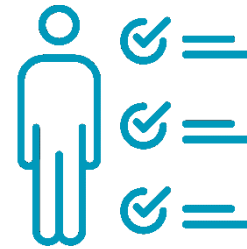


IV MEDICATION LOADING DOSE VOLUMES MAGNESIUM SULFATE AND ZIDOVUDINE (AZT)

HIGHLIGHTS

At Go-Live

- ▶ Nurses will enter medication bolus volume to ensure accurate fluid balance on In & Out Record in iView.
- ▶ Applies to IV magnesium sulfate and zidovudine loading doses
- ▶ Continuous MgSO4 and AZT infusions are initiated via the Medication Administration Wizard, after their respective loading dose is complete.



KEY POINTS TO REMEMBER

When initiating the medication **loading dose**, ensure that you document an accurate fluid volume in one of two ways:

1. **Change the Diluent volume from via the Medication Administration Wizard at time of administration:**

Magnesium Sulfate

Launch Medication Administration Wizard > scan patient wristband > select magnesium sulfate loading dose > next > keep Diluent as sodium chloride 0.9% and **update volume to 100 mL** > Sign

Charting for: CWOB-Nurse-LD-TR, Kathy

magnesium sulfate
4 g 8 mL, IV, once, administer over: 30 minute, start: 17-Feb-2022 20:00 PST, stop: 17-Feb-2022 20:00 PST, volume (mL): 55
Loading dose

*Performed date / time: 17-Feb-2022 1924 PST
*Performed by: Train, Nurse-OB10
Witnessed by:

*magnesium sulfate: 4 g Volume: 8 ml
Diluent: sodium chloride 0.9% 55 ml X
*Route: IV Site:
Total Volume: 55 Infused Over: 30 minute

17-Feb-2022 1800 PST 17-Feb-2022 1900 PST 17-Feb-2022 2000 PST 17-Feb-2022 2100 PST 17-Feb-2022 2200 PST 17-Feb-2022 2300 PST
55

Not Given Reason:
Comment

OK Cancel

Charting for: CWOB-Nurse-LD-TR, Kathy

magnesium sulfate
4 g 8 mL, IV, once, administer over: 30 minute, start: 17-Feb-2022 20:00 PST, stop: 17-Feb-2022 20:00 PST, volume (mL): 55
Loading dose

*Performed date / time: 17-Feb-2022 1924 PST
*Performed by: Train, Nurse-OB10
Witnessed by:

*magnesium sulfate: 4 g Volume: 8 ml
Diluent: sodium chloride 0.9% 100 ml ✓
*Route: IV Site:
Total Volume: 100 Infused Over: 30 minute

17-Feb-2022 1800 PST 17-Feb-2022 1900 PST 17-Feb-2022 2000 PST 17-Feb-2022 2100 PST 17-Feb-2022 2200 PST 17-Feb-2022 2300 PST
100

Not Given Reason:
Comment

OK Cancel

CST PRACTICE POINTER

POINTING YOU IN THE RIGHT DIRECTION

Zidovudine (AZT)

Launch Medication Administration Wizard > scan patient wristband > select zidovudine loading dose > next > **change Diluent to dextrose 5% and update volume according to Zidovudine Dosing Table** > Sign

Zidovudine Dosing Table: * Only to be used for standard 2 mg/mL solution Round woman's weight to the nearest 2 kg					
Wt (kg)	LOADING DOSE Set pump at this rate FOR FIRST HOUR ONLY (mL/hour)	CONTINUOUS INFUSION Set pump at this rate(after loading dose)(mL/hour)	Wt (kg)	LOADING DOSE Set pump at this rate FOR FIRST HOUR ONLY (mL/hour)	CONTINUOUS INFUSION Set pump at this rate(after loading dose)(mL/hour)
50	50	25	90	90	45
52	52	26	92	92	46
54	54	27	94	94	47
56	56	28	96	96	48
58	58	29	98	98	49
60	60	30	100	100	50
62	62	31	102	102	51
64	64	32	104	104	52
66	66	33	106	106	53
68	68	34	108	108	54
70	70	35	110	110	55
72	72	36	112	112	56
74	74	37	114	114	57
76	76	38	116	116	58
78	78	39	118	118	59
80	80	40	120	120	60
82	82	41	122	122	61
84	84	42	124	124	62
86	86	43	126	126	63
88	88	44	128	128	64

e.g. A pregnant patient that weighs 80 kg will have an zidovudine Diluent volume of 80 mL:

Charting for: CWOB-Nurse-LD-TR, Kathy

zidovudine
 160 mg, IV, once, administer over: 60 minute, drug form: inj, start: 17-Feb-2022 20:00 PST, stop: 17-Feb-2022 20:00 PST
 Initiate IV zidovudine immediately at rupture of membranes (ROM), onset of labour, and/or at lea...

*Performed date / time: 17-Feb-2022 1941 PST
 *Performed by: Train, Nurse-OB10
 Witnessed by:

*zidovudine: 160 mg Volume: 16 ml
 Diluent: <none> ml **X**
 *Route: IV Site:
 Total Volume: 16 Infused Over: 60 minute

17-Feb-2022 1800 PST 17-Feb-2022 1900 PST 17-Feb-2022 2000 PST 17-Feb-2022 2100 PST 17-Feb-2022 2200 PST 17-Feb-2022 2300 PST

Not Given
 Reason:
 Comment

OK Cancel

Charting for: CWOB-Nurse-LD-TR, Kathy

zidovudine
 160 mg, IV, once, administer over: 60 minute, drug form: inj, start: 17-Feb-2022 20:00 PST, stop: 17-Feb-2022 20:00 PST
 Initiate IV zidovudine immediately at rupture of membranes (ROM), onset of labour, and/or at lea...

*Performed date / time: 17-Feb-2022 1941 PST
 *Performed by: Train, Nurse-OB10
 Witnessed by:

*zidovudine: 160 mg Volume: 16 ml
 Diluent: dextrose 5% 80 ml **✓**
 *Route: IV Site:
 Total Volume: 80 Infused Over: 60 minute

17-Feb-2022 1800 PST 17-Feb-2022 1900 PST 17-Feb-2022 2000 PST 17-Feb-2022 2100 PST 17-Feb-2022 2200 PST 17-Feb-2022 2300 PST

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 Reason:
 Comment

OK Cancel

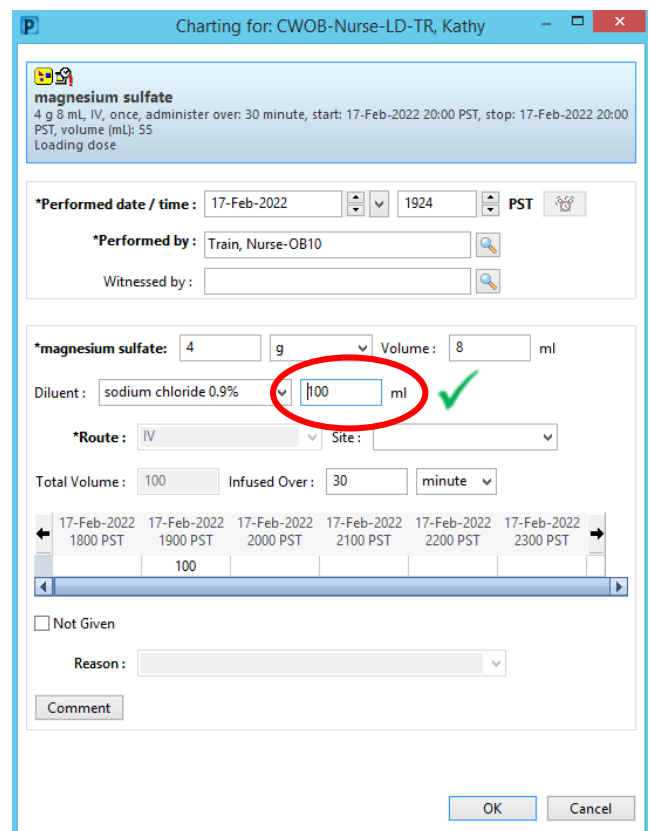
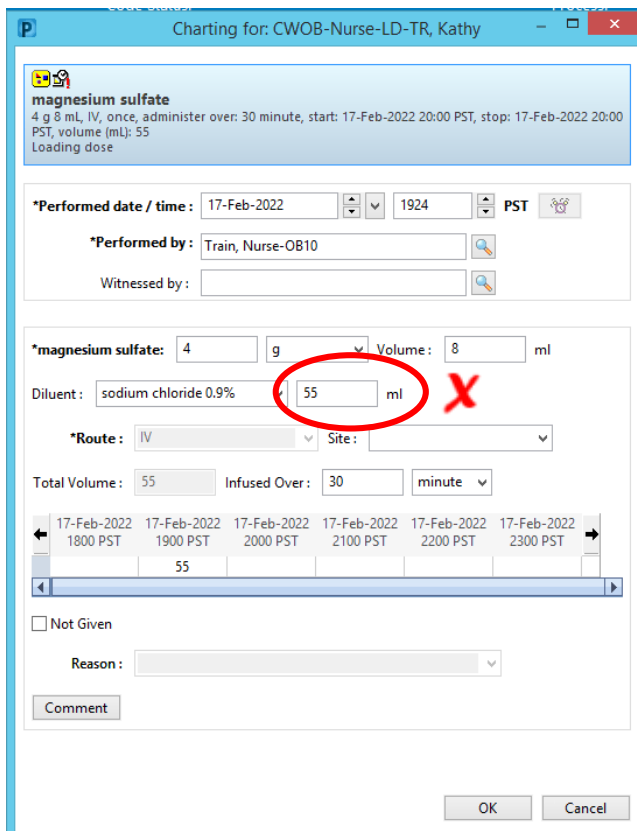
CST PRACTICE POINTER

POINTING YOU IN THE RIGHT DIRECTION

2. Modify the Diluent volume via the MAR after medication administration:

Magnesium Sulfate

MAR > Discontinued Scheduled > right-click on magnesium sulfate dose or associated sodium chloride 0.9% volume > click Modify > manually enter 100 mL in the Diluent volume box > sign documentation with green checkmark

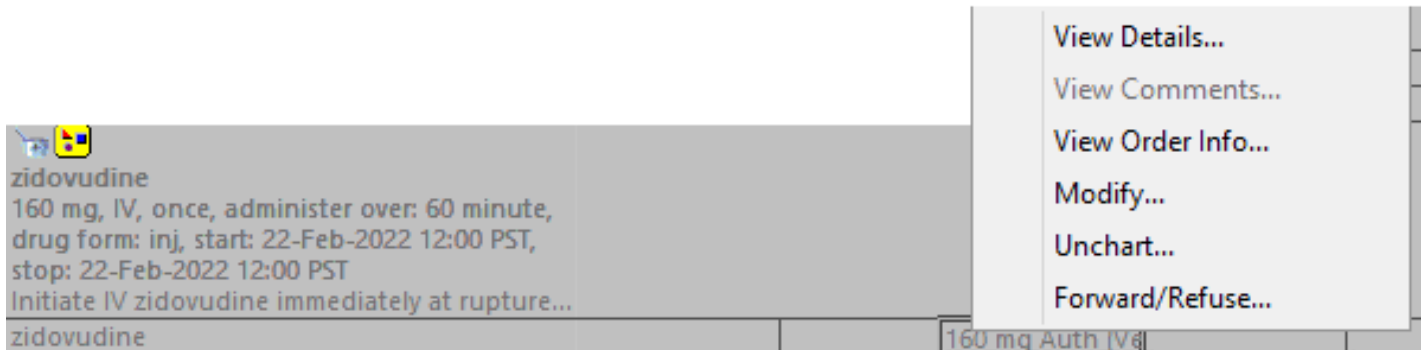


CST PRACTICE POINTER

POINTING YOU IN THE RIGHT DIRECTION

Zidovudine (AZT)

MAR > Discontinued Scheduled > right-click on AZT dose > click Modify > manually enter weight-based Diluent volume in appropriate box > sign documentation with green checkmark



Charting for: CWOB-Nurse-LD-TR, Kathy

zidovudine
160 mg, IV, once, administer over: 60 minute, drug form: inj, start: 17-Feb-2022 20:00 PST, stop: 17-Feb-2022 20:00 PST
Initiate IV zidovudine immediately at rupture of membranes (ROM), onset of labour, and/or at lea...

*Performed date / time: 17-Feb-2022 1941 PST
*Performed by: Train, Nurse-OB10
Witnessed by:

*zidovudine: 160 mg Volume: 16 ml
Diluent: <none> ml **X**
*Route: IV Site:
Total Volume: 16 Infused Over: 60 minute

17-Feb-2022 1800 PST 17-Feb-2022 1900 PST 17-Feb-2022 2000 PST 17-Feb-2022 2100 PST 17-Feb-2022 2200 PST 17-Feb-2022 2300 PST

Not Given
Reason:
Comment

OK Cancel

Charting for: CWOB-Nurse-LD-TR, Kathy

zidovudine
160 mg, IV, once, administer over: 60 minute, drug form: inj, start: 17-Feb-2022 20:00 PST, stop: 17-Feb-2022 20:00 PST
Initiate IV zidovudine immediately at rupture of membranes (ROM), onset of labour, and/or at lea...

*Performed date / time: 17-Feb-2022 1941 PST
*Performed by: Train, Nurse-OB10
Witnessed by:

*zidovudine: 160 mg Volume: 16 ml
Diluent: dextrose 5% 80 ml **✓**
*Route: IV Site:
Total Volume: 80 Infused Over: 60 minute

17-Feb-2022 1800 PST 17-Feb-2022 1900 PST 17-Feb-2022 2000 PST 17-Feb-2022 2100 PST 17-Feb-2022 2200 PST 17-Feb-2022 2300 PST

Not Given
Reason:
Comment

OK Cancel

- Keep the total volume of each continuous infusion as 500 mL to keep the concentration in Cerner consistent with the medication bag label.

CST PRACTICE POINTER

POINTING YOU IN THE RIGHT DIRECTION

SUPPORTING DOCUMENTS

1. [Document Medication Administration on the MAR \(CST Help\)](#)
 - Document Diluent Type and Volume
2. [Modify Documentation on the MAR \(CST Help\)](#)
3. [Intravenous Zidovudine \(AZT/Retrovir\) Preparation and Administration \(SHOP\)](#)
4. [Magnesium Sulfate: Administration for Seizure Prevention \(SHOP\)](#)
5. [Magnesium Sulfate: Administration for Fetal Neuroprotection \(SHOP\)](#)

Note: Not applicable for magnesium replacement as loading dose not required.



CST Cerner Help

