Customizing Reports in Noxturnal 4 – Exercise

Customer Support Document

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Nox A1[™], Nox T3[™] and Noxturnal[™] are manufactured by:

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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"

| | Category |
|--------------|------------------------------------------|
| mplate | |
| | Category: |
| port | Custom |
| late | |
| | |
| | Create Cancel |
| New Based On | Go to User Reports Go to Default Reports |
| | mplate port late New Based On |

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

PSG Report

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

| Þ | | 🔹 🗐 🗐 🗮 🗐 🖾 File 🕶 🥅 Table 🕶 🖾 Format 🔹 📳 | | | |
|----|-------------------|-------------------------------------------------------------------------|--|--|--|
| ,2 | | 13 .14 .15 .18 .17 .18 .19 .20 .21 .22 Switch between header and footer | | | |
| | My Example Report | | | | |

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)

| elds Report Parts | | | |
|-------------------------|----------|----------------------|---|
| Name | | | |
| General | | | |
| Patient Information | | | |
| Recording Informati | on | | |
| - Recording Informati | UT . | | |
| | | | |
| Patient Inform | ation | | |
| Eull Nemer | | Data of Bith | |
| Patient ID: | - | Hoight: | - |
| Addrose: | - | Woight: | - |
| ZID/Dectal Code: | - | BMI: | - |
| City: | - | | - |
| City. Dhone (Mehile: | - | Age. | - |
| Phone/Mobile. | - | | |
| | | | |
| | | | |
| Recording into | ormation | | |
| Recording Date: | - | Analysis Start Time: | - |
| Analysis Duration: | - 1 | 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 | | | |

| | | | | 1 | | of anne | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------|---------------------|----|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| | | | | | | Field | |
| | | | | | | D Shore Count N3 | |
| Patient Information | 1 | | | | | S Snore Count REM | |
| | | | | | | Snore Index | |
| Full Name: - | | Date of Birth: | • | | | Shore Index N1 | |
| Patient ID: - | | Height: | - | | | Shore Index N2 | |
| Address: - | | Weight: | - | | | Shore Index N3 | |
| ZIP/Postal Code: - | | BMI: | • | | | Snore Index Non-REM | |
| City: - | | Age: | - | | | Shore Index Non-Supine | |
| | | | | | | | |
| Phone/Mobile: - | | | | | | Snore Index Non-Supine N1 | |
| Phone/Mobile: - | | | | | | Snore Index Non-Supine N1 | |
| Phone/Mobile: - | | | | | | Shore Index Non-Supine N1 Shore Index Non-Supine N2 Shore Index Non-Supine N3 | |
| Phone/Mobile: - | tion | | | | | Snore Index Non-Supine N1 Snore Index Non-Supine N2 Snore Index Non-Supine N3 Snore Index Non-Supine N3 Snore Index Non-Supine Non-REM | |
| Phone/Mobile: - | tion | | | | E | Snore Index Non-Supine N1 Snore Index Non-Supine N2 Snore Index Non-Supine N3 Snore Index Non-Supine Non-REM Snore Index Non-Supine ReM | |
| Phone/Mobile: - Recording Informa Recording Date: | tion - | Analysis Start Time: | | | E | Snore Index Non-Supine N1 Snore Index Non-Supine N2 Snore Index Non-Supine N3 Snore Index Non-Supine N3 Snore Index Non-Supine REM Snore Index ReM | |
| Phone/Mobile: - Recording Informa Recording Date: Analysis Duration: | tion - | Analysis Start Time: Analysis Stop Time: | | | Е | Snore Index Non-Supine N1 Snore Index Non-Supine N2 Snore Index Non-Supine N3 Snore Index Non-Supine N4 Snore Index Non-Supine REM Snore Index Supine REM Snore Index Supine | |
| Phone/Mobile: - Recording Inform a Recording Date: Analysis Duration: Study Details: | tion -h | Analysis Start Time: Analysis Stop Time: | - | | E | Snore Index Non-Supine N1 Snore Index Non-Supine N2 Snore Index Non-Supine N3 Snore Index Non-Supine Non-REM Snore Index RAM Snore Index RAM Snore Index Supine Snore Index Supine | |
| Phone/Mobile: - Recording Informa Recording Date: Analysis Duration: Study Details: | tion -h | Analysis Start Time: Analysis Stop Time: | • • • | | E | Sonce Index Non-Supere N1 Sonce Index Non-Supere N2 Sonce Index Non-Supere N2 Sonce Index Non-Supere Non-REM Sonce Index Non-Supere Non-REM Sonce Index Supere Non-REM Sonce Index Supere N1 Sonce Index Supere N1 | |
| Phone/Mobile: - Recording Informa Recording Date: Analysis Duration: Study Details: | tion -h | Analysis Start Time: Analysis Stop Time: | | | E | Snore Index Non-Supine N1 Snore Index Non-Supine N2 Snore Index Non-Supine N3 Snore Index Non-Supine Non-REM Snore Index Non-Supine Non-REM Snore Index Non-Supine Non-REM Snore Index Supine Snore Index Supine N1 Snore Index Supine N1 Snore Index Supine N1 Snore Index Supine N2 | |
| Phone/Mobile: - Recording Informa Recording Date: Analysis Duration: Study Details: | tion -h | Analysis Start Time: Analysis Stop Time: | • | | E | Since Index Non-Super N1 Since Index Non-Super N2 Since Index Non-Super N2 Since Index Non-Super Nan-REM Since Index Non-Super Nan-REM Since Index Super Nan- Since Index Super N1 Since Index Super N3 Since Index Super N3 | |
| Phone/Mobile: - Recording Informa Recording Date: Analysis Duration: Study Details: | tion -h | Analysis Start Time: Analysis Stop Time: | * * | | E | Snore Index Non-Supine N1 Snore Index Non-Supine N2 Snore Index Non-Supine N3 Snore Index Non-Supine Nan-REM Snore Index Non-Supine Nan-REM Snore Index Supine N3 Snore Index Supine N1 Snore Index Supine N1 Snore Index Supine N2 Snore Index Supine N3 | |
| Phone/Mobile: - Recording Informa Recording Date: Analysis Duration: Study Details: Snore Event Sumr | tion -h nary | Analysis Start Time: Analysis Stop Time: | • | | E | Sonce Index Non-Supere N1 Sonce Index Non-Supere N2 Sonce Index Non-Supere N2 Sonce Index Non-Supere N3 Sonce Index Non-Supere N3 Sonce Index Supere N1 Sonce Index Supere N1 Sonce Index Supere N1 Sonce Index Supere N3 Sonce Index Supere N4 Soncex Index Supere N4 Sonce Index Supere N4 Sonce Index Supere | |
| Phone/Mobile: - Recording Inform a Recording Date: Analysis Duration: Study Details: Snore Event Summ | tion | Analysis Start Time: Analysis Stop Time: | - | | F | Snore Index Non-Supine N1 Snore Index Non-Supine N2 Snore Index Non-Supine N3 Snore Index Non-Supine N4 Snore Index Non-Supine N4 Snore Index Non-Supine N1 Snore Index Supine N1 Snore Index Supine N1 Snore Index Supine N1 Snore Index Supine N2 Snore Index Supine N3 Snore Index Supine N4 Snore Index Supine N5 | |
| Phone/Mobile: Recording Informa Recording Date: Analysis Duration: Study Details: Snore Event Sumr | tion - h nary All Posti | Analysis Start Time: Analysis Stop Time: ons Supine | - - Non-Supin | le | F | Shore Index Non-Supine N1 Shore Index Non-Supine N2 Shore Index Non-Supine N3 Shore Index Non-Supine N3 Shore Index Non-Supine N3 Shore Index RM Shore Index RM Shore Index Supine N1 Shore Index Supine N1 Shore Index Supine N3 Shore Index Supine N4 Shore Index Sup | |
| Phone/Mobile: - Recording Inform a Recording Date: Analysis Duration: Study Details: Snore Event Sumr Index Single Snores | tion - h nary All Post | Analysis Start Time: Analysis Stop Time: ons Supine | - - Non-Supin | 1e | F | Snore Index Non-Supine N1 Snore Index Non-Supine N2 Snore Index Non-Supine N2 Snore Index Non-Supine Nan-REM Snore Index Non-Supine Nan-REM Snore Index Supine N1 Snore Index Supine N1 Snore Index Supine N1 Snore Index Supine N2 Snore Index Supine N2 Snore Index Supine N2 Snore Index Supine N4 Snore Precentage of Might Snore Precentage of Might Non-Supine Snore Precentage of Might Non-Supine | |
| Phone/Mobile: - Recording Informa Recording Date: Analysis Duration: Study Details: Snore Event Sumr Index Single Snores Index Snore Trains | tion - h nary All Posti | Analysis Start Time: Analysis Stop Time: ons Supine | - - Non-Supin | 10 | E | Shore Index Non-Supine N1 Shore Index Non-Supine N2 Shore Index Non-Supine N3 Shore Index Non-Supine N3 Shore Index Non-Supine Nan-REM Shore Index Supine Nan-REM Shore Index Supine N1 Shore Index Supine N1 Shore Index Supine N3 Shore Index Supine RM Shore Precentage of Might Non-Supine Shore Train Duration | |
| Phone/Mobile: - Recording Inform a Recording Date: Analysis Duration: Study Details: Snore Event Summ Index Single Snores Index Snore Trains Percentage Snore Trains | tion - h nary All Posti | Analysis Start Time: Analysis Stop Time: ons Supine | - - Non-Supin | 10 | E | Sone Index Non-Supne N1 Sone Index Non-Supne N2 Sone Index Non-Supne N2 Sone Index Non-Supne Non-REM Sone Index Non-Supne Non-REM Soner Index Supne Soner Index Supne N1 Soner Index Supne N2 Soner Index Supne N2 Soner Index Supne N2 Soner Index Supne N3 Soner Index Supne N4 Soner Index Supne N5 Soner Index Supne N5 Soner Trent Supne Supn | |
| Phone/Mobile: - Recording Informa Recording Date: Analysis Duration: Study Details: Snore Event Sumr Index Single Snores Index Snore Trains Percentage Snore Trains | tion - h nary All Posti | Analysis Start Time: Analysis Stop Time: ons Supine | - - Non-Supin | 10 | E | Snore Index Non-Supine N1 Snore Index Non-Supine N2 Snore Index Non-Supine N3 Snore Index Non-Supine N3 Snore Index Non-Supine Non-REM Snore Index Supine N1 Snore Index Supine N1 Snore Index Supine N2 Snore Index Supine N3 Snore Train Duration Nacione Snore Train Duration Nacione Snore Train Duration Nacione | |

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")

| | ter din ter finster die ter die ter | l ^o | | a | F | Fields Report Parts |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------|----------------------|---|------------------|---------------------------------------------------------------------------------------------------------------|
| Patient Inform | ation | Date of Birth: Height: | - | | | Name General Patient Information Recording Information Report Title Large Interpretation Notes |
| Address: | - | Weight: | - | | | |
| ZIP/Postal Code: | - | BMI: | - | | Report Part Name | × |
| City: | - | Age: | - | | Name | |
| Phone/Mobile: | - | | | | Thurne I | |
| | | | | | | |
| | | | | | | |
| Recording Date: | - | Analysis Start Time: | - | | | |
| Recording Date: Analysis Duration: | - - h | Analysis Start Time: Analysis Stop Time: | - | | | |
| Recording Date: Analysis Duration: Study Details: | - - h | Analysis Start Time: Analysis Stop Time: | • | | | OK Cancel |
| Recording Date: Analysis Duration: Study Details: Snore Event S Index Single Snores Index Snore Trains | Summary | Analysis Start Time: Analysis Stop Time: | - - Non-Supine | | | OK Cancel |

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 \rightarrow put it into a new field category "Exercise"
 - 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. \rightarrow Help:

| Description |
|-----------------------------------------------------------------------------------------------|
| Number of Pulse Wave events per hour in Sleep that does NOT overlap Apnea, Hypopnea events |
| 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

| Edit Field | | a na Stateman |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Name: | | |
| Suspect | ted RERA Index supine | |
| Categor | y: | |
| Exercise | e 🗸 | |
| | | |
| Number of e | events per hour | • |
| that that that | does NOT overlap <u>Apnea or Hypopnea</u> event are NOT preceded by <u>Apnea or Hypopnea</u> ev are near <u>Limitation</u> events which start <u>5</u> secor | ts vents within <u>5</u> seconds nds before and up to <u>0</u> seconds after |
| | Fields Report Parts | |
| | Q exer | Filter 🝷 |
| | Field | |
| | Exercise | |
| | Suspected RERA Index non-supine | |
| \rightarrow | Suspected RERA Index supine | |

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</p>
 - 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

| Fields Report Parts | |
|------------------------|--|
| Name | |
| General | |
| Patient Information | |
| Recording Information | |
| 📟 Report Title Large | |
| CUSTOM training | |
| 📼 Exercise Respiratory | |
| Exercise Snore | |
| Interpretation Notes | |
| Exercise SpO2 | |

 \rightarrow

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

| | Charts |
|--|------------------------|
| | 📼 Signal |
| | 📟 Hypnogram |
| | Position |
| | 📼 Chart |
| | Events |
| | 📟 Risk Indicator |
| | 📼 Spectrogram |
| | Sheet Bookmarks |
| | PAP Summary / Sequence |

- 10. Save this report \rightarrow 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!