

# Customizing Reports in Noxturnal 4 – Exercise

## Customer Support Document

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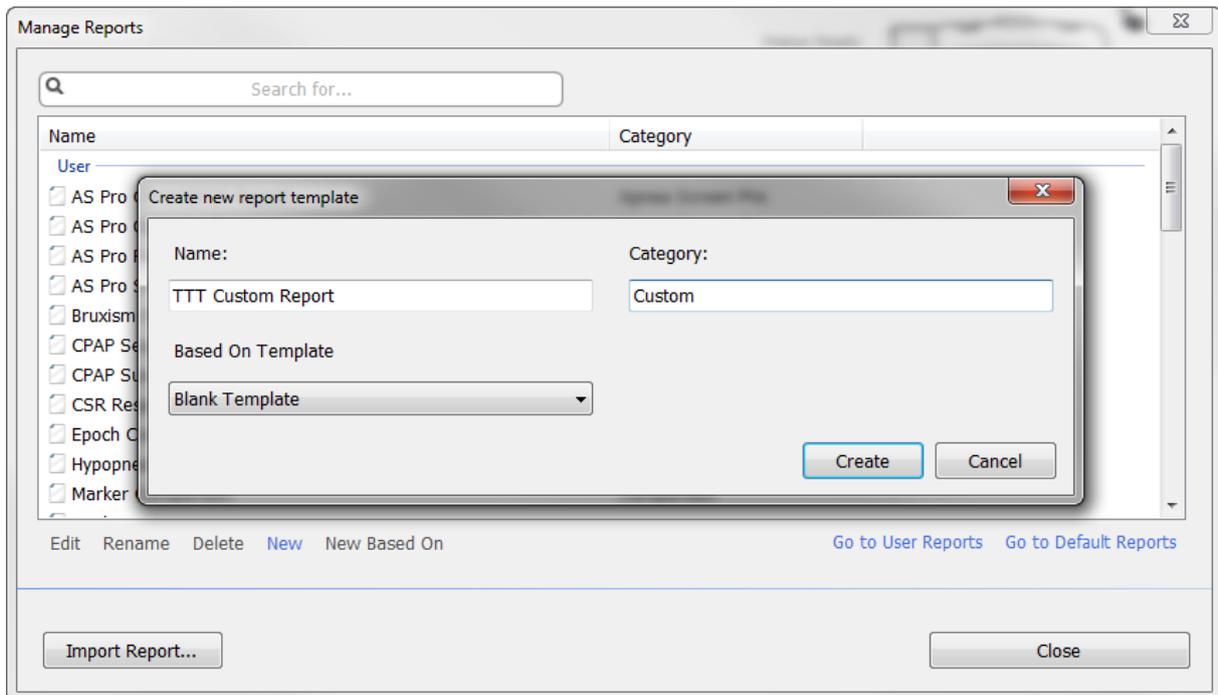


## Overview

This short exercise is aimed to make you more familiar with the setup of a new custom report template which should include some existing but also some new generated variables. The focus is rather on practicing than on completing a full new custom report.

## Step by step practice

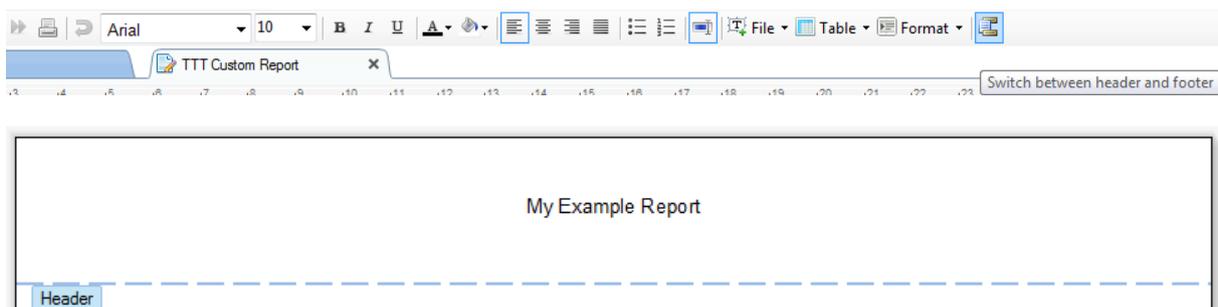
1. Create a new report template “TTT Custom Report”



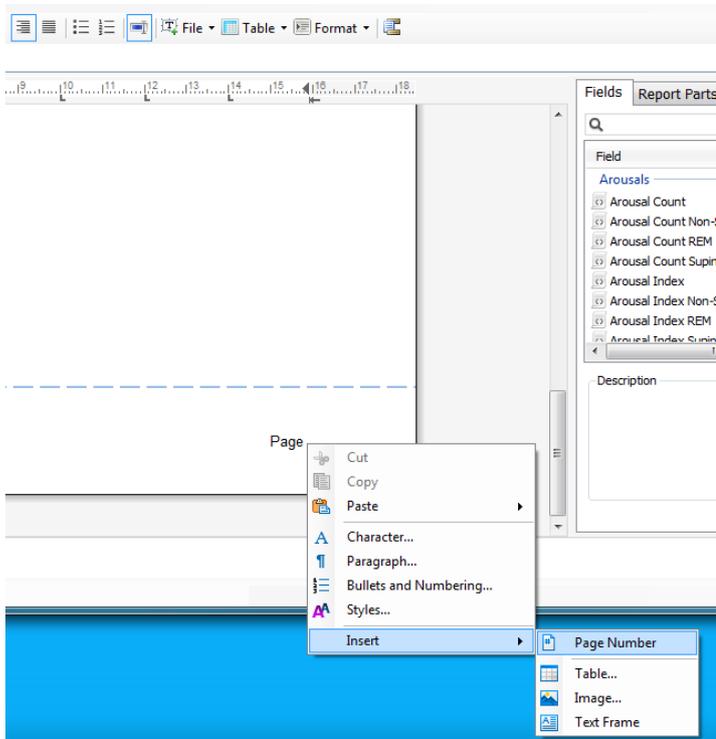
2. Introduce the headline “PSG Report” in bold letters / centered into the report text area.



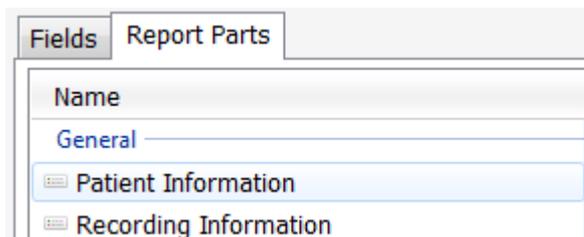
3. Introduce a Report Header: “My Example Report” and center the headline



4. Insert Page number preceded by "Page" to the right of the footer (when within the footer use the right mouse click to open the shown menu)



5. Insert the default Report sections "Patient Information" and "Recording Information" (take these sections from the list of "Report Parts" and drag it into the report area)



### Patient Information

Full Name:	-	Date of Birth:	-
Patient ID:	-	Height:	-
Address:	-	Weight:	-
ZIP/Postal Code:	-	BMI:	-
City:	-	Age:	-
Phone/Mobile:	-		

### Recording Information

Recording Date:	-	Analysis Start Time:	-
Analysis Duration:	- h	Analysis Stop Time:	-
Study Details:			

6. Create new report section

- a. Header “Snore Event Summary”
- b. Create and fill a table with adequate existing variables (all these variables are available in the list of fields)

	All positions	Supine	Non-Supine
Index Single snores			
Index Snore Trains			
Percentage Snore trains			

The screenshot shows a software interface with three main sections: Patient Information, Recording Information, and Snore Event Summary. The Snore Event Summary section contains a table with columns for All Positions, Supine, and Non-Supine, and rows for Index Single Snores, Index Snore Trains, and Percentage Snore Trains. To the right, a 'Fields' list contains numerous variables such as 'Snore Count N1', 'Snore Index N1', 'Snore Index Non-Supine N1', etc.

Note: There is always a description to the variables. This can help to distinct between variables with a quite similar name.

- c. Save this Report part for the future as a section: “Exercise Snore” in a category “CUSTOM training” (Select and then drag and drop the selected area into the window of “Report Parts”)

The screenshot shows the same software interface as before, but with a 'Report Part Name' dialog box open. The dialog box has a 'Name' field containing 'Exercise Snore' and a 'Category' dropdown menu set to 'CUSTOM training'. There are 'OK' and 'Cancel' buttons at the bottom of the dialog box.

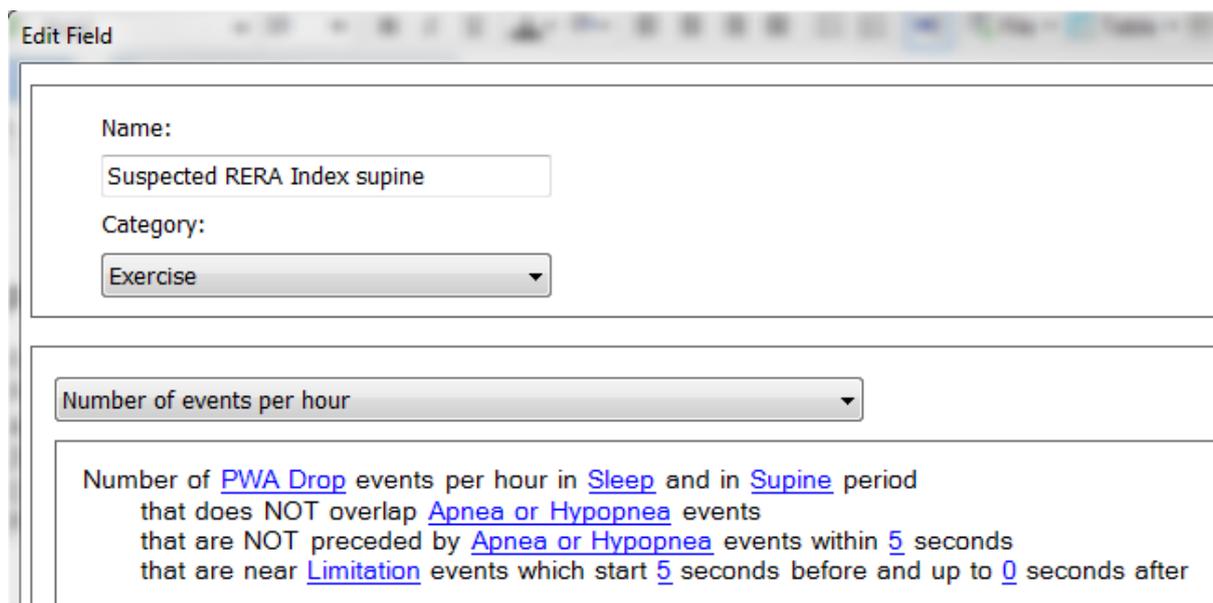
7. Create a new section with the headline “Respiration and susp. respiratory related Arousals”

Note: Respiratory Related Arousals cannot be scored without EEG information. However based on events of “Autonomic Activity” analyzed as PWA drops (Pulse Wave Amplitude drops) a suggested Respiratory Related Arousal might be derived and reported.

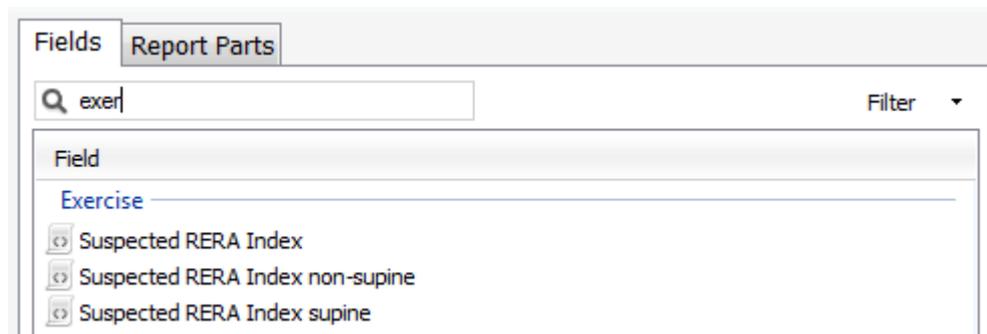
- a. Create the variable for a “Suspected RERA index” in the different body positions → put it into a new field category “Exercise”
  - i. Event: PWA drop in conjunction with flow limitation but not during or following in short time to Apnea/Hypopneas → first do the index variable independent of the body position and save it
  - ii. → Help:
 

Description \_\_\_\_\_

Number of Pulse Wave events per hour in Sleep that does NOT overlap Apnea, Hypopnea events that are NOT preceded by Apnea, Hypopnea events within 5 seconds that are near Limitation events which start 5 seconds before and up to 0 seconds after
  - iii. Use the “New Based On” and add a condition for the body position → create the index for supine and non-supine and save these to the same “Exercise” category



→



b. Create and fill this table with the new existing variables

	All positions	Supine	Non-Supine
AHI			
Index susp. RERA-Index			

c. Save this Report part for the future as a section: "Exercise Respiratory" in the category "CUSTOM training"

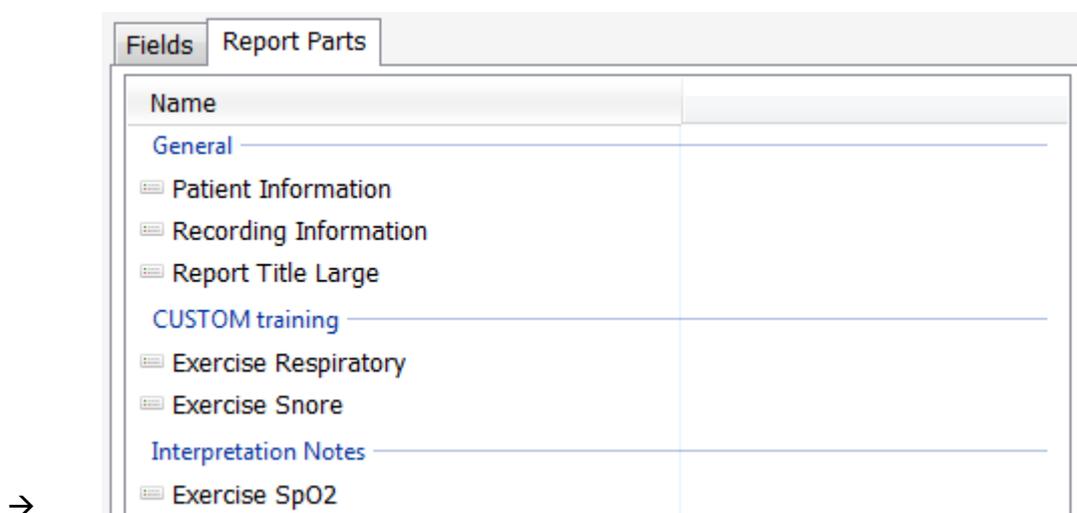
8. Create a summary for signal duration for SpO2 with thresholds and depending on body positions with the headline "SpO2 Summary", this will be used not in the report as a standard but should be available as part of the "Interpretation Notes"

- a. Search "Duration for SpO2 <= 88 in supine" and create based on this the same for SpO2 <= 87
- b. Search "Duration for SpO2 <= 88 in non-supine" and create based on this the same for SpO2 <= 87
- c. Search "Percentage for SpO2 <= 88 in supine" and create based on this the same for SpO2 <= 87
- d. Search "Percentage for SpO2 <= 88 in non-supine" and create based on this the same for SpO2 <= 87
- e. Create and fill this table with existing variables

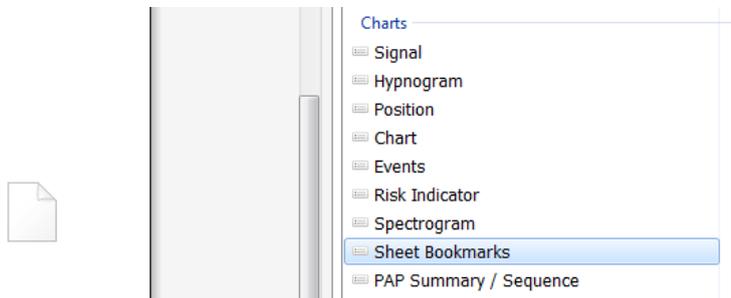
SpO2 value		Supine	Non-Supine
<= 88	Duration		
<= 88	Percentage of time		
<= 87	Duration		
<= 87	Percentage		

f. Save this Report part for the future as a section: "Exercise SpO2" in the category "Interpretation Notes"

g. Delete the section from your report template

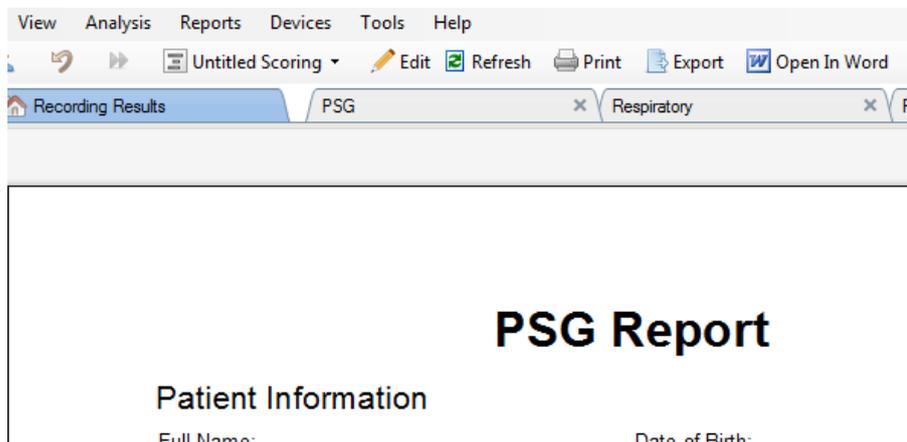


9. Insert a “Page break” and add the bookmarks:
  - a. Add the page break via menu “Format” → “Insert Break”
  - b. Add the “Sheet Bookmarks” from the “Report Parts” (see category “Charts”)



10. Save this report → run and test the report on one of your existing recordings .

11. After report generation please use the “Edit” mode



... and add from the “Interpretation Notes” by drag and drop your section “Exercise SpO2”. The values will get filled automatically. Leaving the “Edit” mode will allow you to print or export that report.

12. In the event that you change bookmarks / (analysis) periods / events you have to use the “Refresh” option to get these modifications taking effect to your report!