
Dim m_bInitQuery As Boolean
Dim m_sParam As String
Dim m_bCancel As Boolean
Dim m_sLookupDate As String
Dim m_vData() As String
Dim m_sDate As String

Private Enum cnColumns
  cnIEN
  cnCode
  cnText
End Enum

Public Function RunQuery(ByVal Lookup As String, Optional ByVal UseEncounterDate As Boolean) As Boolea
n
  Dim sOpt As String, sRpc As String, i As Integer

  m_sRecId = ""
  m_sName = ""

  If m_sDate = "" Then
    If UseEncounterDate And oEncounter.DateTime > 0 Then
      m_sDate = oEncounter.DateTime
    Else
      m_sDate = oSession.HostDateTime
    End If

    m_sDate = Piece(m_sDate, " ")
  End If

  txtName.Text = Lookup
  Tag = ""
  m_bCancel = False
  sOpt = GetParam("CptLookup-Opt")

  If sOpt = "1" Then
    opt(1) = True
  Else
    opt(0) = True
  End If

  sOpt = GetParam("CptLookup-chk")

  If sOpt <> "" And Left(sOpt, 1) <> "-" Then
    chkRet.Value = CInt(sOpt)
  End If

  sOpt = GetParam("CptLookup-mnuDisplay")

  If sOpt <> "" Then
    m_bDisplayShortText = sOpt <> "0"
  End If

  sOpt = GetParam("CptLookup-mnuCase")

  If sOpt <> "" Then
    m_bUpperCase = sOpt = "3"
  End If

  sOpt = GetParam("CptLookup-Opt")
```

```vba
   If sOpt = "1" Then
     opt(1).Value = True
   Else
     opt(0).Value = True
   End If

   fgResults.Rows = 1

   ' Lookup Text [1] ^ Use Lexicon [2] ^ Date [3] ^ Exclude Med [4] ^ Exclude Surg [5] ^
   ' Exclude HCPCS [6] ^ Exclude E&M [7] ^ Exclude Rad [8] ^ Exclude Lab [9] ^
   ' Exclude Anesth [10] ^ Exclude Home [11]

   m_sParam = Piece(UCase(Lookup), " - ")
   m_sParam = m_sParam & U & IIf(opt(0).Value, "1", "0")
   m_sParam = m_sParam & U & m_sDate

   For i = 0 To 7
     m_sParam = m_sParam & U & IIf(chk(i).Value = vbUnchecked, "1", "0")
   Next i

   If m_sParam = "" Then
     sRpc = ""
   Else
     sRpc = CallRPCList("BGOVCPT CPTLKUP", m_sParam)
   End If

   m_vData = Split(sRpc, vbCrLf)
   LoadGrid m_vData

   If fgResults.Rows > 1 Then
     fgResults.Row = 1
     fgResults.Select 1, 0, 1, fgResults.Cols - 1
   End If

   If Not Visible Then
     Show vbModal
     Unload Me
   End If

   RunQuery = Not m_bCancel
End Function

Private Sub chkRet_Click()
   SetParam "CptLookup-chk", chkRet.Value
End Sub

Private Sub cmdCancel_Click()
   m_bCancel = True
   Hide
End Sub

Private Sub cmdSelect_Click()
   Dim i As Integer

   On Error GoTo errHandle

   With fgResults
     If .Row = 0 Then
       ShowWarning TX_NO_ROW_SEL, TC_NO_ROW
       Exit Sub
     End If

     m_sRecId = .TextMatrix(.Row, cnIEN)
     m_sCPTcode = .TextMatrix(.Row, cnCode)
     m_sName = .TextMatrix(.Row, cnText)

     If chkRet.Value = vbChecked Then
       m_sNarrative = txtName.Text
     Else
       m_sNarrative = m_sName
     End If

     If m_sRecId = "" Then
```

```
      m_sRecId = CallRPCStr("BGOVCPT GETIEN", m_sCPTcode)
    End If
  End With

  Hide
  Exit Sub

errHandle:
  ErrorTrap MODULE_NAME, "cmdSelect_Click"
End Sub

Private Sub cmdSearch_Click()
  On Error GoTo errHandle

  If txtName = "" Then
    ShowError TX_NO_SEARCH_TEXT, TC_NO_SEARCH
    Exit Sub
  End If

  RunQuery txtName

  If fgResults.Rows > 1 Then
    On Error Resume Next
    fgResults.SetFocus
  End If

  If m_sRecId <> "" Then
    Hide
  ElseIf fgResults.Rows < 2 Then
    ShowInfo TX_NO_MATCHES, "Find Record"
  End If

  Exit Sub

errHandle:
  ErrorTrap MODULE_NAME, "cmdSearch_Click"
End Sub

Private Sub fgResults_DblClick()
  If fgResults.MouseRow > 0 Then cmdSelect_Click
End Sub

Private Sub fgResults_MouseMove(Button As Integer, Shift As Integer, X As Single, Y As Single)
  On Error Resume Next

  fgResults.ToolTipText = ""
  If Not m_bDisplayShortText Then Exit Sub
  If Not opt(1).Value Then Exit Sub

  With fgResults
    If .MouseCol < 1 Or .MouseRow < 1 Then
      .ToolTipText = ""
      Exit Sub
    End If

    .ToolTipText = .Cell(flexcpText, .MouseRow, 3)
  End With
End Sub

Private Sub fgResults_MouseUp(Button As Integer, Shift As Integer, X As Single, Y As Single)
  If Button = vbRightButton And opt(1).Value Then
    If Not m_bDisplayShortText Then
      mnuText(0).Checked = True
      mnuText(1).Checked = False
    Else
      mnuText(1).Checked = True
      mnuText(0).Checked = False
    End If

    If m_bUpperCase Then
      mnuText(3).Checked = True
      mnuText(4).Checked = False
    Else
```

```
      mnuText(4).Checked = True
      mnuText(3).Checked = False
    End If

    PopupMenu mnuPopup
  End If
End Sub

Private Sub Form_Activate()
  On Error Resume Next

  If fgResults.Rows < 2 Then
    txtName.SetFocus
    txtName.SelStart = 0
    txtName.SelLength = 999
  Else
    fgResults.SetFocus
  End If
End Sub

Private Sub Form_Load()
  m_bInitQuery = False
  m_sDate = ""
End Sub

Private Sub LoadGrid(ByRef v() As String)
  Dim i As Integer, s As String, p As Integer

  On Error GoTo errHandle

  With fgResults
    .Clear
    .Rows = 1
    .Cols = 3
    .FixedCols = 0
    .TextMatrix(0, cnIEN) = "ID"
    .TextMatrix(0, cnCode) = "Code"
    .TextMatrix(0, cnText) = "Narrative"
    .ColHidden(cnIEN) = True
    .ColWidth(cnText) = 2000
    .ColWidth(cnCode) = 600
    .ColAlignment(1) = flexAlignCenterCenter
    .AllowUserResizing = flexResizeColumns
    .AutoSizeMode = flexAutoSizeRowHeight
    .SelectionMode = flexSelectionByRow
    .ExplorerBar = flexExSortShow
    .AllowSelection = False
    .ExtendLastCol = True
    .ScrollBars = flexScrollBarVertical

    ' Description [1] ^ CPT IEN [2] ^ CPT Code [3] ^ Narrative [4]

    For i = 0 To UBound(v)
      If Piece(v(i), U, 2) <> "" Then
        .Rows = .Rows + 1
        .TextMatrix(.Rows - 1, cnIEN) = Piece(v(i), U, 2)
        .TextMatrix(.Rows - 1, cnCode) = Piece(v(i), U, 3)
        p = IIf(m_bDisplayShortText, 1, 4)
        .TextMatrix(.Rows - 1, cnText) = IIf(m_bUpperCase, Piece(v(i), U, p), StrConv(Piece(v(i), U, p
), vbProperCase))
      End If
    Next i

    .AutoSizeMode = flexAutoSizeColWidth
    .AutoSize 1, .Cols - 1
    .WordWrap = True
    .AutoSizeMode = flexAutoSizeRowHeight
    .AutoSize 2
    .Row = 0
    cmdSelect.Enabled = .Rows > 1
    cmdSelect.Default = .Row > 1
  End With
  Exit Sub
```

```vb
errHandle:
   ErrorTrap MODULE_NAME, "LoadGrid"
End Sub

Private Function GetIDfromLEX(sParam As String)
   GetIDfromLEX = CallRPCStr("BGOUTL CPTLEXCD", sParam)
End Function

Private Sub Form_Resize()
   On Error Resume Next

   If ScaleHeight > 0 Then
     cmdSearch.Move ScaleWidth - cmdSearch.Width - 90
     txtName.Move txtName.Left, txtName.Top, ScaleWidth - cmdSearch.Width - 180 - txtName.Left
     fgResults.Move fgResults.Left, fgResults.Top, ScaleWidth - 90, ScaleHeight - cmdSelect.Height - 90
 - fgResults.Top
     cmdCancel.Move ScaleWidth - cmdCancel.Width - 90, fgResults.Top + fgResults.Height + 60
     cmdSelect.Move ScaleWidth - cmdCancel.Width - 180 - cmdSelect.Width, cmdCancel.Top
     chkRet.Top = cmdCancel.Top + 90
     fgResults.AutoSizeMode = flexAutoSizeRowHeight
     fgResults.AutoSize 2
   End If
End Sub

Private Sub mnuText_Click(Index As Integer)
   Dim s As String

   Select Case Index
     Case 0
       m_bDisplayShortText = False

     Case 1
       m_bDisplayShortText = True

     Case 3
       m_bUpperCase = True

     Case 4
       m_bUpperCase = False
   End Select

   LoadGrid m_vData

   On Error Resume Next

   If Index < 2 Then
     SetParam "CptLookup-mnuDisplay", Index
   Else
     SetParam "CptLookup-mnuCase", Index
   End If
End Sub

Private Sub opt_Click(Index As Integer)
   If Visible Then
     cmdSearch_Click
     SetParam "CptLookup-Opt", Index
   End If
End Sub

Private Sub txtName_Change()
   cmdSearch.Default = True
End Sub
```

```
VERSION 5.00
Object = "{1C0489F8-9EFD-423D-887A-315387F18C8F}#1.0#0"; "vsflex8l.ocx"
Begin VB.Form frmLookupProcedure
   Caption         =   "Procedure Lookup"
   ClientHeight    =   5325
   ClientLeft      =   60
   ClientTop       =   345
   ClientWidth     =   6975
   Icon            =   (None)
   LinkTopic       =   "Form1"
   MaxButton       =   0   'False
   MinButton       =   0   'False
   ScaleHeight     =   5325
   ScaleWidth      =   6975
   StartUpPosition =   1   'CenterOwner
   Begin VB.CheckBox chk
      Caption         =   "&Home Health"
      Height          =   255
      Index           =   7
      Left            =   4680
      TabIndex        =   14
      Top             =   1050
      Width           =   1245
   End
   Begin VB.OptionButton opt
      Caption         =   "Le&xicon"
      Height          =   225
      Index           =   0
      Left            =   3210
      TabIndex        =   4
      Top             =   30
      Value           =   -1  'True
      Width           =   975
   End
   Begin VB.OptionButton opt
      Caption         =   "CPT"
      Height          =   225
      Index           =   1
      Left            =   4320
      TabIndex        =   5
      Top             =   30
      Width           =   645
   End
   Begin VSFlex8LCtl.VSFlexGrid fgResults
      Height          =   3105
      Left            =   30
      TabIndex        =   16
      Top             =   1650
      Width           =   6855
      _cx             =   12091
      _cy             =   5477
      Appearance      =   1
      BorderStyle     =   1
      Enabled         =   -1  'True
      BeginProperty Font {0BE35203-8F91-11CE-9DE3-00AA004BB851}
         Name            =   "MS Sans Serif"
         Size            =   8.25
         Charset         =   0
         Weight          =   400
         Underline       =   0   'False
         Italic          =   0   'False
         Strikethrough   =   0   'False
      EndProperty
      MousePointer    =   0
      BackColor       =   -2147483643
      ForeColor       =   -2147483640
      BackColorFixed  =   -2147483633
      ForeColorFixed  =   -2147483630
      BackColorSel    =   -2147483635
      ForeColorSel    =   -2147483634
      BackColorBkg    =   -2147483636
      BackColorAlternate= -2147483643
      GridColor       =   -2147483633
```

```
      GridColorFixed  =    -2147483632
      TreeColor       =    -2147483632
      FloodColor      =    192
      SheetBorder     =    -2147483642
      FocusRect       =    1
      HighLight       =    1
      AllowSelection  =    -1   'True
      AllowBigSelection=   -1   'True
      AllowUserResizing=    0
      SelectionMode   =    0
      GridLines       =    1
      GridLinesFixed  =    2
      GridLineWidth   =    1
      Rows            =    50
      Cols            =    10
      FixedRows       =    1
      FixedCols       =    1
      RowHeightMin    =    0
      RowHeightMax    =    0
      ColWidthMin     =    0
      ColWidthMax     =    0
      ExtendLastCol   =    0      'False
      FormatString    =    ""
      ScrollTrack     =    0      'False
      ScrollBars      =    3
      ScrollTips      =    0      'False
      MergeCells      =    0
      MergeCompare    =    0
      AutoResize      =    -1   'True
      AutoSizeMode    =    0
      AutoSearch      =    0
      AutoSearchDelay =    2
      MultiTotals     =    -1   'True
      SubtotalPosition=    1
      OutlineBar      =    0
      OutlineCol      =    0
      Ellipsis        =    0
      ExplorerBar     =    0
      PicturesOver    =    0      'False
      FillStyle       =    0
      RightToLeft     =    0      'False
      PictureType     =    0
      TabBehavior     =    0
      OwnerDraw       =    0
      Editable        =    0
      ShowComboButton =    1
      WordWrap        =    0      'False
      TextStyle       =    0
      TextStyleFixed  =    0
      OleDragMode     =    0
      OleDropMode     =    0
      ComboSearch     =    3
      AutoSizeMouse   =    -1   'True
      FrozenRows      =    0
      FrozenCols      =    0
      AllowUserFreezing=    0
      BackColorFrozen =    0
      ForeColorFrozen =    0
      WallPaperAlignment=    9
      AccessibleName  =     ""
      AccessibleDescription=    ""
      AccessibleValue =     ""
      AccessibleRole  =    24
   End
   Begin VB.CheckBox chk
      Caption         =    "&HCPCS"
      Height          =    255
      Index           =    2
      Left            =    3450
      TabIndex        =    9
      Top             =    750
      Value           =    1   'Checked
      Width           =    855
```

```
      End
      Begin VB.CheckBox chk
         Caption         =   "&Anesthesia"
         Height          =   255
         Index           =   6
         Left            =   3450
         TabIndex        =   13
         Top             =   1050
         Width           =   1095
      End
      Begin VB.CheckBox chk
         Caption         =   "&Laboratory"
         Height          =   255
         Index           =   5
         Left            =   2280
         TabIndex        =   12
         Top             =   1050
         Width           =   1065
      End
      Begin VB.CheckBox chk
         Caption         =   "&Radiology"
         Height          =   255
         Index           =   4
         Left            =   1140
         TabIndex        =   11
         Top             =   1050
         Width           =   1035
      End
      Begin VB.CheckBox chk
         Caption         =   "&E && M"
         Height          =   255
         Index           =   3
         Left            =   4680
         TabIndex        =   10
         Top             =   750
         Width           =   795
      End
      Begin VB.CheckBox chk
         Caption         =   "&Surgical"
         Height          =   255
         Index           =   1
         Left            =   2280
         TabIndex        =   8
         Top             =   750
         Value           =   1  'Checked
         Width           =   915
      End
      Begin VB.CheckBox chk
         Caption         =   "&Medical"
         Height          =   255
         Index           =   0
         Left            =   1140
         TabIndex        =   7
         Top             =   750
         Value           =   1  'Checked
         Width           =   915
      End
      Begin VB.CommandButton cmdCancel
         Cancel          =   -1  'True
         Caption         =   "&Cancel"
         Height          =   390
         Left            =   5640
         TabIndex        =   18
         Top             =   4860
         Width           =   1005
      End
      Begin VB.CommandButton cmdSelect
         Caption         =   "&OK"
         Enabled         =   0   'False
         Height          =   390
         Left            =   4530
         TabIndex        =   19
         Top             =   4860
```

```
      Width           =   1005
   End
   Begin VB.TextBox txtName
      Height          =   315
      Left            =   1110
      TabIndex        =   0
      Top             =   300
      Width           =   4665
   End
   Begin VB.CommandButton cmdSearch
      Caption         =   "&Search"
      Default         =   -1  'True
      Height          =   360
      Left            =   5790
      TabIndex        =   2
      TabStop         =   0   'False
      Top             =   300
      Width           =   1005
   End
   Begin VB.CheckBox chkRet
      Caption         =   "Return Search Text as &Narrative"
      Height          =   225
      Left            =   120
      TabIndex        =   17
      Top             =   4950
      Width           =   2715
   End
   Begin VB.Label Label3
      Alignment       =   1  'Right Justify
      Caption         =   "Loo&kup Option"
      Height          =   225
      Left            =   1860
      TabIndex        =   3
      Top             =   30
      Width           =   1185
   End
   Begin VB.Label Label2
      Alignment       =   1  'Right Justify
      Caption         =   "&Included Code Sets"
      Height          =   435
      Left            =   60
      TabIndex        =   6
      Top             =   810
      Width           =   930
   End
   Begin VB.Label Label1
      Caption         =   "Select from one of the following items"
      Height          =   195
      Left            =   90
      TabIndex        =   15
      Top             =   1410
      Width           =   2775
   End
   Begin VB.Label lblFirstName
      Caption         =   "Search &Value"
      Height          =   225
      Left            =   90
      TabIndex        =   1
      Top             =   345
      Width           =   960
   End
   Begin VB.Menu mnuPopup
      Caption         =   "mnuPopup"
      Visible         =   0   'False
      Begin VB.Menu mnuText
         Caption         =   "Display &Long Narrative"
         Index           =   0
      End
      Begin VB.Menu mnuText
         Caption         =   "Display &Short Text"
         Index           =   1
      End
      Begin VB.Menu mnuText
```

```
        Caption         =    "-"
        Index           =    2
     End
     Begin VB.Menu mnuText
        Caption         =    "UpperCase"
        Index           =    3
     End
     Begin VB.Menu mnuText
        Caption         =    "MixedCase"
        Index           =    4
     End
   End
End
```

Lookup Option ⦿ Lexicon   ○ CPT

Search [   ] [Search]

Included ☑ Medical ☑ Surgical ☑ HCPCS ☐ E & M
Code Sets ☐ Radiology ☐ Laboratory ☐ Anesthesia ☐ Home Health

Select from one of the following items

☐ Return Search Text as Narrative   [OK]   [Cancel]