

Department of Veterans Affairs Office of Inspector General

Office of Healthcare Inspections

Report No. 16-00564-170

Clinical Assessment Program Review of the VA Central Iowa Health Care System Des Moines, Iowa

April 14, 2017

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Glossary

CAP Clinical Assessment Program

CBOC community based outpatient clinic

CNH community nursing home
EHR electronic health record
EOC environment of care

facility VA Central Iowa Health Care System

FY fiscal year
MH mental health
NA not applicable

NM not met

OIG Office of Inspector General

PC primary care

POCT point-of-care testing

QSV quality, safety, and value

RME reusable medical equipment

RRTP residential rehabilitation treatment program

SPS Sterile Processing Service

VHA Veterans Health Administration

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Executive Summary

Purpose and Objectives: The review provided a focused evaluation of the quality of care provided in the inpatient and outpatient settings of the VA Central Iowa Health Care System. We reviewed clinical and administrative processes that affect patient care outcomes—Quality, Safety, and Value; Environment of Care; Medication Management; Coordination of Care; Diagnostic Care; Moderate Sedation; Community Nursing Home Oversight; Management of Disruptive/Violent Behavior; and Mental Health Residential Rehabilitation Treatment Program. We also followed up on recommendations from the previous Combined Assessment Program and Community Based Outpatient Clinic and Primary Care Clinic reviews and provided crime awareness briefings.

Results: We conducted the review during the week of December 5, 2016, and identified certain system weaknesses in credentialing and privileging, utilization management, patient safety, general safety, environmental cleanliness, transfer documentation, point-of-care testing, history and physical examinations prior to moderate sedation procedures, training related to the management of disruptive and violent behavior, and Mental Health Residential Rehabilitation Treatment Program safety.

Review Impact: As a result of the findings, we could not gain reasonable assurance that:

- 1. The facility has an effective process for reviewing Ongoing Professional Practice Evaluation data.
- 2. Utilization management decisions are made with physician advisors' input.
- 3. Root cause analysis feedback is provided to those who reported the incident.
- 4. The facility provides a safe and clean environment of care.
- 5. The facility has effective processes to ensure the safe transfer of patients.
- 6. The facility has effective processes and procedures for glucose point-of-care testing.
- 7. Clinicians assess patients prior to moderate sedation procedures.
- 8. The facility effectively trains employees to manage disruptive or violent behavior.
- 9. The facility maintains a safe Mental Health Residential Rehabilitation Treatment Program environment.
- 10. The Marshalltown community based outpatient clinic had sustained improvements in the required reviews of its hazardous materials inventory.

Recommendations: We made recommendations in the following seven review areas.

Quality, Safety, and Value - Ensure that:

- Facility clinical managers consistently review Ongoing Professional Practice Evaluation data every 6 months.
- Physician Utilization Management Advisors consistently document their decisions in the National Utilization Management Integration database.
- The Patient Safety Manager provides feedback about root cause analysis findings to the individual or department who reported the incident.

Environment of Care - Ensure that:

- Environment of Care Council meeting minutes document discussion of environment of care rounds deficiencies, include corrective actions taken to address rounds deficiencies, and track actions taken in response to identified deficiencies to closure.
- Fire extinguisher locations are clearly identified.
- Information technology network room visitor logs contain all the required elements.
- Employees store expired medications separately from medications available for administration.
- Ice machines and refrigerators in patient nourishment kitchens are clean.
- Standard operating procedures for the bronchoscope are consistent with the manufacturer's instructions for use.

Coordination of Care: Inter-Facility Transfers – Ensure that:

- The facility collects and reports data on patient transfers out of the facility.
- Transfer notes written by acceptable designees contain a staff/attending physician countersignature.

Diagnostic Care: Point-of-Care Testing – Ensure that:

- Clinicians take and document all actions required by the facility in response to test results.
- The point-of-care testing procedure manual is readily available to employees.
- Glucometers are clean before and after use.

Moderate Sedation - Ensure that:

 Providers perform history and physical examinations within 30 calendar days prior to the moderate sedation procedure.

Management of Disruptive/Violent Behavior – Ensure that:

 All employees receive Level 1 Prevention and Management of Disruptive Behavior training and additional training as required for their assigned risk area within 90 days of hire and that the training is documented.

Mental Health Residential Rehabilitation Treatment Program – Ensure that:

• The facility corrects the deficiencies identified for the program and that documentation reflects correction actions taken.

We also made the following repeat recommendation.

Follow-Up on Environment of Care – Ensure that:

• The review of hazardous materials inventory occurs twice within a 12-month period at the Marshalltown community based outpatient clinic.

Comments

The Veterans Integrated Service Network Director and Facility Director agreed with the Clinical Assessment Program review findings and recommendations and provided acceptable improvement plans. (See Appendixes E and F, pages 42–49, for the full text of the Directors' comments.) We will follow up on the planned actions until they are completed.

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Purpose and Objectives

Purpose

This CAP review provided a focused evaluation of the quality of care provided in the inpatient and outpatient settings of the facility.

Objectives

CAP reviews are one element of OIG's efforts to ensure that our Nation's veterans receive high quality VA health care services. The reviews include cyclical evaluations of key clinical and administrative processes that affect patient care outcomes. Areas of focus include QSV, EOC, Medication Management, Coordination of Care, and Diagnostic Care.

OIG also evaluates processes that are high risk and problem-prone. During this cycle, Moderate Sedation, CNH Oversight, Management of Disruptive/Violent Behavior, and MH RRTP are processes that are high risk and problem-prone. We also followed up on recommendations from the previous Combined Assessment Program and CBOC and PC Clinic reviews.

Additionally, OIG provides crime awareness briefings to increase employee understanding of the potential for program fraud and the requirement to refer suspected criminal activity to OIG.

Background

We evaluate key aspects of clinical care delivery in a variety of primary/specialty care and inpatient/outpatient settings. These aspects include QSV, EOC, Medication Management, Coordination of Care, and Diagnostic Care (see Figure 1 below).

Environment of Care Management
Quality, Safety,
and Value
Diagnostic Care Coordination of Care

Figure 1. Comprehensive Coverage of Continuum of Care

Source: VA OIG

Quality, Safety, and Value

According to the Institute of Medicine (now the National Academy of Medicine), there are six important components of a health care system that provides high quality care to individuals. The system:

- 1. Is safe (free from accidental injury) for all patients, in all processes, all the time.
- 2. Provides care that is effective (care that, wherever possible, is based on the use of systematically obtained evidence to make determinations regarding whether a preventive service, diagnostic test, therapy, or no intervention would produce the best outcome).
- 3. Is patient-centered. This concept includes respect for patients' values and preferences; coordination and integration of care; information, communication, and education; physical comfort; and involvement of family and friends.
- 4. Delivers care in a timely manner (without long waits that are wasteful and often anxiety-provoking).
- 5. Is efficient (uses resources to obtain the best value for the money spent).
- 6. Is equitable (bases care on an individual's needs and not on personal characteristics—such as gender, race, or insurance status—that are unrelated to the patient's condition or to the reason for seeking care).¹

VA states that one of its strategies is to deliver high quality, veteran-centered care that compares favorably to the best of the private sector in measured outcomes, value, efficiency, and patient experience.²

Environment of Care

All facilities face risks in the environment, including those associated with safety and security, fire, hazardous materials and waste, medical equipment, and utility systems. The EOC is made up of three basic elements: (1) the building or space; (2) equipment used to support patient care; and (3) people, patients, and anyone else who enters the environment.³

The physical environment shapes every patient experience and all health care delivery, including those episodes of care that result in patient harm. Three patient safety areas are markedly influenced by the environment—health care-associated infections, medication safety, and falls. Because health care-associated infections are transmitted through air, water, and contact with contaminated surfaces, the physical environment plays a key role in preventing the spread of infections in health care settings. Medication safety is markedly influenced by physical environmental conditions, including light levels and workspace organization. Environmental features, such as the

¹ Teleki SS, Damberg, CL, Reville RT. *Quality of Health Care: What Is It, Why Is It Important, and How Can It Be Improved in California's Workers Compensation Programs?* Santa Monica: RAND Corporation; May 2003 Quality and Workers' Compensation Working Draft.

² Department of Veterans Affairs, Veterans Health Administration. *Blueprint for Excellence*. September 2014.

³ The Joint Commission. *Comprehensive Accreditation Manual for Hospitals: E-dition*®: Joint Commission Resources; July 2016: Environment of Care (EC).

placement of doorways, flooring type, and the location of furniture, can contribute to patient falls and associated injuries.⁴

Medication Management

Comprehensive medication management is defined as the standard of care that ensures clinicians individually assess each patient's medications to determine that each is appropriate for the patient, effective for the medical condition, safe given the comorbidities and other medications prescribed, and able to be taken by the patient as intended. Medications are involved in 80 percent of all treatments and impact every aspect of a patient's life. Drug therapy problems occur every day. The Institute of Medicine (now the National Academy of Medicine) noted that while medications account for only 10 percent of total health care costs, their ability to control disease and impact overall costs, morbidity, and productivity—when appropriately used—is enormous. The components of the medication management process include procuring, storing, securing, prescribing or ordering, transcribing, preparing. dispensing. administering.^{5,6}

Coordination of Care

Coordination of care is the process of coordinating care, treatment, or services provided by a facility, including referring individuals to appropriate community resources to meet ongoing identified needs, implementing the plan of care, and avoiding unnecessary duplication of services. Coordination of care is recognized as a major challenge in the safe delivery of care. The rise of chronic illness means that a patient's care, treatment, and services likely will involve an array of providers in a variety of health care settings, including the patient's home.⁷

In a 2001 report entitled "Crossing the Quality Chasm: A New Health System for the 21st Century," the Institute of Medicine (now the National Academy of Medicine) noted that, "Because of the special vulnerability that accompanies illness or injury, coordination of care takes on special importance. Many patients depend on those who provide care to coordinate services whether tests, consultations, or procedures to ensure that accurate and timely information reaches those who need it at the appropriate time." Health care providers and organizations need to work together to coordinate their efforts to provide safe, quality care.⁸

⁴ Joseph A, Malone EB. *The Physical Environment: An Often Unconsidered Patient Safety Tool*. Agency for Healthcare Research and Quality. Patient Safety Network; October 2012.

⁵ Patient-Centered Primary Care Collaborative. *The Patient-Centered Medical Home: Integrating Comprehensive Medication Management to Optimize Patient Outcomes, Resource Guide*. 2nd ed; June 2012.

⁶ The Joint Commission. *Comprehensive Accreditation Manual for Hospitals: E-dition*®: Joint Commission Resources; July 2016: Medication Management (MM).

⁷ The Joint Commission. *Comprehensive Accreditation Manual for Hospitals: E-dition*®: Joint Commission Resources; July 2016: Provision of Care, Treatment, and Services (PC).

⁸ Institute of Medicine. *Crossing the Quality Chasm: A New Health System for the 21st Century.* The National Academies Press; March 2001.

Diagnostic Care

The diagnostic process is a complex, patient-centered, collaborative activity that involves information gathering and clinical reasoning with the goal of determining a patient's health problem. Diagnostic testing may occur in successive rounds of information gathering, integration, and interpretation, with each round refining the working diagnosis. In many cases, diagnostic testing can identify a condition before it is clinically apparent; for example, an imaging study indicating the presence of coronary artery blockage can identify coronary artery disease even in the absence of symptoms. PC clinicians order laboratory tests in slightly less than one third of patient visits, and direct-to-patient testing is becoming increasingly prevalent.⁹

Medical imaging also plays a critical role in establishing the diagnoses for many conditions. The advancement of imaging technologies has improved the ability of clinicians to detect, diagnose, and treat conditions while also allowing patients to avoid more invasive procedures. Performed appropriately, diagnostic care facilitates the provision of timely, cost-effective, and high quality medical care.¹⁰

High-Risk and Problem-Prone Health Care Processes

Health care leaders must give priority to high-volume, high-risk, or problem-prone processes for performance improvement activities. ¹¹ Specifically, they are responsible for identifying high-risk areas that could cause harm to patients, visitors, and employees; implementing programs to avert risks; and managing a robust reporting process for adverse events that do occur. But of all of their responsibilities, one of the most important is focusing on improving patient safety. ¹²

Moderate sedation is a drug-induced depression of consciousness during which patients respond purposefully to verbal comments.¹³ Properly credentialed providers and trained clinical staff must provide safe care while sedating patients for invasive procedures. Additionally, facility leaders must monitor moderate sedation adverse events, report and trend the use of reversal agents, and systematically aggregate and analyze the data to enhance patient safety and performance.¹⁴

⁹ Committee on Diagnostic Error in Health Care. Balogh EP, Miller BT, Ball JR, eds. *Improving Diagnosis in Health Care*. Washington, DC: The National Academies Press; 2015: Chap. 2.

¹⁰ Department of Veterans Affairs. Patient Care Services. Diagnostic Services. http://www.patientcare.va.gov/diagnosticservices.asp. Accessed September 21, 2016.

The Joint Commission. *Comprehensive Accreditation Manual for Hospitals: E-dition*®: Joint Commission Resources; July 2016: Leadership (LD) Accreditation Requirements, LD.04.04.01, EP2.

¹² Bickmore, AM. Streamlining the Risk Management Process in Healthcare to Improve Workflow and Increase Patient Safety, *HealthCatalyst*, https://www.healthcatalyst.com/streamlining-risk-management-process-healthcare.

¹³American Society of Anesthesiologists (ASA), Practice Guidelines for Sedation and Analgesia by Non-Anesthesiologists, 2002. Anesthesiology 2002; 96:1004-17.

¹⁴ VHA Directive 1073, *Moderate Sedation by Non-Anesthesiology Providers*, December 30, 2014.

As of October 2016, VHA has contracts with more than 1,800 CNHs where more than 9,500 veteran patients reside. These CNHs may be within close proximity to a VA facility or located hundreds of miles away. VHA requires local oversight of CNHs, which includes monitoring and follow-up services for patients who choose to reside in nursing homes in the community. This involves annual reviews and monthly patient visits unless otherwise specified. ¹⁶

According to the U.S. Bureau of Labor Statistics, health care workers are nearly five times more likely to be victims of nonfatal assaults or violent acts in their work places than average workers in all industries combined, and many of these assaults and violent acts are perpetrated by patients.¹⁷ Management of disruptive/violent behavior is the process of reducing and preventing disruptive behaviors and other defined acts that threaten public safety through the development of policy, programs, and initiatives aimed at patient, visitor, and employee safety.¹⁸ VHA has a directive that addresses the management of all individuals in VHA facilities whose behavior could jeopardize the health or safety of others, undermine a culture of safety in VHA, or otherwise interfere with the delivery of health care at a facility; however, staff training deadlines have been postponed several times.

MH RRTPs provide 24-hour residential rehabilitative and clinical care in a therapeutic setting to eligible veterans who have multiple and severe medical conditions, mental illness, addiction, or psychosocial deficits. They provide the least intensive level of VA inpatient care and differ from acute inpatient and nursing home beds as veterans in MH RRTPs are generally capable of self-care. MH RRTPs address rehabilitation, recovery, health maintenance, improved quality of life, and community integration in addition to specifically treating medical conditions, mental illnesses, and addictive disorders. Facility leaders must provide a safe, well-maintained, and appropriately-furnished residential environment that supports and enhances recovery efforts.¹⁹

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¹⁵ VA Corporate Data Warehouse. Accessed October 31, 2016.

¹⁶ VHA Handbook 1143.2, VHA Community Nursing Home Oversight Procedures, June 4, 2004.

¹⁷ U.S. Bureau of Labor Statistics. Janocha JA, Smith RT. *Workplace Safety and Health in the Health Care and Social Assistance Industry*, 2003–07. http://www.bls.gov/opub/mlr/cwc/workplace-safety-and-health-in-the-health-care-and-social-assistance-industry-2003-07.pdf. August 30, 2010. Accessed October 28, 2016.

¹⁸ VHA Directive 2012-026, Sexual Assaults and Other Defined Public Safety Incidents in Veterans Health Administration (VHA) Facilities, September 27, 2012.

¹⁹ VHA Handbook 1162.02, *Mental Health Residential Rehabilitation Treatment Program (MH RRTP)*, December 22, 2010.

Scope

To evaluate for compliance with requirements related to patient care quality, clinical functions, and the EOC, we physically inspected selected areas, discussed processes and validated findings with managers and employees, and reviewed clinical and administrative records. The review covered the following five aspects of clinical care.

- Quality, Safety, and Value
- Environment of Care
- Medication Management: Anticoagulation Therapy
- Coordination of Care: Inter-Facility Transfers
- Diagnostic Care: Point-of-Care Testing

We also evaluated four additional review areas because of inherent risks and potential vulnerabilities.

- Moderate Sedation
- Community Nursing Home Oversight
- Management of Disruptive/Violent Behavior
- Mental Health Residential Rehabilitation Treatment Program

We list the review criteria for each of the review areas in the topic checklists. Some of the items listed may not have been applicable because of a difference in size, function, or frequency of occurrence.

The review covered operations for FY 2015, FY 2016, and FY 2017 through December 9, 2016, and inspectors conducted the reviews in accordance with OIG standard operating procedures for CAP reviews. We also asked the facility to provide the status on the recommendations we made in our previous Combined Assessment Program report (Combined Assessment Program Review of the VA Central Iowa Health Care System, Des Moines, Iowa, Report No. 13-03621-57, February 3, 2014) and CBOC report (Community Based Outpatient Clinic and Primary Care Clinic Reviews at VA Central Iowa Health Care System, Des Moines, Iowa, Report No. 13-03414-46, January 21, 2014). We made a repeat recommendation in EOC at the Marshalltown CBOC. (See page 29.)

We presented crime awareness briefings for 11 employees, and an additional briefing is planned in April 2017. These briefings cover procedures for reporting suspected criminal activity to OIG and include case-specific examples illustrating procurement fraud, conflicts of interest, and bribery.

Additionally, we surveyed employees regarding patient safety and quality of care at the facility. We distributed an electronic survey to all facility employees and received 382 responses. We shared summarized results with facility managers.

In this report, we make recommendations for improvement. Recommendations pertain to issues that are significant enough for OIG to monitor until the facility implements corrective actions. Issues and concerns that come to our attention but are outside the scope of this CAP review will be considered for further review separate from the CAP process and may be referred accordingly.

Results and Recommendations

Quality, Safety, and Value

The purpose of this review was to determine whether the facility complied with selected QSV program requirements.^a VHA requires that its facilities operate a QSV program to monitor patient care quality and performance improvement activities. Many QSV activities are required by VHA directives, accreditation standards, and Federal regulations. Public Law 100-322 mandates VA's OIG to oversee VHA quality improvement programs at every level. This review focuses on the following program areas.

- Senior-level committee or group with responsibility for QSV/performance improvement
- Protected peer review
- Credentialing and privileging
- Utilization management
- Patient safety

We interviewed senior managers and key QSV employees, and we evaluated meeting minutes, 25 licensed independent practitioners' profiles, 10 protected peer reviews, 5 root cause analyses, and other relevant documents. The table below shows the areas reviewed for this topic. The areas marked as NM did not meet applicable requirements and needed improvement.

Checklist 1. QSV Areas Reviewed, Findings, and Recommendations

NM	Areas Reviewed	Findings	Recommendations
	There was a senior-level committee responsible for key QSV functions that met		
	at least quarterly and was chaired or		
	co-chaired by the Facility Director.		
	The committee routinely reviewed		
	aggregated data.		

NM	Areas Reviewed (continued)	Findings	Recommendations
X	 Credentialing and privileging processes met selected requirements: Facility policy/by-laws specified a frequency for clinical managers to review practitioners' Ongoing Professional Practice Evaluation data. Facility clinical managers reviewed Ongoing Professional Practice Evaluation data at the frequency specified in the policy/by-laws. The facility set triggers for when a Focused Professional Practice Evaluation for cause would be indicated. 	Six of the 25 profiles did not contain evidence that clinical managers reviewed Ongoing Professional Practice Evaluation data every 6 months.	We recommended that facility clinical managers consistently review Ongoing Professional Practice Evaluation data every 6 months and that facility managers monitor compliance.
X	Protected peer reviews met selected requirements: Peer reviewers documented their use of important aspects of care in their review, such as appropriate and timely ordering of diagnostic tests, timely treatment, and appropriate documentation. When the Peer Review Committee recommended individual improvement actions, clinical managers implemented the actions. Utilization management met selected requirements: The facility completed at least 75 percent of all required inpatient reviews. Physician Utilization Management Advisors documented their decisions in the National Utilization Management Integration database. An interdisciplinary group reviewed	For 40 of the 64 cases (63 percent) referred to Physician Utilization Management Advisors October 5–December 5, 2016, there was no evidence that advisors documented their decisions in the National Utilization Management Integration database.	2. We recommended that Physician Utilization Management Advisors consistently document their decisions in the National Utilization Management Integration database and that facility managers monitor compliance.

NM	Areas Reviewed (continued)		Findings	Recommendations
X	 Patient safety met selected requirements: The Patient Safety Manager entered all reported patient incidents into the WEBSPOT database. The facility completed the required minimum of eight root cause analyses. The facility provided feedback about the root cause analysis findings to the individual or department who reported the incident. At the completion of FY 2016, the Patient Safety Manager submitted an annual patient safety report to facility leaders. 	•	For the four applicable root cause analyses, the Patient Safety Manager did not provide feedback about the findings to the individual or department who reported the incident.	3. We recommended that the Patient Safety Manager provide feedback about root cause analysis findings to the individual or department who reported the incident and that facility managers monitor compliance.
	Overall, if QSV reviews identified significant issues, the facility took actions and evaluated them for effectiveness.			
	Overall, senior managers actively participated in QSV activities.			

Environment of Care

The purpose of this review was to determine whether the facility maintained a clean and safe health care environment in accordance with applicable requirements. We also determined whether the facility met selected requirements in SPS.^b

VHA must manage risks in the environment in order to promote a safe, functional, and supportive environment. Further, VHA must establish a systematic infection prevention and control program to reduce the possibility of acquiring and transmitting infections. We selected the hemodialysis unit and SPS as special emphasis areas due to the increased potential for exposure to infectious agents inherent to hemodialysis and procedures using RME. Hemodialysis patients are at higher risk for infections for various reasons, including that hemodialysis requires vascular access for prolonged periods of time and that opportunities exist for transmission of infectious agents when multiple patients receive dialysis concurrently. RME is intended for repeated use on different patients after being reprocessed through cleaning, disinfection, and/or sterilization. Patients undergoing procedures using RME are at higher risk of exposure to infectious agents if RME is not properly reprocessed.

We inspected the community living center, the Emergency Department, the intensive care unit, inpatient units (medical/surgical and acute MH), PC and specialty care clinics, the Mason City CBOC, and SPS. Additionally, we reviewed relevant documents and nine employee training records, and we interviewed key employees and managers. The table below shows the areas reviewed for this topic. The areas marked as NM did not meet applicable requirements and needed improvement. Any items that did not apply to this facility are marked NA.

Checklist 2. EOC Areas Reviewed, Findings, and Recommendations

NM	Areas Reviewed for General EOC	Findings	Recommendations
X	EOC Committee minutes reflected sufficient detail regarding identified deficiencies, corrective actions taken, and tracking of corrective actions to closure for the facility and the CBOCs.	Six months of EOC Council meeting minutes reviewed: Minutes did not include consistent discussion of EOC rounds deficiencies. Minutes did not include corrective actions taken to address rounds deficiencies or track corrective actions to closure.	4. We recommended that Environment of Care Council meeting minutes document discussion of environment of care rounds deficiencies, include corrective actions taken to address rounds deficiencies, and track actions taken in response to identified deficiencies to closure.
	The facility conducted an infection prevention risk assessment.		

NM	Areas Reviewed for General EOC (continued)	Findings	Recommendations
	Infection Prevention/Control Committee minutes documented discussion of identified high-risk areas, actions implemented to address those areas, and follow-up on implemented actions and included analysis of surveillance activities and data. The facility had established a procedure for cleaning equipment between patients. The facility conducted required fire drills in buildings designated for health care occupancy and documented drill critiques. The facility had a policy/procedure/guideline for identification of individuals entering the facility, and units/areas complied with		
X	requirements. The facility met general safety requirements.	 In three of eight patient care areas, fire extinguishers were not identified when recessed in the wall and obscured from view. In three of four applicable patient care areas, information technology network room visitor logs did not contain all required elements, such as organization of person visiting and reason for visit. In two of eight patient care areas, expired medications were not stored separately from medications available for administration. 	 5. We recommended that facility managers ensure fire extinguisher locations are clearly identified. 6. We recommended that facility managers ensure information technology network room visitor logs contain all the required elements and monitor compliance. 7. We recommended that employees store expired medications separately from medications available for administration and that facility managers monitor compliance.
X	The facility met environmental cleanliness requirements.	 In three of six applicable patient care areas, ice machines in patient nourishment kitchens were not clean. In four of five applicable patient care areas, refrigerators in patient nourishment kitchens were not clean. 	8. We recommended that facility managers ensure ice machines and refrigerators in patient nourishment kitchens are clean and monitor compliance.

NM	Areas Reviewed for SPS	Findings	Recommendations
	The facility had a policy for cleaning, disinfecting, and sterilizing RME.		
X	The facility's standard operating procedures for selected RME were current and consistent with the manufacturers' instructions for use. The facility performed quality control testing on selected RME with the frequency required by local policy and took appropriate action	Standard operating procedures for the bronchoscope were not consistent with the manufacturer's instructions for use.	9. We recommended that facility managers ensure standard operating procedures for the bronchoscope are consistent with the manufacturer's instructions for use.
	on positive results. Selected SPS employees had evidence of the following for selected RME: Training and competencies at orientation if employed less than or equal to 1 year Competencies within the past 12 months or with the frequency required by local policy if employed more than 1 year The facility met infection prevention		
	requirements in SPS areas. Standard operating procedures for selected RME were located in the area where reprocessing occurred. SPS employees checked eyewash stations in SPS areas weekly. SPS employees had access to Safety Data Sheets in areas where they used hazardous chemicals.		

NM	Areas Reviewed for the Hemodialysis Unit	Findings	Recommendations
NA	The facility had a policy or procedure for preventive maintenance of hemodialysis machines and performed maintenance at the frequency required by local policy.		
NA	Selected hemodialysis unit employees had evidence of bloodborne pathogens training within the past 12 months.		
NA	The facility met environmental safety requirements on the hemodialysis unit.		
NA	The facility met infection prevention requirements on the hemodialysis unit.		
NA	The facility met medication safety and security requirements on the hemodialysis unit.		
NA	The facility met privacy requirements on the hemodialysis unit.		

Medication Management: Anticoagulation Therapy

The purpose of this review was to determine whether facility clinicians appropriately managed and provided education to patients with new orders for anticoagulant medication.^c During FY 2016, more than 482,000 veterans received an anticoagulant. Anticoagulants (commonly called blood thinners) are a class of drugs that work to prevent the coagulation or clotting of blood. For this review, we evaluated warfarin (Coumadin®) and direct-acting oral anticoagulants. Clinicians use anticoagulants for both the treatment and prevention of cardiac disease, cerebrovascular accident (stroke), and thromboembolism²⁰ in both the inpatient and outpatient setting. Although these medications offer substantial benefits, their use or misuse carries a significant potential for patient harm. A dose less than the required amount for therapeutic effect can increase the risk of thromboembolic complications while a dose administered at levels greater than required for treatment can increase the risk of bleeding complications. The Joint Commission's National Patient Safety Goal 3.05.01 focuses on improving anticoagulation safety to reduce patient harm and states, "...anticoagulation medications are more likely than others to cause harm due to complex dosing, insufficient monitoring, and inconsistent patient compliance."

We reviewed relevant documents and the competency assessment records of 10 employees actively involved in the anticoagulant program, and we interviewed key employees. Additionally, we reviewed the EHRs of 50 randomly selected patients who were prescribed new anticoagulant medications July 1, 2015 through June 30, 2016. The table below shows the areas reviewed for this topic. The facility generally met requirements. We made no recommendations.

Checklist 3. Medication Management: Anticoagulation Therapy Areas Reviewed, Findings, and Recommendations

NM	Areas Reviewed	Findings	Recommendations
	The facility had policies and processes for		
	anticoagulation management that included		
	required content.		
	The facility used algorithms, protocols or		
	standardized care processes for the:		
	 Initiation and maintenance of warfarin 		
	 Management of anticoagulants before, 		
	during, and after procedures		
	Use of weight-based, unfractionated		
	heparin		

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²⁰ Thromboembolism is the obstruction of a blood vessel by a blood clot that has become dislodged from another site in the circulation.

NM	Areas Reviewed (continued)	Findings	Recommendations
	The facility provided patients with a direct		
	telephone number for anticoagulation-related		
	calls during normal business hours and		
	defined a process for patient		
	anticoagulation-related calls outside normal		
	business hours.		
	The facility designated a physician as the		
	anticoagulation program champion.		
	The facility defined ways to minimize the risk		
	of incorrect tablet strength dosing errors.		
	The facility routinely reviewed quality		
	assurance data for the anticoagulation		
	management program at the facility's		
	required frequency at an appropriate		
	committee.		
	For inpatients with newly prescribed		
	anticoagulant medications, clinicians		
	provided transition follow-up and education		
	specific to the new anticoagulant.		
	Clinicians obtained required laboratory tests:		
	 Prior to initiating anticoagulant 		
	medications		
	 During anticoagulation treatment at the 		
	frequency required by local policy		
	When laboratory values did not meet		
	selected criteria, clinicians documented a		
	justification/rationale for prescribing the		
	anticoagulant.		
	The facility required competency		
	assessments for employees actively involved		
	in the anticoagulant program, and clinical		
	managers completed competency		
	assessments that included required content		
	at the frequency required by local policy.		

Coordination of Care: Inter-Facility Transfers

The purpose of this review was to evaluate selected aspects of the facility's patient transfer process, specifically transfers out of the facility. Inter-facility transfers are frequently necessary to provide patients with access to specific providers or services. The movement of an acutely ill person from one institution to another exposes the patient to risks, while in some cases, failing to transfer a patient may be equally risky. VHA has the responsibility to ensure that transfers into and out of its medical facilities are carried out appropriately, under circumstances that provide maximum safety for patients, and comply with applicable standards.

We reviewed relevant documents and interviewed key employees. Additionally, we reviewed the EHRs of 50 randomly selected patients who were transferred acutely out of facility inpatient beds or the Emergency Department/urgent care center to another VHA facility or non-VA facility July 1, 2015 through June 30, 2016. The table below shows the areas reviewed for this topic. The areas marked as NM did not meet applicable requirements and needed improvement.

Checklist 4. Coordination of Care: Inter-Facility Transfers Areas Reviewed, Findings, and Recommendations

NM	Areas Reviewed	Findings	Recommendations
	The facility had a policy that addressed patient transfers and included required content.		
X	The facility collected and reported data about transfers out of the facility.	 There was no evidence the facility collected and reported data about transfers out of the facility. 	10. We recommended that the facility collect and report data on patient transfers out of the facility.
	Transferring providers completed VA Form 10-2649A and/or transfer/progress notes prior to or within a few hours after the transfer that included the following elements: • Date of transfer • Documentation of patient or surrogate informed consent • Medical and/or behavioral stability • Identification of transferring and receiving provider or designee • Details of the reason for transfer or proposed level of care needed		

NM	Areas Reviewed (continued)	Findings	Recommendations
X	 When staff/attending physicians did not write transfer notes, acceptable designees: Obtained and documented staff/attending physician approval Obtained staff/attending physician countersignature on the transfer note 	In two of the five applicable EHRs, transfer notes written by acceptable designees did not contain a staff/attending physician countersignature.	11. We recommended that facility managers ensure transfer notes written by acceptable designees contain a staff/attending physician countersignature and monitor compliance.
	When the facility transferred patients out, sending nurses documented transfer assessments/notes.		
	In emergent transfers, providers documented: Patient stability for transfer Provision of all medical care within the facility's capacity		
	Communication with the accepting facility or documentation sent included: • Available history • Observations, signs, symptoms, and preliminary diagnoses • Results of diagnostic studies and tests		

Diagnostic Care: Point-of-Care Testing

The purpose of this review was to evaluate the facility's glucometer POCT program compliance with applicable laboratory regulatory standards and quality testing practices as required by VHA, the College of American Pathologists, and The Joint Commission. The majority of laboratory testing is performed in the main laboratory. However, with newer technologies, testing has emerged from the laboratory to the patient's bedside, the patient's home, and other non-laboratory sites. This is called POCT (also known as ancillary or waived testing) and can include tests for blood glucose, fecal occult blood, hemoglobin, and pro-thrombin time.

All laboratory testing performed in VHA facilities must adhere to quality testing practices. These practices include annual competency assessment and quality control testing. Failure to implement and comply with regulatory standards and quality testing practices can jeopardize patient safety and place VHA facilities at risk. Erroneous results can lead to inaccurate diagnoses, inappropriate medical treatment, and poor patient outcomes.²¹

We reviewed relevant documents, the EHRs of 50 randomly selected inpatients and outpatients who underwent POCT for blood glucose July 1, 2015 through June 30, 2016, and the annual competency assessments of 43 clinicians who performed the glucose testing. Additionally, we interviewed key employees and conducted onsite glucometer inspections of the acute MH unit, the community living center, the Emergency Department, and PC and specialty care clinics to assess compliance with manufacturers' maintenance and solution/reagent storage requirements. The table below shows the areas reviewed for this topic. The areas marked as NM did not meet applicable requirements and needed improvement.

Checklist 5. Diagnostic Care: POCT Areas Reviewed, Findings, and Recommendations

NM	Areas Reviewed	Findings	Recommendations
	The facility had a policy delineating		
	requirements for the POCT program and		
	required oversight by the Chief of Pathology		
	and Laboratory Medicine Service.		
	The facility had a designated POCT/Ancillary		
	Testing Coordinator.		
	The Chief of Pathology and Laboratory		
	Medicine Service approved all tests		
	performed outside the main laboratory.		

²¹ The Joint Commission. Comprehensive Accreditation Manual for Laboratories and Point-of-Care Testing. Update 2. September 2010.

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NM	Areas Reviewed (continued)	Findings	Recommendations
	The facility had a process to ensure employee competency for POCT with		
	glucometers and evaluated competencies at least annually.		
	The facility required documentation of POCT results in the EHR.		
	A regulatory agency accredited the facility's POCT program.		
	Clinicians documented test results in the EHR.		
X	Clinicians initiated appropriate clinical action and follow-up for test results.	 In six EHRs (12 percent), clinicians did not document all the actions required by the facility in response to test results. 	12. We recommended that clinicians take and document all actions required by the facility in response to test results and that clinical managers monitor compliance.
X	The facility had POCT procedure manuals readily available to employees.	 The POCT procedure manual was not available to employees in two of five areas inspected. 	13. We recommended that the Chief of Pathology and Laboratory Medicine Service ensure the point-of-care testing procedure manual is readily available to employees.
	Quality control testing solutions/reagents and glucose test strips were current (not expired).		
	The facility managed and performed quality control in accordance with its policy/standard operating procedure and manufacturer's recommendations.		
Х	Glucometers were clean.	We found dried blood on glucometers in two of five areas.	14. We recommended that employees ensure glucometers are clean before and after use and that clinical managers monitor compliance.

Moderate Sedation

The purpose of this review was to evaluate selected aspects of care to determine whether the facility complied with applicable policies in the provision of moderate sedation. During calendar year 2016, VHA clinicians performed more than 600,000 moderate sedation procedures of which more than half were gastroenterology-related endoscopies. Moderate sedation is a drug-induced depression of consciousness during which patients are able to respond to verbal commands. Non-anesthesiologists administer sedatives and analgesics to relieve anxiety and increase patient comfort during invasive procedures and usually do not have to provide interventions to maintain a patent airway, spontaneous ventilations, or cardiovascular function. However, serious adverse events can occur, including cardiac and respiratory depression, brain damage due to low oxygen levels, cardiac arrest, or death. To minimize risks, VHA and The Joint Commission have issued requirements and standards for moderate sedation care.

We reviewed relevant documents, interviewed key employees, and inspected the gastroenterology, cardiology/interventional radiology, intensive care unit, and Emergency Department procedure rooms/areas to assess whether required equipment and sedation medications were available. Additionally, we reviewed the EHRs of 50 randomly selected patients who underwent an invasive procedure involving moderate sedation July 1, 2015 through June 30, 2016, and the training records of 15 clinical employees who performed or assisted during these procedures. The table below shows the areas reviewed for this topic. The area marked as NM did not meet applicable requirements and needed improvement.

Checklist 6. Moderate Sedation Areas Reviewed, Findings, and Recommendations

NM	Areas Reviewed	Findings	Recommendations
	The facility reported and trended the use of reversal agents in moderate sedation cases, processed adverse events/complications in a similar manner as operating room anesthesia adverse events, and noted the absence of adverse events in Moderate Sedation Committee reports.		

2

²² Per VA Corporate Data Warehouse data pull on February 22, 2017.

²³ American Society of Anesthesiologists. Practice Guidelines for Sedation and Analgesia by Non-Anesthesiologists. *Anesthesiology*. 2002; 96:1004.

NM	Areas Reviewed (continued)	Findings	Recommendations
X	Providers performed history and physical examinations within 30 calendar days prior to the moderate sedation procedure, and the history and physical and the pre-sedation assessment in combination included required elements.	In 30 EHRs (60 percent), providers did not document history and physical examinations within 30 calendar days prior to a moderate sedation procedure.	15. We recommended that providers perform history and physical examinations within 30 calendar days prior to the moderate sedation procedure and that facility managers monitor compliance.
	Providers re-evaluated patients immediately before moderate sedation for changes since the prior assessment.		
	Providers documented informed consent prior to moderate sedation procedures, and the name of provider listed on the consent was the same as the provider who performed the procedure, or the patient was notified of the change.		
	The clinical team, including the provider performing the procedure, conducted and documented a timeout prior to the moderate sedation procedure.		
	Post-procedure documentation included assessments of patient mental status and pain level.		
	Clinical employees discharged outpatients from the recovery area with orders from the provider who performed the procedure or according to criteria approved by moderate sedation clinical leaders.		
	Clinical employees discharged moderate sedation outpatients in the company of a responsible adult. Selected clinical employees had current		
	training for moderate sedation.		

NM	Areas Reviewed (continued)	Findings	Recommendations
	The clinical team kept monitoring and		
	resuscitation equipment and reversal agents		
	in the general areas where moderate		
	sedation was administered.		
	To minimize risk, clinical employees did not		
	store anesthetic agents in procedure		
	rooms/areas where only moderate sedation		
	procedures were performed by licensed		
	independent practitioners who do not have		
	the training and ability to rescue a patient		
	from general anesthesia.		

Community Nursing Home Oversight

The purpose of this review was to assess whether the facility complied with applicable requirements regarding the monitoring of veterans in contracted CNHs.⁹ Since 1965, VHA has provided nursing home care under contracts. VHA facilities must integrate the CNH program into their Quality Improvement Programs. The Facility Director establishes the CNH Oversight Committee, which reports to the chief clinical officer (Chief of Staff, Associate Director for Patient Care Services, or the equivalent) and includes multidisciplinary management-level representatives from social work, nursing, quality management, acquisition, and the medical staff. The CNH Oversight Committee must meet at least quarterly.²⁴ Local oversight of CNHs is achieved through annual reviews and monthly visits.

We reviewed relevant documents, the EHRs of 43 randomly selected patients who received CNH care for more than 3 months during the timeframe July 1, 2015 through June 30, 2016, and the results from CNH annual reviews completed July 5, 2015 through June 30, 2016. Additionally, we interviewed key employees. The table below shows the areas reviewed for this topic. The facility generally met requirements. We made no recommendations.

Checklist 7. CNH Oversight Areas Reviewed, Findings, and Recommendations

NM	Areas Reviewed	Findings	Recommendations
	The facility had a CNH Oversight Committee		
	that met at least quarterly and included		
	representation by the required disciplines.		
	The facility integrated the CNH Program into		
	its quality improvement program.		
	The facility documented a hand-off for		
	patients placed in CNHs outside of its		
	catchment area.		
	The CNH Review Team completed CNH		
	annual reviews.		
	When CNH annual reviews noted four or		
	more exclusionary criteria, facility managers		
	completed exclusion review documentation.		
	Social workers and registered nurses		
	documented clinical visits that alternated on		
	a cyclical basis.		

²⁴ VHA Handbook 1143.2, VHA Community Nursing Home Oversight Procedures, June 4, 2004.

Management of Disruptive/Violent Behavior

The purpose of this review was to determine the extent to which the facility complied with selected requirements in the management of disruptive and violent behavior. VHA policy states a commitment to reducing and preventing disruptive behaviors and other defined acts that threaten public safety through the development of policy, programs, and initiatives aimed at patient, visitor, and employee safety. In addition, Public Law 112-154, section 106 directed VA to develop and implement a comprehensive policy on the reporting and tracking of public safety incidents that occur at each medical facility.

We reviewed relevant documents, the EHRs of 37 randomly selected patients who exhibited disruptive or violent behavior, and the training records of 15 recently hired employees who worked in areas at low, moderate, or high risk for violence. Additionally, we interviewed key employees. The table below shows the areas reviewed for this topic. The area marked as NM did not meet applicable requirements and needed improvement.

Checklist 8. Management of Disruptive/Violent Behavior Areas Reviewed, Findings, and Recommendations

NM	Areas Reviewed	Findings	Recommendations
	The facility had a policy, procedure, or		
	guideline on preventing and managing		
	disruptive or violent behavior.		
	The facility conducted an annual Workplace		
	Behavioral Risk Assessment.		
	The facility had implemented:		
	An Employee Threat Assessment Team or		
	acceptable alternate group		
	A Disruptive Behavior Committee/Board		
	with appropriate membership		
	A disruptive behavior reporting and		
	tracking system		
	The facility collected and analyzed disruptive		
	or violent behavior incidents data.		
	The facility assessed physical security and		
	included and tested equipment in		
	accordance with the local physical security		
	assessment.		

NM	Areas Reviewed (continued)	Findings	Recommendations
	Clinical managers reviewed patients' disruptive or violent behavior and took appropriate actions, including: • Ensuring discussion by the Disruptive Behavior Committee/Board and entry of a progress note by a clinician committee/board member • Informing patients about Patient Record Flag placement and the right to request to amend/appeal the flag placement • Ensuring Chief of Staff or designee approval of an Order of Behavioral Restriction When a Patient Record Flag was placed for		
	an incident of disruptive behavior in the past, a clinician reviewed the continuing need for the flag within the past 2 years.		
	The facility managed selected non-patient related disruptive or violent incidents appropriately according to VHA and local policy.		
X	 The facility had a security training plan for employees at all risk levels. All employees received Level 1 training within 90 days of hire. All employees received additional training as required for the assigned risk area within 90 days of hire. 	 Eleven employee training records did not contain documentation of Level 1 training within 90 days of hire. Twelve employee training records did not contain documentation of the training required for their assigned risk area within 90 days of hire. 	16. We recommended that facility managers ensure all employees receive Level 1 Prevention and Management of Disruptive Behavior training and additional training as required for their assigned risk area within 90 days of hire and that the training is documented in employee training records.

Mental Health Residential Rehabilitation Treatment Program

The purpose of this review was to determine whether the facility's MH RRTPs (more commonly referred to as domiciliary or residential treatment programs) complied with selected EOC requirements. The Domiciliary Care for Homeless Veterans Program was established through legislation in the late 1860s with the purpose of providing a home for disabled volunteer soldiers of the Civil War. In 1995, VA established the Psychosocial RRTP bed level of care. This distinct level of MH residential care is appropriate for veterans with mental illnesses or addictive disorders who require structure and support to address psychosocial deficits, including homelessness and unemployment. In 2005, the Domiciliary RRTP became fully integrated with other RRTPs of the Office of MH Services.

We reviewed relevant documents, inspected the MH RRTP units, and interviewed key employees. The table below shows the areas reviewed for this topic. The area marked as NM did not meet applicable requirements and needed improvement.

Checklist 9. MH RRTP Areas Reviewed, Findings, and Recommendations

NM	Areas Reviewed	Findings	Recommendations
	The residential environment was clean and in good repair.		
	Appropriate fire extinguishers were available near grease producing cooking devices.		
	There were policies/procedures that addressed safe medication management and contraband detection.		
X	MH RRTP employees conducted and documented monthly self-inspections that included all required elements, submitted work orders for items needing repair, and ensured correction of any identified deficiencies.	Six months of self-inspection documentation reviewed: Documentation did not reflect correction of two identified deficiencies for the program.	17. We recommended that the facility correct the deficiencies identified for the Mental Health Residential Rehabilitation Treatment Program and that documentation reflects correction actions taken.
	MH RRTP employees conducted and documented contraband inspections, rounds of all public spaces, daily bed checks, and resident room inspections for unsecured medications.		
	The MH RRTP had written agreements in place acknowledging resident responsibility for medication security.		

NM	Areas Reviewed (continued)	Findings	Recommendations
	The MH RRTP main point(s) of entry had		
	keyless entry and closed circuit television		
	monitoring, and all other doors were locked		
	to the outside and alarmed.		
	The MH RRTP had closed circuit television		
	monitors with recording capability in public		
	areas but not in treatment areas or private		
	spaces and had signage alerting veterans		
	and visitors of recording.		
	There was a process for responding to		
	behavioral health and medical emergencies,		
	and MH RRTP employees could articulate		
	the process.		
	In mixed gender MH RRTP units, women		
	veterans' rooms had keyless entry or door		
	locks.		
	Residents secured medications in their		
	rooms.		

Review Activity with Previous Community Based Outpatient Clinic and Primary Care Clinic Review Recommendations

Follow-Up on Environment of Care

As a follow-up to a recommendation from our prior CBOC and PC Clinic review, we reassessed the Marshalltown CBOC's compliance with reviewing the hazardous materials inventory twice within a 12-month period.

VHA requires the CBOC to maintain a written, current inventory of hazardous materials and waste that it uses, stores, or generates, and to review the inventory twice a year for accuracy. During the previous CBOC and PC Clinic review, we found no evidence of this twice a year inventory review at the Marshalltown CBOC. During this review, we found that the CBOC had conducted only one inventory during 2014 and had conducted no inventories during 2015.

Recommendation

18. We recommended that facility managers ensure the review of the hazardous materials inventory at the Marshalltown CBOC occurs twice within a 12-month period.

Facility Profile

Table 1 below provides general background information for this facility.

Table 1. Facility Profile for Des Moines (636A6) for FY 2016

Profile Element	Facility Data
Veterans Integrated Service Network Number	23
Complexity Level	1c-High complexity
Affiliated/Non-Affiliated	Affiliated
Total Medical Care Budget in Millions	\$281.9
Number of:	
Unique Patients	34,887
Outpatient Visits	383,483
• Unique Employees ²⁵	1,227
Type and Number of Operating Beds:	
• Acute	41
• MH	10
Community Living Center	108
Domiciliary	60
Average Daily Census:	
• Acute	27
• MH	6
Community Living Center	73
• Domiciliary	41

Source: VA Office of Academic Affiliations, VHA Support Service Center, and VA Corporate Data Warehouse

Note: We did not assess VA's data for accuracy or completeness.

²⁵ Unique employees involved in direct medical care (cost center 8200).

VA Outpatient Clinic Profiles²⁶

The VA outpatient clinics in the communities within the catchment area of the facility provide PC integrated with women's health, MH, and telehealth services. Some also provide specialty care, diagnostic, and ancillary services. Table 2 below provides information relative to each of the clinics.

Table 2. VA Outpatient Clinic Workload/Encounters²⁷ and Specialty Care, Diagnostic, and Ancillary Services Provided for FY 2016

Location	Station No.	PC Workload/ Encounters	MH Workload/ Encounters	Specialty Care Services ²⁸ Provided	Diagnostic Services ²⁹ Provided	Ancillary Services ³⁰ Provided
Mason City, IA	636GC	8,762	2,846	Pulmonary/ Respiratory Disease Cardiology Dermatology Endocrinology Gastroenterology Hematology/ Oncology Infectious Disease Nephrology Poly-Trauma Anesthesia Eye General Surgery Urology	EKG	Nutrition Pharmacy Social Work Weight Management
Marshalltown, IA	636GD	4,207	1,525	Pulmonary/ Respiratory Disease Cardiology Dermatology Endocrinology Gastroenterology Hematology/ Oncology Nephrology Anesthesia Eye Podiatry Urology	EKG	Nutrition Pharmacy Social Work Weight Management

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²⁶ Includes all outpatient clinics in the community that were in operation before February 15, 2016. We have omitted Des Moines, IA (636QB), as no workload/encounters or services were reported.

²⁷ An encounter is a professional contact between a patient and a practitioner vested with responsibility for diagnosing, evaluating, and treating the patient's condition.

²⁸ Specialty care services refer to non-PC and non-MH services provided by a physician.

²⁹ Diagnostic services include EKG, EMG, laboratory, nuclear medicine, radiology, and vascular lab services.

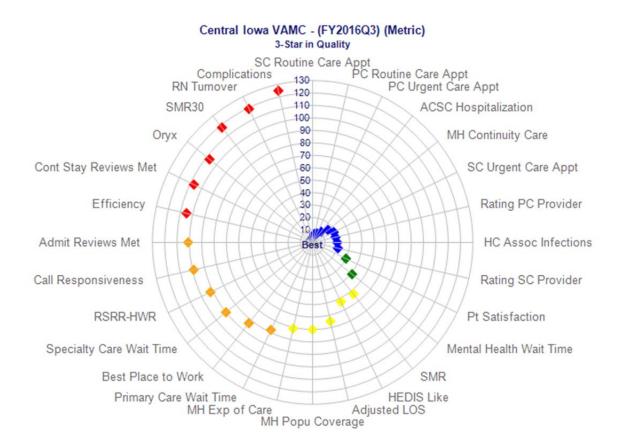
³⁰ Ancillary services include chiropractic, dental, nutrition, pharmacy, prosthetic, social work, and weight management services.

Location	Station No.	PC Workload/ Encounters	MH Workload/ Encounters	Specialty Care Services Provided	Diagnostic Services Provided	Ancillary Services Provided
Fort Dodge, IA	636GK	10,044	2,178	Pulmonary/ Respiratory Disease Cardiology Dermatology Endocrinology Gastroenterology Hematology/ Oncology Nephrology Anesthesia Eye General Surgery	EKG	Nutrition Pharmacy Social Work Weight Management
Carroll, IA	636GM	3,049	1,748	Urology Pulmonary/ Respiratory Disease Cardiology Dermatology Endocrinology Hematology/ Oncology Eye General Surgery Orthopedics Urology	EKG	Nutrition Pharmacy Social Work Weight Management
Knoxville, IA	636GR	3,919	3,455	Pulmonary/ Respiratory Disease Cardiology Dermatology Endocrinology Gastroenterology Hematology/ Oncology Nephrology Spinal Cord Injury Anesthesia Eye Podiatry Urology	EKG	Nutrition Pharmacy Social Work Weight Management

Source: VHA Support Service Center and VA Corporate Data Warehouse

Note: We did not assess VA's data for accuracy or completeness.

Strategic Analytics for Improvement and Learning (SAIL)³¹



Marker color: Blue - 1st quintile; Green - 2nd; Yellow - 3rd; Orange - 4th; Red - 5th quintile.

Source: VHA Support Service Center

Note: We did not assess VA's data for accuracy or completeness.

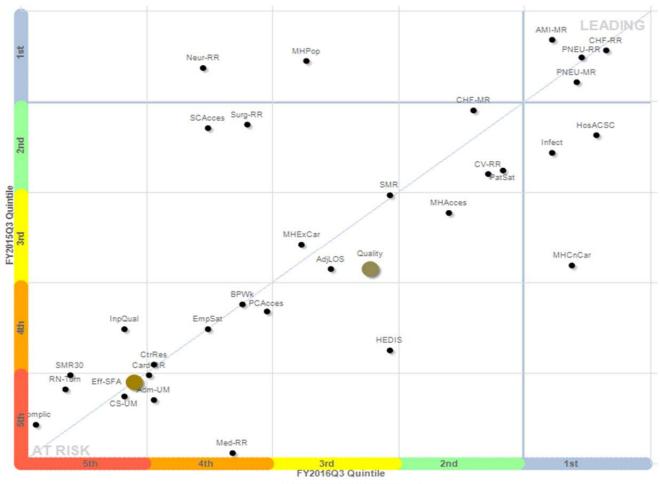
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³¹ Metric definitions follow the graphs.

DESIRED DIRECTION =>

Scatter Chart

FY2016Q3 Change in Quintiles from FY2015Q3



NOTE

Quintiles are derived from facility ranking on z-score of a metric among 128 facilities. Lower quintile is more favorable.

DESIRED DIRECTION =>

Source: VHA Support Service Center

Note: We did not assess VA's data for accuracy or completeness.

Metric Definitions^k

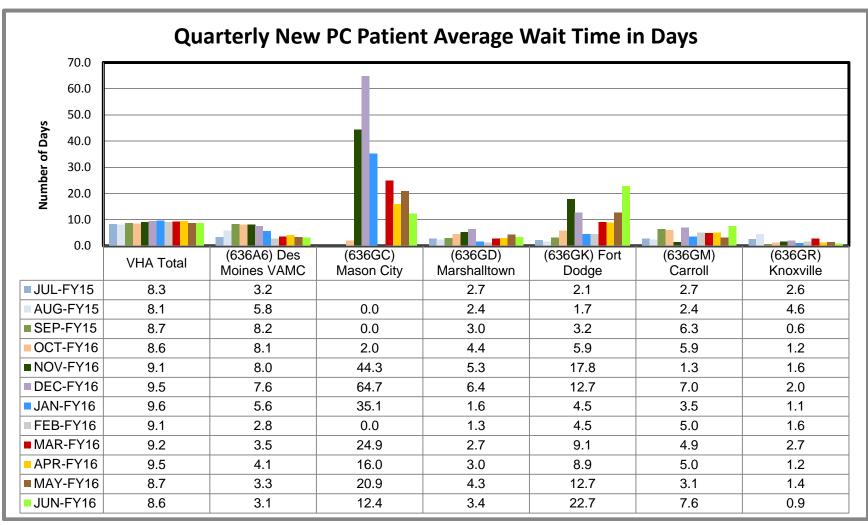
Measure	Definition	Desired Direction
ACSC Hospitalization	Ambulatory care sensitive condition hospitalizations (observed to expected ratio)	A lower value is better than a higher value
Adjusted LOS	Acute care risk adjusted length of stay	A lower value is better than a higher value
Admit Reviews Met	% Acute Admission Reviews that meet InterQual criteria	A higher value is better than a lower value
Best Place to Work	Overall satisfaction with job	A higher value is better than a lower value
Call Center Responsiveness	Average speed of call center responded to calls in seconds	A lower value is better than a higher value
Call Responsiveness	Call center speed in picking up calls and telephone abandonment rate	A lower value is better than a higher value
Complications	Acute care risk adjusted complication ratio	A lower value is better than a higher value
Cont Stay Reviews Met	% Acute Continued Stay reviews that meet InterQual criteria	A higher value is better than a lower value
Efficiency	Overall efficiency measured as 1 divided by SFA (Stochastic Frontier Analysis)	A higher value is better than a lower value
Employee Satisfaction	Overall satisfaction with job	A higher value is better than a lower value
HC Assoc Infections	Health care associated infections	A lower value is better than a higher value
HEDIS Like	Outpatient performance measure (HEDIS)	A higher value is better than a lower value
MH Wait Time	MH care wait time for new patient completed appointments within 30 days of preferred date	A higher value is better than a lower value
MH Continuity Care	MH continuity of care (FY14Q3 and later)	A higher value is better than a lower value
MH Exp of Care	MH experience of care (FY14Q3 and later)	A higher value is better than a lower value
MH Popu Coverage	MH population coverage (FY14Q3 and later)	A higher value is better than a lower value
Oryx	Inpatient performance measure (ORYX)	A higher value is better than a lower value
PC Routine Care Appt	Timeliness in getting a PC routine care appointment (PCMH)	A higher value is better than a lower value
PC Urgent Care Appt	Timeliness in getting a PC urgent care appointment (PCMH)	A higher value is better than a lower value
PC Wait Time	PC wait time for new patient completed appointments within 30 days of preferred date	A higher value is better than a lower value
PSI	Patient safety indicator (observed to expected ratio)	A lower value is better than a higher value
Pt Satisfaction	Overall rating of hospital stay (inpatient only)	A higher value is better than a lower value
Rating PC Provider	Rating of PC providers (PCMH)	A higher value is better than a lower value
Rating SC Provider	Rating of specialty care providers (specialty care module)	A higher value is better than a lower value
RN Turnover	Registered nurse turnover rate	A lower value is better than a higher value
RSMR-AMI	30-day risk standardized mortality rate for acute myocardial infarction	A lower value is better than a higher value

Measure	Definition	Desired Direction	
RSMR-CHF	30-day risk standardized mortality rate for congestive heart failure	A lower value is better than a higher value	
RSMR-Pneumonia	30-day risk standardized mortality rate for pneumonia	A lower value is better than a higher value	
RSRR-AMI	30-day risk standardized readmission rate for acute myocardial infarction	A lower value is better than a higher value	
RSRR-Cardio	30-day risk standardized readmission rate for cardiorespiratory patient cohort	A lower value is better than a higher value	
RSRR-CHF	30-day risk standardized readmission rate for congestive heart failure	A lower value is better than a higher value	
RSRR-CV	30-day risk standardized readmission rate for cardiovascular patient cohort	A lower value is better than a higher value	
RSRR-HWR	Hospital wide readmission	A lower value is better than a higher value	
RSRR-Med	30-day risk standardized readmission rate for medicine patient cohort	A lower value is better than a higher value	
RSRR-Neuro	30-day risk standardized readmission rate for neurology patient cohort	A lower value is better than a higher value	
RSRR-Pneumonia	30-day risk standardized readmission rate for pneumonia	A lower value is better than a higher value	
RSRR-Surg	30-day risk standardized readmission rate for surgery patient cohort	A lower value is better than a higher value	
SC Routine Care Appt	Timeliness in getting a SC routine care appointment (Specialty Care)	A higher value is better than a lower value	
SC Urgent Care Appt	Timeliness in getting a SC urgent care appointment (Specialty Care)	A higher value is better than a lower value	
SMR	Acute care in-hospital standardized mortality ratio	A lower value is better than a higher value	
SMR30	Acute care 30-day standardized mortality ratio	A lower value is better than a higher value	
Specialty Care Wait Time	Specialty care wait time for new patient completed appointments within 30 days of preferred date	A higher value is better than a lower value	

Note: We did not assess VA's data for accuracy or completeness.

Appendix C

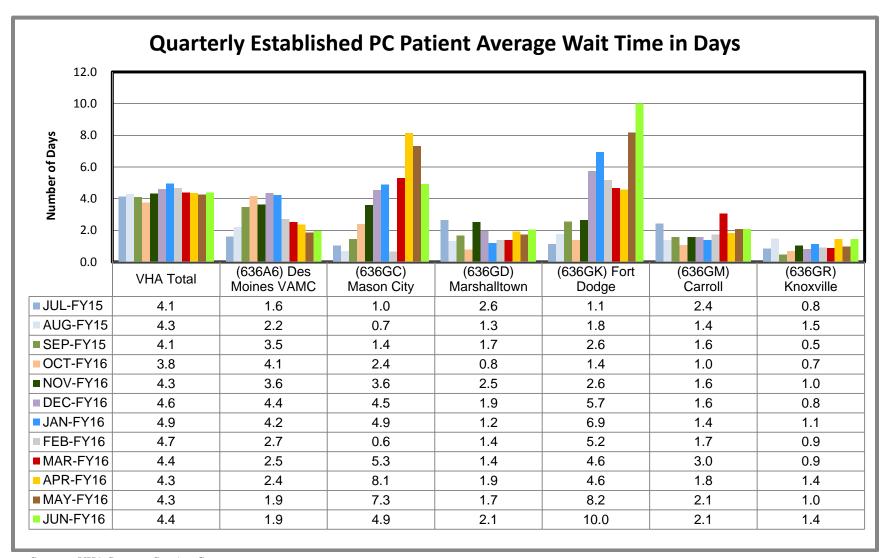
Patient Aligned Care Team Compass Metrics



Source: VHA Support Service Center

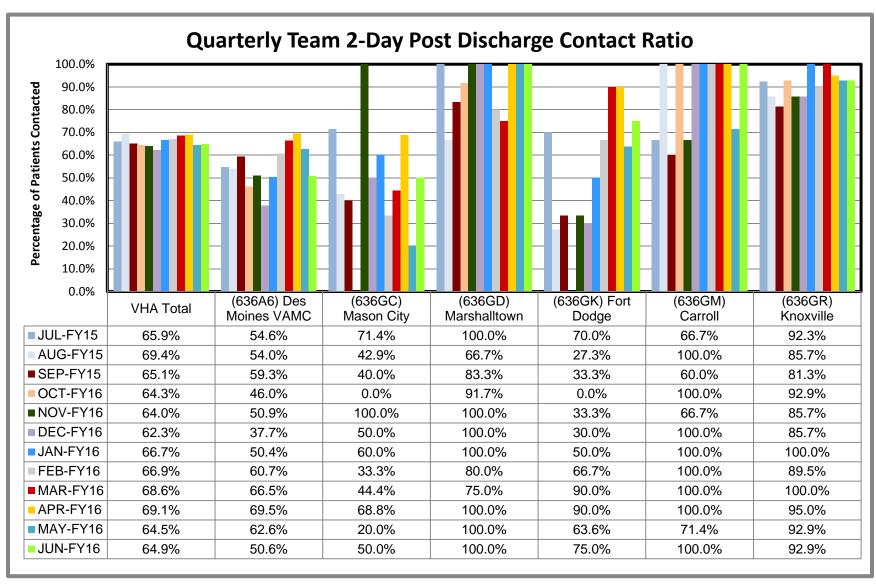
Note: We did not assess VA's data for accuracy or completeness.

Data Definition¹: The average number of calendar days between a new patient's PC completed appointment (clinic stops 322, 323, and 350, excluding Compensation and Pension appointments) and the earliest of three possible preferred (desired) dates (Electronic Wait List (EWL), Cancelled by Clinic Appointment, Completed Appointment) from the completed appointment date. *Note that prior to FY 2015, this metric was calculated using the earliest possible create date.* Blank cells indicate the absence of reported data.



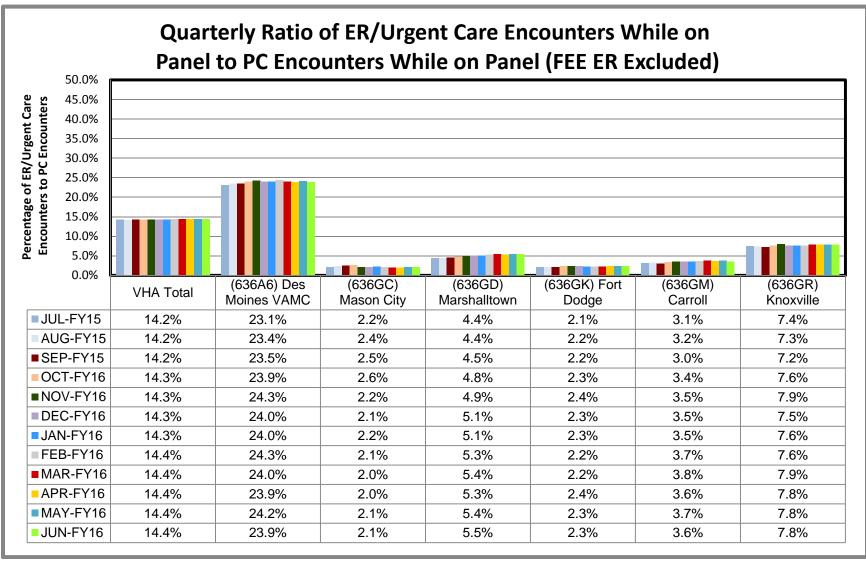
Note: We did not assess VA's data for accuracy or completeness.

Data Definition: The average number of calendar days between an established patient's PC completed appointment (clinic stops 322, 323, and 350, excluding Compensation and Pension appointments) and the earliest of three possible preferred (desired) dates (Electronic Wait List (EWL), Cancelled by Clinic Appointment, Completed Appointment) from the completed appointment date.



Note: We did not assess VA's data for accuracy or completeness.

Data Definition: The percent of assigned PC patients discharged from any VA facility who have been contacted by a PC team member within 2 business days during the reporting period. Patients are excluded if they are discharged from an observation specialty and/or readmitted within 2 business days to any VA facility. Team members must have been assigned to the patient's team at the time of the patient's discharge.



Note: We did not assess VA's data for accuracy or completeness.

Data Definition: This is a measure of where the patient receives his PC and by whom. A low percentage is better. The formula is the total VHA ER/Urgent Care Encounters While on Team (WOT) with a Licensed Independent Practitioner (LIP) *divided by* the number of PC Team Encounters WOT with an LIP **plus** the total number of VHA ER/Urgent Care Encounters WOT with an LIP.

Prior OIG Reports [January 1, 2014 through January 1, 2017]

Facility Reports

Healthcare Inspection – Review of the Operations and Effectiveness of VHA Residential Substance Use Treatment Programs

7/30/2015 | 15-01579-457 | <u>Summary</u> | <u>Report</u>

Community Based Outpatient Clinics Summary Report — Evaluation of Medication Oversight and Education at Community Based Outpatient Clinics and Other Outpatient Clinics

6/18/2015 | 15-01297-368 | <u>Summary</u> | <u>Report</u>

Healthcare Inspection – Alleged Poor Mental Health Care Resulting in a Patient Death, VA Central Iowa Health Care System, Des Moines, Iowa 6/10/2015 | 15-02627-386 | Summary | Report

Audit of VHA's Mobile Medical Units

5/14/2014 | 13-03213-152 | <u>Summary</u> | <u>Report</u>

Healthcare Inspection – Administrative Irregularities, Leadership Lapses, and Quality of Care Concerns, VA Central Iowa Health Care System, Des Moines, Iowa

3/31/2014 | 13-02073-106 | <u>Summary</u> | <u>Report</u>

Veterans Integrated Service Network Director Comments

Department of Veterans Affairs

Memorandum

Date: February 2, 2017

From: Director, VA Midwest Health Care Network (10N23)

Subject: CAP Review of the VA Central Iowa Health Care System,

Des Moines, IA

To: Director, Denver Office of Healthcare Inspections (54DV)

Director, Management Review Service (VHA 10E1D MRS OIG CAP CBOC)

- 1. I have reviewed and concur with the findings and recommendation in the draft report of the Office of the Inspector General Combined Assessment Program Review conducted the week of December 5, 2016.
- 2. Corrective action plans haven established with target completion dates. As detailed in the attached report.

Janet P. Murphy

Facility Director Comments

Department of Veterans Affairs

Memorandum

Date: February 2, 2017

From: Director, VA Central Iowa Health Care System (636A6/00)

Subject: CAP Review of the VA Central Iowa Health Care System,

Des Moines, IA

To: Director, VA Midwest Health Care Network (10N23)

 I have reviewed and concur with the findings and recommendation in the draft report of the Office of the Inspector General Combined Assessment Program Review conducted the week of December 5, 2016.

2. Corrective action plans haven established with target completion dates. As detailed in the attached report.

Gail Graham

Hail L. Graham

Comments to OIG's Report

The following Director's comments are submitted in response to the recommendations in the OIG report:

OIG Recommendations

Recommendation 1. We recommended that facility clinical managers consistently review Ongoing Professional Practice Evaluation data every 6 months and that facility managers monitor compliance.

Concur

Target date for completion: March 2017

Facility response: Credentialing and Privileging has been identified to ensure Ongoing Professional Practice Evaluations (OPPEs) are completed every 6 months by the Service Chiefs and are reviewed at the Executive Committee of Medical Staff (ECOMS). During provider, re-credentialing the Service Chief will present the next cycle OPPE form at ECOMS. Additionally, Service Chiefs will report OPPE data progress annually to ensure ongoing review of OPPE data. This will be tracked through ECOMS meeting minutes as part of the re-credentialing process.

Recommendation 2. We recommended that Physician Utilization Management Advisors consistently document their decisions in the National Utilization Management Integration database and that facility managers monitor compliance.

Concur

Target date for completion: March 2017

Facility response: Additional Physician Utilization Management Advisors (PUMAs) will be trained to assist with completing reviews. The Chief of Staff will monitor compliance through weekly reviews with UM staff of National Utilization Management Integration (NUMI) documentation. To ensure documentation is captured by the PUMAs in NUMI, the Chief of Staff set a goal to reach 70% compliance by end of March.

Recommendation 3. We recommended that the Patient Safety Manager provide feedback about root cause analysis findings to the individual or department who reported the incident and that facility managers monitor compliance.

Concur

Target date for completion: January 2017

Facility response: The Patient Safety Manager will provide a summary of actions and outcome measures to the Service Line Chief of any patient or event specific RCA

completed. Compliance will be monitored as part of the annual Patient Safety Program report to the facility's Quality Council. Request Closure.

Recommendation 4. We recommended that Environment of Care Council meeting minutes document discussion of environment of care rounds deficiencies, include corrective actions taken to address rounds deficiencies, and track actions taken in response to identified deficiencies to closure.

Concur

Target date for completion: April 2017

Facility response: The process to ensure EOC rounds deficiencies are discussed at Environment of Care Council has been strengthened. The Safety Specialist reports EOC rounds deficiencies monthly and the Executive Secretary documents the discussion in the meeting minutes. This documentation includes the corrective actions taken and tracking of any actions to closure. This was implemented January 2017 and will be tracked for three consecutive months to ensure sustainability.

Recommendation 5. We recommended that facility managers ensure fire extinguisher locations are clearly identified.

Concur

Target date for completion: April 2017

Facility response: The Life Safety Manager and Engineering installed fire extinguisher location signs in all areas of the facility identified by the OIG during Environment of Care Rounds. Request closure.

Recommendation 6. We recommended that facility managers ensure information technology network room visitor logs contain all the required elements and monitor compliance.

Concur

Target date for completion: June 2017

Facility response: The Chief, Office of Information Technology has ensured that all IT closets utilize the visitor log outlined in VA Handbook 6500. The Chief, Office of Information Technology will monitor compliance quarterly to ensure the visitor log contains all required elements. This will be monitored for two consecutive quarters to ensure sustainability.

Recommendation 7. We recommended that employees store expired medications separately from medications available for administration and that facility managers monitor compliance.

Concur

Target date for completion: January 2017

Facility response: Pharmacy Service provided education to Primary Care Clinic nursing leaders and staff at staff meetings in January to ensure expired medications are separated from medications available for administration. This education consisted of review of existing processes to ensure that expiration dates are placed on every multi-dose vial and items returned to Omnicell machines have been restocked appropriately with expiration dates updated. Nursing Service developed signage with reminders and step-by-step instructions which are visibly available at the Omnicell machines in the medication rooms. Pharmacy Service supplied expiration date labels to each of the clinic areas that did not have an existing supply. On a monthly basis, each medication storage area is inspected by a member of the Pharmacy Service and findings documented on the audit sheet. Request Closure.

Recommendation 8. We recommended that facility managers ensure ice machines and refrigerators in patient nourishment kitchens are clean and monitor compliance.

Concur

Target date for completion: April 2017

Facility response: The Chief EMS has implemented biweekly supervisory inspections. The biweekly inspections consist of utilizing a standardized inspection sheets to include ice machines and refrigerators. Deficiencies and corrective action are part of the inspection sheets. Re-education to staff is provided as needed when deficiencies are identified. The Chief of EMS monitors compliance to the supervisory inspections.

Recommendation 9. We recommended that facility managers ensure standard operating procedures for the bronchoscope are consistent with the manufacturer's instructions for use.

Concur

Target date for completion: December 12, 2016

Facility response: The standard operating procedure for bronchoscope (BF-40) was updated based on the manufacturer's recommendation for use. Request Closure.

Recommendation 10. We recommended that the facility collect and report data on patient transfers out of the facility.

Concur

Target date for completion: June 2017

Facility response: Medical Records Committee will be responsible for the audit and review of the inter-facility transfer note for all transfers out of the facility, including informed consent. This will be tracked by Medical Record Committee; data will be monitored for three consecutive months.

Recommendation 11. We recommended that facility managers ensure transfer notes written by acceptable designees contain a staff/attending physician countersignature and monitor compliance.

Concur

Target date for completion: June 2017

Facility response: Medical Records Committee will be responsible for the audit and review of the inter-facility transfer note for all transfers out of the facility, including that they contain a staff/attending physician countersignature, if required. This will be tracked by Medical Record Committee; data will be monitored for three consecutive months

Recommendation 12. We recommended that clinicians take and document all actions required by the facility in response to test results and that clinical managers monitor compliance.

Concur

Target date for completion: June 2017

Facility response: Nursing Management will re-educate nursing staff on the required documentation for test results per local policy as well as to follow Provider orders for action on test results. Training will be documented for nursing staff. Chart audits will be conducted by nursing staff for three consecutive months to ensure compliance with documentation and action to test results.

Recommendation 13. We recommended that the Chief of Pathology and Laboratory Medicine Service ensure the point-of-care testing procedure manual is readily available to employees.

Concur

Target date for completion: March 2017

Facility response: The POCT procedure manual is accessible to all staff on the home page of the facility Nursing SharePoint site. Nursing staff will be provided education on the location and need for accessing the point-of-care testing (POCT) procedure manual. The training will be documented.

Recommendation 14. We recommended that employees ensure glucometers are clean before and after use and that clinical managers monitor compliance.

Concur

Target date for completion: March 2017

Facility response: Nursing Management will re-educate nursing staff on the process and importance of cleaning the glucometer before and after each use. Training on the understanding of the process will be documented for nursing staff. The Charge nurse on each unit will monitor this for the month of February to ensure compliance.

Recommendation 15. We recommended that providers perform history and physical examinations within 30 calendar days prior to the moderate sedation procedure and that facility managers monitor compliance.

Concur

Target date for completion: July 2017

Facility response: The process of completing a history and physical prior to moderate sedation has been strengthened. The Chief of Surgery, Nurse Manager Endoscopy, and Clinical Applications Coordinator will develop a mandatory standardized note template. Updated Medical Staff Bylaws will include this requirement. The Surgical Workgroup will monitor compliance for three consecutive months through ongoing Moderate Sedation data monitoring to ensure a history and physical is completed within 30 days prior to moderate sedation procedure. Additionally, re-education to providers and nursing staff on the new note and requirement for a history and physical examination to be performed within 30 calendar days prior to the moderate sedation procedure will occur.

Recommendation 16. We recommended that facility managers ensure all employees receive Level 1 Prevention and Management of Disruptive Behavior training and additional training as required for their assigned risk area within 90 days of hire and that the training is documented in employee training records.

Concur

Target date for completion: January 2017

Facility response: The Chief/Designated Learning Officer sent a memorandum to all supervisors in January 2017 that identified the requirements and expectations of training. Additionally, face-to-face meetings were held in January at the Nurse

Manager, Clinical Executive Council, and Administrative Service Chief meetings by the Psychologist leading the disruptive behavior program on requirements and expectations of training. The Chief/Designated Learning Officer will send monthly reports of Level 1, 2, and 3 training compliance to all supervisors, including the quad leadership team. The Chief/Designated Learning Officer will monitor compliance. Request Closure.

Recommendation 17. We recommended that the facility correct the deficiencies identified for the Mental Health Residential Rehabilitation Treatment Program and that documentation reflects correction actions taken.

Concur

Target date for completion: January 2017

Facility response: The process for documenting deficiencies and corrective actions taken as part of the monthly self-inspections has been strengthened. The Domiciliary Chief is responsible for conducting the monthly self-inspection rounding and entering of work orders associated with deficiencies. Monthly, the facility work order tracking program, MAXIMO, is used to run a report of entered work orders to verify status. Request closure.

Recommendation 18. We recommended that facility managers ensure the review of the hazardous materials inventory at the Marshalltown CBOC occurs twice within a 12-month period.

Concur

Target date for completion: January 2017

Facility response: The Industrial Hygienist implemented a process of sending electronic reminders to the Marshalltown Nurse Manager, which took place in January 2017 and will again in July. The Nurse Manager in Marshalltown has updated and reviewed the HMI for the month of January. Request Closure.

OIG Contact and Staff Acknowledgments

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U.S. House of Representatives: Rod Blum, Steve King, David Loebsack, David Young

This report is available at www.va.gov/oig.

Endnotes

- ^a The references used for QSV were:
- VHA Directive 1026, VHA Enterprise Framework for Quality, Safety, and Value, August 2, 2013.
- VHA Directive 1117, Utilization Management Program, July 9, 2014.
- VHA Directive 2010-025, Peer Review for Quality Management, June 3, 2010.
- VHA Handbook 1050.01, VHA National Patient Safety Improvement Handbook, March 4, 2011.
- VHA Handbook 1100.19, Credentialing and Privileging, October 15, 2012.
- ^b The references used for EOC included:
- VA Handbook 6500, Risk Management Framework for VA Information Systems Tier 3: VA Information Security Program, March 10, 2015.
- VHA Directive 1116(2), Sterile Processing Services (SPS), March 23, 2016.
- VHA Directive 7704(1); Location, Selection, Installation, Maintenance, and Testing of Emergency Eyewash and Shower Equipment; February 16, 2016.
- Various requirements of The Joint Commission, Centers for Disease Control and Prevention, Occupational Safety and Health Administration, International Association of Healthcare Central Service Materiel Management, Health Insurance Portability and Accountability Act, National Fire Protection Association.
- ^c The references used for Medication Management: Anticoagulation Therapy included:
- VHA Directive 1026; VHA Enterprise Framework for Quality, Safety, and Value; August 2, 2013.
- VHA Directive 1033, Anticoagulation Therapy Management, July 29, 2015.
- VHA Directive 1088, Communicating Test Results to Providers and Patients, October 7, 2015.
- ^d The references used for Coordination of Care: Inter-Facility Transfers included:
- VHA Directive 2007-015, Inter-Facility Transfer Policy, May 7, 2007.
- VHA Handbook 1907.01, Health Information Management and Health Records, March 19, 2015.
- VHA Handbook 1400.01, Resident Supervision, December 19, 2012.
- ^e The references used for Diagnostic Care: POCT included:
- VHA Handbook 1106.01, Pathology and Laboratory Medicine Service Procedures, October 6, 2008.
- VHA Handbook 1106.01, Pathology and Laboratory Medicine Service (P&LMS) Procedures, January 29, 2016.
- VHA Directive 1088, Communicating Test Results to Providers and Patients, October 7, 2015.
- The Joint Commission. *Comprehensive Accreditation Manual for Laboratories and Point-of-Care Testing*. Update 2. September 2010.
- Boaz M, Landau Z, Wainstein J. Analysis of Institutional Blood Glucose Surveillance. *Journal of Diabetes Science and Technology*. 2010;4(6):1,514–15. Accessed July 18, 2016.
- ^f The references used for Moderate Sedation included:
- VHA Handbook 1004.01, Informed Consent for Clinical Treatments and Procedures, August 14, 2009.
- VHA Directive 1039, Ensuring Correct Surgery and Invasive Procedures, July 26, 2013.
- VHA Directive 1073, Moderate Sedation by Non-Anesthesia Providers, December 30, 2014.
- VHA Directive 1177; Cardiopulmonary Resuscitation, Basic Life Support, and Advanced Cardiac Life Support Training for Staff; November 6, 2014.
- VA National Center for Patient Safety. Facilitator's Guide for Moderate Sedation Toolkit for Non-Anesthesiologists. March 29, 2011.
- American Society of Anesthesiologists. Practice Guidelines for Sedation and Analgesia by Non-Anesthesiologists. *Anesthesiology*. 2002; 96:1004–17.
- The Joint Commission. Hospital Standards, January 2016. PC.03.01.01, EP1 and MS.06.01.03 EP6.
- ^g The references used for CNH Oversight included:
- VHA Handbook 1143.2, VHA Community Nursing Home Oversight Procedures, June 4, 2004.
- VA OIG report, *Healthcare Inspection Evaluation of the Veterans Health Administration's Contact Community Nursing Home Program*, (Report No. 05-00266-39, December 13, 2007).

- VHA Handbook 1162.02, *Mental Health Residential Rehabilitation Treatment Program (MH RRTP)*, December 22, 2010.
- VHA Handbook 1330.01, Health Care Services for Women Veterans, May 21, 2010.
- Requirements of the VHA Center for Engineering and Occupational Safety and Health and the National Fire Protection Association.

- VHA Directive 7705, Management of Hazardous Chemicals, August 14, 2015.
- ^k The reference used for the Strategic Analytics for Improvement and Learning (SAIL) metric definitions was:
- VHA Support Service Center (VSSC), Strategic Analytics for Improvement and Learning (SAIL), accessed: October 3, 2016.

^h The references used for Management of Disruptive/Violent Behavior included:

[•] VHA Directive 2012-026, Sexual Assaults and Other Defined Public Safety Incidents in Veterans Health Administration (VHA) Facilities, September 27, 2012.

[•] Public Law 112-154. Honoring America's Veterans and Caring for Camp Lejeune Families Act of 2012. August 6, 2012. 126 Stat. 1165. Sec. 106.

[•] Acting Deputy Under Secretary for Health for Operations and Management. "Meeting New Mandatory Safety Training Requirements using Veterans Health Administration's Prevention and Management of Disruptive Behavior (PMDB) Curriculum." memorandum. November 7, 2013.

ⁱ The references used for MH RRTP were:

^j The reference used for Follow-Up on EOC was:

¹ The reference used for Patient Aligned Care Team Compass data graphs was:

[•] Department of Veterans' Affairs, Patient Aligned Care Teams Compass Data Definitions, accessed: February 25, 2016.