

# **DIGISTAT®** Nutrition

DIGISTAT® Version 4.3



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## 1. Nutrition Calculator

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For general and detailed information about the DIGISTAT<sup>®</sup> environment and the instruction for use of the Control Bar software see the document "DIG UD CBR IU 0005 ENG V01 - Digistat Control Bar User Manual".

The DIGISTAT<sup>®</sup> "Nutrition Calculator" module is a tool that helps creating, managing and prescribing the patient's nutrition plan (either enteral, parenteral or total).

When creating a new nutrition plan the data referring to the previous plan prescribed are displayed. This makes it possible to speed-up the prescription procedure by changing, where necessary, the values of the old plan instead of creating a new plan from scratch.

The patient's nutrition plan, once validated, is automatically added to the patient's general therapy plan and is displayed on the DIGISTAT<sup>®</sup> "Therapy" modules (see the related documentation for further instructions on these modules).

## 1.1. Module selection

To select the "Nutrition Calculator" module

click the corresponding icon on the lateral bar (Fig 1).





The module main screen appears (Fig 2). In Fig 2 no patient is selected. If no patient is selected no data is displayed. If a patient is selected, the selected patient data are displayed.



Fig 2 - Main screen: no patient selected

## **1.2.** Patient search and selection

To select a patient, if you are using for this purpose a DIGISTAT<sup>®</sup> software,

click the **Patient** button on the Control Bar (Fig 2 A)

The DIGISTAT<sup>®</sup> "Patient Explorer" module opens if the module is present in the system in use; otherwise the patient search and selection functions are accomplished by Control Bar. See the related technical documentation to know the specific search and selection procedures.

If the patient search and selection software in use is not a DIGISTAT<sup>®</sup> software see the related documentation.

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If your Healthcare Structure does not use a DIGISTAT<sup>®</sup> software for the patient search and selection procedures, please refer to the specific related documentation.

## 1.3. Main screen description

If a patient is selected the module's main screen displays the information referring to the selected patient (Fig 3).

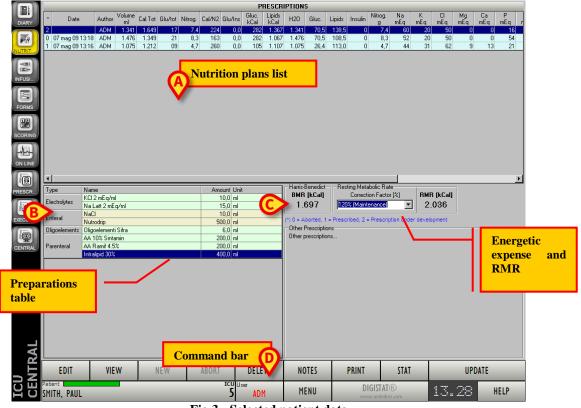


Fig 3 - Selected patient data

The screen is formed of four areas:

- 1) a table summarizing the values of the various nutritional therapy plans of the selected patient (Fig 3 A);
- 2) a table indicating the commercial preparations to use to prepare the selected therapy (Fig 3 B);
- 3) an area making it possible to specify the patient's parameters that enable to calculate the Resting Metabolic Rate value (RMR Fig 3 C); i.e. to choose the correction factor to be applied to the Basal Metabolic Rate.
- 4) a command bar containing the buttons that can be used to use the module's functionalities (Fig 3 **D**).

#### 1.3.1. Nutrition plans list

The table shown in Fig 4 summarizes the values of all the items forming the nutrition plans.

	Date	Author	Volume ml	Cal. Tot	Glu/tot	Nitrog.	Cal/N2	Glu/Ins	Gluc. kCal	Lipids kCal	H20	Gluc.	Lipids	Insulin	Nitrog. g	Na mEg	K mEq	CI mEq	Mg mEq	Ca mEq	P mEq
2		ADM	1.341	1.649	17	7,4	224	0,0	282	1.367	1.341	70,5	138,5	0	7,4	60	20	50	0	0	16
0 07	7 mag 09 13:18	ADM	1.476	1.349	21	8,3	163	0,0	282	1.067	1.476	70,5	108,5	0	8,3	52	20	50	0	0	54
1 07	7 mag 09 13:16	ADM	1.075	1.212	09	4,7	260	0,0	105	1.107	1.075	26,4	113,0	0	4,7	44	31	62	9	13	21

Each row in the table corresponds to a nutrition plan. The columns display the values of the nutritional items forming the plan.

The first column (Fig 5 A) displays a numeric code indicating the nutrition plan status. There are three possible values:

- I means that the nutrition plan is completed and has already been added to the patient treatment plan;
- 2 means that the specification of the nutrition plan is in progress and that it has not yet been added to the patient treatment plan;
- ▶ 0 means that the nutrition plan was aborted.

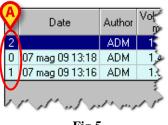


Fig 5

The second column displays the date and time of the nutrition plan creation. The third column displays the acronym of the user who created the nutrition plan.

The other columns display the values of the nutrition plan items specified in the heading (Fig 6, for example, displays a part of the table headings).

Volume ml	Cal.Tot	Glu/tot	Nitrog.	Cal/N2 G
		Fig 6		

A row, when selected, is highlighted blue (Fig 4 A). The values displayed in the area named "commercial preparations table" (Fig 3 B, Fig 7) are the values of the nutrion plan currently selected.

#### 1.3.2. Commercial preparations table

The table indicated in Fig 3 **B** and enlarged in Fig 7 displays the commercial preparations that can be used to prepare the selected nutrition plan. The selected nutrition plan is highlighted blue in the nutritions plan table (Fig 4 **A**).

Туре	Name	Amount	Unit
FI	KCl 2 mEq/ml	10,0	ml
Electrolytes	Na Latt 2 mEq/ml	15,0	ml
Enteral	NaCl	10,0	ml
Enteral	Nutrodrip	500,0	ml
Oligoelements	Oligoelementi Sifra	6,0	ml
	AA 10% Sintamin	200,0	ml
Parenteral	AA Ramif 4.5%	200,0	ml
	Intralipid 30%	400,0	ml

Fig 7 - Commercial preparations table.

Every row of the table displays one of the items that are part of the nutrition plan. The items are grouped by "type". The first column displays the names of the groups: "Electrolytes", "Enteral", "Oligoelements" etc...

The second column displays the names of the items. The third column displays the prescribed quantities. The fourth column displays the unit of measure.

#### 1.3.3. Energetic expense and RMR

The area indicated in Fig 3 C and enlarged in Fig 8 A displays various information.

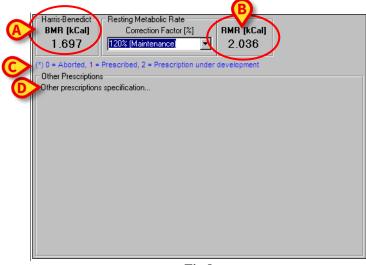


Fig 8

These are:

- the Basal Metabolic Rate (BMR Fig 8 A) calculated by the Harris-Benedict equation;
- the correction factor chosen for the resting metabolic rate calculation, selected on a list of standard values (Fig 9); the resting metabolic rate (RMR Fig 8 B) is the basal metabolic rate (BMR Fig 8 A) multiplied by the selected correction factor;

- a key (Fig 8 C) indicating the meaning of the numeric codes associated to the status of the nutrition plans (described in paragraph 1.3.1).
- the list of possible other prescriptions (Fig 8 **D**) not configured in the system as "standard items"; the "other prescriptions" can be described in a specific window (Fig 25) placed in the "other prescriptions" area (Fig 28).

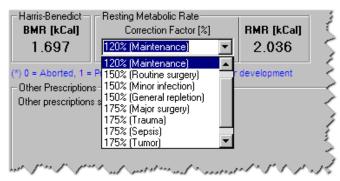


Fig 9 - Types of energetic expense

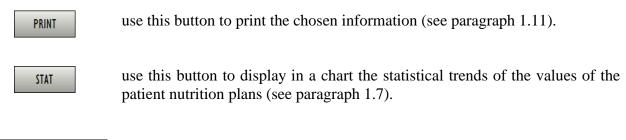
#### **1.3.4.** The command bar

The command bar (Fig 3 **D**, Fig 10) contains the buttons making it possible to perform different actions.

EDIT	VIEW	NEW	ABORT	DELETE	NOTES	PRINT	STAT	UPDATE
			Ι	Fig 10 - Co	mmand Ba	r		

The functions of the different buttons are briefly described in this paragraph. The detailed procedures are described later in specific paragraphs.

EDIT	use this button to change the values of a selected nutrition plan (see paragraph 0 for the procedure).
VIEW	use this button to display the data of a selected nutrition plan. Data are displayed in read-only mode (see paragraph 1.6).
NEW	use this button to create a new nutrition plan for the patient (see paragraph 1.4).
ABORT	use this button to interrupt the administration of a selected nutrition plan (see paragraph 1.8).
DELETE	use this button to delete a selected nutrition plan (see paragraph 1.9).
NOTES	use this button to either add or display patient notes (see paragraph 1.10).



use this button to add a nutrition plan to the patient general therapy plan. After clicking this button the nutritional therapy is actually prescribed. The nutrition plan switches from status 2 to status 1 (see Fig 5 for a list of the possible statuses; see paragraph 1.4.1 for the detailed prescription procedure).

### 1.4. Creating a new nutrition plan

To create a new nutrition plan

UPDATE

click the New button on the command bar(Fig 11 A).



The **New** button is disabled when a nutrition plan in status 2 already exists (status 2 is "nutrition plan in progress" - see Fig 5 for a list of the possible statuses of the nutrition plan).

									PRESCR	IPTION	S									
×	Date	Author	Volume ml	Cal.Tot	Glu/tot	Nitrog.	Cal/N2 Glu/	Ins Gluc. kCal	Lipids kCal	H20	Gluc.	Lipids	Insulin	Nitrog. g	Na mEq	K mEq	CI mEq	Mg mEq	Ca mEq	P mEq r
•																				Þ
Туре	[]	Name					Amount	Unit			Benedict [kCal]	Res	sting Meta Correct	abolic Ra ion Facto		BM	R [kCal]			
										1.3	244				-		0			
											borted, 1 Prescriptio		cribed, 2 =	Prescri	ption und	er devel	opment			
										ouneri	rescriptio	115								
					2															
				_	AL														3	
E	DIT	VI	w (	N	IEW	D	ABORT	DEL	.ETE	NC	TES		PRINT		STAT		(	UP	DATE	
									Fie	_								-	-	

Fig 11

A window making it possible to specify the details of the nutrition plan opens (Fig 12, see paragraph 0 for a detailed description of this window).

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When the new nutrition plan is the first plan created for the patient the window is empty (Fig 12). When there are previous nutrition plans the window contains the data of the latest plan created. This feature makes it possible to use the values of the latest plan instead of creating a new nutrition plan from scratch.

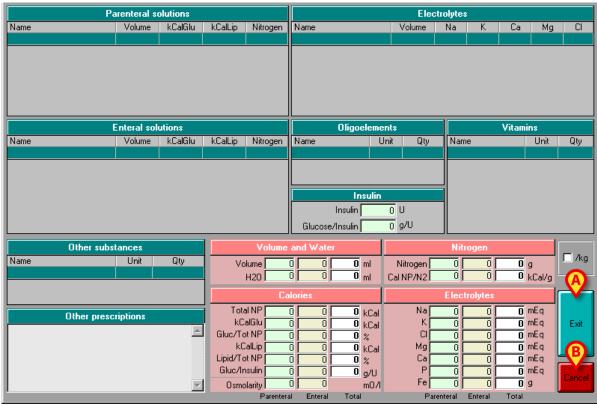


Fig 12 - Nutrition plan specification (empty window)

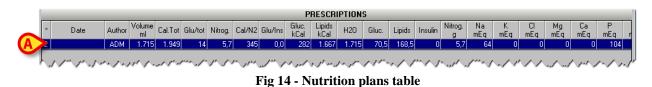
Specify the items and the values of the new nutrition plan (Fig 13).

Pa	arenteral so	olutions				Elec	trolytes				
Name	Volume	kCalGlu	kCalLip	Nitrogen	Name	Volume	Na	K	Ca	Mg	CI
AA Ramif 4.5%	500	0	0	2,21	Esafosfina	100	43,5	0,0	0,0	0,0	0,0
Intralipid 30%	500	0	1.500	0,00	Na Latt 2 mEq/ml	10	20,0	0,0	0,0	0,0	0,0
	Enteral solu	utions			Oligoelem	ents			Vitamin	s	
Name	Volume	kCalGlu	kCalLip	Nitrogen	Name	Unit Qty	Name	•		Unit	Qty
Nutrodrip	500	282	167	3,44	Oligoelementi Sifra	ml	5				
Water	100	0	0	0,00							
					Insulii	n					
					Insulin	20 U					
					Glucose/Insulin	(), g/U					
Other subs	tances			Volume	and Water		Nitro	ogen			
Name	Unit	Qty	Vol	ume 1.11	5 600 <b>1.715</b> ml	Nitrogen	2	3	<b>6</b> g	- 1	🗌 /kg
				H20 1.11	5 600 1.715 ml	Cal NP/N2	679	130	345 k(	Cal/g 📙	
				Ca	lories		Electr	olvtes			
			Tota	INP 1.50	0 449 1.949 kCa	Na	64	0	64 m	Ea	
Other presc	riptions			1	0 282 282 kCa	к	04		04 m		Exit
		۵.	Gluc/To			a a	ŏ		0 m		- LAR
				alLip 1.50					0 m		
			Lipid/To			Ca			0 m		
			Gluc/In	sulin	0 4 <b>4</b> g/U	P	104	0	104 m	Eq 🚺	c
			Osmo	larity 41	2 208 mO/	n Fe			0 9		Cancel
				Parentera	l Enteral Total	Par	enteral B	Enteral	Total		

Fig 13 - Plan specification

Click the Exit button (Fig 13 A).

The window closes. A line is automatically added to the nutrition plans table on the main screen (Fig 14). The new nutrition plan is in status 2, i.e. it is "in progress".



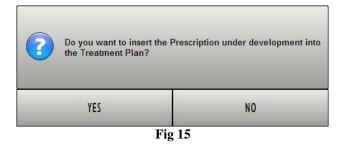
When the plan is in status 2 date and time are not specified. They appear later, when the plan is actually prescribed, indicating the time of the actual prescription.

#### 1.4.1. How to prescribe a nutrition plan

To prescribe a nutrition plan, after the specification of all the items and their corresponding values,

- click the line corresponding to the plan to be prescribed on the nutrition plans table. The plan must be in status 2.
- Click the **Update** button on the command bar (Fig 11 **B**).

User confirmation is required (Fig 15).



Click **Yes** to prescribe the nutrition plan.

A print report listing all the items of the nutrition plan and the exact amounts is automatically created. A print preview is displayed. This document can be transmitted to the pharmacy or used to create the nutrition bag.

> Click the **Close** button on the command bar to close the print preview screen.

The nutrition plan is now prescribed. If the DIGISTAT<sup>®</sup> modules "Therapy Prescription" and "Therapy Execution" are in use, two new items (one for the enteral and one for the parenteral nutrition) are added to the patient's general treatment plan displayed on these modules. See the related documentation for a detailed description of the DIGISTAT<sup>®</sup> "Therapy Prescription" and "Therapy Execution" modules. Two specific messages inform the user about this fact (Fig 16):



Fig 16a/b

When the nutrition plan is prescribed it switches to status 1 (see Fig 5 for a list of the possible nutrition plan statuses).

#### 1.4.2. Nutrition specification window (description)

The window shown in Fig 17 makes it possible to specify in detail all the items that will be part of the patient nutrition plan and the corresponding values.

The present paragraph describes this window.

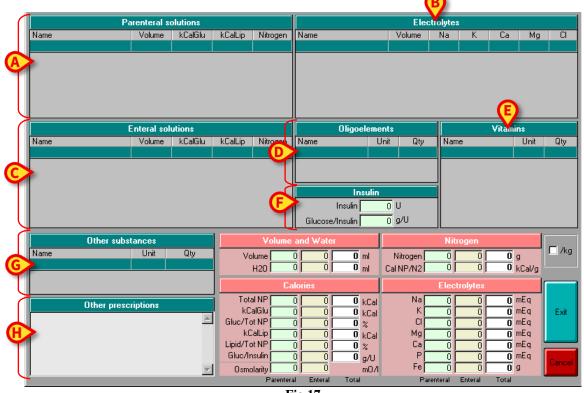


Fig 17

The window is divided into several areas. A heading placed on top of each area informs the user on the kind of nutrition items that are specified in the specific area. The heading is characterized either by the green color (Fig 18)

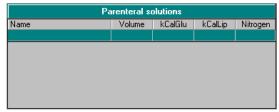


Fig 18

or the pink color (Fig 19).

Volume and Water										
	Volume 0 0 0 ml									
H20	0	0	l 0 <sub>ml</sub>							
	Fig	19								

Use the green areas to specify the items and their values. The pink areas display a summary of the values progressively specified. There are 8 green areas, making it possible to

- specify the quantity and the kind of parenteral solutions to be administered (Fig 17 A);
- specify the quantity and the kind of electrolytes to be administered (Fig 17 **B**);
- specify the quantity and the kind of enteral solutions to be administered (Fig 17 C);
- specify the quantity and the kind of oligoelements to be administered (Fig 17 **D**);
- specify the quantity and the kind of vitamins to be administered (Fig 17 E);
- specify the quantity of insulin to be administered (Fig 17 **F**);
- specify the possible other substances to be administered (Fig 17 G);
- specify (as free text) the possible other prescriptions (Fig 17 H).

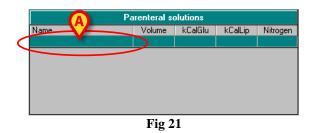
The pink areas (Fig 20) display a summary of all the nutrition plan parameters. The summaries make it possible to display the enteral and the parenteral nutrition separately.

Volume an	d Water	N	itrogen		
		Nitrogen 0		0 g	🗖 /kg
н20 0	0 <b>0</b> ml	Cal NP/N2		0 kCal/g	
Calori	es	Ele	ctrolytes		
Total NP 0	0 0 kCa	Na (		0 mEq	
kCalGlu 0	0 0 kCa			0 mEq	Exit
Gluc/Tot NP 0	0 %			0 mEq	
kCalLip 0	kCa			0 mEq	
Lipid/Tot NP 0		Ca (		0 mEq	
Gluc/Insulin 0	<u> </u>			0 mEq	Cancel
Osmolarity 0	0 m07 Enteral Total	¶ Fe ( Parenteral		0 g Total	

Fig 20

To specify an item of the nutrition plan:

> click, within the relevant area, the "name" cell indicated in Fig 21 A.



An arrow button 🔽 appears. The arrow button 🔽 opens a menu containing all the selectable items. The list of selectable items is created by configuration (Fig 22 A).

	Aentera	l solutions		
Name	Volum	ie kCalGlu	kCalLip	Nitrogen
AA 10% Aminoplasmal AA 10% Sintamin AA Ess 5.4% Monico AA Glamin				
AA Ramif 4.5% AA S Framin distilled water				
Glucose 50% Intralipid 30% Lipofundin MCT 20%				

Fig 22 - Item specification

Click the name of the relevant item.

The name of the item appears in the cell (Fig 23 A). The system assigns default values to the item.

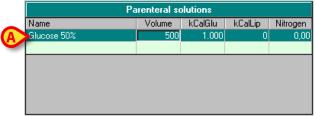


Fig 23

To change the values:

click the value to be changed.

A cursor appears in the corresponding cell.

➤ Type the new value (Fig 24 A).

Parr A al solutions									
Name	, ume	kCalGlu	kCalLip	Nitrogen					
Glucose 50%	400	1.000	0	0,00					

Fig 24

#### Other prescriptions specification

The possible "Other prescriptions" are specified in textual form. To edit the "Other prescriptions" area (Fig 17  $\mathbf{H}$ ) click the area and type the wanted text (Fig 25).

Other prescription	IS
Other Prescriptions 1 Other prescriptions 2	<u>*</u>
Fi~ 25	V

Fig 25

The "Other prescriptions" are displayed on the module's main screen (Fig 3 C, Fig 26).

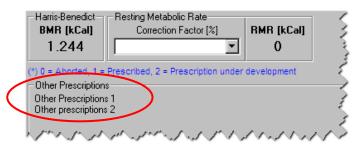


Fig 26 - Other prescriptions

#### Insulin

Use the cell "Insulin" to specify the insulin quantity (Fig 17  $\mathbf{F}$ , Fig 27). Type the needed quantity (in Insulin Units) in the "Insulin" field. The Glucose/Insulin ratio is automatically calculated and displayed below the insulin value.



The summary (pink table) is progressively updated while the different values are specified (Fig 28).

	Parenteral se	olutions				Elec	trolytes		
Name	Volume	kCalGlu	kCalLip	Nitrogen	Name	Volume	Na H	K Ca	Mg Cl
AA Ramif 4.5%	500	0	0	2,21	Esafosfina	100	43,5	0,0 0,0	0,0 0,0
Intralipid 30%	500	0	1.500	0,00	Na Latt 2 mEq/ml	10	20,0	0,0 0,0	0,0 0,0
	Enteral sol	utions			Oligoela	ements		Vitamin	\$
Name	Volume	kCalGlu	kCalLip	Nitrogen	Name	Unit Qty	Name		Unit Qty
Nutrodrip	500	282	167	3,44	Oligoelementi Sifra	ml	5		
Water	100	0	0	0,00					
					Insu	lin			
					Insulin	20 U			
					Glucose/Insulin	(D), g/U			(A)_
Other s	ubstances			Volume	and Water		Nitroge	n	
Name	Unit	Qty	Vo	lume 1.11	5 600 1.715 ml	Nitrogen	2	3 <b>6</b> g	(□ /kg
				H20 1.11			679 1	30 345 ki	Cal/o
				Ca	lories		Electroly		
			Tota	INP 1.50	0 449 <b>1.949</b> kü	°al Na	64	0 64 m	Ea
Other pr	escriptions			1 1.00	0 282 282 k0	sa K			
		<b>A</b>	Gluc/To						
			kC	alLip 1.50					Eq
			Lipid/To		0 37 86 %	Ca		0 0 m	Eq <b></b>
			Gluc/In	sulin 🗍	0 <u>4</u> <b>4</b> g/		104	0 104 m	Eq
		-	Osmo	larity 41		D/I Fe		0 0 9	Cancel
				Parentera	al Enteral Total	Par	enteral Ente	ral Total	
				E	ia 28				

**Fig 28** 

#### "Pro kilo" mode

The checkbox indicated in Fig 28 A makes it possible to display the table values in "pro kilo" mode, i.e. referred to the weight unit. For instance, the values displayed in Fig 29,

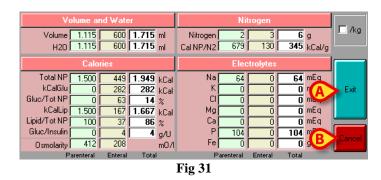
Ve	olume ai	nd ₩ate	F		Ni	trogen			
Volume H20	831 831	510 510	1.341 ml 1.341 ml		4 305	3 130	7 224	g kCal/g	☐ /kg
	Calo	ries			Elec	trolytes			
Total NP	1.200	449	1.649 kC	al Na	30	30	60	mEq	
kCalGlu	0	282	282 kC		20		20	mEq	
Gluc/Tot NP	0	63	17 %	CI	20	30	50	mEq	Exit
kCalLip	1.200	167	1.367 kC	al Mg			1 0	mEq	(E XIG
Lipid/Tot NP	100	37	83 %	Ca			0	mEq	
Gluc/Insulin	0	0	/و <b>0</b>	U P	16		16	mEq	
Osmolarity	610	363	m				0	9	
P	arenteral	Enteral	Total	F	arenteral	Enteral	Total		
				Fig 29					

are displayed in Fig 30 in "pro kilo" mode (the "pro kilo" checkbox is selected).

Vol	ume an	d Water	ſ		Nit	rogen			
Volume	9,2	5,7	14,9 ml	Nitrogen	0,0	0,0	0,1		🗹 /kg
H20	9,2	5,7	14,9 ml	Cal NP/N2	305	130	224	kCal/g	
	Calori	es			Elec	trolytes			
Total NP	13,3	5,0	18,3 kCal	Na	0,3	0,3	0,7	mEq	
kCalGlu 🛛	0,0	3,1	3,1 kCal	K	0,2	0,0	0,2	mEq	
Gluc/Tot NP	0	63	17 %	CI	0,2	0,3	0,6	mEq	Exit
kCalLip 🛛	13,3	1,9	15,2 kCal	Mg	0,0	0,0	0,0	mEq	EXIC
Lipid/Tot NP	100	37	83 %	Ca	0,0	0,0	0,0	mEq	
Gluc/Insulin	0	0	0 g/U	P	0,2	0,0	0,2	mEq	
Osmolarity	610	363	m0/l	Fe	0,0	0,0	0,0	g	
Par	renteral	Enteral	Total	Par	renteral	Enteral	Total		·

#### Exit / Save

Use the Exit button (Fig 31 A) to close the "nutrition specification" window and save the inserted data as "work in progress".



A row is added to the nutrition plans table on the module's main screen (Fig 14). The plan is now in status 2 ("in progress"). See paragraph 1.4.1 for the actual prescription procedure.

Use the Cancel button (Fig 31 B) to close the nutrition specification window without saving the data.

#### 1.4.4. How to delete an item from the nutrition plan

To delete one of the items on the nutrition plan

- click the item to be deleted. The item is this way highlighted.
- Click the Canc button on the PC keyboard.

User confirmation is required (Fig 32).



Fig 32

Click **Yes** to delete the item.

## 1.5. Editing an existing nutrition plan

To edit an already existing nutrition plan, on the nutrition plans table (Fig 33)

click the row corresponding to the plan that must be edited.

								P	RESCRI	PTIONS	6									
* Date	Aut	nor Volume	Cal. Tot	Glu/tot	Nitrog.	Cal/N2	Glu/Ins	Gluc. kCal	Lipids kCal	H20	Gluc.	Lipids	Insulin	Nitrog.	Na mEg	K mEq	CI mEq	Mg mEq	Ca mEq	P mEq
	AD	M 1.34	1.649	17	7,4	224	0,0			1.341	70,5	138,5	0	g 7,4	60	20	50	0		16
07 mag 09 1						163	0,0	282		1.476	70,5				52	20	50	0		54
07 mag 09 1	13:16 AD	M 1.07	5 1.212	09	4,7	260	0,0	105	1.107	1.075	26.4	113.0	0	47	44	31	62	9	13	21
								<b>`</b>			1	Nut	ritio:	<mark>n pla</mark>	ns ta	ible .				
ype	Name						ount Unit				enedict	Res		ibolic Rati		BMR	l [kCal]	7		
	KCI 2 mE Na Latt 2 NaCI					1	5,0 ml 0,0 ml				697				<b>_</b>	·	0			
nteral	Na Latt 2 NaCl Nutrodrip	mEq/ml				1 1 50	5,0 ml 0,0 ml 0,0 ml			(*) 0 = At	ported, 1		ribed, 2 =	Prescrip		·	-			
nteral	Na Latt 2 NaCl Nutrodrip Oligoelerr	mEq/ml enti Sifra				1 1 50	5,0 ml 0,0 ml 0,0 ml 6,0 ml			(*) 0 = At - Other P	ported, 1 Prescripti	ons				·	-			
nteral Iligoelements	Na Latt 2 NaCl Nutrodrip Oligoelen AA 10% 9	mEq/ml entiSifra intamin				1 1 50 20	5,0 ml 0,0 ml 0,0 ml 6,0 ml 0,0 ml			(*) 0 = At - Other P	ported, 1 Prescripti	ons	ribed, 2 =			·	-			
nteral Digoelements	Na Latt 2 NaCl Nutrodrip Oligoelerr	mEq/ml enti Sifra intamin 4.5%				1 50 20 20	5,0 ml 0,0 ml 0,0 ml 6,0 ml			(*) 0 = At - Other P	ported, 1 Prescripti	ons				·	-			
Electrolytes Enteral Digoelements Parenteral	Na Latt 2 NaCl Nutrodrip Oligoelen AA 10% 9 AA Ramif	mEq/ml enti Sifra intamin 4.5%				1 50 20 20	5,0 ml 0,0 ml 0,0 ml 6,0 ml 00,0 ml 00,0 ml			(*) 0 = At - Other P	ported, 1 Prescripti	ons				·	-			
nteral Digoelements	Na Latt 2 NaCl Nutrodrip Oligoelam AA 102 S AA Ramif Intralipid	mEq/ml enti Sifra intamin 4.5%		NEW		11 50 20 20 40	5,0 ml 0,0 ml 0,0 ml 6,0 ml 0,0 ml 0,0 ml 0,0 ml	DELE		(*) 0 = At - Other P Other pi	Ported, 1 Prescription	ons ons spec	ification			er develo	-	UPI	DATE	

The row is highlighted.

Click the Edit button (Fig 33 A).

The **Edit** button is enabled only if the selected therapy is in status 2, i.e. it has not been prescribed yet (Fig 34). A therapy cannot be edited after prescription.



Fig 34

After clicking the **Edit** button the nutrition plan details window opens (Fig 35).

Pa	arenteral sc	olutions					Elec	trolytes	:			
Name	Volume	kCalGlu	kCalLip	Nitrogen	Name		Volume	Na	K	Ca	Mg	CI
AA 10% Sintamin	200	0	0	3,05	KCI 2 mEq		10	0,0	20,0	0,0	0,0	20,0
AA Ramif 4.5%	200	0	0	0,88	Na Latt 2	mEq/ml	15	30,0	0,0	0,0	0,0	0,0
Intralipid 30%	400	0	1.200	0,00								
[	Enteral solu	utions				Oligoelem	ents			Vitamins		
Name	Volume	kCalGlu	kCalLip	Nitrogen	Name		Unit Qty	Nam	ie	U	nit	Qty
NaCl	10	0	0	0,00	Oligoelem	enti Sifra	ml	6				
Nutrodrip	500	282	167	3,44								
						Insulin	1					
						Insulin	0 U					
					Glucose	e/Insulin	0 g/U					
Other subs	tances			Volume	and Wate			Niti	ogen			_
Name	Unit	Qty	Vol	ume 83	510	1.341 ml	Nitrogen	4	3	7 g		/kg
				H20 83	510	1.341 ml	Cal NP/N2	305	130	224 kCa	al/g 🕌	
				Ca	lories			Elect	rolytes			
Other presc	·		Tota	INP 1.20	449	1.649 kCal	Na	30	30	60 mE	q	
· · · · · · · · · · · · · · · · · · ·			kCa	alGlu 🗍 👘	282	282 kCal	К	20	0	20 mE		
Other prescriptions specification	on	4	Gluc/To	t NP 👘 👘	63	17 %		20	30	50 mE	q	Exit
				alLip 🛛 1.20		1.367 kCal	Mg		0	0 mE		(E XIG
			Lipid/To			83 %	Ca			0 mE		
			Gluc/In			0 g/U	P	16	0	16 mE	q	
		~	Osmo			m07		0	0	0 9		
				Parentera		Total	Pare	enteral	Enteral	Total		
				F	ig 35							

- $\blacktriangleright$  Edit the plan items and amounts on the window.
- Click the Exit button (Fig 35 A).

The new values are displayed on the row corresponding to the plan on the nutrition plans table.

## 1.6. How to display the values of a nutrition plan

To display the details of a nutrition plan in "read only" mode, on the nutrition plans table (Fig 33)

- > click the row corresponding to the plan to be displayed. The row is this way highlighted.
- Click the **View** button on the command bar (Fig 33 **B**).

The window displaying the details of the selected plan opens (Fig 35). The window is in read-only mode - i.e. it cannot be edited.

### 1.7. Statistics of nutritional therapy

The "Nutrition calculator" module makes it possible to display in charts the trends of the patient's nutritional values.

To do that

click the Stat button on the command bar (Fig 33 C).

The following window opens (Fig 36).

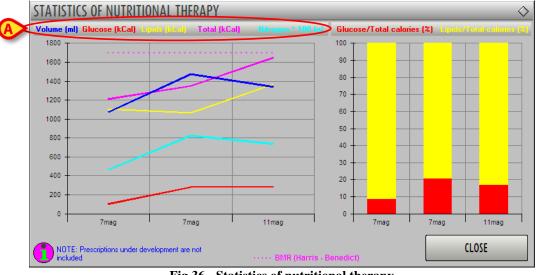


Fig 36 - Statistics of nutritional therapy

The "statistics of nutritional therapy" window offers a visual representation of the trends of the patient's nutrition plans. The window contains two charts. The one on the left (linear) displays the trends of several values separately:

- volume,
- glucose,
- lipids,
- total calories,

• nitrogen.

The color of the line on the chart corresponds to the color used to write the name of the value represented. For example: on the window's heading (Fig 36 A) the word "Volume" is written in blu, therefore the line representing the volume on the chart is blue; the word "Glucose" is written in red and the corresponding line is red etc... The hatched line indicates the Basal Metabolic Rate. On the horizontal axis the different plans are indicated by their date of prescription. The vertical axis displays the different values. The unit of measure is indicated on the window's heading, alongside the names of the represented values.

The chart on the right (histograms) summarizes some meaningful values. Each column represents the 100% of the calories provided to the patient by a specific nutrition plan. The red color indicates the percentage of calories deriving from glucose; the yellow color indicates the percentage of calories deriving from lipids.

## 1.8. How to abort an ongoing nutrition plan

To abort an existing nutrition plan, on the nutrition plans table (Fig 37),

×	Date	Author	Volume ml	Cal.Tot	Glu/tot	Nitrog.	Cal/N2	Glu/Ins	Gluc. kCal	Lipids kCal	H20	Gluc.	Lipids	Insulin	Nitrog. g	Na mEq	K mEq	CI mEq	Mg mEq	Ca mEq	P mEq r
2		ADM	826	779	14	5,3	147	0,0	113	667	826	28,2	67,4	0	5,3	44	10	40	0	0	8
1	11 mag 09 09:38	ADM	1.341	1.649	17	7,4	224	0,0	282	1.367	1.341	70,5	138,5	0	7,4	60	20	50	0	0	16
0	07 mag 09 13:18	ADM	1.476	1.349	21	8,3	163	0,0	282	1.067	1.476	70,5	108,5	0	8,3	52	20	50	0	0	54
1	07 mag 09 13:16	ADM	1.075	1.212	09	4,7	260	0,0	105	1.107	1.075	26,4	113,0	0	4,7	44	31	62	9	13	21
~	James	م من ا	$\sim$	. p. f. l	s ft a	$\sim$	<u></u>		sul?	s.	Jon,	$\sim$	S-1	$\sim$	∧l	$\sim$	w	11.10	$\sim$	m	mn

Fig 37 - Nutrition plans table

> click the row corresponding to the plan to be aborted. The row is this way highlighted.

If the therapy is in status 1 (prescribed), the **Abort** button is enabled on the command bar.

EDIT	VIEW	NEW	ABORT	DELETE	NOTES	PRINT	STAT	UPDATE
			$\smile$	Fig 38 - Co	mmand bar	•		

Click the Abort button (Fig 38). User confirmation is required (Fig 39).

Are you sure you want to p nutrition?	permanently ABORT the current
YES	NO
Fig	39

Click Yes to permanently abort the selected plan. The aborted plan cannot be resumed later.
The aborted plan is still visibile on the nutrition plans table. The corresponding status is 0 (Fig 40).

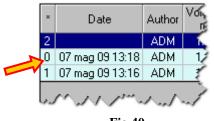


Fig 40

## 1.9. How to delete a nutrition plan

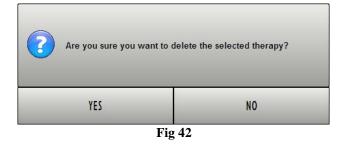
To delete a nutrition plan, on the nutrition plans table (Fig 37),

 $\triangleright$ click the row corresponding to the plan to be deleted. The row is this way highlighted.

The **Delete** button is enabled on the command bar



 $\succ$ Click the **Delete** button. User confirmation is required (Fig 42).



 $\geq$ Click **Yes** to delete the selected nutrition plan. The corresponding row disappears from the nutrition plans table.

The deletion of a plan is always enabled, independently from the plan status.

## 1.10. Patient notes

The Notes button on the command bar (Fig 43) makes it possibile to add notes relating to the patient.



To add a patient note

click the Notes button.

The following window opens.

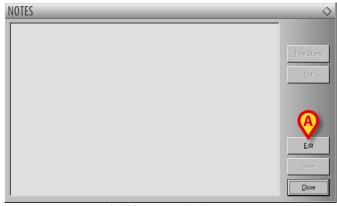


Fig 44 - "Notes" window

Click the **Edit** button (Fig 44 A). The window changes and turns to "edit" mode (Fig 45).

NOTES	$\diamond$
Notes, notes, notes	
	B Iime Stamp
	Edit
	A Save
	Close

Fig 45 - "Notes" window (edit mode)

- > Type the note. The text is displayed in the window.
- Click the **Save** button to save the note (Fig 45 A).

The window closes automatically. The presence of a note is indicated by the color of the button on the command bar, that becomes yellow. Click the button again to display the note again.

Use the **Time Stamp** button on the right (Fig 45 **B**) to display the date, time and the cronym of the user who is adding the note (Fig 46).

NOTES	5
Notes, notes, notes (21/04/2009 17.09 ADM)	
James and a second and a second and a second a s	л£
Fig 46 - Date and time	

Use the Cut button (Fig 45 C) to cut a selected text portion from the note. To cut a text portion from a note

- click the Edit button (Fig 44 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.

i

*The notes inserted this way are visible - after clicking the* **Notes** *button on the command bar - on every DIGISTAT*<sup>®</sup> *module currently in use implementing the* **Notes** *button.* 

## 1.11. Print reports

To create a print report

click the **Print** button on the command bar (Fig 47).



A menu conatining several options opens (Fig 48).

Fo	od List
Patien	it Summary
Nur	se Sheet
PRINT	STAT

**Fig 48 - Print options** 

Each one of the buttons displayed in Fig 48 makes it possible to print a specific kind of documentation. The options shown in the figure are:

- print food list;
- print patient summary;
- print nurse sheet.

Different choices can be enabled by configuration.

> Click the button corresponding to the wanted document.

A print preview is displayed.

## 2. Contacts

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