

# PrecisionBI

**Allscripts TouchWorks EHR**

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**Adult Disease Mgmt Dashboards**

ONE PRODUCT, MANY SOLUTIONS

## **Acknowledgments**

Prepared by PrecisionBI Solutions Team

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# Overview

PrecisionBI offers a number of dashboard sets for Touchworks Analytics clients that want to monitor metrics around of adult care, pediatric care and clinical administration. These dashboard sets, created by PBI, can be used as-is, or customized to follow a specific configuration and workflow.

The **Adult Disease Mgmt** dashboards included in the starter content provide insight into the management of Asthma, Diabetes and Hypertension, as well as INR monitoring for Coumadin patients and controlled substance prescribing trends for the practice. Management can monitor the performance for the overall organization and drill down using the filters by provider, location and specialty for a deeper dive into the data.

## Introduction Dashboard

The **Introduction** dashboard provides a brief synopsis of the data presented in the **Adult Disease Mgmt** access center (collection of dashboards).

### Adult Disease Management Access Center

## PrecisionBI

Monitor adult disease management populations through PrecisionBI's clinical dashboards based on your Allscripts EHR clinical data.

- Review counts of asthma patients seen within the past two years on medication therapy and those with an Asthma Control Test.
- Evaluate diabetic patient management with A1C, microalbumin and blood pressure monitoring.
- Assess hypertensive patient management with percentage of patients with blood pressure <140/90 and < 130/90 and LDL >130 and < 100.
- Track the percent of patients on Coumadin with and without an INR in the past 4 weeks and medication counts for controlled substances by DEA class.

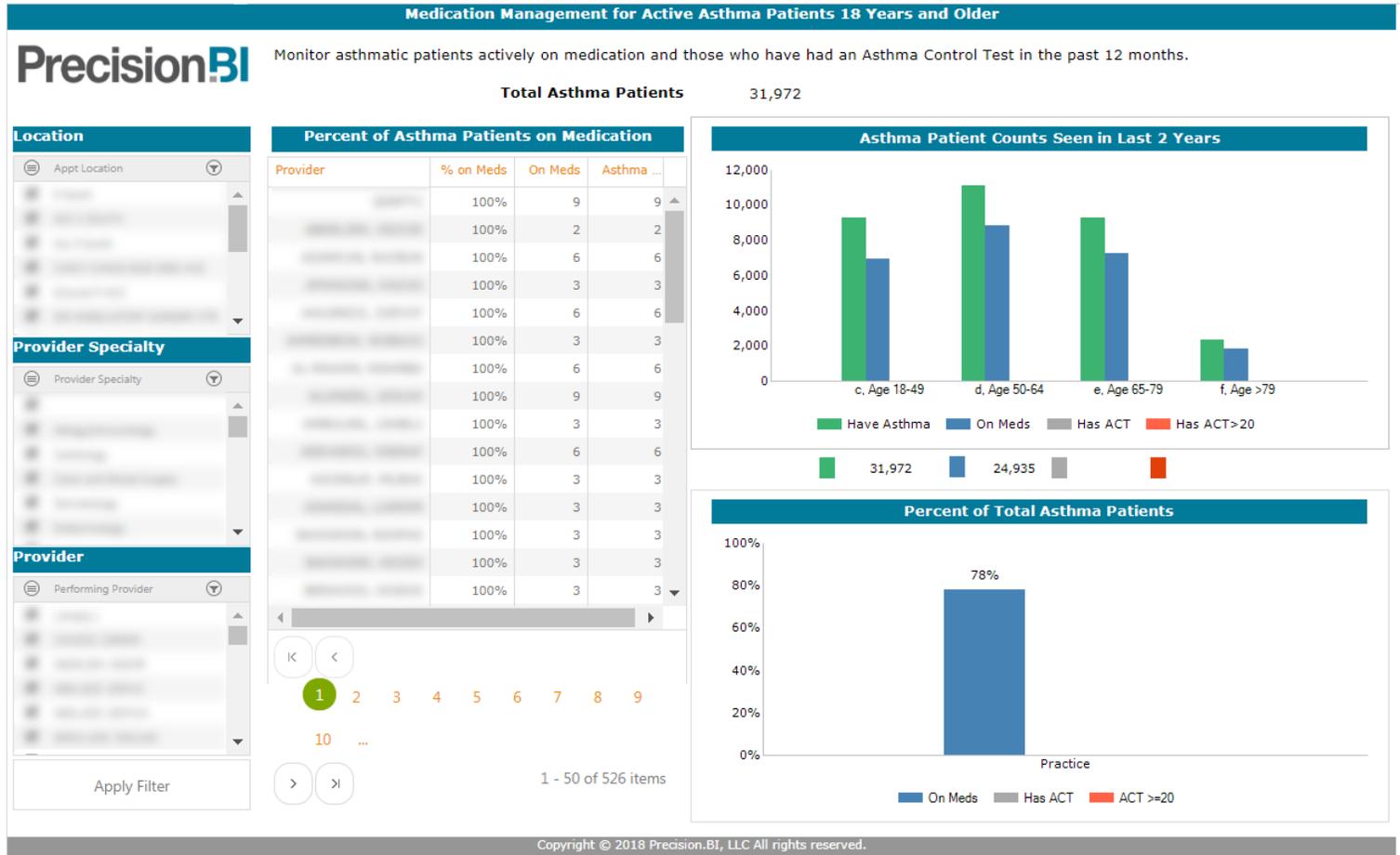


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## Asthma

The **Asthma** dashboard displays a count of asthma patients 18 years and older seen in the past two years along with the counts of patients on medication therapy, with an asthma control test (ACT) and of the patients with an ACT, the count with an ACT  $\geq 20$ . In addition to the counts, the practice can see the percent of patients on meds, with an ACT and with an ACT  $>+20$ .

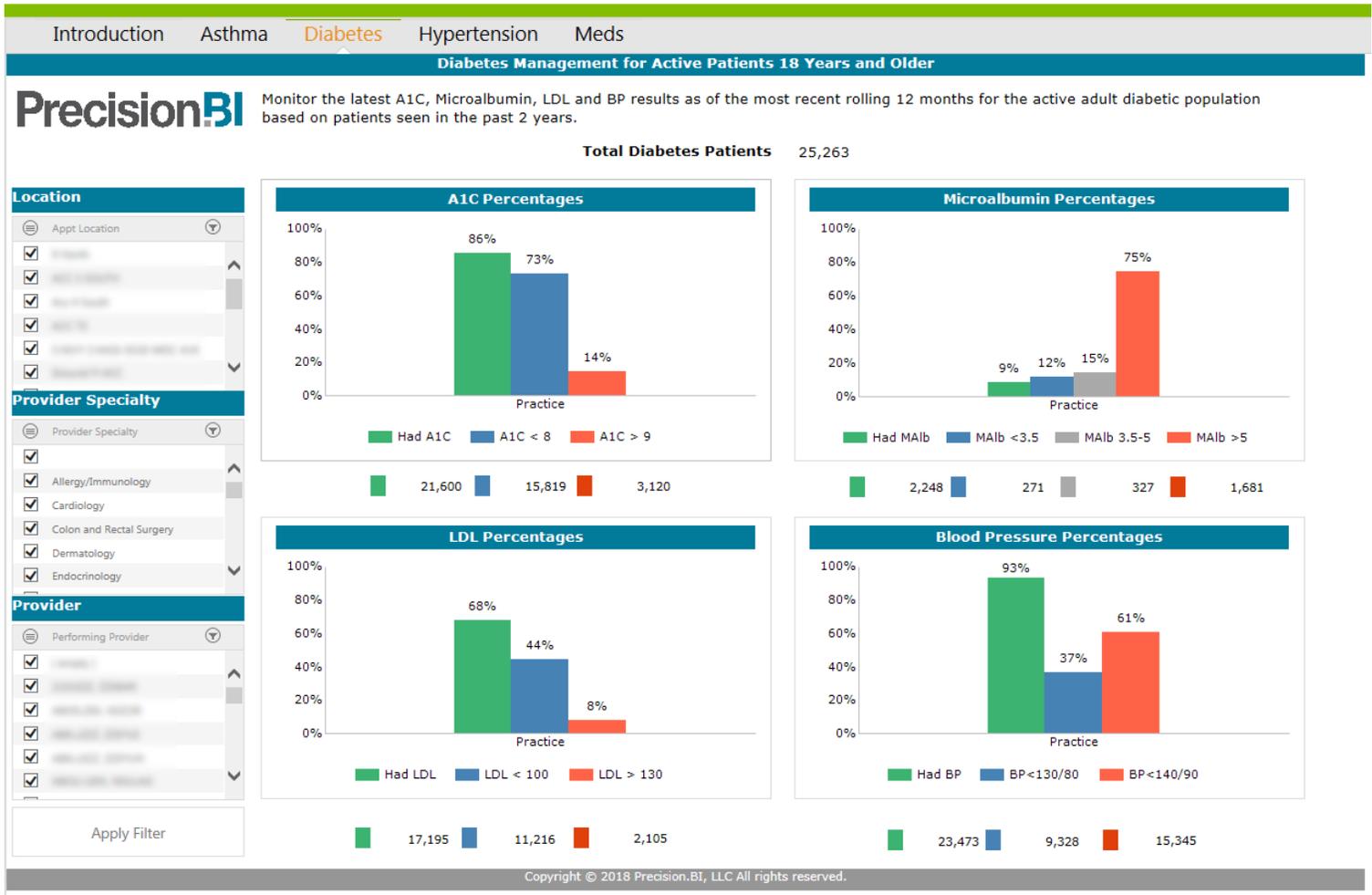


Based on security permissions, users can filter the data by one or more location, provider specialty and/or provider. Managers can also easily see how the providers within the practice compare based on number of asthma patients and the percent of those patients on medication.

To obtain a count of patients who are on medication, users can right-click on one of the graphs to **Zoom to Pivot Grid** to open up the underlying report that sources the chart. From there, a right-click on the count to **Drill Through** will bring up a list of patients.

## Diabetes

The **Diabetes** dashboard allows practices and providers to monitor the health of their adult diabetic population based on their patients' most recent HGBA1c, LDL, blood pressure and microalbumin results recorded within the past 12 months. The overall diabetic population is based on patients 18 years of age and older that had an encounter in the past 2 years (24 months) and a problem of diabetes based on specified ICD10 diagnoses codes.



Based on security permissions, users can filter the data by one or more location, provider specialty and/or provider.

To obtain a count of patients who had a specific test, users can right-click on one of the graphs to **Zoom to Pivot Grid** to open up the underlying report that sources the chart. From there, a right-click on the count to **Drill Through** will bring up a list of patients.

The results displayed are based only on the results that can be translated as numeric values. Results that are textually based, i.e. <4, >9, Total % of..., are not included in the counts or percentages

presented. Users may modify the standard logic if needed to include additional text-based data based on how each practice inputs data.

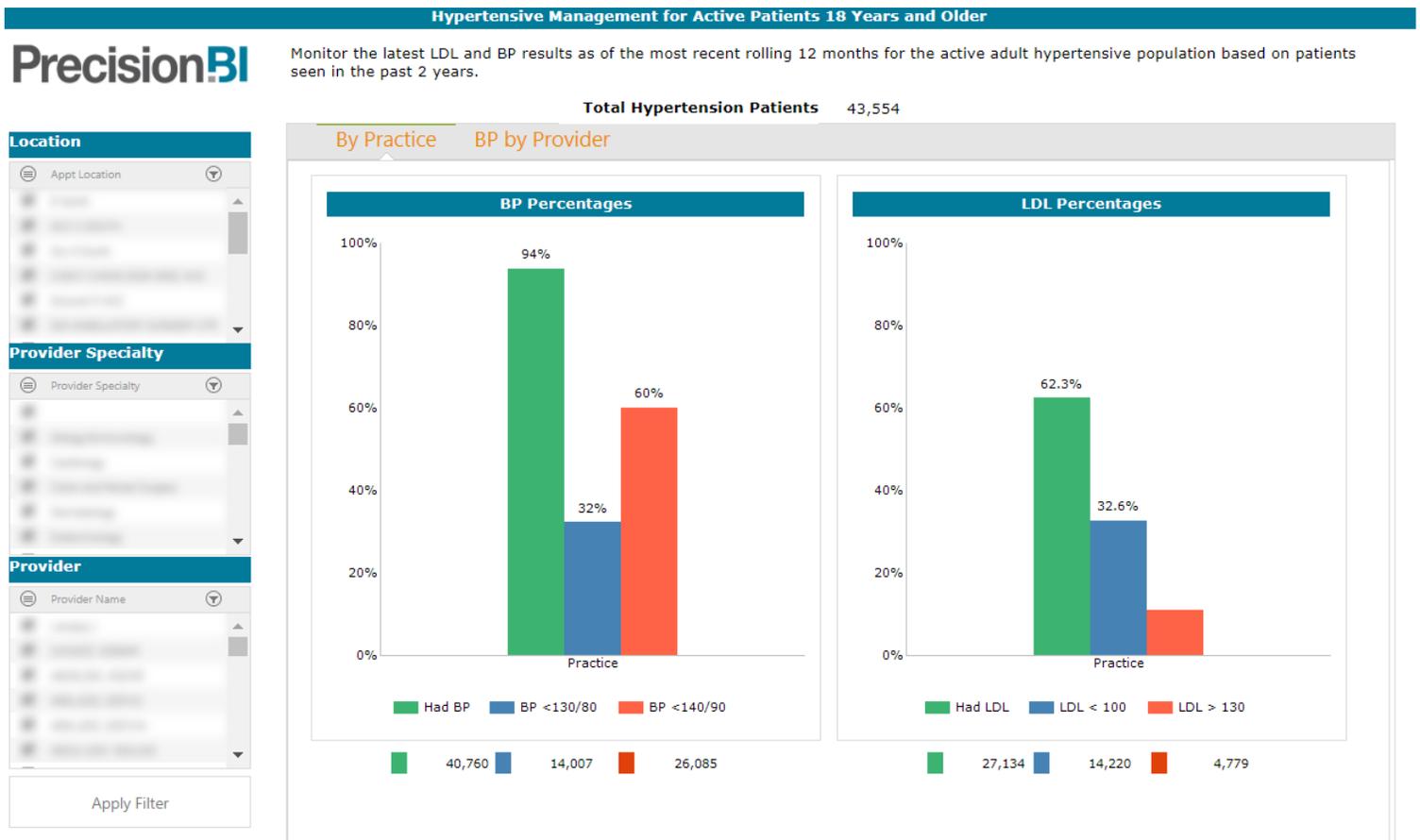
Patients are accounted for based on the patient's appointment Performing Provider, along with that provider's specialty and appointment location. Result ranges represent a patient's latest test result based on each individual lab code. (ex: a patient has had 2 different A1c tests-A1c-result 7.8, HGB-result 9.2. This patient is counted once in the A1C<8 and once in the A1C >9)

## Hypertension

The **Hypertension** dashboard consists of 2 sub-tabs allowing practices and providers to monitor blood pressure and LDL for their hypertension population. The overall hypertension population is based on patients 18 years of age and older that had an office visit in the past 2 years (24 months) and a problem of hypertension based on specified ICD10 diagnoses codes.

### By Practice

The **By Practice** sub-tab will appear by default when the Hypertension dashboard is accessed. Practices can monitor how many of their hypertensive patients have had their blood pressure or LDL tested along with the counts and percentages that fall within specified ranges based on the most recent observation recorded within the past 12 months.



## BP by Provider

The **BP by Provider** sub-tab in the Hypertension dashboard presents the percent of the total hypertensive patient population where the patients most recent blood pressure results fell into either the <130/80 or < 140/90 range by individual patient provider. A target of 50% is set for each result range. A filled in red circle is an indication that the provider has not met the target, the red circle with no fill color indicates the provider has not met the target but is getting closer. The absence of any circle indicates the provider has met or exceeded the target.

**Hypertensive Management for Active Patients 18 Years and Older**

Monitor the latest LDL and BP results as of the most recent rolling 12 months for the active adult hypertensive population based on patients seen in the past 2 years.

**Total Hypertension Patients 43,554**

By Practice | **BP by Provider**

**Location**

Appt Location

**Provider Specialty**

Provider Specialty

**Provider**

Provider Name

Apply Filter

Last Blood Pressure Reading < 130/80					Last Blood Pressure Reading < 140/90				
Provider		% <130/80	BP < 130/80	Pts w/BP	Provider		% <140/90	BP < 140/90	Pts w/BP
	●	20%	4	20			55%	11	20
	○	35%	14	40			65%	26	40
	●	13%	1	8			50%	4	8
	●	0%	0	6			67%	4	6
	○	36%	47	130			65%	84	130
	○	28%	9	32			50%	16	32
	○	40%	2	5			60%	3	5
	○	36%	21	59			56%	33	59
		50%	2	4			100%	4	4
	○	43%	15	35			63%	22	35
	●	0%	0	1		●	0%	0	1
	○	27%	33	121			55%	66	121
	●	0%	0	1			100%	1	1
		50%	7	14			57%	8	14
	○	35%	149	421			66%	279	421
	●	17%	1	6			50%	3	6
	○	42%	5	12			58%	7	12
	○	40%	8	20			70%	14	20
							64%	7	11
							45%	17	38

The results displayed in both sub-tabs are based only on the results that can be translated as numeric values. Results that are textually based, i.e. <100, >90, are not included in the counts or percentages presented. Users may modify the standard logic if needed to include additional text-based data based on how each practice inputs data. For inclusion in the blood pressure ranges of <130/80 or <140/90, patients' last systolic **and** last diastolic result must meet the specified range criteria.

Patients are accounted for based on the patient's appointment Performing Provider, along with that provider's specialty and appointment location.

## Meds

The **Meds** dashboards consists of 2 sub-tabs allowing practices and providers to monitor Coumadin patients and trends with Controlled Substances.

## Coumadin

The **Coumadin** sub-tab in the **Meds** dashboard displays by location and primary care provider, patients that are prescribed a Coumadin type medication and the percent of those patients that have not had an INR within the past 4 weeks and are in need of an updated test.

Regular Monitoring of Coumadin type drugs is vital for patient safety to find a balance between bleeding and clotting.

**Medication Monitoring for Patients 18 Years and Older**

**PrecisionBI** Monitor patients who are currently on a Coumadin medication and have not had an INR test in the past 4 weeks and the 6 month trend of prescription volume by drug schedule for patients on controlled substances.

Coumadin    Controlled Substance

**Location**

Patients actively on Anticoagulants Coumadin Type (On Meds)  
# of Patients who have not had an INR in the last 4 Weeks (Needs Test)

PCP	% Needs Test	Needs Test	On Med
	100%	66	66
	100%	9	9
	100%	12	12
	100%	9	9
	100%	6	6
	100%	12	12
	100%	6	6
	100%	15	15
	91%	237	261
	100%	19	19
	86%	397	463
	100%	6	6
	0%	0	6

1 - 50 of 190 items

Based on security permissions, users will see one or more locations in the drop down, but can only filter the data on one location at a time.

To obtain a total count of patients on Coumadin and a count of those that have had an INR and those that need an INR, users can right-click on one of the graphs to **Zoom to Pivot Grid** to open up the underlying report that sources the chart. From there, a right-click on the count to **Drill Through** will bring up a list of patients.

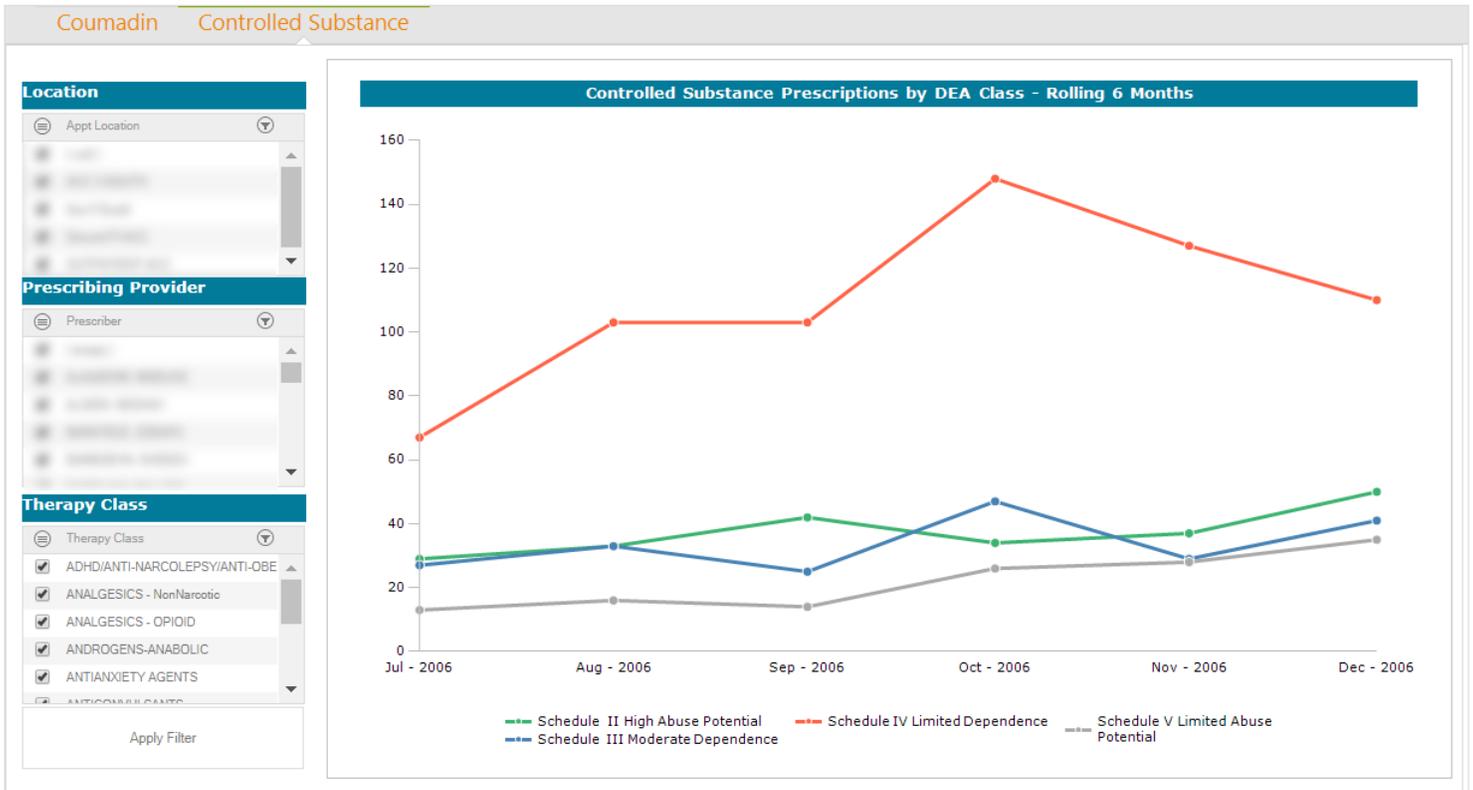
## Controlled Substance

The **Controlled Substance** sub-tab in the **Meds** dashboard displays by location, prescribing provider, and therapy class, the trend of controlled substance prescriptions by DEA class in a rolling six month time period.

### Medication Monitoring for Patients 18 Years and Older



Monitor patients who are currently on a Coumadin medication and have not had an INR test in the past 4 weeks and the 6 month trend of prescription volume by drug schedule for patients on controlled substances.



Based on security permissions, users can filter the data by one or more location, prescribing provider and drug therapy class.

To obtain a total count of patients prescribed a controlled substance and by schedule (2-5), users can right-click on the graph to **Zoom to Pivot Grid** which will open up the underlying report that sources the chart. From there, a right-click on the count to **Drill Through** will bring up a list of patients. To obtain detail for a specific month and schedule, right-click on a data point within the chart and then **Drill Through**.