

What is the *INet*® Solution? Who Uses It?

INet® is the *Cerner* solution for the Critical Care space. The *INet*® solution has been specifically designed to be used by critical care nurses, physicians, and other ancillary personnel that function on a daily basis with critical care patients.

The *Interactive View (IView)* is the new solution for critical care patient's documentation. The IView will replace our current Critical Care flowsheet, and is accessed through the Table of Contents Menu selection "**IView and I&O**"

IView can also integrate with the *PharmNet*® solution for medication administration including **Normalized Dosing** associated with Critical Drips, the *PathNet*® solution for laboratory result viewing, and the *RadNet*® solution for radiology result viewing.

The screenshot displays the Cerner IView and I&O interface for patient TEST, NURSING7. The patient information at the top includes: TEST, NURSING7, INPATIENT [08/06/2013 13:43 - <No - Discharge date>], DOB:01/01/60, Age:53 years, Fin Nbr:0000001446, MRN:80-05-90, Loc:T5A-CC; T507; W, Allergies: Allergies Not ...

The interface is divided into several sections:

- Menu:** A vertical list of options including Results Review, Allergies, Orders, Medication List, Clinical Notes, Document Viewing, ECC Summary, Form Browser, IView and I&O (selected), Inpatient Summary, MAR Summary, Nutrition, Overview, Med/Ref Browser, Pt Info, and Pulmonary Summary.
- Physician View:** A list of clinical management areas such as Vital Signs, Pain Assessment, Cardiovascular Management, Hemodynamic Management, Respiratory Management, Neurological Management, GI/Nutrition Management, Genitourinary Management, Endocrine Management, Anticoagulation Management, Antimicrobial Therapy, and Restraint. 'IV Drips' is currently selected.
- IV Drips Table:** A table showing the last 12 hours of IV drip data for 09/04/13. The table includes columns for time (11:15, 10:21, 10:13) and rows for propofol Bolus (ML) and propofol Rate (ml/hr and mcg/kg/min).

		09/04/13		
		11:15	10:21	10:13
IV Drips				
propofol	Bolus	ML		
1.000 M...	Rate	ml/hr	4.68	2.34
propofol	mcg/kg/min		10	5

The bottom status bar shows: B38 IVPHYS 04 September 2013 11:15

Normalized Dosing

Normalized dosing is: *an amount of medication to be administered per patient weight unit, per time unit (e.g., mcg/kg/minute), or amount of medication per time unit (e.g. mcg/min).*

The introduction of a new weight called “**DOSING WEIGHT**” will be necessary for normalized dosing. Upon initial admission, the dosing weight will equal either the measured or reported weight.

The “**DOSING WEIGHT**” will remain constant unless there is a variance of greater than or equal to:

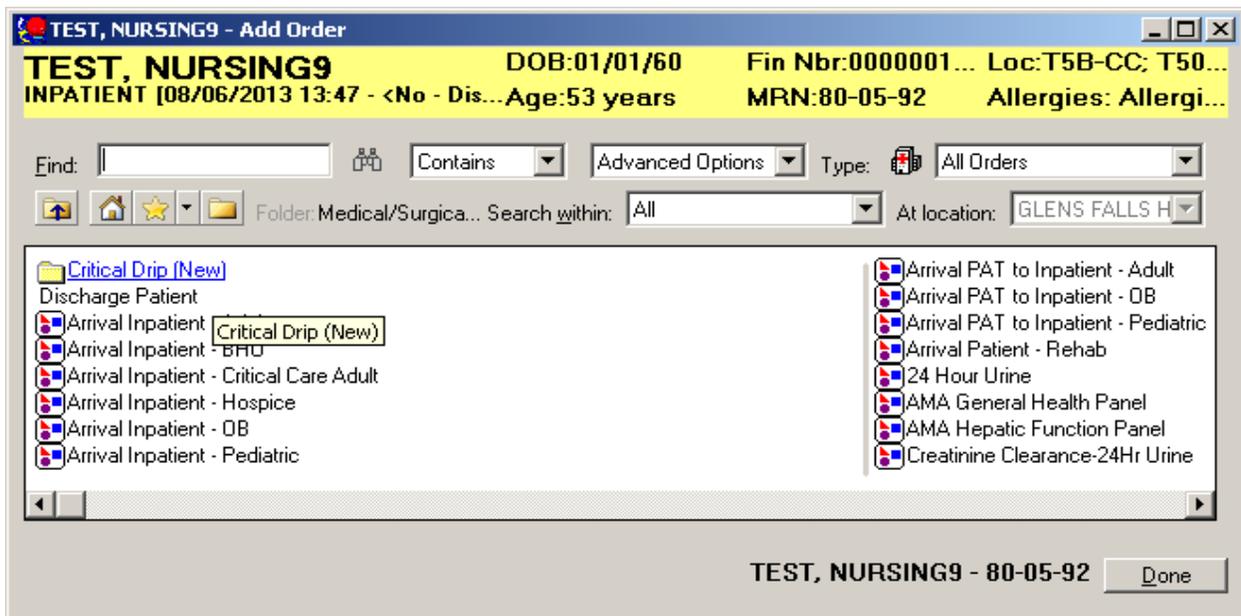
- 5% for patients 12 years of age and older
- 10% for patients between 1 month and 12 years of age
- 12% for patients less than 1 month of age.

If a variance has been identified, a rule will fire alerting the Registered Nurse (RN) to update the dosing weight.

Clinicians will have the ability to MANUALLY enter in an “ORDER WEIGHT” specific to a critical IV drip order. This process should be used when **NO** weight has been electronically recorded in Cerner or when the clinician desires to modify an existing weight.

Working with Critical IV Drips

Upon order entry, a newly created Critical Drip folder has been placed within the Medical/Surgical and Critical Care folders. The content contains all critical drips that have been built to accommodate normalized dosing. PowerPlans which contain bolus dosing and pertinent safety information have also been included within the folder. All critical drips are now high-lighted in red and flagged as high alert medications.



TEST, NURSING9 - Add Order

TEST, NURSING9 DOB:01/01/60 Fin Nbr:0000001448 Loc:T5B-CC; T509; W
 INPATIENT [08/06/2013 13:47 - <No - Discharge date>] Age:53 years MRN:80-05-92 Allergies: Allergies Not ...

Find: Contains Advanced Options Type: All Orders

Folder: Critical Drip (...) Search within: All At location: GLENS FALLS HOS

<ul style="list-style-type: none"> Meds - Amiodarone [Cordarone] Per Protocol High Alert BIVALIRUDIN (Std Maint Infusion 5 MG per ML) Critical Drip 250 MG in NS 5... High Alert BIVALIRUDIN (Hemodialysis 5 MG per ML) Critical Drip 250 MG in NS 50 ML High Alert BIVALIRUDIN (Maint. Renal Impair 5 MG per ML) Critical Drip 250 MG in NS ... High Alert BIVALIRUDIN (LOW DOSE Infusion 0.5 MG per ML) Critical Drip 250 mg in N... High Alert CISATRACURIUM (1 MG per ML) Standard Critical Drip 200 MG in D5W ... Meds - Diltiazem (Cardizem) Bolus and Drips High Alert DOBUTamine (2 MG per ML) Standard Critical Drip 500 MG in D5W 250 mL High Alert DOPamine (800 MCG per ML) Renal Perfusion Critical Drip 200 MG in D5... High Alert Dopamine (1.6 MG per ML) Standard Critical Drip 400 mg in D5W 250 ML High Alert EPINEPHrine (16 MCG per ML) Standard Critical Drip 4 MG in D5W 250 ML Meds - Integrilin (Eptifibatid) ELECTIVE PCI Two Bolus Doses Meds - Integrilin (Eptifibatid) Per Protocol One Bolus Dose Meds - Esmolol (Brevibloc) BOLUS & INFUSION Meds - HEPARIN INFUSION DVT-PE ADULTS Protocol(physician Meds - HEPARIN LOW dose INFUSION ADULTS protocol High Alert INSULIN REGULAR-NovoLIN R (0.2 UNITS per ML) Standard Critical Dri... High Alert ISOPROTERENOL (4 MCG per ML) Standard Critical Drip 1 MG in D5W ... High Alert LABETALOL (1 MG per ML) Standard Critical Drip 200 MG in D5W 200 ML 	<ul style="list-style-type: none"> High Alert Lidocaine (4 MG per ML) Standard Critical Drip 2 GM in D5W 500 ML High Alert LORazepam (0.2 MG per ML) Standard Critical Drip 20 MG in D5W 100ML High Alert MIDAZOLAM (0.2 MG per ML) Standard Critical Drip 50 MG in NS 250 ML Nesitide (Natrecor) Bolus & Cont Infusion High Alert Nicardipine (0.1 MG per ML) Standard Critical Drip 20 MG in NS 200 ML Meds - Nitroglycerin Protocol High Alert NITROPRUSSIDE (200 MCG per ML) Standard Critical Drip 50 MG in D5... High Alert NOREPINEPHrine (16 MCG per ML) Standard Critical Drip 4 MG in D5W ... High Alert OCTREOTIDE (5 MCG per ML) Standard Critical Drip 500 MCG in NS 10... High Alert PHENYLephrine (80 MCG per ML) Standard Critical Drip 20 MG in D5W 2... High Alert PROCAINAMIDE (4 MG per ML) Standard Critical Drip 2000 MG in NS 50... High Alert Propofol (10 MG per ML) Standard Critical Drip 1000 MG in 100 ML High Alert Propofol (10 MG per ML) Standard Critical Drip 500 MG in 50 ML High Alert VASOPRESSIN (1 UNIT per ML) GI BLEED Critical Drip 100 UNITS in N... High Alert VASOPRESSIN (0.1 UNITS per ML) SEPTIC SHOCK Critical Drip 25 UNI... High Alert VASOPRESSIN (0.1 UNITS per ML) ORGAN PROC. Critical Drip 10 UNI... High Alert VECURONIUM (0.32 MG per ML) Standard Critical Drip 80 MG in D5W 2...
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TEST, NURSING9 - 80-05-92 Done

A critical IV drip ordered outside the folder should be ordered as an IV set NOT as a medication or additive.

For example, the clinician should select the IV set Propofol (10 mg per ML) Standard Critical Drip 1000 MG in 100 ML **NOT** the individual order propofol.

TEST, NURSING9 - Add Order

TEST, NURSING9 DOB:01/01/60 Fin Nbr:0000001448 Loc:T5B-CC; T509; W
 INPATIENT [08/06/2013 13:47 - <No - Discharge date>] Age:53 years MRN:80-05-92 Allergies: Allergies Not ...

Find: propofol Contains Advanced Options Type: All Orders

Folder: Search within: All At location: GLENS FALLS HOS

<ul style="list-style-type: none"> propofol High Alert Propofol (10 MG per ML) Standard Critical Drip 1000 MG in 100 ML High Alert Propofol (10 MG per ML) Standard Critical Drip 500 MG in 50 ML High Alert Propofol (10 MG per ML) Standard Critical Drip 1000 MG in 100 ML

TEST, NURSING9 - 80-05-92 Done

Order Entry of Critical IV Drips with “DOSING WEIGHT”

The rate will automatically calculate based on the dosing weight and normalized rate.

TEST, NURSING9 - 80-05-92 Opened by Lapin RPH DBA, Lisa M

Task Edit View Patient Chart Links Options Current Add Help

Patient List Message Center Links Clinical References Micromedex NIH Clinical Pharmacology Tear Off Attach Exit Calculator AdHoc Medication Administration PM Conversation Depart

TEST, NURSING9 X

TEST, NURSING9 DOB:01/01/60 Fin Nbr:0000001448 Loc:T5B-CC; T509; W
 INPATIENT [08/06/2013 13:47 - <No - Discharge date>] Age:53 years MRN:80-05-92 Allergies: Allergies Not Recorded

Orders

Menu Add Document Medication by Hx Reconciliation Check Interactions External Rx History Rx Plans (0): Error Status Meds History Adm. Meds Rec Disch. Meds Rec

Orders Medication List

Orders for Signature

Order Name	Status	Start	Details
T5B-CC; T509; W Fin Nbr:0000001448 Admit: 08/06/2013 13:47			
IV Solutions			
Premix 100 ML + propofol 1,000 MG [5 mcg/kg/min]	Order	08/30/2013 17:25	100 ML, IV(Cont.), 08/30/13 17:25, 30 Days, Stop date 09/29/13 17:25, 1.8 ml/hr, 55.6 hr, mL 100, Indicated Use: "Titrate per Propofol Sedation Protocol for the Ventil..." "Titrate per Propofol Sedation Protocol for the Ventilated Patient located on the Clinical Reference Page under Pharmacy Reference Main Page" "Start rate= 5 mcg/kg/...

▼ Details for Premix 100 ML + propofol 1,000 MG [5 mcg/kg/min]

Details Continuous Details Order Comments

Base Solution	Bag Volume	Rate	Infuse Over	
Premix	100 ML	1.8 ml/hr	55.6 hr	
Additive	Additive Dose	Normalized Rate	Delivers	Occurrence
propofol	1,000 MG	5 mcg/kg/min	300 mcg/min	EB
Total Bag Volume	100 ML			

Weight: 60 KG Weight Type: Clinical Weight Result dt/tm: 08/30/2013 17:25:00 EDT

0 Missing Required Details Sign

B38 LAPINLM 30 August 2013 17:26

****Note**** Clinically appropriate start rates have been defaulted in the normalized rate fields. If the clinician would like to order a drip at a different start rate the normalized rate field would need to be modified.

Order Entry of Critical IV Drips *WITHOUT* “DOSING WEIGHT”

The rate is not calculated due to missing dosing weight.

TEST, NURSING9 - 80-05-92 Opened by Lapin RPH DBA, Lisa M

Task Edit View Patient Chart Links Options Current Add Help

Patient List Patient Access List Micromedex Links Tear Off Attach Exit Calculator Ad-Hoc Medication Administration PM Conversation Depart Patient Education Patient Pharmacy

TEST, NURSING9 List Recent Name

TEST, NURSING9 DOB: 01/01/60 Fin Nbr: 0000001448 Loc: T5B-CC; T509; W
 INPATIENT [08/06/2013 13:47 - <No - Discharge date>] Age: 53 years MRN: 80-05-92 Allergies: Allergies Not Recorded

Orders Print 17 minutes ago

+ Add Document Medication by Hx Reconciliation Check Interactions External Rx History No Check

Status Meds History Adm. Meds Rec. Disch. Meds Rec.

Orders Medication List

Orders for Signature

Order Name	Status	Start	Details
T5B-CC; T509; W Fin Nbr: 0000001448 Admit: 08/06/2013 13:47			
IV Solutions			
Premix 100 ML + propofol 1,000 MG [5 mcg/kg/min] Order		08/30/2013 17:21	100 ML, IV(Cont.), 08/30/13 17:21, 30 Days, Stop date 09/29/13 17:20, mL 100, Indicated Use: "Titrate per Propofol Sedation Protocol for the Ventilated Patient located on the Clinical Reference Page under Pharmacy Reference Main Page." "Start rate= 5 mcg/kg/min"

▼ Details for Premix 100 ML + propofol 1,000 MG [5 mcg/kg/min]

Details Continuous Details Order Comments

Base Solution	Bag Volume	Rate	Infuse Over
Premix	100 ML		
Additive	Additive Dose	Normalized Rate	Delivers Occurrence
propofol	1,000 MG	5 mcg/kg/min	EB
Total Bag Volume		100 ML	

Weight:

0 Missing Required Details Orders for Nurse Review Sign

B38 LAPINLM1 30 August 2013 17:23

The rate will automatically calculate once an **“ORDER WEIGHT”** is manually entered.

****NOTE**** The manually entered weight is associated **ONLY** to this order.

TEST, NURSING9 - 80-05-92 Opened by Lapin RPH DBA, Lisa M

Task Edit View Patient Chart Links Options Current Add Help

Patient List Message Center Links Clinical References Micromedex NIH Clinical Pharmacology Tear Off Attach Exit Calculator Ad-Hoc Medication Administration PM Conversation Depart

TEST, NURSING9 X List Recent Name

TEST, NURSING9 DOB: 01/01/60 Fin Nbr: 0000001448 Loc: T5B-CC; T509; W
 INPATIENT [08/06/2013 13:47 - <No - Discharge date>] Age: 53 years MRN: 80-05-92 Allergies: Allergies Not Recorded

Orders Print 2 minutes ago

Add Document Medication by Hx Reconciliation Check Interactions External Rx History Rx Plans (0): Error Status Meds History Adm. Meds Rec Disch. Meds Rec

Orders Medication List

Orders for Signature

Order Name	Status	Start	Details
T5B-CC; T509; W Fin Nbr:0000001448 Admit: 08/06/2013 13:47			
IV Solutions			
Premix 100 ML + propofol 1,000 MG [5 mcg/kg/min]	Order	08/30/2013 17:26	100 ML, IV(Cont.), 08/30/13 17:26, 30 Days, Stop date 09/29/13 17:25, 2.1 ml/hr, 47.6 hr, mL 100, Indicated Use: "Titrate per Propofol Sedation Protocol for the Ventil..." "Titrate per Propofol Sedation Protocol for the Ventilated Patient located on the Clinical Reference Page under Pharmacy Reference Main Page" "Start rate= 5 mcg/kg/..."

▼ Details for Premix 100 ML + propofol 1,000 MG [5 mcg/kg/min]

Details Continuous Details Order Comments

Base Solution	Bag Volume	Rate	Infuse Over	
Premix	100 ML	2.1 ml/hr	47.6 hr	
Additive	Additive Dose	Normalized Rate	Delivers	Occurrence
propofol	1,000 MG	5 mcg/kg/min	350 mcg/min	EB
Total Bag Volume		100 ML		

Weight: 70 KG Weight Type: Manually Entered Result dt/tm: 08/30/2013 17:28:52 EDT

0 Missing Required Details Sign

B38 LAPINLM 30 August 2013 17:29

Rate changes initiated in IView will now also display in the MAR Summary:

TEST, NURSING7 - 80-05-90 Opened by Test, IV Physician

Task Edit View Patient Chart Links Options Help

Patient List Message Center Quality Measures Access Medicine NYSDOH-HCS DynaMed Clinical Pharmacology Links Tear Off

TEST, NURSI... x

TEST, NURSING7 DOB:01/01/60 Fin Nbr:0000001446 Loc:T5A-CC; T507; W
 INPATIENT [08/06/2013 13:43 - <No - Discharge date>] Age:53 years MRN:80-05-90 Allergies: Allergies Not ...

Menu

- Results Review
- Allergies + Add
- Orders + Add
- Medication List
- Clinical Notes
- Document Viewing
- ECC Summary
- Form Browser
- IView and I&O
- Inpatient Summary
- MAR Summary
- Nutrition
- Overview
- Med/Ref Browser
- Pt Info
- Pulmonary Summary

MAR Summary

02 September 2013 0000 - 04 September 2013 2359

Time View	09/02/2013 0000 - 2359	09/03/2013 0000 - 2359	09/04/2013 0000 - 2359
Scheduled			
A Home Medications (Home Medication List - I... Contact family to complete medication list, Misc, ONCE, ...			
Unscheduled			
A Home Medications (Home Medication List - I... Contact family to complete medication list, Misc, As ...			
A Home Medications (Home Medication List - ... Sean Loftus, Misc, As Directed, Routine, 08/13/13 ...			
Continuous Infusions			
propofol 1,000 MG [5 mcg/kg/min] + Premix 100 ML 100 ML, IV(Cont.), 09/04/13 9:37:00, 30 Days, Stop date 10/04/13 9:36:00, 2.34 ml/hr, 42.7 hr, mL 100, Indicated Use: "Titrate per Propofol Sedation Protocol for the Ventilated Patient located on the Clinical Reference Page under Pharmacy Reference Ma...			1013 Rate Change 2.34 ml/hr propofol 5 mcg/kg/min
			1021 Rate Change 4.68 ml/hr propofol 10 mcg/kg/min
CONT			

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