



Scoring Calculator User Manual

Version 8.0

2024-12-03

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1. Scoring Calculator



For information about the Product environment, precautions, warnings and intended use see USR ENG Digistat Care and/or USR ENG Digistat Docs (depending on the modules installed - for the Digistat Suite EU) or USR ENG Digistat Suite NA (for Digistat Suite NA). The knowledge and understanding of the appropriate document are mandatory for a correct and safe use of Scoring Calculator, described in this document.

1.1. Introduction

The Scoring Calculator module makes it possible to collect and classify clinical information according to the “Standard Severity Scores”.

Scoring Calculator performs all the necessary scoring calculations, importing data both from the Product Database and from most Network-Accessible and shared remote databases.

Scores and parameters are clearly displayed on charts and grids. Detailed information about the various Severity Scores is available.

This system, after patient selection, makes it possible to:

- navigate the available score algorithms and display, for each of them, the score calculations performed for a patient (either by score or by parameters values);
- display, via html, a description of the selected score algorithms;
- display in a chart a visual representation of the various scores values;
- configure a subset of parameters for each score parameter (chart, query, limits etc...);
- calculate a new score.

1.2. Module selection

To select the Scoring Calculator module,

- Click the corresponding icon on the lateral bar (Fig 1).



Fig 1

The screen displayed in Fig 3 appears. If no patient is selected the buttons on the Control Bar are disabled and no data is displayed on screen.

1.3. Patient search and selection

To select a patient,

- Click the **Patient** button on the Control Bar (Fig 2 **A**).



Fig 2

The Patient Explorer module opens. See the patient explorer user manual (*USR ENG Patient Explorer*) for instructions.



Other modules can be configured for the patient selection in place of Patient Explorer, depending on the configuration of the Digistat Suite. If this is the case, see the specific documentation for instructions.

When a patient is selected the patient data (if any) is displayed.

1.4. Screen structure

The screen shown in Fig 3 makes it possible to display in charts and grids the various data. The screen is formed of three main areas:

- 1) the list of available “Scores” (Fig 3 **A**);
- 2) the data area (this area displays charts, grids and scores instructions Fig 3 **B**);
- 3) the command bar (Fig 3 **C**).

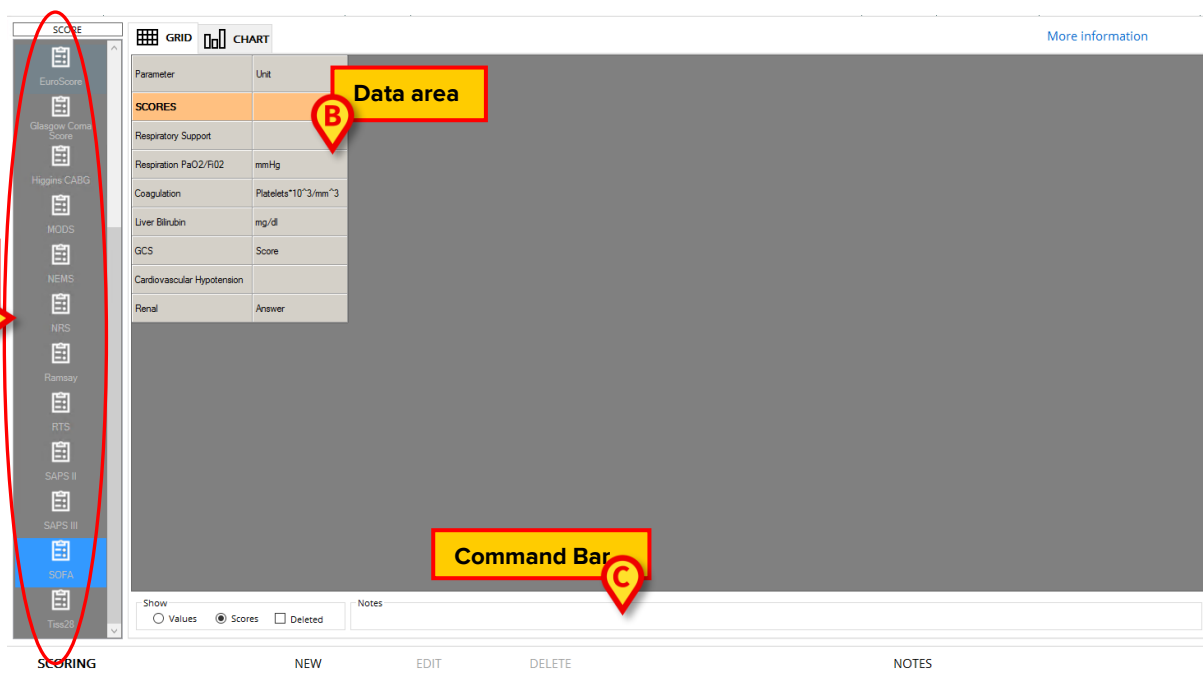


Fig 3 - Scoring grid - Patient selected

1.5. The list of available scores

The vertical area on the left (Fig 3 **A**, Fig 4) displays the list of some of all the available example of scores. Only the scores explicitly enabled by configuration are displayed.



Scores must be validated before going into production and the evidence of this validation is in the acceptance testing checklist. Please refer to your system administrators for information on the configured scores in your healthcare structure.

These are some of the examples of scores currently available:

- Aldrete
- APACHE II - Acute Physiologic and Chronic Health Evaluation
- APS - Acute Physiologic Score
- Braden – For Predicting Pressure Sore Risk
- Bromage – Motor Blockade Score
- MODS – Multiple Organ Dysfunction Score
- NRS – Numerical Rating Scale
- Ramsay – Sedation Scale
- SAPS II - Simplified Acute Physiology Score
- SAPS III
- TISS 28 - Therapeutic Intervention Score System
- GCS - Glasgow Coma Score
- NEMS - Nine equivalent of nursing manpower
- RTS - Revised Trauma Score
- MPM Admission - Mortality Probability Model
- MPM 24h Model - Mortality Probability Model every 24 hours of ICU stay
- SOFA - Sepsis-Related Organ Failure Assessment
- Euroscore - European System for Cardiac Operative Risk Evaluation
- HIGGINS CABG - ICU admission risk based on preoperative conditions and intraoperative events.

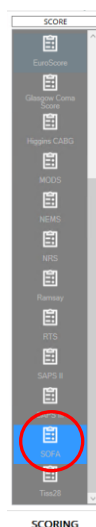


Fig 4 - Selectable scores

An icon and a name indicate each available score (for example “Apache II”, “Saps II” etc.).



The icon corresponding to the score currently in use is highlighted -
To select a score,

- Click the corresponding icon.

The central part of the screen (“Data area” - Fig 3 **B**) displays the available data for the selected score and patient.

1.6. Data area

The “data area” is the central part of each screen. In this area either charts, grids or score information are displayed. (Fig 5, Fig 3 **B**).

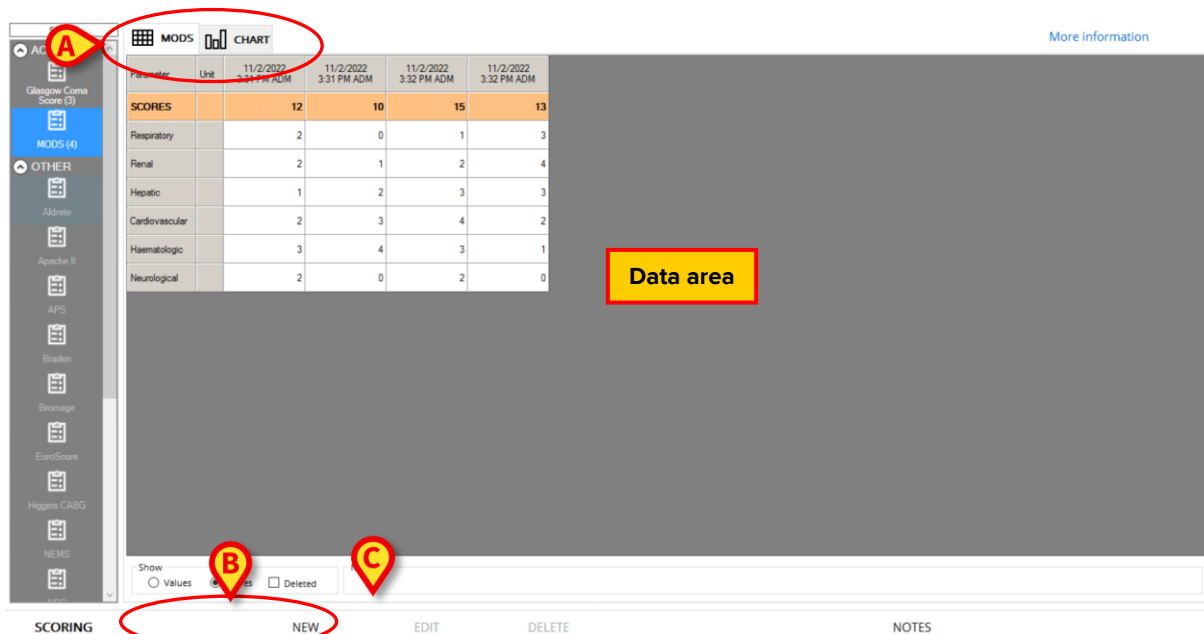


Fig 5 - Data area

This area always displays the data referring to the score selected on the bar on the left (Fig 4).

Two tabs are provided on the top left corner of the data area (Fig 5 **A**).

- The Score tab displays the grid containing the score values as shown in Fig 5.

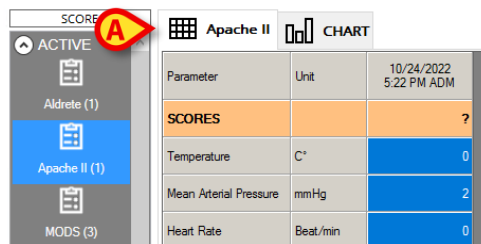


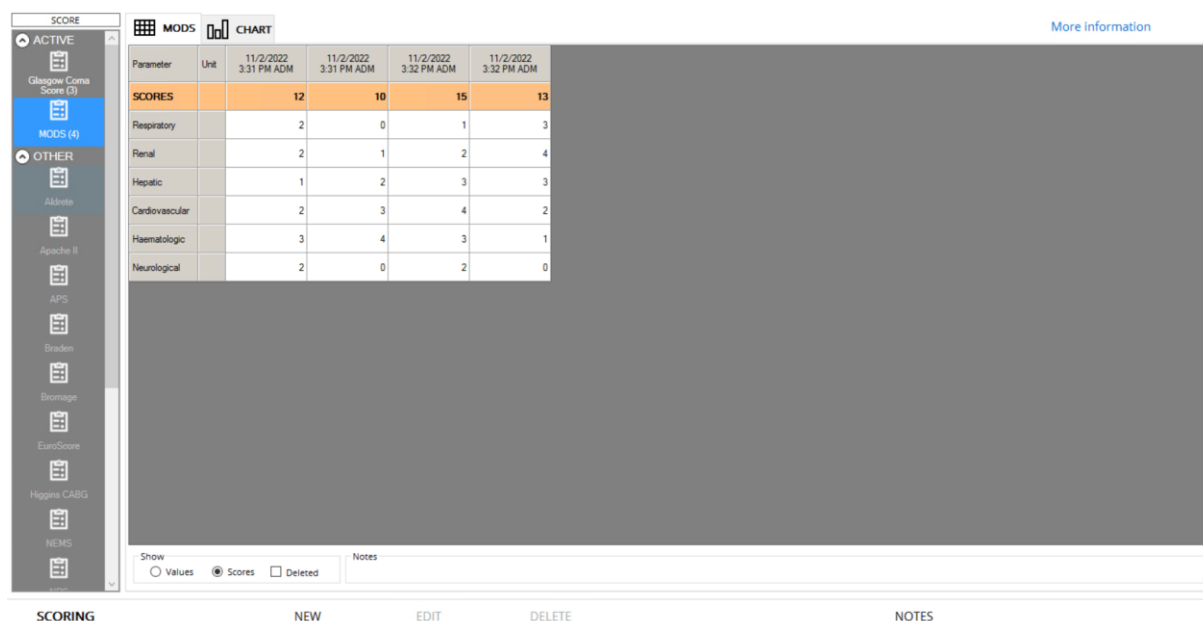
Fig 6

- The “Chart” tab displays the trends of the acquired score parameters values in a chart.

The area indicated in Fig 5 **C** displays the possible notes associated to a single score calculation. The note is displayed only if the column relating to the specific calculation is selected. See paragraph 1.8.

1.7. Score Tab

Selecting the grid tab, a grid is shown in the data area arranging and displaying the different scores (in the first highlighted row) and the values associated to the parameters that contribute to the score calculation.



Parameter	Unit	11/2/2022 3:31 PM ADM	11/2/2022 3:31 PM ADM	11/2/2022 3:32 PM ADM	11/2/2022 3:32 PM ADM
SCORES		12	10	15	13
Respiratory		2	0	1	3
Renal		2	1	2	4
Hepatic		1	2	3	3
Cardiovascular		2	3	4	2
Haematologic		3	4	3	1
Neurological		2	0	2	0

Fig 7 - Scores grid - “MODS”

The first column displays the names of all the parameters (Fig 8).



Parameter
SCORES
Respiratory
Renal
Hepatic
Cardiovascular
Haematologic
Neurological

Fig 8 - Parameters

The second column indicates the unit of measure of the values displayed on the grid (Fig 9).

Unit
C°
mmHg
Beat/min
Breaths/min
%
mmHg
Coefficient
Ph
μMol/L
μMol/L
mg/100ml
%
Total/mm ³
Score
Years

Fig 9 - Unit of measure

The other columns refer to a score calculation. Each cell displays the score calculated for the corresponding parameter (Fig 10).

10/24/2022 5:18 PM ADM	
	11
	4
	3
	1
	1
	2
	0

Fig 10 - Scores

The first cell of each column indicates the date, the time and the acronym of the user who recorded the information (Fig 10 **A**). The second cell indicates the score total value (Fig 10 **B**). For some parameters it is possible to display the parameter value instead of the corresponding score.

To do that

- Select the “Values” option on the bottom left corner (Fig 11, Fig 5 **B**).

Show
☒ Values
☐ Scores
☐ Deleted

Fig 11 - Display values

The values are this way displayed in the grid (Fig 12).

Parameter	Unit	10/24/2022 5:02 PM ADM	10/24/2022 5:18 PM ADM	10/24/2022 5:19 PM ADM
SCORES		19	11	10
Respiratory		11	55	1
Renal		35	33	2
Hepatic		112	44	3
Cardiovascular		30	11	4
Haematologic		23	77	55
Neurological		1	22	6

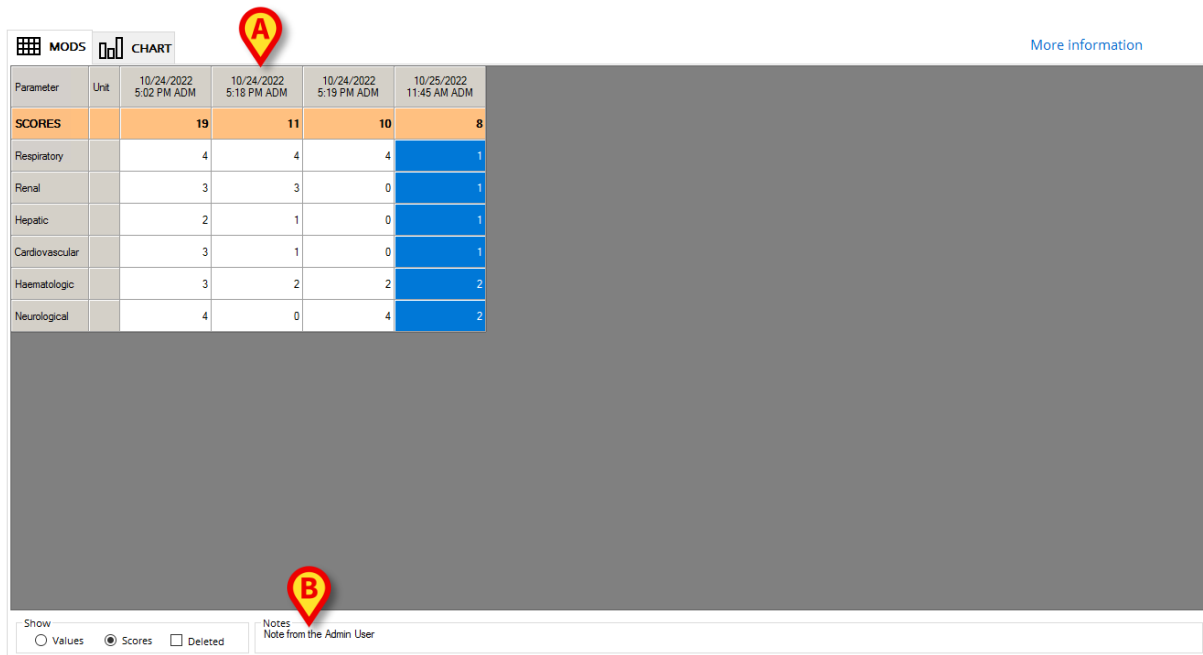
Fig 12 – Values

1.7.1. Notes

The “Notes” area, indicated in Fig 5 **C** and Fig 13 **B**, displays the possible notes associated to a single score calculation. The note is displayed only when the column corresponding to the specific score calculation is selected. To select a column,

- Click the column.

The column is highlighted (Fig 13 **A**). If there is a note associated to that score calculation, the note is displayed in the “Notes” area (Fig 13 **B**).



The screenshot shows the USR ENG Scoring Calculator interface. At the top, there are tabs for 'MODS' and 'CHART'. A red location pin icon with the letter 'A' is positioned above the table. The table has columns for 'Parameter', 'Unit', and four dates: '10/24/2022 5:02 PM ADM', '10/24/2022 5:18 PM ADM', '10/24/2022 5:19 PM ADM', and '10/25/2022 11:45 AM ADM'. The 'SCORES' row is highlighted in orange. Below the table, there is a 'Notes' section with a red location pin icon with the letter 'B'. The 'Notes' section contains a text area for 'Note from the Admin User'. At the bottom, there is a 'Show' section with radio buttons for 'Values', 'Scores' (selected), and 'Deleted'.

Parameter	Unit	10/24/2022 5:02 PM ADM	10/24/2022 5:18 PM ADM	10/24/2022 5:19 PM ADM	10/25/2022 11:45 AM ADM
SCORES		19	11	10	8
Respiratory		4	4	4	1
Renal		3	3	0	1
Hepatic		2	1	0	1
Cardiovascular		3	1	0	1
Haematologic		3	2	2	2
Neurological		4	0	4	2

More information

Show
☐ Values
☒ Scores
☐ Deleted

Notes
 Note from the Admin User

Fig 13

1.8. How to calculate a new score

To calculate a new score and to insert the corresponding values in the grid:

- Select, on the list on the left, the Standard Severity Score to be used (Fig 4).

- Click the **New** button on the command bar (Fig 14).

SCORING	NEW	EDIT	DELETE	NOTES
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Fig 14 - Command bar

A window opens, making it possible to specify the values of all the parameters that are relevant for the selected score.

Parameter	Imp	Value	Scores	0	1	2	3	4
Respiratory				>300	<=300 >225	<=225 >150	<=150 >75	<=75
Renal				<12	<23 >=12	<4 >=23	<57 >=4	>=57
Hepatic				<=20	<=60 >20	<=120 >60	<=240 >120	>240
Cardiovascular				<=10	<=15 >10	<=20 >15	<=30 >20	>30
Haematologic				>120	<=120 >80	<=80 >50	<=50 >20	>=20
Neurological				>=15	<=14 >=13	<=12 >=10	<=9 >=7	<=6

Fig 15 - Data entry window



Each score has its own parameters and points attribution criteria. Therefore the data entry window changes according to the selected scoring system. This paragraph describes, as example, the window relating to the “MODS” system. The data entry procedures remain the same for all the available scores.

- Insert the values and /or click on the buttons provided in the grid, that contains the specifications of the intervals under the corresponding points headers. The points are then assigned and recorded and under the “Scores” header (Fig 16 **A**).

When all the parameters are specified, the total value is displayed in the box indicated in Fig 16 **B**.



The total value is calculated only if all the parameters are specified.

Parameter	Imp	Value	Scores	0	1	2	3	4
Respiratory			2	>300	<=300 >225	<=225 >150	<=150 >75	<=75
Renal			1	<12	<23 >=12	<4 >=23	<57 >=4	>=57
Hepatic			3	<=20	<=60 >20	<=120 >60	<=240 >120	>240
Cardiovascular			1	<=10	<=15 >10	<=20 >15	<=30 >20	>30
Haematologic			3	>120	<=120 >80	<=80 >50	<=50 >20	>20
Neurological			0	>=15	<=14 >=13	<=12 >=10	<=9 >=7	<=6

11:50 AM

7 8 9
4 5 6
1 2 3
0 A/P C
12:00 0:10

SCORES
10

OK
CANCEL

NOTES

i

Fig 16 - Specified scores and values

- Click the **Ok** button (Fig 16 C).

A new column is this way added to the score's grid. The new column displays the new set of values (Fig 17).



The data entry window and the data entry procedures are described in paragraphs 1.8.1 and 1.8.2.

Parameter	Unit	03/08/2020 07:19 07:19 ADM	03/08/2020 10:37 10:37 ADM	03/08/2020 11:58 11:58 ADM	04/08/2020 09:22 09:22 ADM	04/08/2020 10:19 10:19 ADM	04/08/2020 12:27 12:27 ADM	05/08/2020 13:52 13:52 ADM
SCORES		47	48	44	45	40	49	47
Temperature	C°	1	2	0	2	2	4	3
Mean Arterial Pressure	mmHg	2	2	2	0	0	2	2
Heart Rate	Beat/min	0	3	0	2	2	3	2
Respiratory Rate	Breaths/min	1	0	1	1	1	1	1
FIO2	%	21	21	21	21	21	21	21
Oxygenation PaO2	mmHg	4	1	0	0	3	4	1
Oxygenation AaDO2	Coefficient							
Arterial Ph	Ph	2	1	1	2	0	0	2
Serum Sodium	μMol/L	2	2	2	1	1	3	0
Serum Potassium	μMol/L	2	1	2	2	1	2	2
Serum Creatinine	mg/100ml	0	2	2	2	0	0	0
Hematocrit	%	2	1	2	1	2	2	1
White Blood Count	Total/mm ³	2	2	4	1	0	0	2
Glasgow Coma Score	Score	3	3	2	3	2	2	3
Age	Years	5	5	5	5	5	5	5
Chronic Health Points		0	2	0	2	0	0	2

Fig 17 - New score

Select the “Values” option on the bottom-left corner to display on the grid the actual values of the parameters (Fig 18, Fig 5 B) instead of the score points.

Show

☒ Values ☐ Scores

Fig 18 - Display values

1.8.1. Data entry window description

The data entry window (an example is shown in Fig 19), offers several tools to specify the relevant values and to calculate the corresponding scores.

Parameter	Imp	Value	Scores	0	1	2	3	4
Respiratory	<input type="checkbox"/>		2	>300	<=300 >225	<=225 >150	<=150 >75	<=75
Renal	<input type="checkbox"/>		1	<12	<23 ≥12	<4 ≥23	<57 ≥4	≥57
Hepatic	<input type="checkbox"/>		3	<=20	<=60 ≥20	<=120 ≥60	<=240 ≥120	≥240
Cardiovascular	<input type="checkbox"/>		1	<=10	<=15 ≥10	<=20 ≥15	<=30 ≥20	≥30
Haematologic	<input type="checkbox"/>		3	>120	<=120 ≥80	<=80 ≥50	<=50 ≥20	≥20
Neurological	<input type="checkbox"/>		0	≥15	<=14 ≥13	<=12 ≥10	<=9 ≥7	<=6

NOTES

OK CANCEL

Fig 19 - Data entry window ("Apache II" system)

All the parameters, with their unit of measure, are listed on the left (Fig 19 A, Fig 20).

MODS
Parameter
Respiratory
Renal
Hepatic
Cardiovascular
Haematologic
Neurological

Fig 20 - Parameters list

The three successive columns (Fig 19 B, Fig 21),

Imp	Value	Scores
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Fig 21 - Import, value and scores

display the following information:

- 1) the “Imp” column can display - if enabled by configuration - a button making it possible to automatically import the results of a query associated to the parameter. When this is the case, a button is displayed inside the cell, as in Fig 22. Click the button to specify the score.



Fig 22

- 2) the “Value” column makes it possible to specify the parameter’s value;
- 3) the “Scores” column displays the score (points) relating to the value specified for the corresponding parameter.

The rectangles on the central part of the window (Fig 19 **C**, Fig 23) are both scores specification buttons and reference guides indicating the value-points relationship.

0	1	2	3	4
>300	<=300 >225	<=225 >150	<=150 >75	<=75
<12	<23 >=12	<4 >=23	<57 >=4	>=57
<=20	<=60 >20	<=120 >60	<=240 >120	>240
<=10	<=15 >10	<=20 >15	<=30 >20	>30
>120	<=120 >80	<=80 >50	<=50 >20	>=20
>=15	<=14 >=13	<=12 >=10	<=9 >=7	<=6

Fig 23 - Values and scores grid

Each rectangle is a button. Click the rectangle to insert the score corresponding to the interval specified in the rectangle itself. The first rectangle on the top left corner, for instance, indicates a Respiratory value that is bigger than 300 and it corresponds to a score of 0 points. Click a chosen button to add the corresponding points to the “Scores” column (Fig 24).

MODS								
Parameter	Imp	Value	Scores	0	1	2	3	4
Respiratory			2	>300	<=300 >225	<=225 >150	<=150 >75	<=75
Renal			1	<12	<23 >=12	<4 >=23	<57 >=4	>=57
Hepatic			3	<=20	<=60 >20	<=120 >60	<=240 >120	>240
Cardiovascular			1	<=10	<=15 >10	<=20 >15	<=30 >20	>30
Haematologic			3	>120	<=120 >80	<=80 >50	<=50 >20	>=20
Neurological			0	>=15	<=14 >=13	<=12 >=10	<=9 >=7	<=6

Fig 24

1.8.2. Data entry procedures

To specify a value on the data entry window

- Click the row corresponding to the wanted parameter under the “Value” column (Fig 25 **A**).

MODS

Parameter	Imp	Value	Scores	0	1	2	3	4
Respiratory		44	4	>300	<=300 >225	<=225 >150	<=150 >75	<=75
Renal		25	3	<12	<23 >=12	<4 >=23	<57 >=4	>=57
Hepatic		2	0	<=20	<=60 >20	<=120 >60	<=240 >120	>240
Cardiovascular		13	1	<=10	<=15 >10	<=20 >15	<=30 >20	>30
Haematologic		80	2	>120	<=120 >80	<=80 >50	<=50 >20	>=20
Neurological		14	1	>=15	<=14 >=13	<=12 >=10	<=9 >=7	<=6

Fig 25

A cursor appears in the cell.

- Type the wanted value. The corresponding score is automatically displayed on the adjacent “Score” cell (Fig 26).

MODS				
Parameter	Imp	Value	Scores	0
Respiratory		44	4	>300
Renal		25	3	<12

Fig 26 - Value specified

It is also possible to specify the score directly, without entering the exact parameter value. There are two ways to do that:

First way

- Click the button indicating the registered interval corresponding to score.

If, for instance, the button shown in Fig 27, that indicates a Mean Arterial Pressure between 50 and 70 mmHg and that corresponds to a “+2” value is clicked,

Apache II						
Parameter	Imp	Value	Scores	+4	+3	+2
Temperature (C°)				<30	<32 >=30	<34 >=32
Mean Arterial Pressure (mmHg)				<50		<70 >=50
Heart Rate (Beat/min)				<40	<55 >=40	<70 >=55
Respiratory Rate (Breaths/min)				<6		<10 >=6

Fig 27

the score 2 for the Mean Arterial Pressure is automatically inserted in the “Scores” column (Fig 28).

Apache II						
Parameter	Imp	Value	Scores	+4	+3	+2
Temperature (C°)				<30	<32 >=30	<34 >=32
Mean Arterial Pressure (mmHg)			2	<50		<70 >=50
Heart Rate (Beat/min)				<40 >=40	<55 >=40	<70 >=55

Fig 28

Second way

- Click the “Scores” cell corresponding to the parameter to be specified (Fig 29).

Apache II						
Parameter	Imp	Value	Scores	+4	+3	+2
Temperature (C°)				<30	<32 >=30	<34 >=32
Mean Arterial Pressure (mmHg)				<50		<70 >=50
Heart Rate (Beat/min)				<40 >=40	<55 >=40	<70 >=55
Respiratory Rate (Breaths/min)				<6		<10 >=6

Fig 29

A new window opens with multiple choices menu (Fig 30) relating to the parameter to be specified, and it displays all the possible scores (on the left) and their corresponding values (on the right).

Apache II						
Parameter	Imp	Value	Scores	+4	+3	+2
Temperature (C°)				<30	<32 >=30	<34 >=32
Mean Arterial Pressure (mmHg)				Mean Arterial Pressure		
Heart Rate (Beat/min)				Score Choice		
Respiratory Rate (Breaths/min)				4	x < 50	
FIO2 (%)				2	50 <= x < 70	
Oxygenation PaO2 (mmHg)				0	70 <= x < 110	
Oxygenation AaDO2 (Coefficient)				2	110 <= x < 130	
Arterial Ph (Ph)				3	130 <= x < 160	
				4	160 <= x	

Fig 30

- Click the row corresponding to the desired value/score. For instance: the line indicated in Fig 31 (Mean Arterial Pressure between 50 and 70 mmHg) corresponds to a +2 score.

Heart Rate	
Score	Choice
4	$x < 40$
2	$40 \leq x < 55$
0	$55 \leq x < 70$
2	$70 \leq x < 110$
3	$110 \leq x < 140$
4	$140 \leq x < 180$
4	$180 \leq x$

Fig 31

The score “2” appears in the provided cell under the “Scores” header (Fig 32).

Apache II						
Parameter	Imp	Value	Scores	+4	+3	+2
Temperature (C°)			<30 >=30	<32 >=30	<34 >=32	
Mean Arterial Pressure (mmHg)			<50 >=50		<70 >=50	
Heart Rate (Beat/min)			<40 >=40	<55 >=40	<70 >=55	

Fig 32

The box indicated in Fig 33 displays the total score.

MODS

Parameter	Imp	Value	Scores	0	1	2	3	4
Respiratory			2	>300	<=300 >225	<=225 >150	<=150 >75	<=75
Renal			1	<12	<23 >=12	<4 >=23	<57 >=4	<=57
Hepatic			3	<=20	<=60 >20	<=120 >60	<=240 >120	<=240
Cardiovascular			1	<=10	<=15 >10	<=20 >15	<=30 >20	<=30
Haematologic			3	>120	<=120 >80	<=80 >50	<=50 >20	<=20
Neurological			0	>=15	<=14 >=13	<=12 >=10	<=9 >=7	<=6

11:50 AM

7	8	9
4	5	6
1	2	3
0	A/P	C

12:00

0:10

SCORES

10

NOTES

OK

CANCEL

Fig 33



Totals are only displayed when all the parameters are specified.

1.9. Second score formula

A configuration option makes it possible to specify two formulas for the same score. For example: a “main” formula can be specified to calculate the score total value while a “second” formula can be specified to calculate another meaningful value (a value indicating the “mortality rate”, for instance).

In these cases the module’s interface slightly changes to display both values at the same time.

Both values are then displayed on the “Scores” grid on the module’s main screen (Fig 34 A).

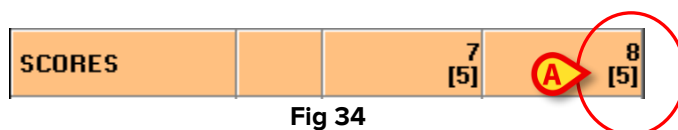


Fig 34

1.10. Contextual information on the parameters

The data entry window (Fig 35) can provide information on the relevant parameters.

The existing information (specified by configuration) is displayed on the bottom of the window every time the user clicks the cell displaying the parameter name.



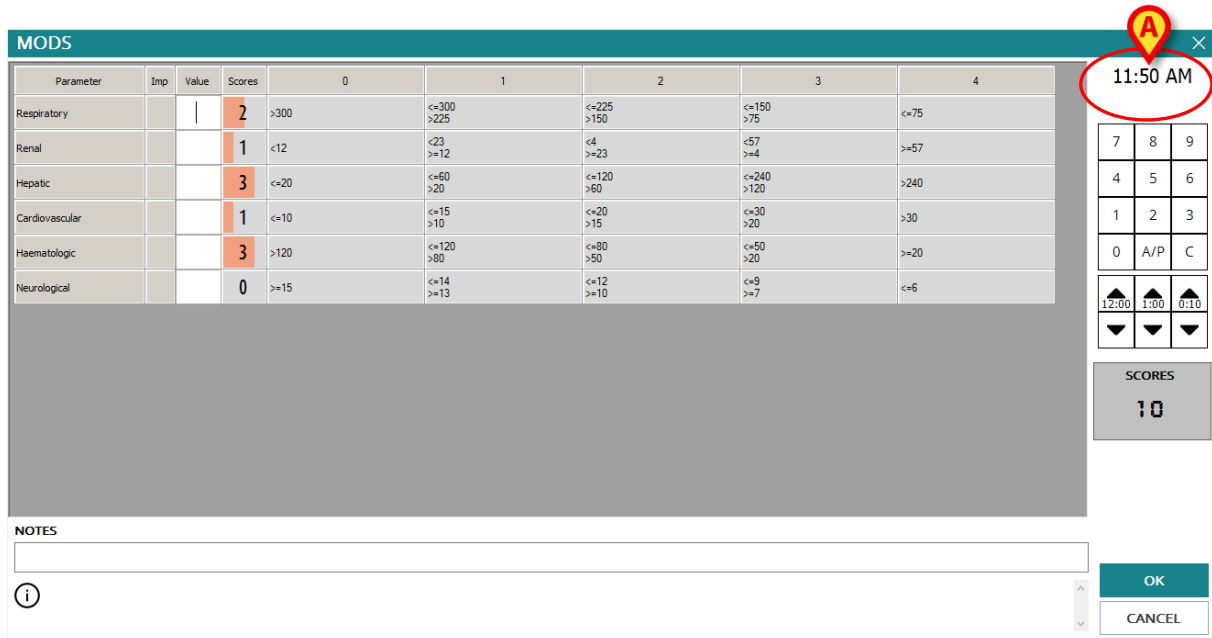
Parameter	Imp	Value	Scores	+4	+3	+2	+1	+0	+1	+2	+3	+4
Temperature (C°)			2	<30	<32 >=30	<34 >=32	<36 >=34	<38.5 >=36	<39 >=38.5		<41 >=39	>=41
Mean Arterial Pressure (mmHg)			2	<50		<70 >=50		<110 >=70		<130 >=110	<160 >=130	>=160
Heart Rate (Beat/min)			0	<40	<55 >=40	<70 >=55		<110 >=70		<140 >=110	<180 >=140	>=180
Respiratory Rate (Breaths/min)			1	<6		<10 >=6	<12 >=10	<25 >=12	<35 >=25		<50 >=35	>=50
FI02 (%)		*	21	<50								
Oxygenation PaO2 (mmHg)			3	<55	<61 >=55		<71 >=61	>=71				
Oxygenation AaDO2 (Coefficient)								<200 >=200		<350 >=200	<500 >=350	>=500
Arterial Ph (Ph)			1	<7.15	<7.24 >=7.15	<7.33 >=7.24		<7.5 >=7.33	<7.6 >=7.5		<7.7 >=7.6	>=7.7
Serum Sodium (μMol/L)			2	<111	<120 >=111	<130 >=120		<150 >=130	<155 >=150	<=160 >=155	<180 >=160	>=180
Serum Potassium (μMol/L)			0	<2.5		<3 >=2.5	<3.5 >=3	<5.5 >=3.5	<6 >=5.5		<7 >=6	>=7
Serum Creatinine (mg/100ml)			0			<0.6		<1.5 >=0.6		<2 >=1.5	<3.5 >=2	>=3.5
Hematocrit (%)			2	<20		<30 >=20		<46 >=30	<50 >=46	<60 >=50		>=60
White Blood Count (Total/mm ³)			1	<1		<3 >=1		<15 >=3	<20 >=15	<40 >=20		>=40
Glasgow Coma Score (Score)		*	2	GSC 13								
Age (Years)			5	>=65 <75								
Chronic Health Points		*	0	None								
NOTES												
 FI02 value determines which parameter is to be considered for Apache II calculation. If FI02 lays between 0% and 50% use PaO2 otherwise use AaDO2.												

Fig 35 - Parameter information

1.11. Time settings

The box indicated in Fig 36 displays the time associated to the score specification. Also the date is displayed if it is different from the current date.



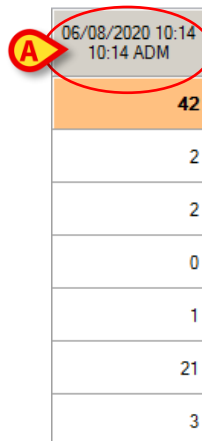
The MODS window displays a table with columns for Parameter, Imp, Value, Scores, and five score ranges (0, 1, 2, 3, 4). The 'Scores' column contains values 2, 1, 3, 1, 3, and 0 for the respective parameters. A red circle highlights the '11:50 AM' time displayed in the top right corner of the window.

Parameter	Imp	Value	Scores	0	1	2	3	4
Respiratory			2	>300	<=300 >225	<=225 >150	<=150 >75	<=75
Renal			1	<12	<23 >=12	<4 >=23	<57 >=4	>=57
Hepatic			3	<=20	<=60 >20	<=120 >60	<=240 >120	>240
Cardiovascular			1	<=10	<=15 >10	<=20 >15	<=30 >20	>30
Haematologic			3	>120	<=120 >80	<=80 >50	<=50 >20	>=20
Neurological			0	>=15	<=14 >=13	<=12 >=10	<=9 >=7	<=6

Below the table is a 'NOTES' section with a text input field and an information icon (i). To the right of the table is a numeric keypad and a 'SCORES' section displaying '10'. At the bottom right are 'OK' and 'CANCEL' buttons.

Fig 36 - Time specification

The time displayed in this box is the time displayed on the scores grid in the first cell of the specific column (Fig 37).



The scores grid shows a vertical list of scores: 42, 2, 2, 0, 1, 21, and 3. A red circle highlights the top cell, which displays the date and time '06/08/2020 10:14' and '10:14 ADM'.

Fig 37

Current time is set by default. The user can set a different time, preceding or following the current one. To set the time use either the numeric keyboard on the right (Fig 38) or the up and down arrow buttons displayed in Fig 39.

11:50 AM

7	8	9
4	5	6
1	2	3
0	A/P	C

Fig 38











 12:00	 1:00	 0:10
		


Fig 39


Use the **00:10**  button to set the time ten minutes in the future (ten minutes per click).

Use the **00:10**  button to set the time ten minutes back in the past (ten minutes per click).

Use the **01:00**  button to set the time one hour in the future (one hour per click).

Use the **01:00**  button to set the time one hour back in the past (one hour per click).

Use the **12:00**  button to set the time twelve hours in the future (twelve hours per click).

Use the **12:00**  button to set the time twelve hours back in the past (twelve hours per click).

1.12. The command bar

The command bar contains various buttons (Fig 40, Fig 3 **C**). Each button makes it possible to perform a specific procedure. The different functions are here listed and briefly described and they are explained in detail in the paragraphs indicated.

SCORING	NEW	EDIT	DELETE	NOTES
---------	-----	------	--------	-------

Fig 40 - Command Bar

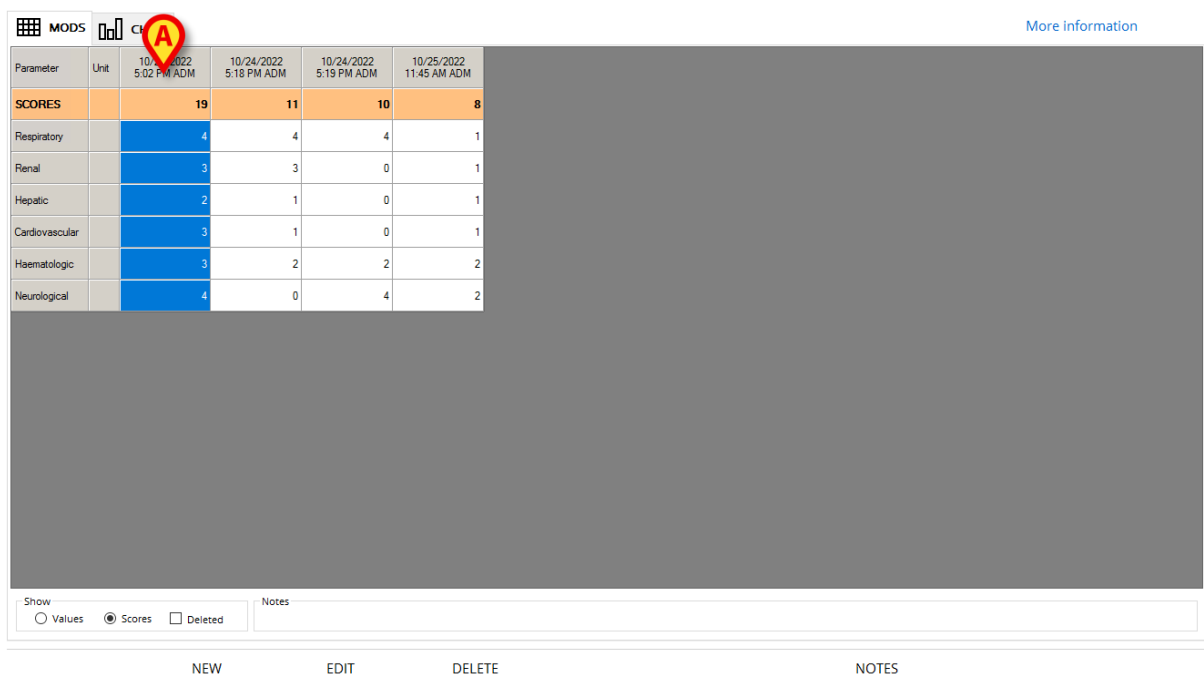
NEW	Use this button to add a new score. The button opens a data entry window. The data entry window is described in paragraph 1.8.1, the related procedures are described in paragraph 1.8.2.
EDIT	Use this button to modify the values of a selected score. See paragraph 1.12.1 for the details on the procedure.
DELETE	Use this button to delete a selected score. See paragraph 1.12.2 for the detailed procedure.
NOTES	Use this button to add a patient note. See paragraph 1.12.4 for the details on the procedure.

1.12.1. How to edit an existing score

To edit the values of an existing score

- Click the corresponding column on the scores grid.

The column is highlighted in blue (Fig 41 **A**).



The interface shows a table of scores for various parameters. A red location pin icon is visible in the top left corner. The table has columns for Parameter, Unit, and four dates: 10/24/2022 5:02 PM ADM, 10/24/2022 5:18 PM ADM, 10/24/2022 5:19 PM ADM, and 10/25/2022 11:45 AM ADM. The rows include SCORES, Respiratory, Renal, Hepatic, Cardiovascular, Haematologic, and Neurological. Below the table is a 'Show' section with radio buttons for Values, Scores (selected), and Deleted, and a 'Notes' section. At the bottom is a command bar with buttons for NEW, EDIT, DELETE, and NOTES.

Parameter	Unit	10/24/2022 5:02 PM ADM	10/24/2022 5:18 PM ADM	10/24/2022 5:19 PM ADM	10/25/2022 11:45 AM ADM
SCORES		19	11	10	8
Respiratory		4	4	4	1
Renal		3	3	0	1
Hepatic		2	1	0	1
Cardiovascular		3	1	0	1
Haematologic		3	2	2	2
Neurological		4	0	4	2

Show
☐ Values ☒ Scores ☐ Deleted
 Notes

NEW EDIT DELETE NOTES

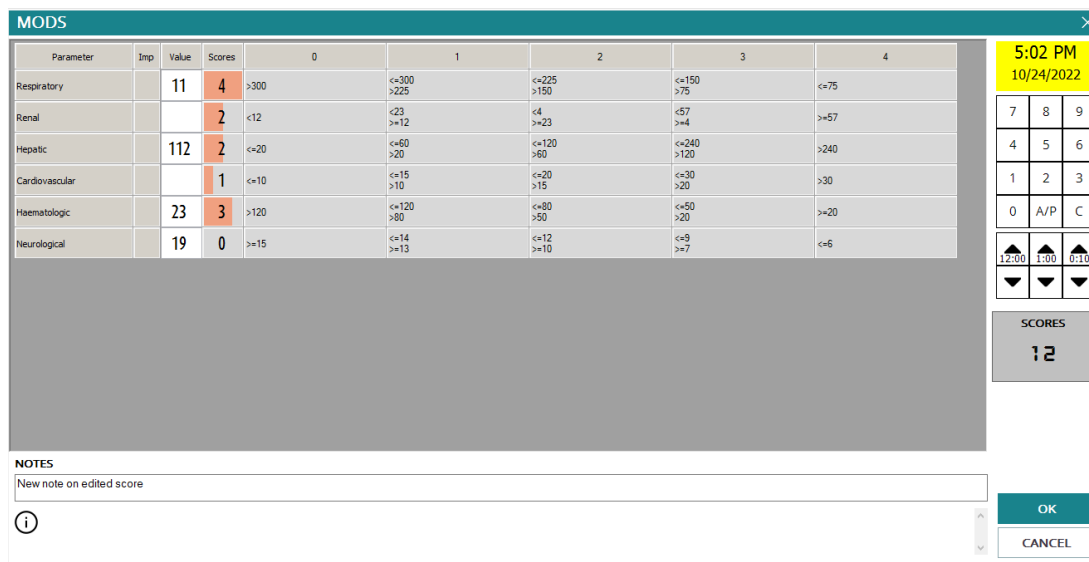
Fig 41 - Scores grid

- Click the **Edit** button on the command bar (Fig 42).



Fig 42 - Command bar

The corresponding data entry window is displayed (Fig 43).



The data entry window is titled 'MODS'. It contains a table with columns for Parameter, Imp, Value, Scores, and five ranges (0, 1, 2, 3, 4). The rows include Respiratory, Renal, Hepatic, Cardiovascular, Haematologic, and Neurological. To the right of the table is a numeric keypad and a 'SCORES' section showing a total of 12. Below the table is a 'NOTES' section with a text input field and an information icon. At the bottom right are 'OK' and 'CANCEL' buttons.

Parameter	Imp	Value	Scores	0	1	2	3	4
Respiratory		11	4	>300	<=300 >225	<=225 >150	<=150 >75	<=75
Renal			2	<12	<23 >=12	<4 >=23	<57 >=4	>=57
Hepatic		112	2	<=20	<=60 >20	<=120 >60	<=240 >120	>240
Cardiovascular			1	<=10	<=15 >10	<=20 >15	<=30 >20	>30
Haematologic		23	3	>120	<=120 >80	<=80 >50	<=50 >20	>=20
Neurological		19	0	>=15	<=14 >=13	<=12 >=10	<=9 >=7	<=6

5:02 PM
10/24/2022

7 8 9
4 5 6
1 2 3
0 A/P C
12:00 1:00 8:10
SCORES
12

NOTES
New note on edited score

OK
CANCEL

Fig 43 - Data entry window

- Edit the values on the window (see paragraphs 1.8.1 and 1.8.2 for the specific procedure).
- Click the **Ok** button.

The score values are this way edited.



The data entry window can also be displayed by double-clicking the corresponding column.

1.12.2. How to delete a score

To delete one of the scores on the grid

- Click the corresponding column on the scores grid.

The column is highlighted (Fig 44).

MODS		CHART			
Parameter	Unit	10/24/2022 5:02 PM ADM	10/24/2022 5:18 PM ADM	10/24/2022 5:19 PM ADM	10/25/2022 11:45 AM ADM
SCORES		19	11	10	8
Respiratory		4	4	4	1
Renal		3	3	0	1
Hepatic		2	1	0	1
Cardiovascular		3	1	0	1
Haematologic		3	2	2	2
Neurological		4	0	4	2

Fig 44 - Scores grid

- Click the **DELETE** button on the command bar (Fig 45).

SCORING	NEW	EDIT	DELETE	NOTES
---------	-----	------	--------	-------

Fig 45 - Command bar

User confirmation is required.

Are you sure you want to delete the current record?

Please enter the reason for deletion.

This is the reason ...

Yes

No

Fig 46 - Command bar

- Click **YES** to proceed. The selected column disappears from the grid.

1.12.3. Print reports

To access the Scoring Calculator module print functionalities

- Click the **PRINT** button on the command bar (Fig 47).



Fig 47 - Command bar

Different print options can be configured.

- Click the wanted option.

A print preview is displayed.

1.12.4. How to add a patient note

The **NOTES** button on the command bar (Fig 48) makes it possible to add notes relating to the patient.

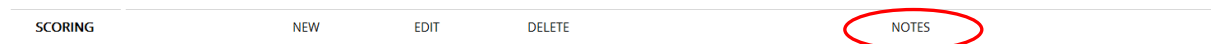


Fig 48 - Command bar

To add a patient note

- Click the **NOTES** button.

The following window opens.

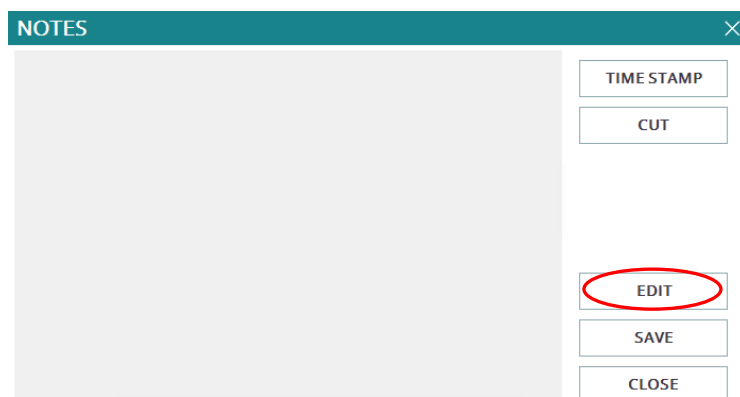


Fig 49 - "Notes" window

- Click the **Edit** button (Fig 49).

The window changes and turns to "edit" mode.

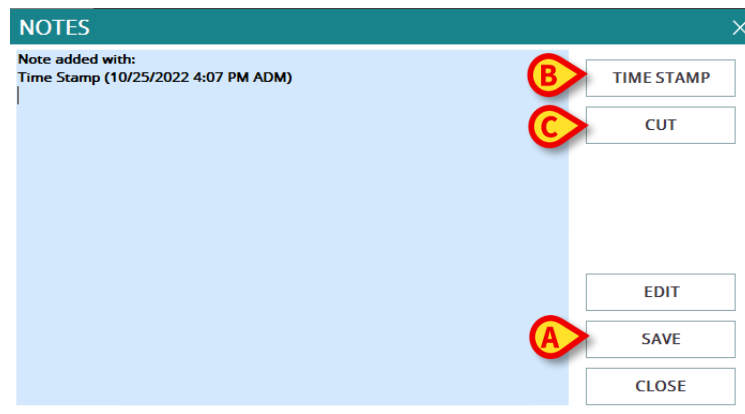


Fig 50 - "Notes" window (edit mode)

- Type the note. The text is displayed in the window.
- Click the **Save** button to save the note (Fig 50 **A**).

The window closes automatically. Click the "Notes" button again to display the note just entered and previous ones.

Use the **Time Stamp** button on the right (Fig 50 **B**) to display the date, time and the acronym of the user who is adding the note (Fig 51).



Fig 51 - Date and time

Use the **Cut** button (Fig 50 **C**) to cut a selected text portion from the note. To cut a text portion from a note

- Click the **Edit** button (Fig 49 **A**).
- Select the text to be cut using either the mouse device or the workstation keyboard.
- Click the Cut button.

The selected text disappears from the note.



*The notes inserted this way are visible - after clicking the **Notes** button on the command bar - on every Product module currently in use implementing the **Notes** button.*

1.13. Charts

The patient scores can be displayed in charts.

To do that

- Click the “Chart” tab indicated in Fig 52 **A**.

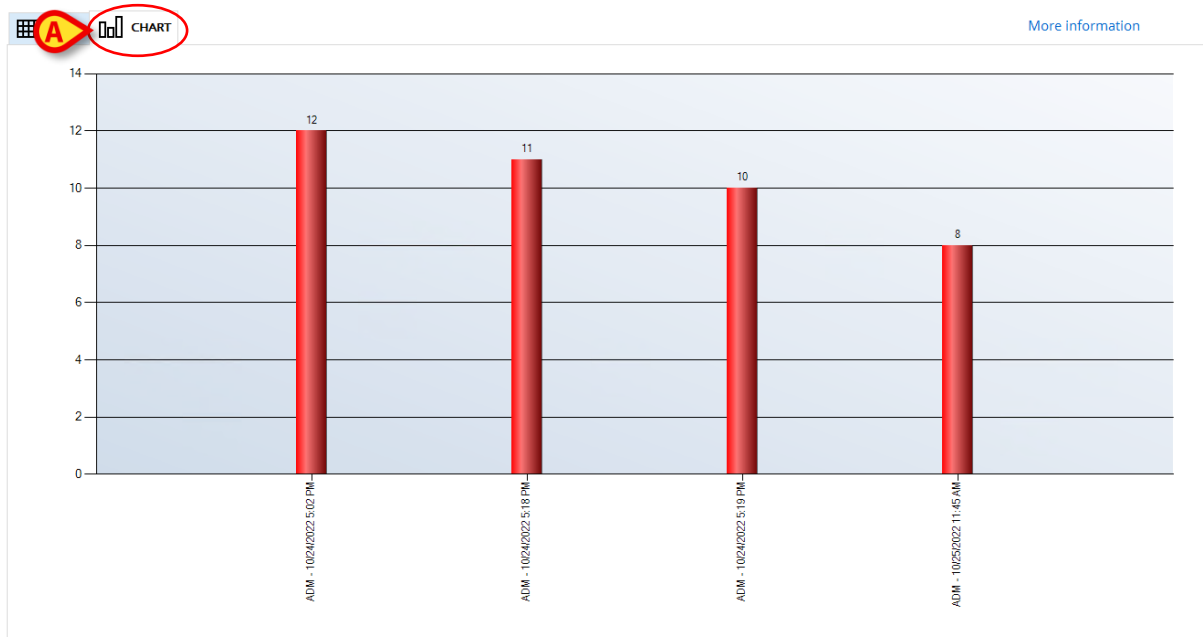


Fig 52 - Grafico

The chart shown in Fig 52 displays the trends of each parameter.