# Process Description - Version 4.0 (June 2010)

**Roles:** IT MGR / CMIS Steering Committee Supervision

## Process 4.5.1: Laboratory Catalogue Configuration

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<td>0</td>
<td>Preliminary steps:</td>
<td>Configuring the Diagnostic Lab &amp; Orders module is a highly technical task that must involve Medical Senior Staff and the CMIS Steering supervision, with the support of IT staff. Once the configuration is completed, lab staff, nurses or other clinicians can easily use this module.</td>
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</table>
| 1 | Laboratory Test Structure | • **Group Level:** Can be a location or a particular classification of Lab Tests  
• **Procedure Order Level:** Specific test order (eg. Cervical cytology, HIV test..)  
• **Discrete Results Level:** Possible results from test. This level can in turn include groups such as: Diagnosis, Other Findings, Recommendations, etc. |  |
| 2 | Configuration | **Best Practice:** As in other procedures, it is a good practice to have a 3-level Excel table with all Groups, Order types, Results, etc., before using this OpenEMR function. |  |
| 3 | Example: Configuring a Gyn Lab Service | Procedure type: **Group**  
Name: **Group Label (Gyn Lab Services)**  
Description: Short explanation  
Sequence: Numeric value to organize the ordering in the main lab screen (0 in this case to locate group at the top of group) |  |
| 4 | Example: Configuring the 1st Top (Group) Level | Procedure code: **MA code to identify the specific test**  
Standard code: Standard IPPF service statistics code is suggested (mapping similar to services)  
Body site: Where sample will be taken from  
Specimen type: Depending on test type  
Administrator via: More related to Immunization  
Laterality: Indicates side of body where the procedure will be done, i.e. X ray. |  |
| 5 | Example: Configuring the 2nd Order Level | Procedure type: **Group**  
Name: **Subgroup name (eg Diagnosis)**  
Description: Short description of group  
Sequence: Numeric value to organize the ordering in the main lab screen (1 in this case to locate group in the first place of group) |  |
| 6 | Example: Configuring the 3rd Results Level | Procedure type: **Group** (in the example, we are creating subgroups below the Order level)  
Name: **Subgroup name (eg Diagnosis)**  
Description: Brief description if relevant  
Sequence: Numeric value to organize the ordering in the main lab screen  
Default units: Data type (predefined in lists)  
Default range: Expected range (if any) for a normal result to compare with real results  
Followup services: for those abnormal or results, a follow up service code can be added |  |

Note: The following Diagnostic Lab & Orders function are available from OpenEMR version 3.1.1.7 onward. Please check with your system admin about system version.

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**Diagram:**

- **Diagnostic Labs & Orders Configuration**
- **Patient Results**
- **Batch Results**

**Menu Options or Screen Information:**

- **Procedure Type:**
  - **Group**
  - **Procedure Order**
  - **Discrete Result**
  - **Recommendation**

Note: In this example, the Cervical Cytology procedure has been subdivided in 4 groups to illustrate tool flexibility:

- Diagnosis
- Other Findings
- Smear sample
- Recommendations

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| 0 | Preliminary steps: | **Before configuring the Diagnostic Lab & Orders module, you need to:**  
1. Define Lab service location(s) either within the clinic or external, with the Miscellaneous > Address Book  
2. Check and adjust default settings related to Lab tests (Procedures) in Administration-Lists |  |
| 1 | Laboratory Test Structure | **This module has been designed to use a 3-level structure of Procedure Types:**  
1st (Top) Level: **Group level**  
2nd Level: **Procedure Order level**  
3rd Level: **Discrete Results level** |  |
| 2 | Configuration | **Best Practice:** As in other procedures, it is a good practice to have a 3-level Excel table with all Groups, Order types, Results, etc., before using this OpenEMR function |  |
| 3 | Example: Configuring a Gyn Lab Service | **We will now configure the three levels of Cervical Cytology, including the following elements:**  
1st (Top) Level: Gynecology Lab Services  
2nd Level: Procedure Order Cervical Cytology  
3rd Level: Discrete Results level (in 4 groups)  
Discrete results details |  |
| 4 | Example: Configuring the 1st Top (Group) Level | **The first step to create a group of tests is to set the Top Level, by selecting the button at the Configuration page:**  
Add Top Level |  |
| 5 | Example: Configuring the 2nd Order Level | **The Lab service is configured as follows:**  
**Procedure type:** Procedure Order  
**Name:** Test to be ordered (eg. Cervical Cytology)  
**Description:** Short description of test  
**Sequence:** Numeric value to organize the ordering in the main lab screen (0 in this case to locate group at the top of Order Level group)  
**Order from:** Location where test will be performed |  |
| 6 | Example: Configuring the 3rd Results Level | **OpenEMR allows the creation of a flexible structure adapted to clinic needs. In this example we subdivide de Lab Test into Diagnosis results (shown here), Other related findings, Smear sample findings and Recommendations.** |  |
| 7 | Example: Configuring the Discrete result details | **Each detailed result will be configured as Discrete Result. In the example we show the first one:**  
**Diagnosis:**  
1. Abnormal Cells consistent with invasive adenocarcinoma  
2. Abnormal Cells consistent with mild dysplasia  
3. Abnormal Cells consistent with moderate dysplasia (GIN I)  
4. Abnormal Cells consistent with severe dysplasia (GIN II)  
5. Abnormal Cells consistent with adenocarcinoma |  |