

ascom

Scoring Calculator

User Manual

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1. Scoring Calculator



For general and detailed information about the Product environment and the instructions for use of the Control Bar software see the specific documents of the Product. The knowledge and understanding of these documents is mandatory for an appropriate and safe use of the 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 2 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.

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 2 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 2 **A**);
- 2) the data area (this area displays charts, grids and scores instructions Fig 2 **B**);
- 3) the command bar (Fig 2 **C**).

The figure shows a screenshot of the Scoring grid - Patient selected interface. The interface is divided into three main sections:

- Available Scores (Area A):** A vertical list of scoring systems on the left side, including EuroScore, Glasgow Coma Score, Higgins CABG, MODS, NEMS, NRS, Ramsay, RTS, SAPS II, SAPS III, SOFA, and Tiss20. The "Available Scores" section is highlighted with a yellow box and labeled "A".
- Data area (Area B):** The central area displays a table of patient parameters and units. The table has two columns: "Parameter" and "Unit". The rows include: SCORES (highlighted with a yellow box and labeled "B"), Respiratory Support, Respiration PaO₂/FiO₂ (mmHg), Coagulation (Platelets*10⁻³/mm³), Liver Bilirubin (mg/dl), GCS, Cardiovascular Hypotension, and Renal (Answer). The entire data area is highlighted with a yellow box and labeled "B".
- Command Bar (Area C):** The bottom section contains buttons for "Show" (Values, Scores, Deleted), "Notes", and actions like "NEW", "EDIT", "DELETE", and "NOTES". The command bar is highlighted with a yellow box and labeled "C".

Fig 2 - Scoring grid - Patient selected

1.5. The list of available scores

The vertical area on the left (Fig 2 A, Fig 3) displays the list of all the available scores. These are some of the scores currently available (only the scores explicitly enabled by configuration are displayed):

- 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 3 - 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 2 **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 4, Fig 2 **B**).

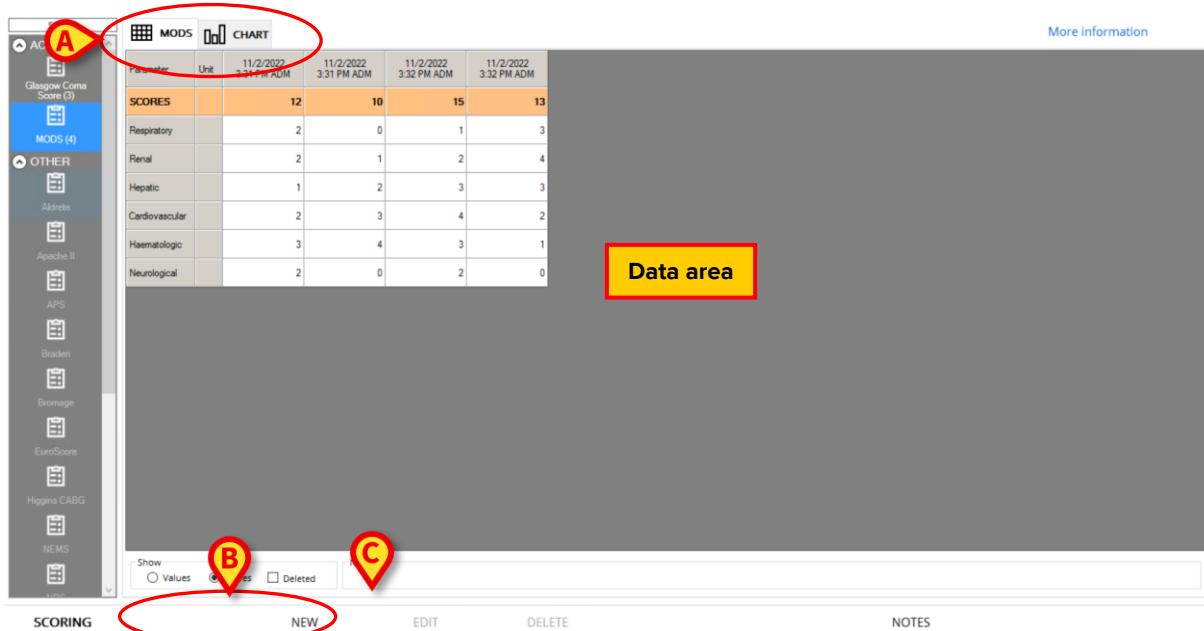


Fig 4 - Data area

This area always displays the data referring to the score selected on the bar on the left (Fig 3).

Two tabs are provided on the top left corner of the data area (Fig 4 **A**).

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

Parameter	Unit	10/24/2022 5:22 PM ADM
SCORES		?
Temperature	C°	0
Mean Arterial Pressure	mmHg	2
Heart Rate	Beat/min	0

Fig 5

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

The area indicated in Fig 4 **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 6 - Scores grid - “MODS”

The first column displays the names of all the parameters (Fig 7).

Parameter
SCORES
Respiratory
Renal
Hepatic
Cardiovascular
Haematologic
Neurological

Fig 7 - Parameters

The second column indicates the unit of measure of the values displayed on the grid (Fig 8).

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

Fig 8 - Unit of measure

The other columns refer to a score calculation. Each cell displays the score calculated for the corresponding parameter (Fig 9).

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

Fig 9 - Scores

The first cell of each column indicates the date, the time and the acronym of the user who recorded the information (Fig 9 A). The second cell indicates the score total value (Fig 9 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 10, Fig 4 B).

Show
 Values Scores Deleted

Fig 10 - Display values

The values are this way displayed in the grid (Fig 11).

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 11 – Values

1.7.1. Notes

The “Notes” area, indicated in Fig 4 **C** and Fig 12 **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 12 **A**). If there is a note associated to that score calculation, the note is displayed in the “Notes” area (Fig 12 **B**).



The screenshot shows a software application window titled "USR ENG Scoring Calculator". At the top, there are two tabs: "MODS" and "CHART". The "CHART" tab is selected, indicated by a yellow circle with a red letter "A" above it. Below the tabs is a grid of numerical values. The first row contains the header "Parameter", "Unit", and four timestamp columns: "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 second row contains the header "SCORES" and the values 19, 11, 10, and 8 respectively. Subsequent rows represent different physiological parameters: Respiratory (values 4, 4, 4, 1), Renal (values 3, 3, 0, 1), Hepatic (values 2, 1, 0, 1), Cardiovascular (values 3, 1, 0, 1), Haematologic (values 3, 2, 2, 2), and Neurological (values 4, 0, 4, 2). In the bottom right corner of the grid area, there is a large gray rectangular box labeled "More information". At the very bottom of the window, there is a toolbar with buttons for "Show" (radio buttons for "Values", "Scores", and "Deleted"), "Notes" (radio button for "Note from the Admin User"), and a "Print" icon.

Fig 12

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 3).

- Click the **New** button on the command bar (Fig 13).

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

Fig 13 - Command bar

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

The screenshot shows the 'MODS' data entry window. At the top right, the time is 11:50 AM. On the left, there's a 'NOTES' section with a text input field and an information icon (i). The main area contains a grid for specifying parameters across five points (0, 1, 2, 3, 4) for various organs. To the right of the grid is a 'SCORES' section with a dashed line. At the bottom right are 'OK' and 'CANCEL' buttons.

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 14 - 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 15 A).

When all the parameters are specified, the total value is displayed in the box indicated in Fig 15 B.

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

MODS

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

NOTES

(i)

11:50 AM

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

B

SCORES
10

C

OK **CANCEL**

Fig 15 - Specified scores and values

- Click the **Ok** button (Fig 15 **C**).

A new column is this way added to the score's grid. The new column displays the new set of values (Fig 16).



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	3	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/mm³	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 16 - New score

Select the “Values” option on the bottom-left corner to display on the grid the actual values of the parameters (Fig 17, Fig 4 **B**) instead of the score points.



Fig 17 - Display values

1.8.1. Data entry window description

The data entry window (an example is shown in Fig 18), offers several tools to specify the relevant values and to calculate the corresponding scores.

Parameter	Imp	Value	Scores	0	1	2	3	4
Respiratory			2	>300 >225	<=300 >225	<=225 >150	<=150 >75	<=75
Renal			1	<12 >12	<23 >12	<4 >23	<57 >4	>57
Hepatic			3	<>20	<=60 >20	<=120 >60	<=240 >120	>240
Cardiovascular			1	<10 >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

NOTES:

Fig 18 - Data entry window (“Apache II” system)

All the parameters, with their unit of measure, are listed on the left (Fig 18 A, Fig 19).

MODS	
Parameter	
Respiratory	
Renal	
Hepatic	
Cardiovascular	
Haematologic	
Neurological	

Fig 19 - Parameters list

The three successive columns (Fig 18 B, Fig 20),

Imp	Value	Scores

Fig 20 - 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 21. Click the button to specify the score.

Age (Years)		5	>=65 <75
-------------	--	---	----------

Fig 21

- 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 18 C, Fig 22) are both scores specification buttons and reference guides indicating the value-points relationship.

0	1	2	3	4
>300 >25	<=300 >25	<=225 >150	<=150 >75	<=75
<12 =>12	<23 =>12	<4 =>23	<57 =>4	>=57
<=20 =>20	<=60 =>20	<=120 =>60	<=240 =>120	>240
<=10 =>10	<=15 =>10	<=20 =>15	<=30 =>20	>30
>120 =>80	<=120 =>80	<=80 =>50	<=50 =>20	>=20
>=15 =>13	<=14 =>13	<=12 =>10	<=9 =>7	<=6

Fig 22 - 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 23).

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

Fig 23

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 24 A).



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 24

A cursor appears in the cell.

- Type the wanted value. The corresponding score is automatically displayed on the adjacent “Score” cell (Fig 25).



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

Fig 25 - 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 26, that indicates a Mean Arterial Pressure between 50 and 70 mmHg and that corresponds to a “+2” value is clicked,



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 26

the score 2 for the Mean Arterial Pressure is automatically inserted in the “Scores” column (Fig 27).

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

Fig 27

Second way

- Click the “Scores” cell corresponding to the parameter to be specified (Fig 28).

Parameter	Imp	Value	Scores	+4	+3	+2
Temperature (C°)			(A)	<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 28

A new window opens with multiple choices menu (Fig 29) relating to the parameter to be specified, and it displays all the possible scores (on the left) and their corresponding values (on the right).

Parameter	Imp	Value	Scores	+4	+3	+2
Temperature (C°)				<30	<32 ≥30	<34 ≥32
Mean Arterial Pressure (mmHg)						<70 ≥50
Heart Rate (Beat/min)						<70 ≥55
Respiratory Rate (Breaths/min)						
FIO2 (%)						
Oxygenation PaO2 (mmHg)						
Oxygenation AaDO2 (Coefficient)						
Arterial Ph (Ph)				<7.15	<7.24 ≥7.15	<7.33 ≥7.24

Score	Choice
4	x < 50
2	50 ≤ x < 70
0	70 ≤ x < 110
2	110 ≤ x < 130
3	130 ≤ x < 160
4	160 ≤ x

Fig 29

- Click the row corresponding to the desired value/score. For instance: the line indicated in Fig 30 (Mean Arterial Pressure between 50 and 70 mmHg) corresponds to a +2 score.

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

Fig 30

The score “2” appears in the provided cell under the “Scores” header (Fig 31).

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	<55 ≥40	<70 ≥55	

Fig 31

The box indicated in Fig 32 displays the total score.

MODS								11:50 AM	
Parameter	Imp	Value	Scores	0	1	2	3	4	
Respiratory			2	>300	<=300 >225	<=225 >150	<=150 >75	<=75	
Renal			1	<12	<23 ≥12	>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	

SCORES
10

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

Fig 32



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 33 A).

SCORES					7 [5]	8 [5]	

Fig 33

1.10. Contextual information on the parameters

The data entry window (Fig 34) 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 >=30	<32 >=32	<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
FIO2 (%)	*	21		<50								
Oxygenation PaO2 (mmHg)			3	<55	<61 >=55		<71 >=61	>=71				
Oxygenation AaDO2 (Coefficient)								<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)	down		5	>=65 <75								
Chronic Health Points	*	0		None								
NOTES												
 FIO2 value determines which parameter is to be considered for Apache II calculation. If FIO2 lays between 0% and 50% use PaO2 otherwise use AaDO2.												

Fig 34 - Parameter information

1.11. Time settings

The box indicated in Fig 35 displays the time associated to the score specification. Also the date is displayed if it is different from the current date.

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

NOTES

(i)

OK CANCEL

Fig 35 - 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 36).

06/08/2020 10:14 10:14 ADM	42	2	2	0	1	21	3
-------------------------------	----	---	---	---	---	----	---

Fig 36

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 37) or the up and down arrow buttons displayed in Fig 38.

11:50 AM

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

Fig 37

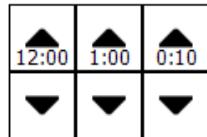


Fig 38

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 39, Fig 2 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 39 - Command Bar

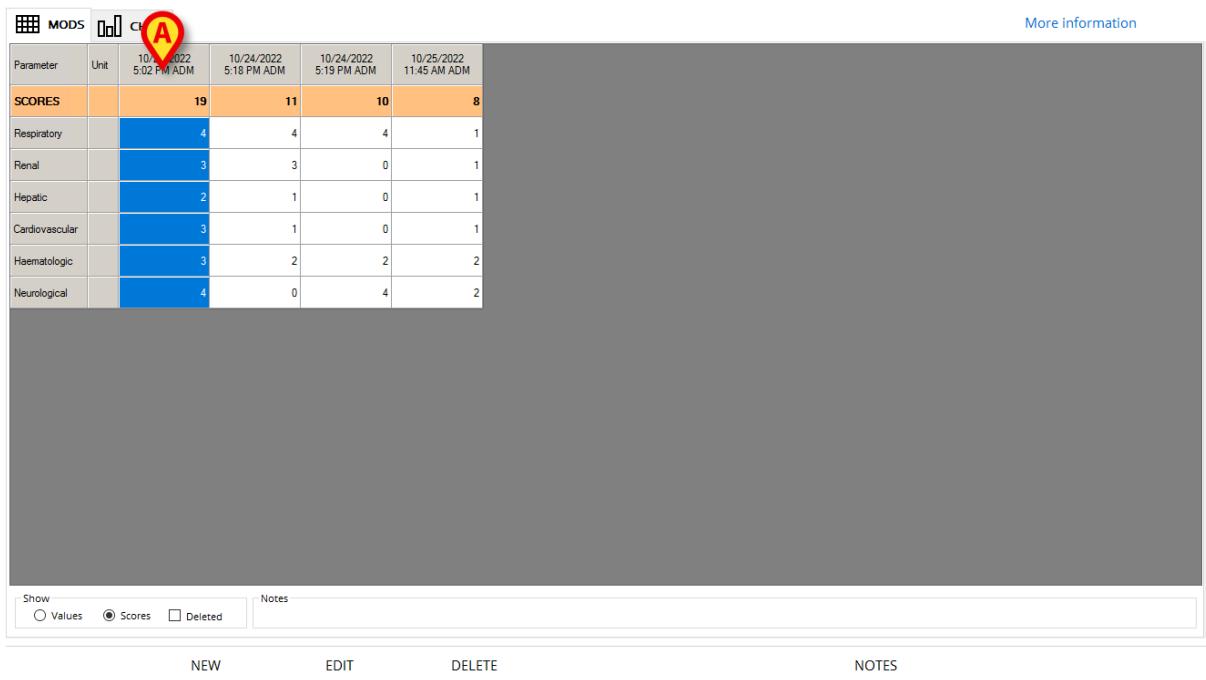
NEW	Use this button to add a new score. The button opens a data entry window. The data entry window is described in paragraph 1.8.1, the related procedures are described in paragraph 1.8.2.
EDIT	Use this button to modify the values of a selected score. See paragraph 1.12.1 for the details on the procedure.
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 40 A).



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 40 - Scores grid

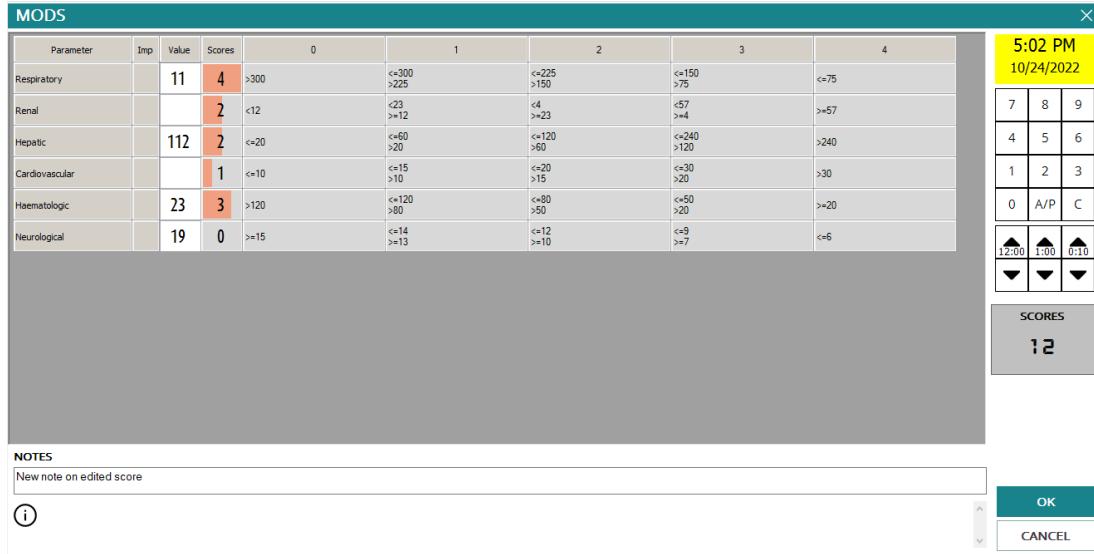
- Click the **Edit** button on the command bar (Fig 41).



SCORING NEW EDIT DELETE NOTES

Fig 41 - Command bar

The corresponding data entry window is displayed (Fig 42).



Parameter	Imp	Value	Scores	0	1	2	3	4
Respiratory		11	4	>300	<=200 >225	<=225	<=150 >75	<=75
Renal			2	<12	<23 >=12	<4	<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	>80	>50	>50 >20	>=20
Neurological		19	0	>=15	<=14 >=13	<=12 >=10	<=9 >=7	<=6

NOTES
New note on edited score

(i)

5:02 PM
10/24/2022

7 8 9
4 5 6
1 2 3
0 A/P C
▲ ▲ ▲
▼ ▼ ▼

SCORES
12

OK CANCEL

Fig 42 - 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 43).

		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 43 - Scores grid

- Click the **DELETE** button on the command bar (Fig 44).

Fig 44 - Command bar

User confirmation is required.

Are you sure you want to delete the current record? X

Please enter the reason for deletion.

This is the reason ...

Yes No

Fig 45 - 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 46).



Fig 46 - 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 47) makes it possible to add notes relating to the patient.



Fig 47 - Command bar

To add a patient note

- Click the **NOTES** button.

The following window opens.

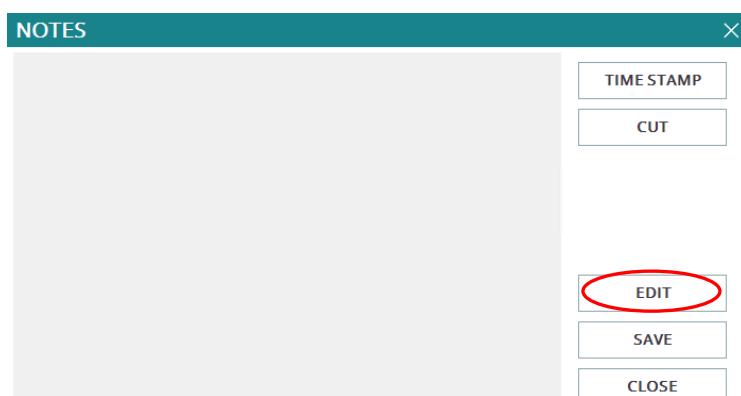


Fig 48 - "Notes" window

- Click the **Edit** button (Fig 48).

The window changes and turns to “edit” mode.

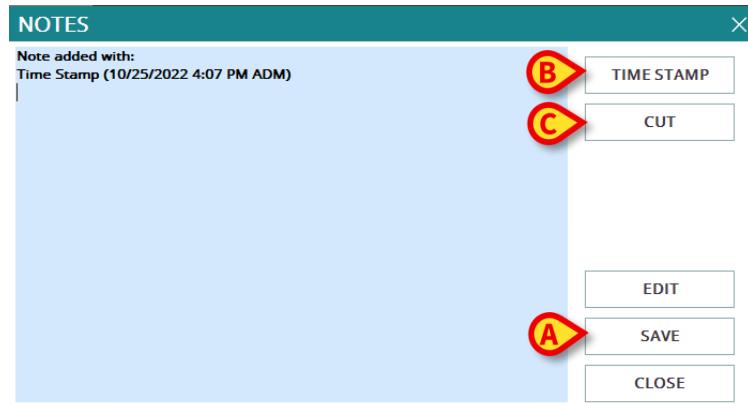


Fig 49 - “Notes” window (edit mode)

- Type the note. The text is displayed in the window.
- Click the **Save** button to save the note (Fig 49 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 49 B) to display the date, time and the acronym of the user who is adding the note (Fig 50).



Fig 50 - Date and time

Use the **Cut** button (Fig 49 C) to cut a selected text portion from the note.
To cut a text portion from a note

- Click the **Edit** button (Fig 48 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 51 A.

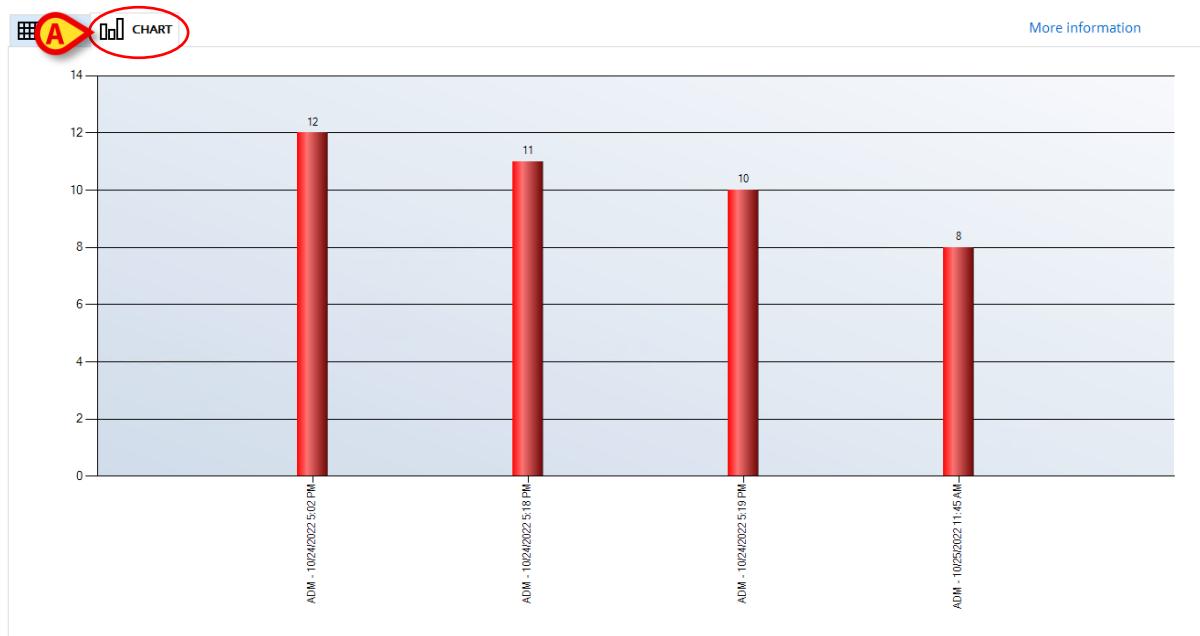


Fig 51 - Grafico

The chart shown in Fig 51 displays the trends of each parameter.