

# Technology Empowering Clinical Excellence



## **Your Trusted HealthTech Partner**

We're more than a technology provider—we're your partner in delivering safer, smarter care, driven by innovation, guided by deep clinical understanding, and grounded in lasting trust.



# Who we are

**AcuteCare.AI** is a next-generation healthtech company, originally founded in 2017 as **CRITIS MEDICAL SYNERGY IKE** spin-off of the University of Crete, focused on reimagining acute and critical care through AI-powered clinical information systems.

As the leading provider in Greece—trusted by the country's largest public university hospitals—we've proven the impact of our technology where it matters most.

In 2024, we joined forces with **Sievestone LTD** to accelerate our global vision.



## A next-generation Healthtech company

We believe AI and intelligent technologies are reshaping the future of acute care—empowering clinicians with real-time insights, smarter workflows, and more informed decisions. Our goal is bold: to drive a new standard in patient outcomes, safety, and care delivery.

At the core of our innovation is **CritIS Synergy+**, a proprietary software platform purpose-built for operating theatres, anesthesia and intensive care units. It delivers intelligent, integrated solutions—real-time patient monitoring, seamless data capture from medical devices and labs, advanced predictive analytics and insights, automated workflows, comprehensive medical records, medication management, and full interoperability with hospital systems.

Our multidisciplinary team of medical professionals, software engineers, AI experts, and UI/UX designers work at the intersection of critical healthcare and technology—transforming ambitious ideas into impactful solutions. We work side-by-side with healthcare providers to turn complexity into clarity, enhance clinical efficiency, and drive sustainable performance.

At AcuteCare.AI, we lead with innovation, design with simplicity, and deliver with trust—empowering healthcare teams to provide safer, smarter, and more connected care.

## Our vision




Our vision is to reinvent acute care—making the experience of using advanced technology as intuitive, seamless, and empowering as possible for frontline healthcare professionals.

## Our mission



To deliver smarter, faster, and more connected solutions that free up healthcare teams to do what they do best—save lives.



# CritIS Synergy+

CritIS Synergy+ Platform is an advanced, modular Clinical Information System (CIS) / Patient Data Management System (PDMS) that digitizes and modernizes the clinical experience, workflows, administrative management, and data collection in ICUs environment.

## Benefits

- Collection, organization, and real-time monitoring of all patient data (such as vital signs, medication, mechanical ventilation)
- Data analysis, report generation, calculation of indicators, and support for evidence-based and timely clinical decision-making
- Enhancement of healthcare personnel efficiency as well as optimization of healthcare cost management

# CritIS Synergy+ Platform

## CritIS ICU

Built for Complexity. Engineered for Clarity.

## CritIS Anesthesia

Transforming Perioperative Care with Data-Driven Precision

## CritIS Connect

Interoperability and Systems Integration

## CritIS AI Assistant

Enhanced Clinical Decision Support

## CritIS Mobile

Point-of-Care  
Intelligence on the Move

## CritIS Telemedicine

Extend Care Beyond the Hospital Walls

# Our track record



**7**

Hospitals



**10**

ICUs



**110**

Beds



**11,000+**

Health incidents



**1,000+**

Trained doctors & caretakers



**8**

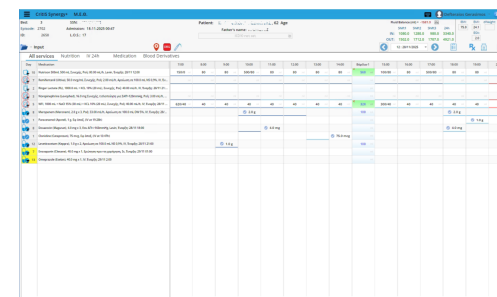
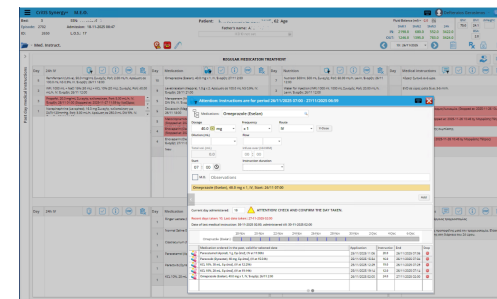
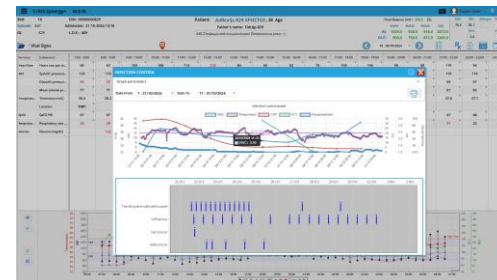
Years in business



# CritIS Synergy+ | ICU

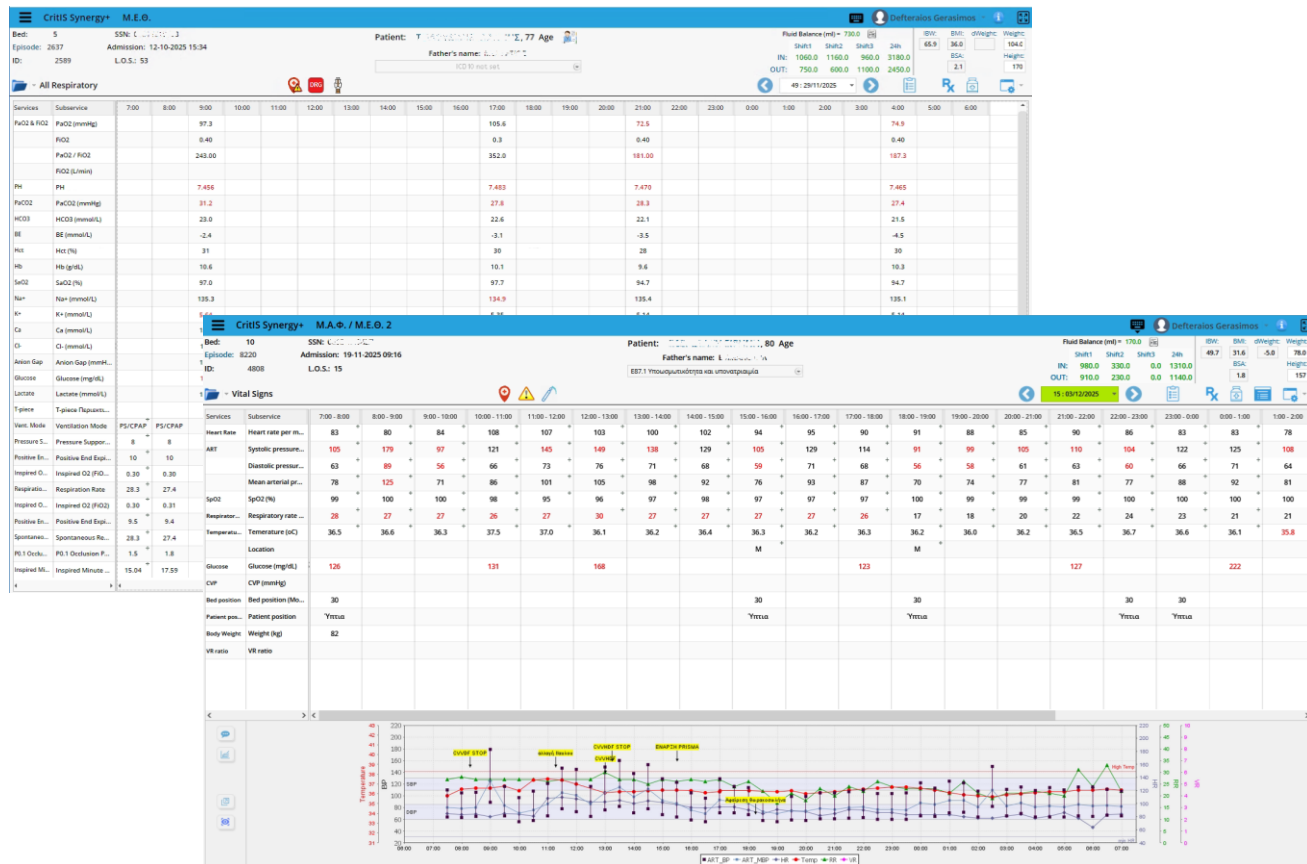
## Key functionalities at a glance

- Continuous data capture from bedside devices, ventilators, infusion pumps, and more
- Time-stamped records of medical interventions, medications, lab results, disease progression, nursing notes, lines/catheters, and pressure ulcers
- Customizable flow sheets tailored to ICU-specific protocols Automatic calculation of critical scores (e.g. APACHE, SOFA, SAPS II, CPIS, MODS, RASS, SID, GFR)
- Medication ordering by active substance with predefined dosage and administration templates
- Automated fluid balance tracking and intelligent fluid management
- Role-based access and tools tailored for physicians, nurses, and therapists
- Centralized patient information accessible through any web browser
- Fully adaptable to the needs of different ICUs and user roles
- HL7 compliant communication with LIS, HIS, RIS systems
- Fully compliant with EU and national regulations on data security and medical software



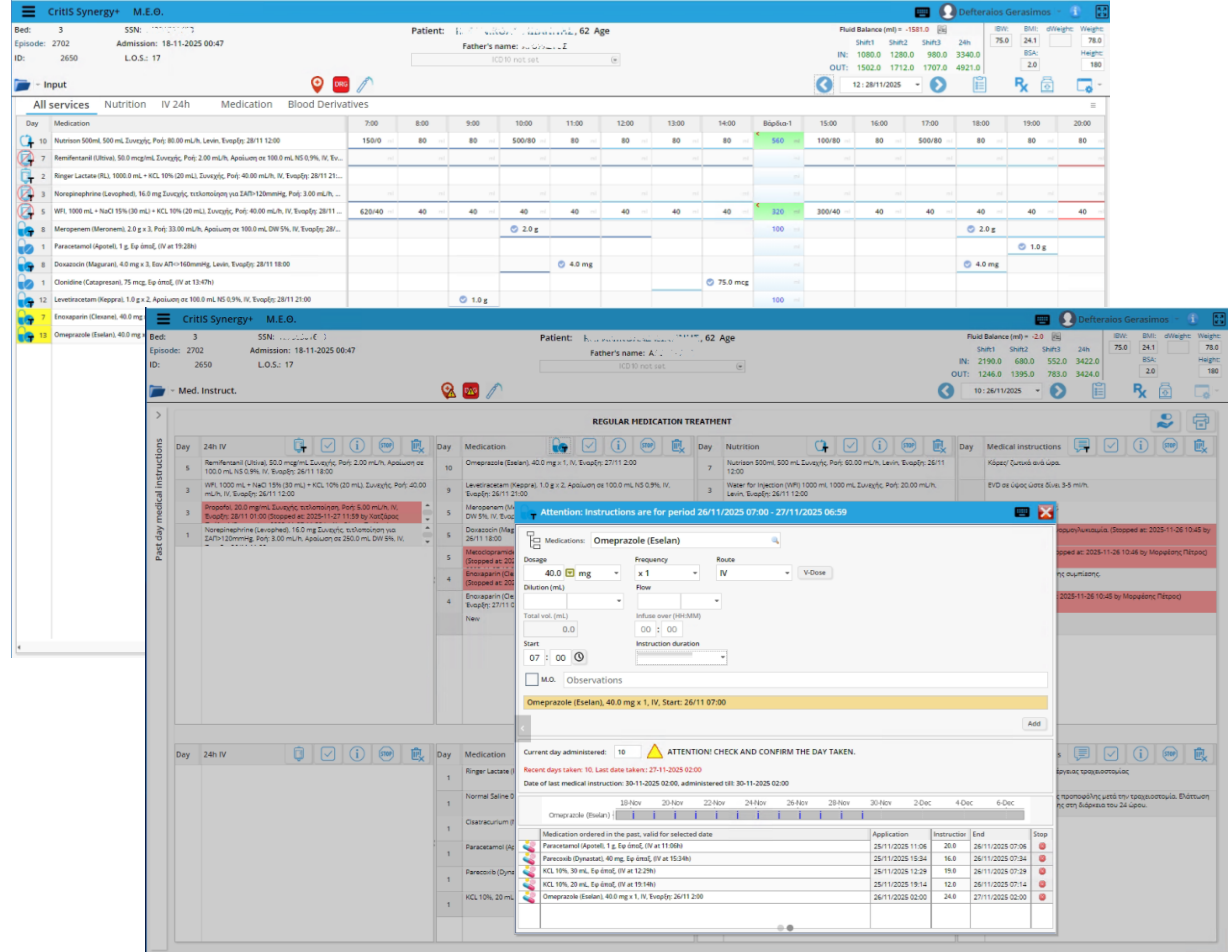
## Flow sheets

- Live updates of vital signs and key clinical parameters
- Automatic or manual documentation from 1 minute to 24 hours
- Visual indication of out-of-range measurements
- Customizable flow sheets tailored to ICU-specific protocols
- Automatic calculation of critical scores
- Automated fluid balance tracking
- User-friendly navigation and integration of various display views



## Instructions and drug therapy management

- Orders for IV infusions, medications, nutrition, and general instructions to medical and nursing staff
- Prescription based on active substance and dosage specification
- Copying of previous orders
- Automated visualization of administration time and duration
- Detailed documentation of additional information and comments
- Automatic display of new orders in the corresponding flowchart
- Barcode functionality for administration confirmation



The screenshot displays the CritIS Synergy M.E.O. interface for patient management. The top section shows patient information: Bed 3, SSN, Episode 2702, ID 2650, Admission 18-11-2025 00:47, L.O.S.: 17, Patient: 62 Age, Father's name: A., and various fluid balance and vital signs.

The main interface is divided into several tabs: All services, Nutrition, IV 24h, Medication, and Blood Derivatives. The Medication tab is active, showing a list of medications and their administration times. A detailed view of the medication treatment is shown, including a table of medications and their administration times.

A pop-up window titled "Attention: Instructions are for period 2025-11-2025 07:00 - 27/11/2025 06:59" displays medication details for Omeprazole (Eselan). The window includes fields for Dosage (40.0 mg), Frequency (x 1), Route (IV), and V.Dose. It also shows a table of medication orders with columns for Application, Instruction, End, and Stop.

Medication	Application	Instruction	End	Stop
Paracetamol (Apivert)	25/11/2025 11:06	20.0	26/11/2025 07:06	
Paracetamol (Dysanet)	25/11/2025 15:24	16.0	26/11/2025 07:34	
KCL 10% 10 mL	25/11/2025 12:29	10.0	26/11/2025 07:29	
KCL 10% 20 mL	25/11/2025 19:14	12.0	26/11/2025 07:14	
Omeprazole (Eselan)	26/11/2025 02:00	24.0	27/11/2025 02:00	



## Laboratory Data and Medical Equipment

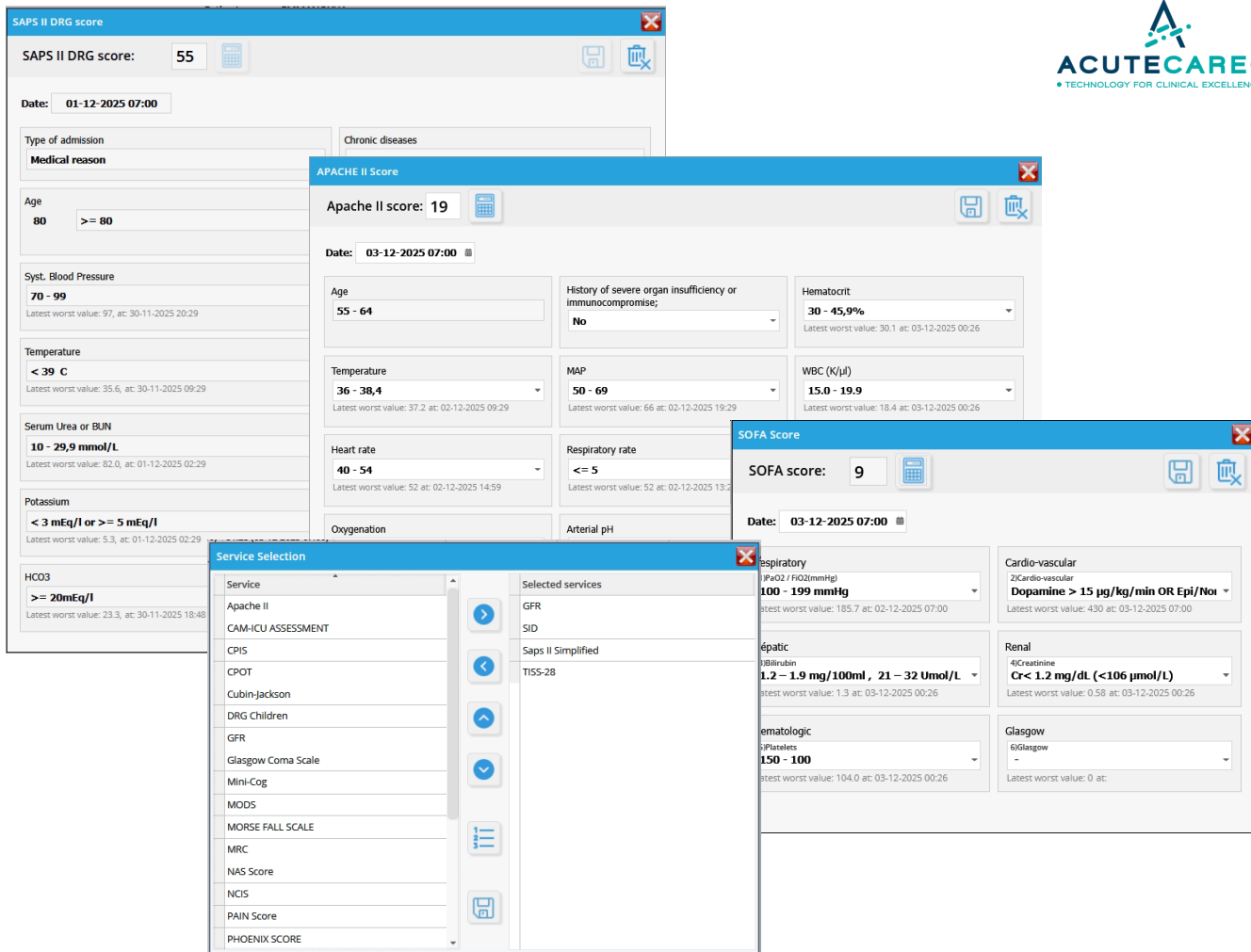
- Data collection from monitoring systems, ventilators, infusion pumps, etc.
- Continuous updating of vital signs
- Integration with Laboratory Information System (LIS)
- Automatic, real-time updating and recording of results
- Smart charts for clinical condition monitoring (e.g. infections, glucose, kidney function) with time-stamped data



# CritIS ICU

## Calculation of clinical indicators

- Calculation of multiple clinical scores and indicators : GCS, APACHE II, CPIS, MODS, SAPS II, CAM-ICU, NCIS, RASS, CPOT, SID, SOFA, MRC, PRE-DELIRIC, SAPS II Simplified, GFR, etc.
- Retrospective calculation of clinical scores
- Ability to define indicator groups
- Color-coded alerts for pending data entries



The screenshot displays the CritIS ICU software interface with several overlapping windows for calculating clinical scores and indicators.

**SAPS II DRG score window:**

- SAPS II DRG score: 55
- Date: 01-12-2025 07:00
- Type of admission: Medical reason
- Chronic diseases: (empty field)
- Age: 80, >= 80
- Syst. Blood Pressure: 70 - 99, Latest worst value: 97, at: 30-11-2025 20:29
- Temperature: < 39 °C, Latest worst value: 35.6, at: 30-11-2025 09:29
- Serum Urea or BUN: 10 - 29.9 mmol/L, Latest worst value: 82.0, at: 01-12-2025 02:29
- Potassium: < 3 mEq/l or >= 5 mEq/l, Latest worst value: 5.3, at: 01-12-2025 02:29
- HCO3: >= 20mEq/l, Latest worst value: 23.3, at: 30-11-2025 18:48

**APACHE II Score window:**

- Apache II score: 19
- Date: 03-12-2025 07:00
- Age: 55 - 64
- History of severe organ insufficiency or immunocompromise: No
- Temperature: 36 - 38.4, Latest worst value: 37.2, at: 02-12-2025 09:29
- MAP: 50 - 69, Latest worst value: 66, at: 02-12-2025 19:29
- Heart rate: 40 - 54, Latest worst value: 52, at: 02-12-2025 14:59
- Respiratory rate: <= 5, Latest worst value: 52, at: 02-12-2025 13:29
- Oxygenation: (empty field)
- Arterial pH: (empty field)
- Hematocrit: 30 - 45.9%, Latest worst value: 30.1, at: 03-12-2025 00:26
- WBC (K/μl): 15.0 - 19.9, Latest worst value: 18.4, at: 03-12-2025 00:26

**SOFA Score window:**

- SOFA score: 9
- Date: 03-12-2025 07:00
- Respiratory: P/FiO2 / FIO2(mmHg): 100 - 199 mmHg, Latest worst value: 185.7, at: 02-12-2025 07:00
- Cardio-vascular: 2/ Cardio-vascular: Dopamine > 15 µg/kg/min OR Epi/Noi, Latest worst value: 430, at: 03-12-2025 07:00
- épatique: Bilirubin: 1.2 - 1.9 mg/100ml, 21 - 32 Umol/L, Latest worst value: 1.3, at: 03-12-2025 00:26
- Renal: 4/Creatinine: Cr< 1.2 mg/dL (<106 µmol/L), Latest worst value: 0.58, at: 03-12-2025 00:26
- ematologic: Platelets: 150 - 100, Latest worst value: 104.0, at: 03-12-2025 00:26
- Glasgow: 6/Glasgow: -, Latest worst value: 0, at: (empty field)

**Service Selection window:**

- Service: Apache II, CAM-ICU ASSESSMENT, CPIS, CPOT, Cubin-Jackson, DRG Children, GFR, Glasgow Coma Scale, Mini-Cog, MODS, MORSE FALL SCALE, MRC, NAS Score, NCIS, PAIN Score, PHOENIX SCORE
- Selected services: GFR, SID, Saps II Simplified, TISS-28

## Pressure ulcers care

- Documentation and monitoring of pressure ulcers
- Recording of treatment methods
- Replicating of pressure ulcer records from the previous day
- Ability to store and display photographs

**CritIS Synergy+ M.A.Φ. / M.E.Θ. 2**

Bed: 0 SSN: Patient: TEST\_PATIENT TEST, 55 Age  
 Episode: 4808 Admission: 25-05-2021 14:11 Father's name: TEST  
 ID: 295 L.O.S.: 1468 ICD10 not set

Fluid Balance (ml) = 0.0  
 Shift 1 Shift 2 Shift 3 24h IN: 0.0 0.0 0.0 0.0 1342 0.5 134.0  
 OUT: 0.0 0.0 0.0 0.0 0. Rh+ 11.6 1580

1468 31/05/2025

**Wounds**

Stage 1 Stage 2 Stage 3 Stage 4 Unstageable  
 Wound Care Monitor Markings Rep Tissue Mark

Wound ID	Stage	Treatment	Treatment Date
1	Stage 2	<input checked="" type="checkbox"/>	05/31/25 13:37 PUSH 3.0
2	Stage 1	<input checked="" type="checkbox"/>	05/31/25 13:38 PUSH 3.0
3	Stage 1	<input type="checkbox"/>	05/31/25 13:41 PUSH 3.0

Copy wounds from yesterday  
 Display info

Details for selected pressure ulcer  
 Date & Time: 05/31/25 13:37

☐ V.A.C. ☐ Autologous  
 Patch  
 Cleaning Dermacyn/N/S 0.9%

Show all images  
 File name  
 C0945383-Bedsores\_copy original max-600x600.jpg

Locate & Upload Image file...

# CritIS ICU

## Catheter Care

- Recording of catheter insertion, replacement, and removal
- Ability to document additional details: insertion site and catheter size
- CLABSI score monitoring
- Management of catheter dressings
- Automated reminders for catheter changes – with audio and visual alerts

**CritIS Synergy+ M.A.Φ. / M.E.Θ. 2**

Bed: 4 SSN: 1111111111 Patient: ΔΕΛΤΑΝΙΟΥ ΓΙΩΡΓΟΣ, 59 Age  
 Episode: 8224 Admission: 20-11-2025 12:10 Father's name: ΔΕΛΤΑΝΙΟΥ  
 ID: 7322 L.O.S.: 14 [96.01 Όλγια αναπνευστική ανεπάρκεια, που δεν ταξινομείται α.]

Fluid Balance (ml) • 1183.0  
 Shift1 Shift2 Shift3 24h  
 IN: 1995.0 648.0 0.0 2643.0  
 OUT: 1140.0 320.0 0.0 1460.0  
 ISW: 69.6 BML: 18.3 dWeight: 55.5  
 BSA: 1.7 Height: 174

14-03/12/2025

**Catheters**

Date: 03-12-2025 Time: 17:42

**Catheter Type**

- Levin
- Αρτηρ. Καθετήρας (AK)
- Αρτηρ. Καθετήρας Picco (AK)
- Κεντρ. Φλεβ. Καθετ. (ΚΦΚ) Δίαιλος (II)
- Κεντρ. Φλεβ. Καθετ. (ΚΦΚ) Τρίαιλος(III)
- Κεντρ. Φλεβ. Καθετ. (ΚΦΚ) Τρίαιλος(III)+ SVO2
- Θηκάρι - Βηματοδότης
- SWAN\_GANZ
- Περιφερειακός Φλεβικός
- MidLine
- Ενδοκρ. Καθετ. Ενδοπαρεγχυματικός
- Κούλοστομία
- Lumbar drain
- Electrical

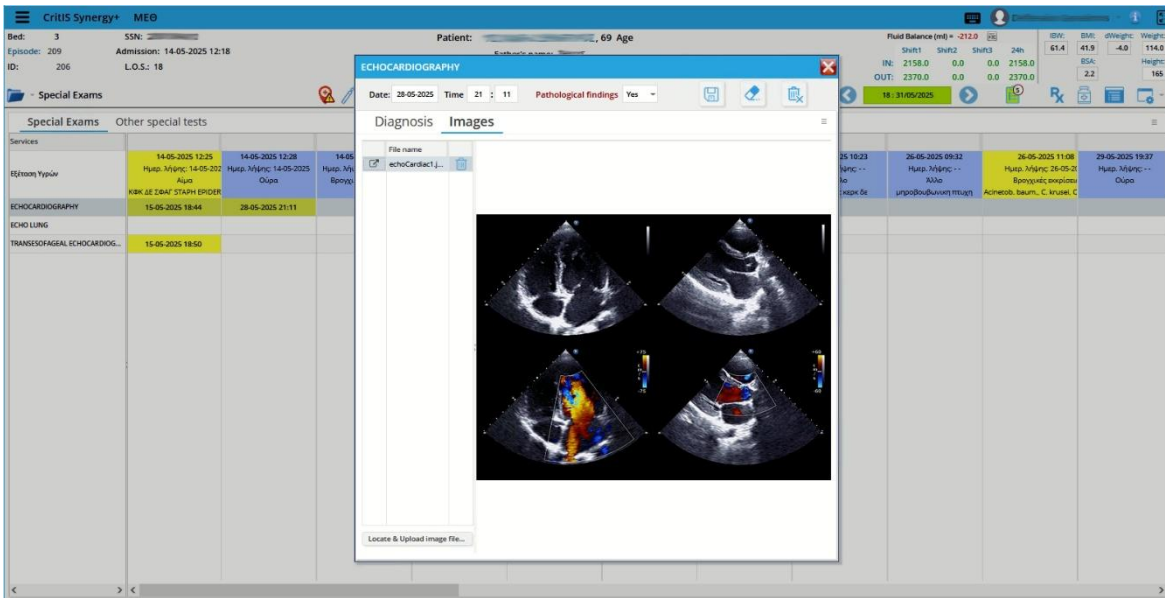
**Catheters information**

Application Date: Catheter Type: Clear fields  
 Removal Date: Active Catheters Search

#	Insertion	Removal	Catheter Name	Catheters	Days	Change/Removal reason	CLABSI	Patch
1	20-11-2025 13:12	30-11-2025 14:24	Αρτηρ. Καθετήρας (AK)	AK-KEP-A	10	Δυσλειτουργία Καθετήρα	CLABSI	Patch
2	20-11-2025 13:12	20-11-2025 16:46	Κεντρ. Φλεβ. Καθετ. (ΚΦΚ) Τρίαιλος(III)	III-MHP-Δ	0	Μηχαλίκι Καθετήρα	CLABSI	Patch
3	20-11-2025 13:12		Ουροκαθετήρας	OUP-16F	14			
4	20-11-2025 14:05	29-11-2025 09:30	Levin	LEV-ΠAP-M/ση - ΔS-16F-100	8	Αποχηματική αφαίρεση		
5	20-11-2025 14:24	03-12-2025 12:00	Αρτηρ. Καθετήρας (AK)	AK-KEP-A	12	Αύξηση δείκτη εν φλεγμονής αιμοδυναμ.	CLABSI	Patch
6	20-11-2025 16:45	03-12-2025 12:30	Κεντρ. Φλεβ. Καθετ. (ΚΦΚ) Τρίαιλος(III)	III-ΣΦΑ-A	12	Αύξηση δείκτη εν φλεγμονής αιμοδυναμ.	CLABSI	Patch
7	29-11-2025 10:30		Feeding tube	FT-Δ	5			
8	30-11-2025 14:24	30-11-2025 14:26	Αρτηρ. Καθετήρας (AK)	AK-BPA-Δ	0	Άλλο	CLABSI	Patch
9	03-12-2025 06:35		Αρτηρ. Καθετήρας (AK)	AK-KEP-Δ	1		CLABSI	Patch
10	03-12-2025 06:35		Κεντρ. Φλεβ. Καθετ. (ΚΦΚ) Τρίαιλος(III)	III-ΣΦΑ-Δ	1		CLABSI	Patch

## Special Tests management

- Recording of results and diagnoses from specialized examinations
- Visual indication of abnormal findings



## Medical & Nursing record management

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- ACUTECARE.ai  
• TECHNOLOGY FOR CLINICAL EXCELLENCE •

[illegible]

## DRG management

- Management of diagnoses (ICD-10 GrM)
- Management of medical procedures
- Automatic calculation of Mechanical Ventilation Duration
- Automatic calculation of intensive care scoring for complex ICU care

**CritIS Synergy** M.A.Φ. / M.E.Θ. 2

Bed: 4 SSN: 1226713 Patient: **ΠΑΝΑΓΙΩΤΗΣ ΠΑΠΑΔΟΠΟΥΛΟΣ, 59 Age** Fluid Balance (ml) = 1183.0  
 Episode: 8224 Admission: 20-11-2025 12:10 Father's name: **ΠΑΝΑΓΙΩΤΗΣ** IN: 1995.0 SKIN2: 648.0 SKIN3: 240 BSA: 69.6 BMI: 18.3 Weight: 55.3  
 ID: 7322 L.O.S: 14 [96.01 Οξεία αναπνευστική ανεπάρκεια, που δεν ταξινομείται α] OUT: 1140.0 320.0 0.0 1460.0 Height: 174

14: 03/12/2025

**Episode info**

General info Medical history Illness progress Consultant doctors' diagnosis Discharge info Discharge Clinical Trials Overview **DRGs**

**ICD-10GrM** Primary Secondary

Select diagnosis

Save

Code	Description	Prima	OTI
J96.01	Οξεία αναπνευστική ανεπάρκεια, που δεν ταξινομείται αλλού Τύπου II (μπαρναβία)	✓	✓

MV duration ( 260 Hours) 260

Day	Service	Status	Value
20-11-2025 14:00	Peep - A/C (cmH <sub>2</sub> O)		15
20-11-2025 14:00	VT - Όγκος		410
20-11-2025 15:00	Peep - A/C (cmH <sub>2</sub> O)		15
20-11-2025 15:00	VT - Όγκος		438
20-11-2025 17:00	Peep - A/C (cmH <sub>2</sub> O)		15
20-11-2025 17:00	VT - Όγκος		413
20-11-2025 21:00	Peep - A/C (cmH <sub>2</sub> O)		15
20-11-2025 21:00	VT - Όγκος		402
20-11-2025 22:00	Peep - A/C (cmH <sub>2</sub> O)		13
21-11-2025 01:00	Peep - A/C (cmH <sub>2</sub> O)		13

**Greek Classification of Medical Procedures**

Select diagnosis

Save

Code	Description	Application	Date	OTI
331.01.00	Παροδική τραχειοστομία: Τραχειοστομία		03-12-2025 11:44	
583.01.00	Τοποθέτηση και αντικατάσταση κεντρικής φλεβικής γραμμής: Τοποθέτηση		03-12-2025 06:35	
570.01	Απλή ενδοτραχειακή διασωλήνωση		01-12-2025 13:52	
570.01	Απλή ενδοτραχειακή διασωλήνωση		25-11-2025 21:59	
583.01.00	Τοποθέτηση και αντικατάσταση κεντρικής φλεβικής γραμμής: Τοποθέτηση		20-11-2025 16:45	
583.01.00	Τοποθέτηση και αντικατάσταση κεντρικής φλεβικής γραμμής: Τοποθέτηση		20-11-2025 13:12	
570.01	Απλή ενδοτραχειακή διασωλήνωση		20-11-2025 13:12	
583.01.00	Τοποθέτηση και αντικατάσταση κεντρικής φλεβικής γραμμής: Τοποθέτηση		11-11-2025 00:00	✓

# CritIS ICU

Management of nursing forms (Greek National Organization for the Provision of Health Services - ODIPY)

- Blood transfusion form
- Fall incident report form
- Receipt of valuables form
- Recording of resistant microorganisms
- Bed positioning checklist
- Equipment inspection record

The screenshot displays the CritIS Synergy+ software interface, which is used for managing nursing forms. The top section shows patient information: Patient ID 8234, SSN 7347, Admission Date 25-11-2025 11:43, and Father's name. The interface is divided into several sections:

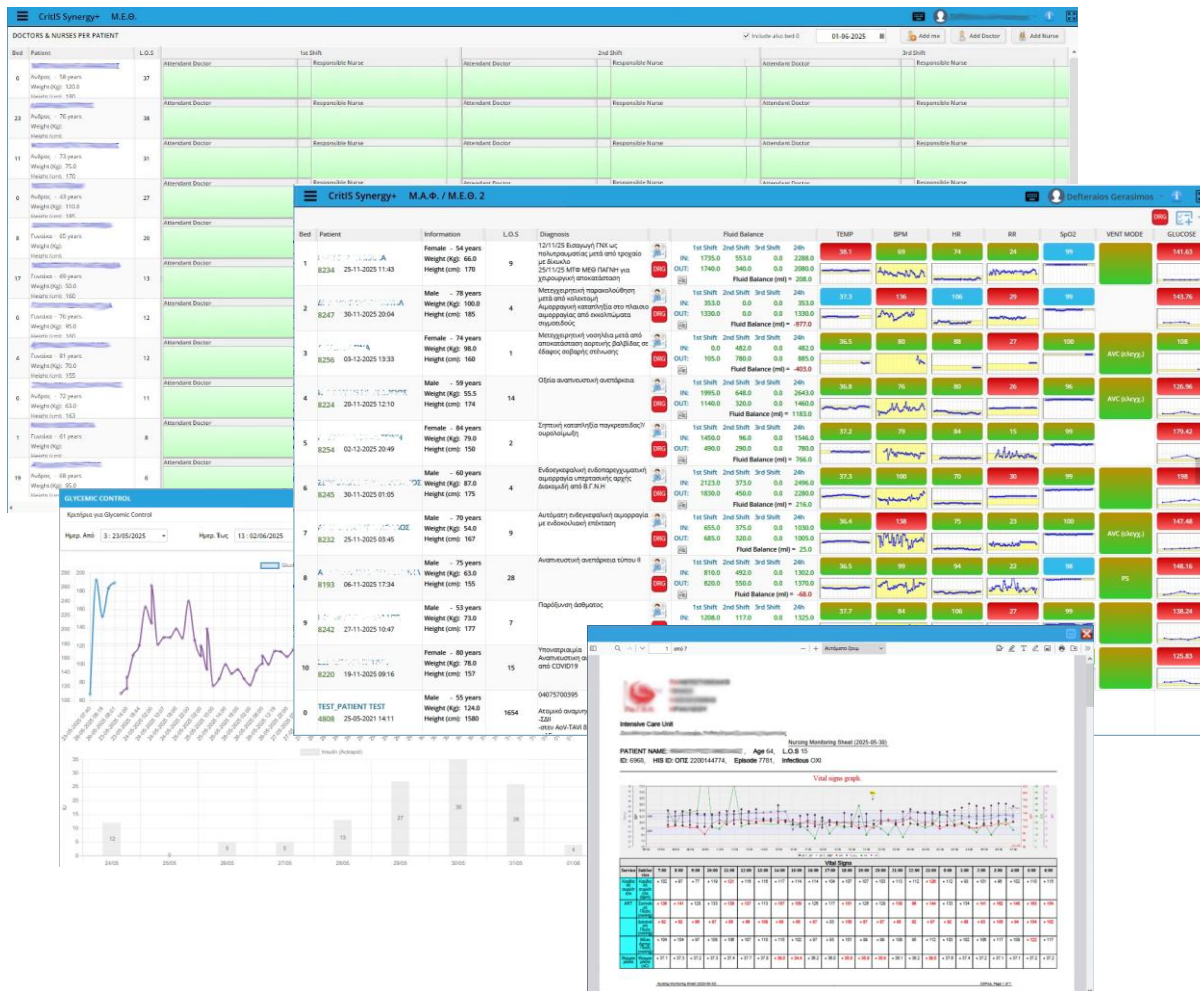
- Nursing observations:** Includes a date/time selector (03-12-2025, 18:03) and a dropdown menu for selecting completed forms.
- Transferred Blood or Blood Product:** A section for recording transfusion details, including the number of units, date, and time.
- Symptoms and Clinical Reactions:** A table for recording symptoms (Fever, Chills, Rash, etc.) and clinical reactions (Fever, Loss of urine, etc.) during the transfusion.
- Seriousness of Reaction:** A section for recording the seriousness of the reaction (Degree I, II, III, IV) and the corresponding symptoms.
- Tackling Treatment:** A section for recording the treatment administered for the reaction.

Below the main form, there is a section for recording resistant microorganisms, showing a list of patients and their associated microorganisms. The bottom part of the interface displays a patient room layout diagram (MEΘ 2) with numbered beds (1-11) and a central area labeled "Χώρος νοσηλείας" (Nursing area). A legend at the bottom explains the abbreviations used for resistant microorganisms: P (Pseudomonas aeruginosa), K (Klebsiella pneumoniae), E (E. Coli), A (Acinetobacter), VRE (Vancomycin-resistant Enterococcus), MRSA (Methicillin-Resistant Staphylococcus aureus), C (Candida auris), and C. diff (Clostridium difficile).



## Other features

- Staff scheduling per shift
- Comprehensive patient monitoring
- Management of outpatient clinical assessments
- Recording of billable medical supplies
- Data export in printed and electronic formats
- Multilingual environment
- Complete and secure history of all system activities (audit trail)



# Application configuration and management

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# CritIS ICU

## Advanced Clinical Data Information System (ICU, Pediatric ICU, and Neonatal ICU)

CritIS ICU brings accuracy, flexibility, and intelligence to the intensive care environment—ensuring that medical and nursing staff have the right data, at the right time, to deliver high-quality care.



## Benefits

1

### Healthcare professionals

- Immediate access to patient data and medical records at the point of care
- Assists clinical decisions-making through real-time data and alerts
- Reduced errors in documentation and medication prescribing
- Improved coordination among medical and nursing staff

3

### Patients

- Reduced risk of errors and faster diagnosis/intervention
- Data-driven decision-making, and interventions based on high-quality clinical information
- Better outcomes through standardized care and protocol adherence
- Increased safety, especially in complex multi-organ conditions

2

### Nursing personnel

- Automated workflows for documentation, medication administration, and task monitoring
- Continuous recording of measurements from medical equipment
- Clear and up-to-date overview of the patient's condition
- Smoother shift changes and improved continuity of care

4

### Hospital Administration

- Optimized ICU resource utilization and reduced length of stay
- Improved compliance; support for DRG-based reimbursement
- Strong foundation for research, auditing, and quality improvement
- Enhanced communication and continuity of care across departments and shifts
- Lower costs, minimized errors, and efficient care delivery



# CritIS Synergy+ | Anesthesia

## Functional features at a glance

### Preoperative Assessment

- Complete electronic documentation and organization of preoperative data
- Somatometric measurements, medical and surgical history, ASA & Mallampati score
- Digitally signed consent forms

### Intraoperative management

- Safety checklists and monitoring equipment registration
- Airway management, intubation method, and type of anesthesia
- Automatic data acquisition from devices for vitals, gases, ventilation, ABGs
- Anesthesia protocols, checklists, incident/event logging, and catheter/line tracking

### Postoperative Recovery (PACU)

- Automatic data retrieval from monitoring and ventilation devices
- Documentation of catheters/lines, medications, administered/removed fluids



# CritIS Anesthesia

## Preoperative Assessment

- Anthropometric data
- Diagnosis and planned intervention
- Previous surgeries & anesthetics
- Allergies
- Pharmacotherapy
- Clinical assessment per system
- Mallampati score, Upper lip test
- Laboratory tests
- Anesthesia consent

**CritIS Anesthesia**

Preoperative screening | Operating theatre | Resuscitation

Patient search | Order By: Alphabetically

Patient search | Order By: Alphabetically

Patient search | Order By: Alphabetically

**BPETTOE IOANNINI**  
DOB: 23-10-1973 - 52 Age  
SSN: 2310730789  
ID: 45665  
Weight (kg): 80.0  
DOB: Episode: 4  
Status: Pre-Anesthesia Check

**Pre-Anesthesia Check**

- Pre-anesthetic Patient Condition
- US exams
- Consent of Anesthesia
- Print

**Anticipated operation**  
Xoloxomontop

**Anesthesiologist**  
Surgeon  
Nurse  
Test nurse C

**Previous Operations**  
Date Previous Surgeries Previous Anesthesia Comments

**Reason of Admission ICD10**  
Code Description  
K81.0 Oligo cholestasis

**Anticipated operation (Classification)**  
Description: Xoloxomontop na xoloxomontop, xoloxomontop, anoxia xoloxomontop  
Application place

**Allergies**  
Allergy Adverse Reaction Comments  
\*IgG1 xagmoli Anaphylaxis

**Medications**  
Active Substance Dosage Units Frequency Route

**General info**  
Urti COPD Cough  
Obstructive Sleep Yes No  
Spirometry Good Bad Medio  
COPD Yes No Chest X-RAY  
Smoker Yes No White  
Yes of Smoking Quit Yes Age

**Mallampati Score** 1 2 3 4  
Upper lip bite test 1 2 3 4  
Mouth Opening (Fingerbreadths)  
Dentures Yes No  
Facial hair Marked Obesity Micrognathia

**Hemophilia Sickle Cell**  
Substance Abuse Chemo/RX Dehydration  
MS Cancer Anemia  
Bleeding Disorder Immunosuppressed

**Renal/Endocrine**  
Normal Unnormal  
Thyroid Prostate Issues BPH  
Weight Loss/Gain Renal Failure  
Urinary Retention Recent Steroids  
NIDDM Insulin  
IDDM UTI

**Hematological**  
Hemoglobin g/dL  
Hematocrit %  
White Blood Cells  
Platelets

**Biochemical**  
Potassium mmol/L  
Sodium mmol/L  
Glucose g  
Urea mg/dL  
Creatinine mg/dL  
Total Calcium

**Hormonal**  
Free T3 pg/mL  
Free T4 pg/mL  
Thyroid Stimulating Hormone uIU/mL  
Parathyroid hormone mg/dL

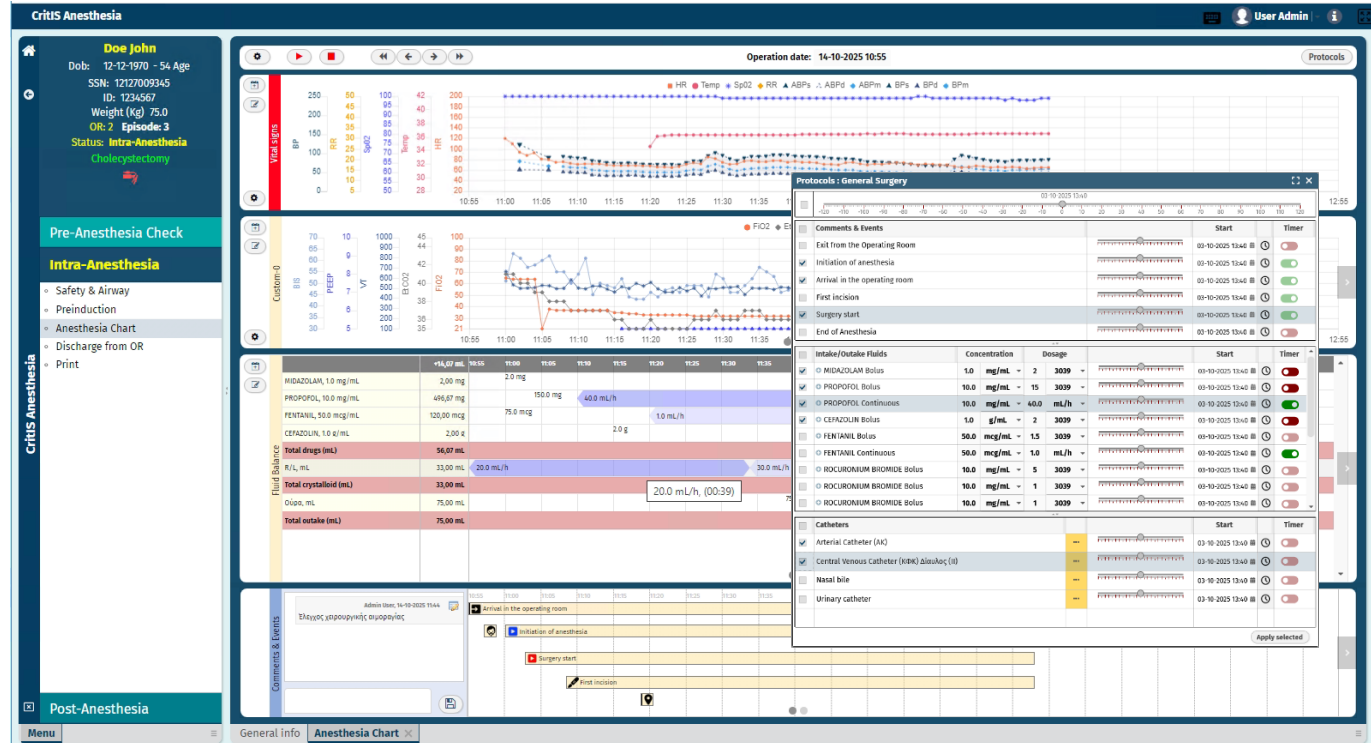
**Vitals/Respiratory/Circulatory**

**Lab exams**

# CritIS Anesthesia

## Surgery

- Safety checks checklist
- Monitoring equipment recording
- Airway and intubation information
- Type of anesthesia
- Time tracking of medical and nursing staff presence
- Automatic recording of vital signs, inhaled/exhaled gases, mechanical ventilation, and blood gases
- Anesthesiology protocols, event logging, lines and catheters documentation
- Monitoring and recording of medications, intake and output fluids

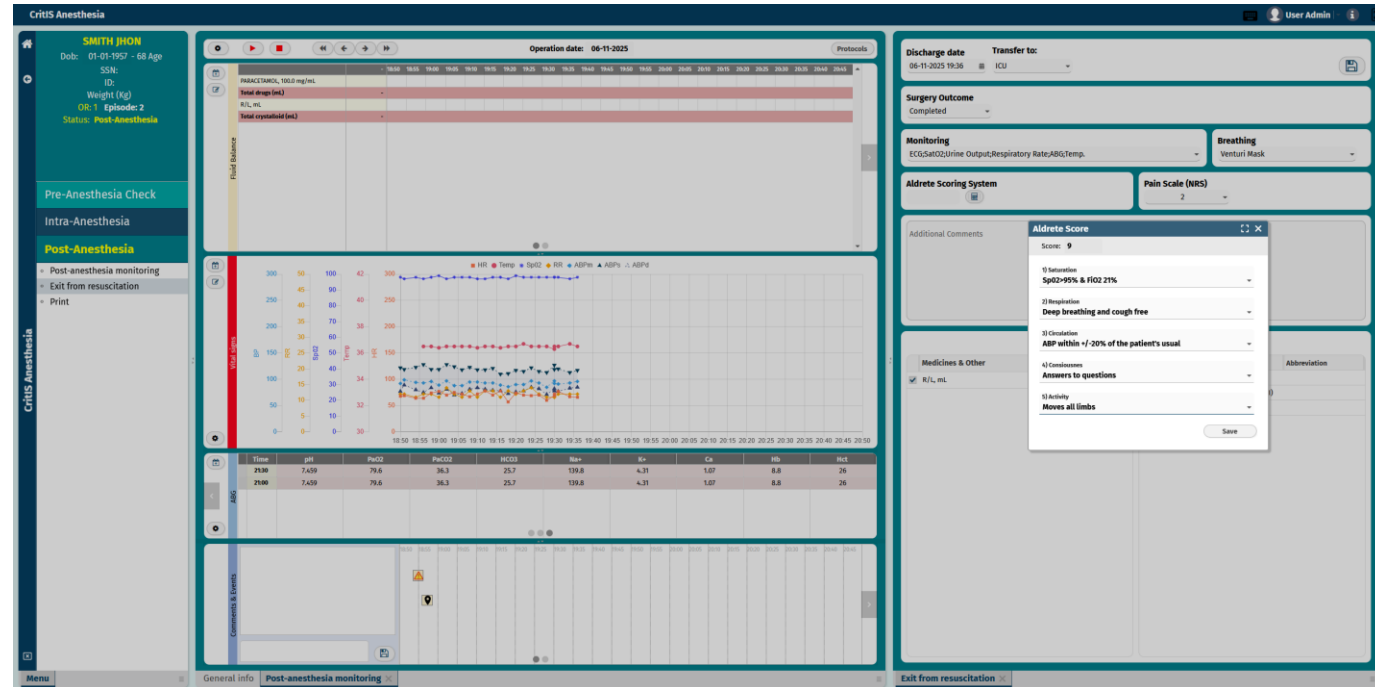




# CritIS Anesthesia

## Postoperative Recovery (PACU)

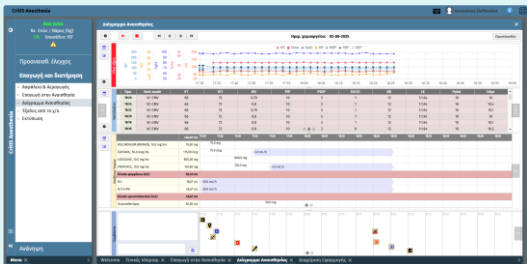
- Charts of vital signs, respiratory data, medication therapy, etc.
- Automatic fluid balance calculation
- Management of lines and catheters
- Automatic or manual documentation
- Customizable measurements and charts
- Management of medications, catheters, and drains for patient transfer



# CritIS Anesthesia

## Advanced Clinical Data Information System for Anesthesia

Designed to assist anesthesiologists in easily, comprehensively, and accurately documenting the patient's status and progress throughout a surgical procedure, covering the preoperative, intraoperative, and postoperative phases.



## Benefits

1

### Healthcare professionals

- Immediate and comprehensive recording of all parameters and interventions in real time
- Fewer errors thanks to automated data collection
- Focus on the patient, eliminating handwritten documentation
- Easier evaluation of previous surgeries/anesthetics

3

### Patients

- Enhanced safety through accurate documentation and monitoring
- Minimization of errors in medications, dosages, and administrations
- Improved treatment of complications
- Maintenance of a complete anesthesia history

2

### Nursing personnel

- Automated workflows for documentation, medication administration, and task monitoring
- Improved coordination between anesthesiologists, surgical, and nursing teams
- Clear and up-to-date overview of the patient's condition
- Reduced paperwork and increased clinical time

4

### Hospital Administration

- Compliance with regulatory standards and legal requirements
- Enhancement of care quality
- Capability to analyze data for optimizing practices and quality audits
- Time and resource savings through automation and integration with HIS



# CritIS Synergy+ | Connect

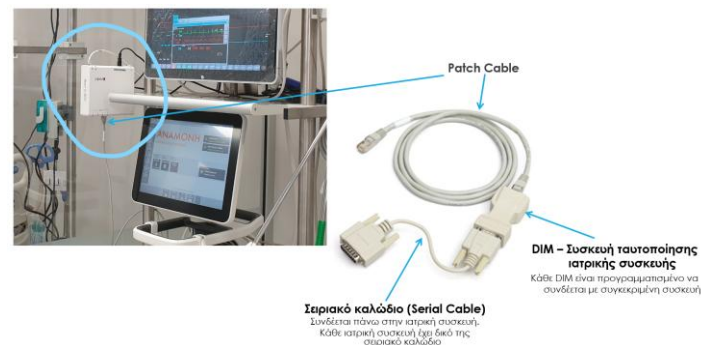
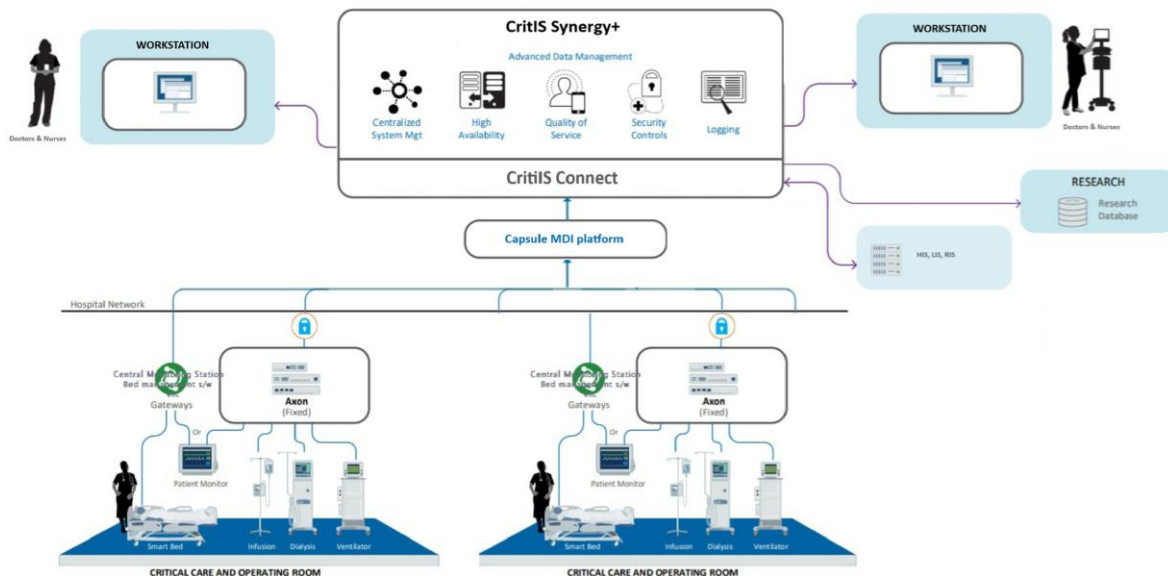
- Based on Mirth Connect, a leading open-source integration platform for healthcare systems
- Multiple communication channels for seamless integration with HIS, LIS, RIS, PACS, as well as with medical equipment
- Wide protocol support, compatible with HL7 (2.x – 3.0), NCPDP, X12, DICOM, ASTM, and XML
- Multiple access methods (MLLP/LLP, TCP/IP, HTTP/HTTPS, S/FTP, databases, email, JMS & web services)
- Management of hundreds of messages per second, encrypted storage for security and prevention of data loss, and advanced error notifications
- Capability to connect with local or national systems (e.g. HΔIKA, e-prescription, e-health cloud)



# CritIS Connect

## Medical device integration

- Drivers available for over 1,000 devices (via the Philips Capsule system)
- Real-time data transfer
- Fully compliant with all European and national regulations, including specific provisions for software and data cybersecurity



# CritIS Connect

## Management of patient data from multiple systems

- Designed to operate independently or interconnected with the hospital information system via a bidirectional HL7 ADT interface.
- Seamless integration of all functional areas and applications of the CritIS Synergy+ platform, for example, transferring a patient case from CritIS Anesthesia to CritIS ICU.

SEARCH & PATIENT INFO

Search Clear New Patient

Last nameΑσθε\*

First name

Father's name

SSN

Dob

Episode

CSPlus Patient code

ICU Episode ID

HIS Patient ID Me...

HIS Episode ID M...

Last name	First name	Father's name	Mother's name	Dob	CSPlus Patien	HIS Patient ID Mec
<a href="#">Ασθενής-826</a>	ΠΑΥΛΟΣ	Πατρή-826		03-10-1956	826	11118849
<a href="#">Ασθενής-827</a>	ΑΡΤΕΜΗΣ	Πατρή-827		26-04-1953	827	11597854
<a href="#">Ασθενής-828</a>	ΜΑΡΙΑ	Πατρή-828		17-09-1957	828	11181495
<a href="#">Ασθενής-829</a>	ΧΡΗΣΤΟΣ	Πατρή-829		29-04-1987	829	11418738
<a href="#">Ασθενής-830</a>	ΠΕΤΡΟΣ	Πατρή-830		22-06-1954	830	11599468
<a href="#">Ασθενής-831</a>	ΧΡΥΣΟΥΛΑ	Πατρή-831		20-12-1934	831	11599735
<a href="#">Ασθενής-832</a>	ΚΥΡΙΑΚΗ	Πατρή-832		03-03-1944	832	10088894
<a href="#">Ασθενής-838</a>	ΣΟΦΙΑ	Πατρή-838		14-05-1965	838	11101631
<a href="#">Ασθενής-839</a>	ΘΩΜΑΣ	Πατρή-839		29-08-1938	839	11528969
<a href="#">Ασθενής-841</a>	ANNA	Πατρή-841		21-01-1958	841	11608551



HL7 | NCPDP | X12  
DICOM | ASTM | XML

# CritIS Connect

Seamless interoperability and full integration of devices and information systems

CritIS Connect is designed to operate independently or interconnected with medical devices, the hospital's local information system, and national systems through a bidirectional HL7 ADT interface.



## Benefits

1

### Faster Integration & Lower Cost

- Significantly reduces the time and cost of implementing interfaces between systems and medical devices
- Built on open-source architecture and standardized protocols
- Easily scalable across multiple departments and facilities

2

### True Interoperability & System Integration

- Connects different systems (HIS, LIS, RIS, PACS, medical devices) into a unified environment
- Supports integrated workflows and real-time data exchange
- Eliminates vendor or proprietary API lock-in

3

### Integration with National & Local Health Systems

- Connects with platforms such as HDIKA, electronic prescription, and the e-health cloud
- Designed to comply with evolving government standards
- Ensures secure and standardized communication at all levels (clinical & administrative)

4

### Advanced Security & Monitoring

- Secure encryption of messages and protection of sensitive data
- Error detection and notifications
- Message recovery in case of interruptions



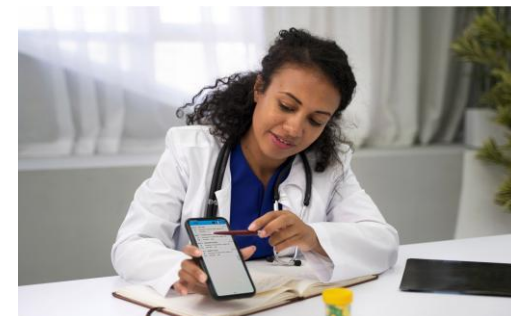
# CritIS Synergy+ | Mobile

## Features at a glance

- Customized screens for smartphones and tablets
- Live display of vital signs and parameters in real time
- Instant access to the patient record from anywhere (on-call, off-site)
- View of lab history, medication regimen, and charts
- Ability to add notes, instructions, or actions from a mobile device

## Benefits

- Immediate and flexible access to patient information
- Participation in decision-making remotely
- Faster response to emergency cases
- Enhanced communication and collaboration between teams
- Time savings from reduced movement to workstations





# CritIS Synergy+ | tele-ICU

## Features at a glance

- Remote real-time monitoring of vital signs and clinical parameters
- Continuous access to the complete electronic patient record
- Live communication via video/audio calls with medical and nursing staff
- Secure exchange of comments, instructions, and alerts between onsite and offsite teams
- Logging of all tele-actions for legal and scientific documentation
- Compliance with HL7/FHIR standards for integration with national and local networks

## Benefits

- Extension beyond the physical boundaries of the ICU
- Reduction of travel and physical presence for on-call support
- Support for training and mentoring of staff in regional hospitals
- Enhancement of healthcare system efficiency with fewer resources



Under development



# CritIS Synergy+ | AI assistant

## Features at a Glance

- AI assistant (chatbot) that can help users navigate and utilize the functionality of CritIS ICU, Anesthesia, and Mobile
- Instant access to structured and unstructured data, creation of custom reports, and information retrieval (analytics and insights) by the user through natural language (text-to-SQL)
- Recommendations for interventions
- Pattern analysis, anomaly detection, and predictive models.

## Benefits

- Immediate and intuitive generation of complex reports, extraction of summaries and visualizations
- Dynamic report visualization and interactive dashboards
- Supports faster, data-driven decision-making at the point of care



Under development



# Installations



- University General Hospital of Heraklion – ICU, HDU & PICU
- Naval Hospital of Athens (NNA) – ICU & Cardio ICU
- General Hospital of Larissa – ICU & HDU

- 251 Air Force General Hospital – ICU
- Nat. Chest Diseases Hospital "Sotiria" – ICU
- Papageorgiou General Hospital – ICU
- Kozani General Hospital – ICU





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