User's Guide

Dutch Periodontal Screening Index (DPSI)
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The Dutch Periodontal Screening Index (DPSI) is based on a patient scoring system from Category A (healthiest) through Category B and Category C (least healthy).

Dutch Practices are required to plan treatments and the treatment level according to the patient DPSI Category.

The EVOLUTION DPSI software enhancement allows DPSI Categories to be recorded, reviewed and managed per patient.

Dental practitioners can also opt to be automatically alerted if a patient’s DPSI examination is overdue.

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- **DPSI benefits** (on page 6)
- **DPSI features** (on page 6)
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(strategy, screens and procedures)
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Resources
- DPSI http://www.screencast.com/t/WeS2GRliit
- Training Competencies
Overview of DPSI

This section considers the background and features of DPSI.

**DPSI purpose**

Since 1998 it has been mandatory for Dutch dentists to record Dutch Periodontal Screening Index (DPSI) at every check-up visit. The regulation is driven by government that

- Careful assessment of the periodontal tissues is an essential component of patient management,
- A standard rapid screening tool is required, and
- This tool should indicate the level of examination and treatment required.

DPSI is based on a patient scoring system from Category A (healthiest) through Category B and Category C (least healthy). Dutch Practices are required to plan treatments and the treatment level according to the DPSI Category.

DPSI was formerly known as the Modified CPITN Index.

The UK equivalent of DPSI is BPE/CPITN.

**DPSI benefits**

Benefits include:

- EVOLUTION can automatically prompt for a DPSI examination as a service is completed.
- Dentists no longer need to do manual DPSI Category calculations.
- The screen interface is easy to understand and use, and integrates well into the Perio tab functionality.
- EVOLUTION users can review previous DPSI examinations.
- DPSI examinations are editable within the same day so dentists have the opportunity to tweak scores and details.
- EVOLUTION can be configured to remind dentists to repeat examinations when they are due.
- Dentists can move quickly around the examination screen by means of the Tab key.

**DPSI features**

**EVOLUTION calculates the DPSI Category automatically**

EVOLUTION calculates the DPSI Category(A, B or C) automatically, based on Provider recordings:

Clear display of most recent Patient DPSI in the EVOLUTION screens
The DPSI Category for a Patient is clearly indicated in the software screens in the form of colour-coded icons:

(Nothing recorded | Categories A, B, C | Alert - DPSI is overdue)

For Providers the Category score from the last DPSI examination is visible in the Patient screen toolbar:

For Receptionists it is visible in the Edit Appointment screen

Automated alert for overdue patient DPSI

EVOLUTION has a configurable setting in months for when a Patient’s DPSI check becomes overdue (where 0 months is no alert). EVOLUTION reminds users by means of the following:

- Overdue alerts are indicated in the icon bar by means of a yellow triangle:

- If the DPSI is overdue (as indicated by the DPSI icon’s yellow triangle background), when the dentist completes an appropriate treatment EVOLUTION directs the Provider to the DPSI charting screen, where there is a message "Patient has overdue DPSI exam":

View previous DPSI examinations

From a patient’s Perio tab Providers can access and view read-only versions of previous DPSI examinations (the scores are "greyed out"): 
Edit an examination created today
From a patient’s Perio tab Providers can edit a DPSI examination that was created on that same day.

**DPSI requirements**
DPSI functionality is available from EVOLUTION v11.3 onwards.

**Using DPSI**
This section includes information for viewing DPSI Categories and for recording values in the DPSI screen.

**Accessing a patient DPSI screen**

*To access the Patient DPSI screen*
Access the DPSI screen (see "The DPSI examination screen" on page 10) in these ways:

- If DPSI has been configured with an overdue alert (see "Configuring the DPSI Overdue Date Alert" on page 20), and if a DPSI examination is overdue (as indicated by the DPSI icon’s yellow triangle background), when the dentist completes a treatment the DPSI screen pops up automatically.
- Providers can also access the DPSI screen from the DPSI button in the Patient Perio tab:
Viewing recorded DPSI examinations

**NOTE:**
A DPSI examination remains editable on the same day that it was created, but when that day is over it becomes Read Only.

In the list of examinations the latest examination by default displays visible, selected and last in the list.

**To view a patient’s historical DPSI examinations**

1. Select the patient and open the Perio Tab.
   Each DPSI examination is listed in abbreviated form in the DPSI pane at bottom left of the screen.

2. You can view the information in this pane:

   **19/02/14**  **X  1 B  3-**  **this is a test note**

   **Cat:**  **B  1 B  2 B  2**

3. Or you can open the DPSI recording screen by doubleclicking the record or selecting it and clicking the Edit button:

   ![DPSI recording screen]

Adding a New DPSI examination

**To add a new DPSI examination**

1. **Access a patient DPSI screen** (see "Accessing a patient DPSI screen" on page 8)
2. Select the +DPSI button to add new:

![DPSI examination screen]

3. See also Recording the DPSI (on page 12)

### The DPSI examination screen

**To understand the DPSI examination screen**

The DPSI index is the highest measured DPSI score across all sextants.

On the basis of the established index, the patient is assigned to **Category A**, **B** or **C**.

Only one value need be added for **EVOLUTION** to calculate a Category.

This is the screen for recording or editing a patient’s DPSI figures, bleeding records, and optional Notes:

![DPSI Grid]

Displayed in the Title Bar is the **Date** (dd/mm/yyyy format) and **User** code of the last user who modified the examination.

(These details do not display on the Add New DPSI screen)

**To view Help on the DPSI screen**, with the screen displayed, press F1 on your keyboard or click the Help icon 📂.

#### Bleeding

Tick the boxes to indicate whether bleeding is occurring in the relevant quadrant. **Note**: This is not a requirement in Dutch legislation but has proved useful in the UK.

#### DPSI Grid

Drop downs for each quadrant, which allow the user to select one of the following options: blank, 0, 1, 2, 3+, 4, and X.

Blank is the default (not recorded), and X is edentulous.

If you are not using a mouse, move around the dropdown boxes clockwise by pressing the tab key. The default first DPSI grid entry is the top left.

#### Notes

Free text box (notes are optional).
**Category**  
Category (A, B or C) calculated automatically from the DPSI grid and shown in bold. This score displays for EVOLUTION users in the Edit Appointment screen and the Patient Perio (Paro) tab. This Category score determines the type and level of treatment that the patient should receive.

**Date**  
dd/mm/yyyy format

---

**To understand how DPSI category scores are calculated**

<table>
<thead>
<tr>
<th>Category Grid</th>
<th>Category: A</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

If any values are **3+ or 4** the calculation is **Category: C**

| If any values are **3-** the calculation is **Category: B**
| For *any other* values the calculation is **Category: A**

Also,

- If the DPSI has any 6 quadrants blank the score will be a hyphen: **Category: -**
- If the DPSI has 1-5 quadrants blank it will calculate the score based on the available entries.
- If the DPSI has 6 Xs (all edentulous) the score will be **Category: A**.
- If you select **OK** on the DPSI screen when the score is still a hyphen, a warning will appear:

  ![DPSI Grid Error]

(The Select OK to return to the DPSI screen)

---

**Editing a DPSI examination**

**DPSI is only editable on the same day as it was created**

A DPSI examination remains editable on the same day that it was created, but when that day is over it becomes Read Only.

A Read Only DPSI is "greyed out":

![DPSI Grid Error]
To edit a patient DPSI examination (on the same day that it was created)
1. Select the Patient and open the Perio tab.
2. Locate the assessment where it is listed in the DPSI pane at bottom left and check that it was completed TODAY.
   In the list of examinations the latest examination by default displays visible, selected and last in the list.
3. Either double-click it or select the assessment and click the Edit button at the bottom of the screen.
4. When the assessment opens, edit it appropriately, as for Recording the DPSI (on page 12).

Recording the DPSI

To record the DPSI
(See also: Accessing a patient DPSI screen (on page 8) | Adding a New DPSI examination (on page 9)
The dentition is divided into sextants (6):

<table>
<thead>
<tr>
<th>2</th>
<th>1</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

Upper right (17 to 14) | Upper anterior (13 to 23) | Upper left (24 to 27)
Lower right (47 to 44) | Lower anterior (43 to 33) | Lower left (34 to 37)

These are represented in the DPSI Screen (see "The DPSI examination screen" on page 10) as follows, with a dropdown menu as the means to record a value for each sextant:

The default value is blank (not recorded):).
Score options are 0, 1, 2, 3, 3+, 4, and X (X is edentulous).

Examine each sextant and award a value
- Examine all teeth in each sextant, with the exception of 3rd molars.
- For a sextant to qualify for recording, it must contain at least 2 teeth.
  (If only 1 tooth is present in a sextant, the score for that tooth is included in the recording for the adjoining sextant).
- Use a World Health Organisation probe, which has a “ball end” 0.5 mm in diameter, and a black band from 3.5 to 5.5 mm.
- Use light probing force (20-25 grams).
- Walk the probe around the sulcus/pockets in each sextant, and record the highest score in that sextant.
- The moment you identify a code 4 in a sextant, optionally move directly on to the next sextant. If you do not detect a code 4, examine all sites in that sextant to ensure that you record the highest score in the sextant.

Recommendation: It is best to continue to examine all sites within the sextant so that you gain a full
understanding of the periodontal condition and do not miss furcation involvements.

Record Bleeding

This is not a compulsory recording element in Dutch DPSI, but has been included in the EVOLUTION software for each sextant due to its proven usefulness in the dental industry.

Notes:

Optionally type into this free text box (there is no character limitation).

To move around the DPSI screen using the Tab key on your keyboard

Starting from the top left corner of the DPSI grid, as you keep selecting the Tab key, the order is

1. Clockwise around the DPSI grid
2. Then clockwise around the bleeding checkboxes
3. Then Notes
4. Then buttons OK and Cancel.

To understand how DPSI category scores are calculated

<table>
<thead>
<tr>
<th>DPSI Grid</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 + 1 + 2</td>
<td>A</td>
</tr>
</tbody>
</table>

If any values are 3+ or 4 the calculation is **Category: C**

For any other values the calculation is **Category: A**

Also,

- If the DPSI has any 6 quadrants blank the score will be a hyphen: **Category: -**
- If the DPSI has 1-5 quadrants blank it will calculate the score based on the available entries.
- If the DPSI has 6 Xs (all edentulous) the score will be **Category: A**.
- If you select OK on the DPSI screen when the score is still a hyphen, a warning will appear:

(Select OK to return to the DPSI screen)
DPSI Category indicators

Patients who have never had a DPSI exam have no DPSI indication.

For Patients with a DPSI Categories (Blank or A, B, C) the status indicator displays in the EVOLUTION interface as a colour-coded icon.

To understand patient DPSI Categories in EVOLUTION

For Providers the Category score from the last DPSI examination is visible in the Patient screen toolbar:

For Receptionists it is visible in the Edit Appointment screen

Tooltip information

Hover the mouse cursor over the icon for tooltip details:

- “Patient has an overdue DPSI exam” on an icon with a red background.
- “Patient’s DPSI exam is up to date” on an icon with a grey background.

The icons

The icon status updates as a Provider updates the custom screen.

No DPSI has ever been completed for this Patient.

DPSI category A (green)

DPSI category B (orange)

DPSI category C (red)

Yellow triangle background indicates that the DPSI is overdue. This has to have been configured - see Configuring the DPSI Overdue Date Alert (on page 20)
Responding to a DPSI Overdue Alert

Alerts can be configured for overdue DPSI examinations at the user level (some dentists may opt to not have the alert).

To respond to a DPSI Overdue Alert

The alert displays as a yellow triangle:

1. A dentist can simply proceed with the patient.
2. When the dentist completes a treatment, the DPSI screen pops up.
3. The dentist can either perform the DPSI examination at that point or select the Cancel button, in which case the prompt is postponed until the dentist completes the next treatment and meets the requirement of the DPSI Alert configuration (see "Configuring the DPSI Overdue Date Alert" on page 20) settings configuration.
Printing Patient DPSI Category

To print the Patient DPSI Category

Print the Patient Details in the normal way, but in the Print Patient Details screen, select the checkbox Include DPSI scores:

DPSI Icon guidelines

The icon status updates as a Provider updates the custom screen.

- No DPSI has ever been completed for this Patient.
- DPSI category A (green)
- DPSI category B (orange)
- DPSI category C (red)
- Yellow triangle background indicates that the DPSI is overdue.
Guidelines for DPSI Category calculation

To understand how DPSI category scores are calculated

If any values are 3+ or 4 the calculation is Category: C

For any other values the calculation is Category: A

If any values are 3- the calculation is Category: B

Also,

- If the DPSI has any 6 quadrants blank the score will be a hyphen: Category: -
- If the DPSI has 1-5 quadrants blank it will calculate the score based on the available entries.
- If the DPSI has 6 Xs (all edentulous) the score will be Category: A.
- If you select OK on the DPSI screen when the score is still a hyphen, a warning will appear:

(Select OK to return to the DPSI screen)

DPSI on the Perio tab

With DPSI charting enabled on the Perio tab, Providers can

- View read-only previous DPSI examinations.
- Edit a DPSI examination that was created on the same day.
Reporting on Patients and DPSI categories

If EVOLUTION has been configured for it, you can create Contact Lists of Patients based on DPSI Category parameters.

(See also: Configuring a Query on DPSI Categories (on page 21))

To report on Patients and DPSI Categories

1. Go to Administration > Contact Lists...
2. In the Contact Lists screen proceed as follows:

A  Select the Create List button.
B  In the Create Contact List window, click the Select a Query Template button.
C  In the View Query Templates window, select DPSI.
D  ... and select OK.
E  In the Create Contact List window select OK.

The DPSI Patient Query window displays:
3. Select parameters:
Select any combination of Categories A, B and C.
By default the query is constrained to the **Current DPSI category only**, but you can opt to **Include historical DPSI categories**.

Select a Date range:

4. Select **OK** to run the Query.
A summary displays:

5. Click **OK** to display the list:
Configuring DPSI

This section covers the simple DPSI configuration tasks.

Configuring the DPSI Overdue Date Alert

It is possible to configure EVOLUTION to alert practitioners when the DPSI is overdue. The overdue alert can be configured in Months.

Circumstances in which there will be no alert:
- No DPSI has ever been completed for the Patient
- The DPSI Alert months field in the Patient File Configuration screen is set to 0 (zero) months.

Users are alerted in two ways:
- An alert icon with a yellow triangle background:
- When an appropriate service has been completed within a COT, EVOLUTION directs the Provider to the DPSI charting screen where there is a notice "Patient has overdue DPSI exam":

To configure the DPSI Overdue Date Alert
1. Open the Patient File configuration screen.
2. Configure the DPSI overdue period in this field:
   Alert if ___ months since last DPSI:
   A value of 0 causes no alert.
3. You will be prompted to restart EVOLUTION after the Patient File change.
Configuring a Query on DPSI Categories

Practices can configure a Query to report on patient DPSI categories.

**To configure a Query on DPSI Categories**

1. Go to Configure > Patient Query Templates...
   The list of templates displays.

2. Proceed as follows:

   ![Diagram of Query Configuration Process]

   **A** Select the +1 button to Add Query Template.
   **B** In the Add Query Template window, type a Description for the new template.
   **C** Select the Insert Patient Selection button.
   **D** In the Select Condition window, select DPSI Category.
   **E** Select OK.
   **F** In the Edit Patient Selection window, check (tick) the Prompt for entries checkbox.
   This specifies that for any query, this Edit Patient Selection window will pop up, allowing the user to customise the settings at the time.
   **G** Select OK. and OK again.

The new Query Template displays in the list:
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