

McKesson Readmissions Resource™

SEPSIS RESOURCE GUIDE Prevent • Diagnose • Treat

MSKESSON

Guide Reference

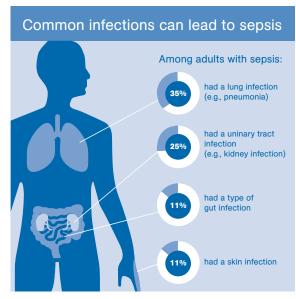
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Overview of Sepsis

Research has shown that chronic illnesses — along with cancer and hypertension — are common among people with sepsis. It affects people of all ages but is most concerning for those who are **65 years or older** with health issues. These individuals:

- Are more susceptible to the disease, which can be deadly if not quickly recognized and treated.
- Often show symptoms of infection, such as fever, chills and general malaise, which may not initially alert clinicians to those suffering from sepsis.
- Account for 65 percent of all sepsis hospital cases a staggering statistic considering elderly patients often have ailments associated with other diagnoses.
- Can often acquire sepsis that is triggered by infections, which occur in many forms (e.g., pressure sores, respiratory issues or urinary tract infections).



CDC Vital Signs: https://www.cdc.gov/vitalsigns/pdf/2016-08-vitalsigns.pdf



Sepsis and Readmission



Sepsis is the most expensive condition to treat in U.S. hospitals, estimated at

>**\$20B** a year

Each year, at least

1,700,000

Americans get sepsis

Nearly
270,000
Americans die as a result

Readmissions due to sepsis are

2-3X more likely

2-3X costlier

than readmissions due to other conditions

 $National\ Institute\ of\ General\ Medical\ Sciences:\ https://www.nigms.nih.gov/Education/pages/factsheet_sepsis.aspx$

Sepsis and Readmissions

Older sepsis survivors are three times more likely to notice a decline in their cognitive abilities, making it difficult to return to their previous lifestyles and resulting in an increased likelihood of hospital readmissions. In fact, **sepsis is one of the leading causes of readmissions**.

The Federal government is:

- Promoting public health efforts, including sepsis prevention and early recognition
- Investigating sepsis to identify at-risk populations
- Supporting development of new sepsis tests and treatments
- Developing more accurate tracking methods to evaluate progress in preventing and treating sepsis

Post-acute care providers should **proactively treat chronic conditions** and **focus on infection prevention** to reduce readmission rates associated with sepsis. By doing so, they can improve patient outcomes.

For every 100 Medicare patients admitted to a hospital within a 30-day period,

21.3% were admitted because of sepsis



Agency for Healthcare Research and Quality (AHRQ): https://www.ahrq.gov



Symptoms of Sepsis

Pay careful attention to the signs of sepsis. They can indicate when the condition shifts from manageable to severe. If the following symptoms occur in a patient, seek help immediately.



(above 100 beats/minute)



Rapid Breathing (above 20 breaths/minute)



Extreme Pain or Discomfort



(less than 96.8 or greater than 100)





Confusion (more common among older people)

Vaccination

Get vaccinated against the flu, pneumonia and other infections that could lead to sepsis. Advise your residents and patients to do the same.

Time is of the Essence

Symptoms may be subtle:

- · Shivering, fever, cold (elderly may lack fever)
- Extreme pain or discomfort
- · Clammy or sweaty skin
- · Lethargy, confusion or disorientation
- · Short of breath, rapid breathing, high heart rate



Education



Educate patients and families on general signs of infection related to:

- Skin/Wound Infections
- Respiratory Infections
- Urinary Tract Infections

Infection Prevention



Prevent infections that can lead to sepsis:





 Practicing good hand hygiene by patients, caregivers and clinicians

Antimicrobial Stewardship



- Early antibiotic treatment decreases mortality in septic patients
- Identify actions, indications and dosing of antibiotic
- Broad-spectrum antibiotics need to be patient specific, directed against potential pathogen(s)



	MANUFACTURER	MANUFACTURER #	ITEM DESCRIPTION
HAND HYGIENE			
	McKesson	53-29033-8.5	Hand Sanitizer Foaming, w/Aloe 8.5 oz Bottle w/Pump
Γ	McKesson	16-1069	Hand Sanitizer Gel w/Aloe, Flip Top, 8 oz
	Central Solutions	SANI14116-1000	DermaCen Alcohol-Free Hand Sanitizer Bck Foaming 1000 ml
SCHOOL SECTION	McKesson	53-28087-18	Antimicrobial Lotion Soap Aloe Pump 18 oz
1 to ALSO	McKesson	53-28063-8	Antibacterial Soap 8 oz Bottle, Clean scent
	GOJO	3659-12	Purell Hand Sanitizer Gel 12 oz Pump Bottle
PPE GLOVES			
Project International Project International Project International Project International Internationa	McKesson	14-6N34	Confiderm™ Nitrile Exam Glove 3 mil Powder-Free Blue MED
	McKesson	14-6N36	Confiderm™ Nitrile Exam Glove 3 mil Powder-Free Blue LG
	McKesson	14-6N38	Confiderm™ Nitrile Exam Glove 3 mil Powder-Free Blue XLG

	MANUFACTURER	MANUFACTURER #	ITEM DESCRIPTION
PPE GLOVES			
	McKesson	14-6978C	Nitrile Glove, Exam PF Tactile Touch Blue, LG (200/BX) Multiple Sizes Available
A. The	McKesson	14-680C	Nitrile Glove, Exam PF Tactile Touch Blue, XLG (100/BX) Multiple Sizes Available
completers 147 Notice Course George Possible First The Course George The Course George	McKesson	14-6N34	3.0 Nitrile Exam Gloves, Medium, Powder-Free
© M. S. 1999 €	McKesson	14-316	Latex Glove, Exam, PF Smooth, MED (100/BX)
	McKesson	14-318	Latex Glove, Exam, PF Smooth, LG (100/BX)
	McKesson	14-320	Latex Glove, Exam, PF Smooth, XLG (100/BX)
PPE GOWNS			
	McKesson	31521100	Isolation Fluid Resistent Gown, Full Back, Universal Yellow (50/CS)
	McKesson	30201100	Isolation Fluid Resistent Gown, Full Back, Universal (50/CS)
	McKesson	44451100	Fluid Resistent Gown, Full Back, Elastic Cuff Universal Blue (50/CS)



	MANUFACTURER	MANUFACTURER #	ITEM DESCRIPTION
PPE MASKS			
	McKesson	91-2600	Facemask, w/Visor, Earloops Blue (25/BX)
	McKesson	91-2002	Procedure Mask, w/Earloops Blue (50/BX)
Bite Phocodure Meeks	McKesson	91-2001	Procedure Facemask, w/Earloops Yellow
1	McKesson	91-2003	Procedure Facemask, w/Earloops White
	McKesson	91-1600	Surgical Mask, w/Visor, Anti-fog w/Ties Blue (25/BX)
	McKesson	91-1000	Surgical Mask, Classic Style w/Ties Blue (50/BX)
PPE KIT			
	IP Prevention Products	IPD-POUCH2.0	Manufacturer recommended IP Pouch usage/protocol (designed to store supplies for immediate use) 1. Before use, enter date (mm/dd/yy) on label (recommend replace monthly or when visibly soiled) 2. Place near patient or attach to patient equipment (wheelchairs, bedside table, IV pole) 3. To prevent cross-contamination, store nasal cannulas and handheld nebulizers in pouch when not in use

	MANUFACTURER	MANUFACTURER #	ITEM DESCRIPTION
SKIN PROTECTION			
	McKesson	53-CZ4	Skin Protectant THERA™ Calazinc Body Shield 4 oz Tube Cream Scented
Thera: DIMETHICOME BODY SHIELD	McKesson	53-AFP3	Antifungal THERA™ Powder 3 oz Shaker Bottle
(2) (2) (3) (2) (2)	McKesson	53-DS4	Skin Protectant THERA™ Dimethicone Body Shield 4 oz Tube Cream Scented
THERAPY Provided in the Control of t	McKesson	53-SSG4	Skin Protectant THERA™ Silicone Skin Guard 4 oz. Tube Unscented Cream
	3M	5050	Skin Protectant 3M™ Cavilon™ Advanced 2.7 ml Ampule Liquid Unscented
HYGIENE SOLUTION			
13.00	Theraworx®	HXC-08Z	Theraworx 8 oz Foaming No-Rinse Body Wash, Lavender Scent Multiple Sizes Available
	Theraworx®	SWA-200	Theraworx SwabStick (200 pack)
	Theraworx®	HX-0050	Theraworx Personal Wipe, Lavender Scent (50 ct)

	MANUFACTURER	MANUFACTURER #	ITEM DESCRIPTION
SURFACE DISINFECTANT			
	McKesson	50-66160	McKesson Germicidal Disinfectant Wipe
0	Professional Disposables Inc.	P54072	Bleach Disinfectant Wipe
Demonstration of the second of	Professional Disposables Inc.	P13872	Sani-Cloth® AF3 Alcohol-Free Wipe Surface Disinfectant Cleaner
	Professional Disposables Inc.	P03672	Easy Screen™ Pre-saturated Task Wipe with Alcohol, Non-sterile 6x9
	Professional Disposables Inc.	P25372	Sani-Cloth® Prime Germicidal Wipe Surface Disinfectant Cleaner
	Healthlink	30824	Clorox Healthcare® Hydrogen Peroxide Wipe w/Cherry Almond Scent



Log in to **McKesson SupplyManager**^{sм} to order products.

Diagnosing sepsis remains a key challenge. **Early diagnosis can be difficult** because the signs and symptoms of sepsis may be attributed to other causes.

- A variety of tests can be ordered to identify the underlying infection, including those for blood, urine and wound secretion.
- A quick sepsis diagnosis can support effective treatment and help improve survival rates.

Having lab protocols in place can help clinicians be proactive and **improve quality of care**. Receiving faster lab results allows for **prompt evaluation** of patient condition, helping reduce readmissions, decrease length of stay and better manage patients at high risk for readmission.

McKesson Medical-Surgical offers several lab testing products to help provide quicker diagnostic results.

Ready to move beyond CLIA waived testing?

If you are ready to expand your testing capabilities from CLIA waived to CLIA moderately complex, our team of experts at MedSol can provide the support you need.



Learn more at: mms.mckesson.com/medsol



Sepsis Clinical Diagnosis Guidelines

Suspected Infection **Pre-Sepsis Infection Sepsis** & 2> SIRS* Criteria New onset of fever/chills New onset of fever/chills Monitor for progression into Multisystem (temp > 101.5, WBC > 12K),(temp > 101.5, WBC > 12K),Organ Dysfunction Syndrome, Progression Patient currently on antibiotic. Pulse > 100. BP Systolic < 100 or of symptoms despite treatment, Tissue Cough/SOB, Cellulitis/Wound mmHg or systolic blood pressure fall > hypoperfusion - Lactate > 2.0 mmol/L, Drainage, Weakness 40 mmHg, Respiratory Rate > 20-25 / Urine output < 400ml in 24 hrs, Systolic SpO2 < 90%, Altered mental state BP < 90 despite IV fluids or systolic blood pressure fall > 40 mmHg from baseline, If 1 SIRS criteria met begin **Screen**: Urine Culture, CBC w diff, · If 2 SIRS criteria are met begin Altered mental state Treatment: Chest X-ray, Basic Metabolic Profile If 3 SIRS or more criteria Transfer: Temp or WBC change must be one of two criteria: Educate Resident/family about status, Consider transferring to another level Review Advance Directives CBC w diff. lactate level, blood cultures of care - acute, palliative, or hospice

Systemic Inflammatory Response Syndrome (SIRS) was developed based on clinical and laboratory abnormalities to define a set of clinical parameters for early identification of sepsis. Earlier recognition, more timely management, and aggressive treatment protocol is necessary to prevent progression to severe sepsis.

Home Care Adult Sepsis Screening Flow Chart

Follow these steps to better diagnose sepsis in home care patients.

Step 1: Home Visit

Nurse completes an Adult Sepsis Screening Assessment for each home visit by asking the following questions:

- 1. Does the patient have a suspicion for infection?
- 2. Does the patient have 2 or more systemic criteria present for sepsis?
- 3. Is there at least one new Sepsis related organ dysfunction criteria present?

Based on the answers from Step 1, see the appropriate follow-up response in Step 2.



Answers to 1, 2, & 3 are "No"

STOP

Complete a new
Adult Sepsis
Screen
Assessment
at next
home visit

Answers to 1 is "Yes" but 2 and 3 are "No"

PATIENT MEETS CRITERIA FOR INFECTION

Educate patient on signs and symptoms of sepsis

Step 2: Follow-Up

Answers to 2 and/or 3 are "Yes"

PATIENT MEETS CRITERIA FOR MD NOTIFICATION

Document findings, educate patient on signs and symptoms of sepsis and notify MD Answers to 1 & 2 are "Yes" but 3 is "No"

PATIENT MEETS CRITERIA FOR SEPSIS

Document findings, educate patient on signs and symptoms of sepsis and treatment, notify MD and obtain order to draw CBC Answers to 1, 2 & 3 are "Yes"

PATIENT MEETS CRITERIA FOR SEVERE SEPSIS

Document findings, educate patient on signs and symptoms of sepsis and treatment, notify provider, patient to be transported to the emergency department

Step 3: Interventions

If needed, refer to Sepsis Screening - SBAR Form for determination of interventions.



	MANUFACTURER	MANUFACTURER #	ITEM DESCRIPTION
LAB TESTS			
	Abbott Point Of Care	04J48-50	Distribution Kit, i-STAT Moderate w/Downloader D/S
900	Abbott Point of Care	09P3125	Cartridge, i-STAT Chem 8+ crd (25/BX)
	Abbott Point of Care	03P8550	Cartridge, i-STAT CG4 Lactate CRD (25/BX)
	McKesson	900MCKSP	Starter Package, Hemoglobin Analyzer Kit w/1 BG Microcuvette
	McKesson	900-100MCK	Microcuvette for Hemoglobin Analyzer
E III LE E E E E	Roche	4837975001	Blood Coagulation Meter Kit Coaguchek® XS 8 µL Sample
	Roche	04625315160	Test Strip, PT Coagucheck® XS PT Prof 2x24 (48/EA)



	MANUFACTURER	MANUFACTURER #	ITEM DESCRIPTION
LAB TESTS			
	Arkray	500001	Assure® Blood Glucose Meter
	Arkray	500050	Assure® Platinum Blood Glucose Test Strip 50/BX
	McKesson	121-10SGPROMO5	Analyzer/Test Strip Kit, Urine Promo (5VL/CS)
	McKesson	121-10SG	Urine Test Strip, 10SG F/121-120ANALYZ (100/VL 12V)
	McKesson	121-071	Control, Urine Dipper LEV1&2 12 ml (4/BX)
INDICATORS			
	Welch Allyn	71WT-B	Welch Allyn Connex® Spot Monitor
	Welch Allyn	H-BP100SBP	B/P Monitor for Home Use 1Tube Child/Adult

	MANUFACTURER	MANUFACTURER #	ITEM DESCRIPTION
INDICATORS			
	McKesson	01-768-641-11ABKGM	Adult Sphyg/Sprague B/P Kit, LF Black
	McKesson	01-670BKGM	Lumeon® Classic Stethoscope Dbl Sided Chestpiece 28" Black
	ЗМ	2201	Littmann® Classic Stethoscope II S.E. Dbl Sided Chestpiece 28" Black
₩	Mabis	10-448-130	Disposable Stethoscope Dispos-A-Scope® Yellow 1-Tube 30"
	McKesson	16-93651	Handheld Finger Pulse Oximeter



	MANUFACTURER	MANUFACTURER #	ITEM DESCRIPTION
INDICATORS			
	Health O Meter	895KLT	Floor Scale, Digital Audio Display 550 lbs. Battery Operated
	Health O Meter	1100KL	Scale, 3 Sided Hand Rail Bariatric
T	Health O Meter	500KL	Scale, Physician Dig w/Ht Rod 500 lb
	Health O Meter	895KLT	Scale, Digital Floor Talking Bilingual 550 lb CAP
	McKesson	16-415GMHT	Oral Digital Thermometer
€85	ADC	427	Adtemp™ Digital Temporal Thermometer Infrared Probe Handheld



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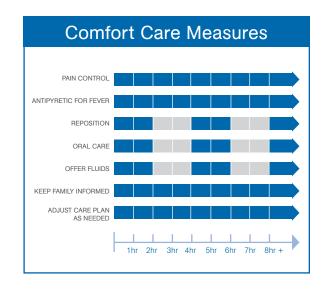
Sepsis can be identified based on specific screening and diagnostic criteria.

Stay in Facilty

Establish IV access for the following:

- IV normal saline 0.9% normal saline/sodium chloride
 @ 30ml/kg if BP <100
- · Administer IV, IM or PO antibiotics
- · Comfort Care Measures

We offer an array of products and solutions to help prevent and treat sepsis. Speak to your McKesson Account Manager about the resources we have to support quality care. You may also refer to the information found in this resource guide.



		MANUFACTURER	MANUFACTURER #	ITEM DESCRIPTION
	IV HYDRATION			
		McKesson	25-8821	IV Start Kit, w/Tegaderm STR LF
		EMED Technologies	SUB-109-G24	SUBQ Infusion Set SUB-Q 24 g 9 mm 36" Tubing w/o Port
(1		EMED Technologies	SUB-400	SUBQ Infusion Set SUB-Q 27 g 6 mm 36" Tubing Bifur w/o Port
	EMED Technologies	SUB-250	SUBQ Infusion Set SUB-Q 27 g 6 mm 36" Tubing w/o Port	
	S	Norfolk Medical Products	HDC2500	Aqua-C Hydration System Hypodermoclysis

	MANUFACTURER	MANUFACTURER #	ITEM DESCRIPTION
IV HYDRATION			
	B. Braun	L8000	IV Solution Normal Saline 0.9% 1000 cc
	B. Braun	L8001	IV Solution Normal Saline 0.9% 500 cc
N Sing and a single sin	B. Braun	S8004-5384	IV Solution Normal Saline 0.9% 50 cc
A STATE OF THE STA	Hospira	798309	IV Solutions Sodium Chloride 0.9% 1000 ml Bag Preservative Free
	Hospira	798302	IV Solutions Sodium Chloride 0.9% 250 ml Bag Preservative Free
	Baxter	2B1324X	IV Solutions Sodium Chloride 0.9% 1000 ml Bag Preservative Free
	Baxter	2B1323Q	IV Solutions Sodium Chloride 0.9% 500 ml Bag Preservative Free
	Baxter	2B1322Q	IV Solutions Sodium Chloride 0.9% 250 ml Bag Preservative Free
	B. Braun	352894	IV Admin Set, Safeday 15DPM 2 Port CKVLV 106"
	B. Braun	473438	Extension Set 8" Tubing — 1 Port 0.61 Priming Volume DEHP-Free
	Hospira	1468728	Primary Plumset™ 15 Drops/ml Drip Rate 103" Tubing 2 Port
	Baxter	2C8519	Clearlink™ Administration Set 10 Drops/ml Drip Rate 113" 2 Port

	MANUFACTURER	MANUFACTURER #	ITEM DESCRIPTION
IV HYDRATION			
	B. Braun	4251652-02	Introcan Safety® Peripheral IV CATH 22 g 1" Sliding Safety Needle
	B. Braun	4251628-02	Introcan Safety® Peripheral IV CATH 20 g 1" Sliding Safety Needle
	B. Braun	4252500-02	Introcan Safety® Peripheral IV CATH 24 g 3/4" Sliding Safety Needle
	Bard	IV0520	Statlock® Ultra IV Catheter Stabilization Device

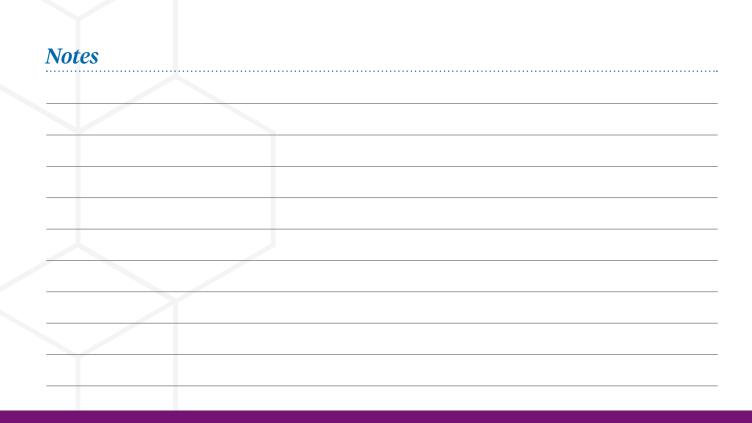
	MANUFACTURER	MANUFACTURER #	ITEM DESCRIPTION
ORAL HYDRATION			
	Kent Precision Foods	J585-C6800	Thickened Water Thick-It® AquaCareH2O® 8 oz. Bottle Unflavored Ready to Use Nectar
The Control of the Co	Kent Precision Foods	L9044	Thickened Water Thick-It®AquaCareH2O® 8 oz Bottle Unflavored Ready to Use Nectar
US I A YORK O	Kent Precision Foods	X380-MC600	Electrolyte Replenishment Drink Mix Sqwincher Powder Pack™ Fruit Punch Flavor 9.53 oz
	Kent Precision Foods	X397-MD600	Electrolyte Replenishment Drink Mix Sqwincher Zero Grape Flavor 1.76 oz
IV ANTIBIOTICS			
	APP Pharmaceuticals	63323040220	Aztreonam, SDV 2 gm/30 ml (10/CT) APPNOV
	Pharma/Amneal Bio	70121145307	Meropenem, VL 1 g/30 ml (10/CT)
OCURRA AND AND AND AND AND AND AND AND AND AN	Pharma/Amneal Bio	70121145407	Meropenem, VL 500 mg/20 ml (10/CT)
Desproaved to the state of the	APP Phamaceuticals	63323032225	Imipenem Cilastatin SOD, SDV 500 mg/20 ml (25/B)
	Fresenius USA	63323096010	Tigecycline, SDV 50 mg/10 ml (10/CT)

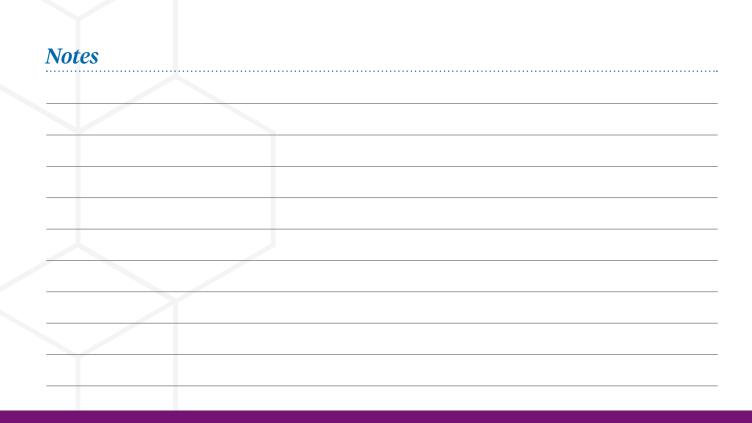
		MANUFACTURER	MANUFACTURER #	ITEM DESCRIPTION
	IV ANTIBIOTICS			
CCSSICL-40-20 40000 AZTRED NAM FOR BLECTION, USP 2 transs / Wall Single Rose Age 8 trans / Wall	Hospira	409781124	Metronidazole, SDV 500 mg/100 ml (24/CS)	
	Akorn	17478010720	Levofloxacin, VL 25 mg/20 ml	
	APP Pharmaceuticals	63323040120	Aztreonam, SDV 1 gm/20 ml (10/CT) APPNOV	
	Sagent Pharmaceuticals	25021012250	Cefepime HCL, VL 2 gm/20 ml (10/CT) 9SAGPH	
	Sagent Pharmaceuticals	25021012120	Cefepime HCL, VL 1 gm/20 ml (10/CT) 9SAGPH	
	For IV or IM use after the state of the stat	West Ward Pharmaceuticals	143985925	Cefriaxone, VL PDR 250 mg/10 ml (25/CT) 9 West
	Sandoz	781320785	Ceftriaxone, VL 500 mg/15 ml	
	Sandoz	781320895	Ceftriaxone Sod, VL 1 gm (10/CT)	

	MANUFACTURER	MANUFACTURER #	ITEM DESCRIPTION
PAIN RELIEF			
	McKesson	60-941-01	lbuprofen, Tab 200 mg
M-PROFES	McKesson	60-921-01	Aspirin, 325 mg EC Tab
	McKesson	60-201-01	Acetaminophen, 500 mg Tab



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MSKESSON

For more information on the McKesson Readmissions Resource™, visit mms.mckesson.com/readmissions-care.

Have additional questions?

Contact our Clinical Resource Team at readmissionsresourceinfo@mckesson.com.

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