



THE RADOC®



Aggregate disparate
data in real-time for
actionable insights

DSSINC.COM

Proven in over 60 Veterans Affairs Medical Centers (VAMCs) for over 15 years to improve patient care and reduce hospital costs

The challenge: Siloed and outdated data negatively impact patient care.



Inability to aggregate data in real-time for broad cohort of patients



Searching for relevant data diverts clinicians away from patient care



Difficulty meeting VA initiatives and Joint Commission, OIG standards

The solution: TheraDoc®

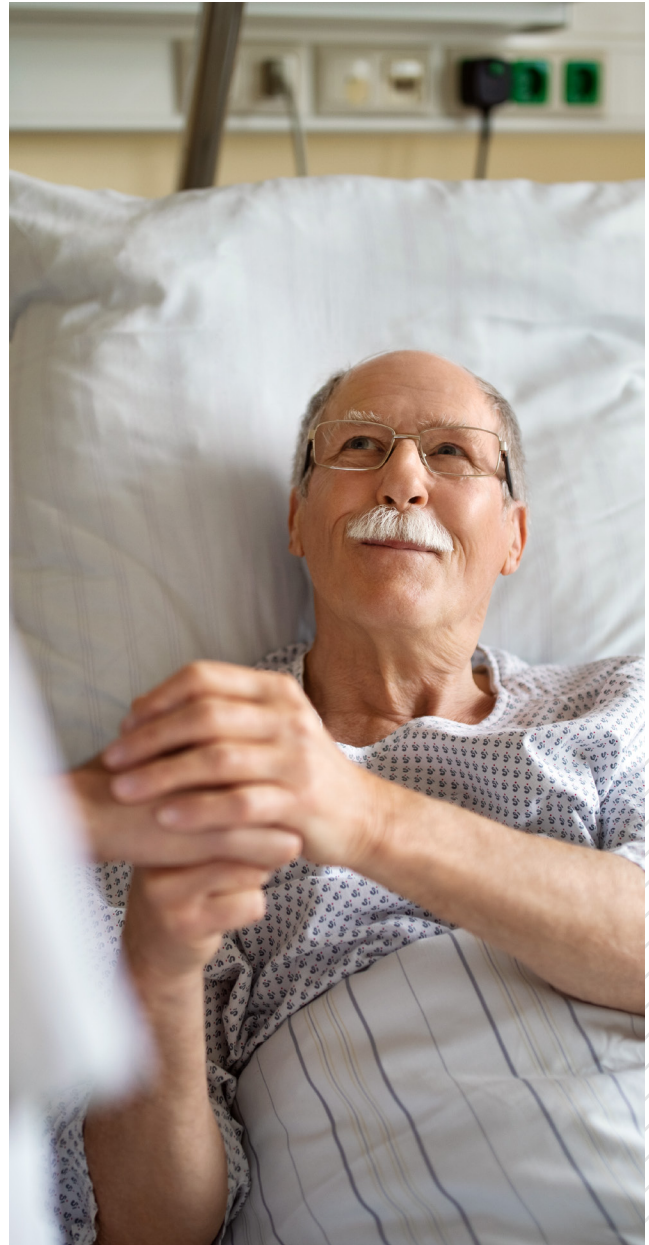
TheraDoc provides real-time oversight and insights to reduce costs caused by inappropriate antibiotic usage, preventable Healthcare Associated Infections (HAIs), avoidable adverse drug events, and unnecessary hospital days of stay and readmissions.

In inpatient and outpatient settings, TheraDoc assists with patient care decisions for:

- Antimicrobial stewardship
- Clinical pharmacy
- Anticoagulation management
- Specialty care areas (inpatient and outpatient)
- Outpatient clinic services
- Infection control and Healthcare Associated Infections (HAIs)
- Infectious disease

Deployed COVID-19 surveillance VAMCs at onset of crisis

TheraDoc is built to evolve and meet new challenges head-on. Scalability allows TheraDoc to address the needs of specific departments or entire organizations, always keeping data secure and confidential. Workflows adjust seamlessly as new tests and medications become available.



Experience the TheraDoc difference across VAMCs

ANTICOAGULATION MANAGEMENT

Over a 2 month period, VISN 20 recorded 1,747 Interventions for a cost impact of \$144,932.

Notable patient safety interventions:

133

Overdue labs identified for proactive follow up

121

Patient no-shows identified for proactive follow up

60

DOAC non-adherence

32

Drug interactions identified and corrected

8

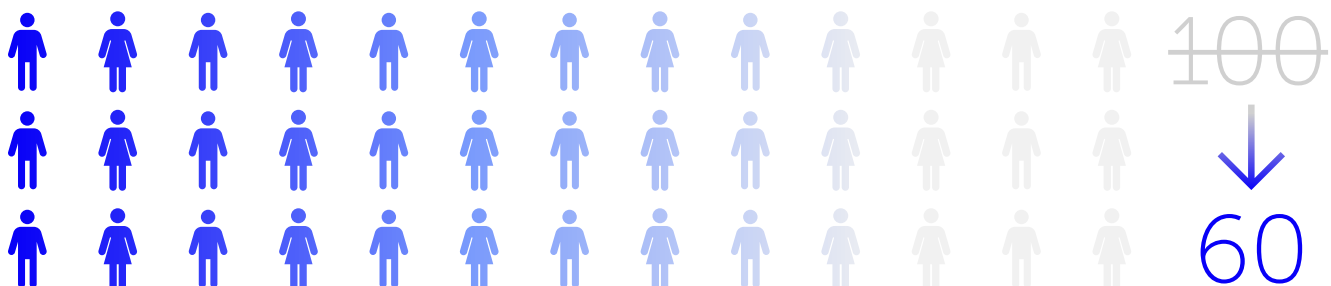
Triage of bleeding or embolic event

4

CRITICAL Drug interactions identified and corrected

" Prior to our clinic implementing TheraDoc[®], we had an average of 100 patients scheduled each week... Now, after less than a year from implementing TheraDoc[®], we have an average of 60 patients scheduled per week. This is a drastic improvement. **In addition to these patient safety and efficiency gains, we are tracking all of our detailed clinic data in the system and accomplishing many projects which we were not doing at all prior to TheraDoc[®].** "

- Anticoagulation Program Manager, Walla Walla VA



Over a 2 month period, VISN 20 recorded 993 Interventions for a cost impact of \$1.1M.

Notable patient safety interventions:

39	Drug interactions identified and corrected
22	Avoided drug toxicity
16	Drug/bug mismatches identified and corrected
6	Adverse drug events prevented
3	Wrong route identified and corrected
2	Wrong drugs identified and corrected
1	Major ASP adverse drug reaction prevented
1	Wrong interval/rate identified and corrected

Avoided continuation of restricted drugs:

38	Fluoroquinolones & Vancomycin
7	Carbapenems



" TheraDoc® has **modernized our daily ASP workflow.** We have gained efficiency, improved team communication, and now have the ability to more accurately capture ASP workload and contributions to the facility. It has helped us expand our ASP program into the emergency room, CBOCs and primary care clinics, **helping us to meet the new Joint Commission standard.** TheraDoc® has been an amazing addition to our stewardship program in Boise and we simply can't imagine life without it now. "

- ASP Program Manager, Boise VA

Over a 2 month period, VISN 6 recorded 4,895 Interventions for a cost impact of \$2.24M.

Notable patient safety interventions:

100	Medications discontinued that were not indicated
94	Minor adverse drug events prevented (non ASP-related)
58	Inappropriate medications discontinued
27	Wrong doses ordered; 11 wrong routes ordered – all identified and corrected
22	Wrong drugs ordered, identified and corrected
15	Minor ASP adverse drug events prevented
14	Drug-bug mismatches identified and corrected
11	Drug interactions identified and corrected
3	Major ASP related adverse drug event prevented

Over a 2 month period, VISN 4 recorded 3,744 interventions for a cost impact of \$2.396M.

Notable patient safety interventions:

64	Missing indications on medications, although policy requires it –corrected
49	Medications contraindicated, identified and corrected
18	Duplicate therapy identified and corrected
9	Wrong doses ordered and corrected
5	Wrong drugs ordered, identified and corrected
3	Missing doses ordered and corrected
2	Wrong interval/rate identified and corrected
1	Major adverse drug event and ASP related minor adverse drug event prevented

Infection prevention and control in VAMCs

Houston VAMC 8 year study released in 2020

TheraDoc enabled case review, correct isolation, changes to cleaning practices, and more appropriate lab testing. The Antimicrobial Stewardship Program that includes Clinical Pharmacists working daily with providers was a strong driver for change.

TheraDoc's impact on decreasing Clostridium Difficile*

- 74% decrease in Clostridium Difficile over an 8 year period
- 70% infection rate decrease, from 16.19 per 10,000 bed days of care in FY2011 to 4.88 in FY2019
- Inappropriate testing decreased by 84%, from 50 in FY2011 to 8 in FY2019 Specialty Care Areas (inpatient and outpatient)

" We have been using TheraDoc[®] since 2014. Not only does the surveillance system save us time, but it allows for better documentation and communication among our Infection Prevention team. TheraDoc[®] surveillance provides an additional level of confidence when applying surveillance definitions by pulling critical data for one-view review. "

- Infection Prevention Manager, Lebanon VA

TheraDoc for VA specialty care areas

- MS treatment centers
- Women's health
- Prospective outpatient antimicrobial stewardship
- Adenoma detection/ gastroenterology
- Outpatient research
- Hi-risk patient tracking
- Hand hygiene
- Traveling bariatric surgery program
- Identify high respiratory risk patients for review
- Tracking influenza vaccine administration
- Monitoring patients on canned nutrition
- Dialysis patient monitoring
- Mammography tracking
- Identify pre-diabetic patients
- Track hypoglycemic and hyperglycemic episodes
- Hospitalist shift handoff
- Drug toxicity monitoring of CLC patients
- Pain clinic
- Medication dispensing
- ISO office monitors clinician access to "sensitive" flagged records
- Shift handoff documentation
- Melanoma detection

*POSTER PRESENTATION DECENNIAL 2020: VHA CDI PREVENTION BUNDLE: PROGRESS OVER 8 YEARS DECREASING CDI LAB ID EVENTS AT A LARGE VA MEDICAL CENTER.

As DSS continues to deliver innovative health care technologies to assist clinicians in patient safety and better patient care, the **TheraDoc Medical Device Interface** is the Solution's newest hallmark designed to **track and monitor device insertions and removals, associate device presence with HAIs, and calculate device days for reporting to Inpatient Evaluation Center (IPEC).**

Features/Functionality

Full integration to the VA's standardized devices note templates:

- + The VA's national device-related nursing notes (VA Approved Enterprise Standard or VAAES Templates) are passively capturing device insertion and removals, as nurses complete their daily note. (Computerized Patient Record System or CPRS notes are created as usual).
- + Local device templates can also be integrated to passively capture device insertion and removals. For example, If ICU systems such as Clinicomp, which stand apart from VistA/CPRS, have their device-related nursing notes written back to CPRS and signed by nursing there, this data can be passively captured by TheraDoc.
- + Device data is sent to TheraDoc in real time upon note signing, eliminating any manual entry or device recording on Excel spreadsheets per unit.
- + Device data can be automatically linked to infections, for CAUTI, CLABSI and VAE.
- + Aggregate dashboards allow clinicians to track all patients and device type per unit, showing length of device presence, to encourage prompt removal when appropriate.
- + Monthly reports are automatically tabulated including Patient Day denominators and Device Days for easy reporting to IPEC.

Optional integration to physician orders/physician placed devices:

- A new Physicians Order Entry menu is available as a one stop shop for ordering all device insertions and removals.
- If physicians place and remove devices themselves, that data can immediately update TheraDoc in real time.
- Physician order data can marry with the standardized nursing note device documentation.
- The same dashboards and reporting are available regardless of whether the physicians choose to use the new Order Entry menu.

Benefits

- + VA's Standardized Device nursing notes auto-populate device insertions and removals in real time in TheraDoc's Device Aggregate panels.
- + Infection prevention is aware of all devices in the hospital on one central aggregate dashboard.
- + Each unit no longer needs to create manual lists of devices nightly, as they can have access to their unit's TheraDoc devices dashboard.
- + Nursing can easily see and track device insertions and duration in the patient, since Nurse Driven Protocol for prompt removal is their responsibility.
- + Any infections that arise can be linked to the presence of a device to identify CAUTI, CLABSI or VAE's that are reportable.
- + Reporting to IPEC monthly is easy, with TheraDoc automatically calculating patient days denominators and device days.
- + Optional physician-centric CPRS embedded Order Entry menu can update TheraDoc in real time, with devices placed or removed by the physician.





DIGITAL
VERSION

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Working Together For Those Who Serve Our Veterans

Document Storage Systems, Inc. (DSS) is a catalyst for health care innovation, keeping pace with evolving technologies as a solutions provider, systems integrator, and services contractor to the Department of Veterans Affairs. DSS is committed to assisting VA in its High Reliability Organization journey and delivering care quality for Veterans by meeting top initiatives, changing regulatory requirements, and implementing enhanced business transformation across VA enterprise.

Premier Inc.'s TheraDoc® is a leading provider of electronic clinical surveillance to health care organizations across the country. Our mission is to deliver advanced informatics to help protect patients and maximize the performance of health care teams.

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