PrecisionB

COVID-19 Dashboards

PrecisionBI COVID-19 dashboards are based on data from a variety of practice management systems. The filters and/or visuals presented in this document may differ based on the specific system being utilized.



Acknowledgments

Prepared by PrecisionBI Solutions Team

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Overview

In response to the COVID-19 pandemic, PrecisionBI has developed the COVID-19 Stats solution to help your organization navigate the important and actionable data from **your** practice management system. Utilizing the latest ICD-10 and CPT coding relative to services being provided along with visit and financial data, our goal is to do the heavy lifting so your organization can focus on customer care.

Understanding the demographics of your COVID-19 population in addition to changes in the way care is provided, along with monitoring cancellations that will need to be reschedule is critical to keeping your practice financially healthy.

Introduction Dashboard

The **Introduction** dashboard provides a brief synopsis of the dashboards and data presented in the **COVID-19 Stats** access center (collection of dashboards).

COVID-19 Insights

PrecisionBI

Understanding the population of patients in your practice that have been seen and/or confirmed to have COVID-19 is extremely important. PrecisionBI is committed to to helping our customers navigate the data needed to keep on top of current conditions.

The COVID-19 Dashboards allow you to:

- Understand the demographics of patients that have been seen by looking at both screening and conditional diagnoses codes the CDC has identified for reporting COVID-19. Both screening and conditional diagnoses are presented by age category, state/city, gender, marital status and race.

- See the increase in telehealth services being provided in place of face-to-face encounters.

- Keep on top of cancellations related to COVID-19 by cancellation reason and visit type so you'll be able to reschedule those patients in the future. Drill to detail provides a listing of patients, when they cancelled, the reason for cancelling and if they have not been rescheduled between 3/12/20 and 12/31/20.

- Monitor the year-over-year trends in cancellations, as well as, the cancellations that occurred from 3/11/20 forward (when WHO declared COVID-19 a pandemic). Keep an eye on the estimated loss in revenue for appointments that have not been rescheduled. Estimations are based on the average net reimbursements (payments - refunds) per invoice calculated based on the data from the current and prior posting years.

- Keep on top of open accounts receivable to find the most collectible opportunities. Which accounts have had no payments, which accounts have denials and type of denials.



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⁻ Monitor overall COVID-19 cases, discharges and deaths. Monitor patient demographics associated to deaths to better understand the most at risk populations.



Summary

The **Summary** dashboards provide information about patients with COVID-19 cases, discharges and deaths. The population of COVID-19 patients is based on ICD-10 codes as identified by the Centers for Disease Control (CDC). Deaths are identified by the patient deceased flag in the practice management system. The data is compiled based on dates of service from 2/1/2020 forward.

There are 5 sub-tabs that provide an overall summary and then basic demographic information (gender, marital status, race), geography (state and city) and aging related to the deceased population.

Much like the Demographics dashboards that provide important data about the population coming in for COVID-19 screenings and understanding those impacted by the virus, it's equally important to understand the most vulnerable population by further analyzing those patients that have died.

The data can be filtered by Group and users can drill to a distinct list of patients (see page 34).

Summary

The **Summary** sub-tab in the **Summary** dashboard provides a quick view into the total number of COVID-19 patients, the patients that are not deceased and have been discharged, the total number of deaths, the percent of deaths and the percent of discharges.

	COVID-19 Summary - Positive Patien	ts, Discharges and Deaths
Summary of COVID-19 patients, discharg having COVID-19 by either a condition or	es and deaths. Monitor the basic demographics of the patients that have die the new COVID-19 positive diagnosis and are counted distinctly. Data is ba	d due to COVID-19 to better understand the at risk population. Patients are identified as sed on service dates of 2/1/2020 forward.
Group	mmary	
All Filter Items	COVID-19 Patients	COVID-19 Deaths
	769	89
	COVID-19 Discharges	% COVID-19 Deaths
	327	11.6%
	% COVID-19 Discharges	
	42.5%	



Basic Demographics

The **Basic Demographics** sub-tab in the **Deaths** dashboard breaks out the COVID-19 population based on the patient deceased flag by both count and percent and of those that are deceased, the breakouts for gender, marital status and race. Understanding the characteristics of the population that has succumbed to COVID-19 can aid health care providers in understanding their most vulnerable populations.





By Age Category

The **By Age Category** sub-tab in the **Summary** dashboard displays 3 graphs showing the count and percent of deaths by age category along with the overall COVID-19 population by age category for comparison. Understanding how age correlates to deaths can aid providers in treating the at-risk population of patients.





Geography

The **Geography** sub-tab in the **Summary** dashboard provides information on where patients that have died due to COVID-19 reside. The overall COVID-19 positive population is compared to the population that has died by state and users can also see the top 10 cities those patients come from. By understanding where we're seeing the greatest number of deaths, we can better understand if there are other social determinants impacting patients coming from those areas, as well as, identify hot spots of virus activity.





Underlying Conditions

The **Underlying Conditions** sub-tab in the **Summary** dashboard provides a count of deceased patients by Type 1 & Type 2 Diabetes, Heart Conditions, Respiratory Problems and Kidney Disease along with a total count of deaths. It also provides a count of the deceased patients that were on a ventilator. By understanding the underlying conditions of the COVID-19 deceased patient population, health care providers can better understand the high-risk patients and potentially adjust treatment plans.





Demographics

The **Demographics** dashboard presents key demographic information about the patients that have been seen and/or screened for COVID-19. Within the overall demographics dashboard tab, there are a set of sub-tabs that break out the data by age category, state, condition, gender, marital status and race.

Charts are broken out by screenings and conditions based on ICD-10 codes as identified by the Centers for Disease Control (CDC). It's important to note that since the start of COVID-19, some of the coding has changed overtime to add additional codes and volumes may be low in some of these newer codes closer to the date the pandemic was declared.

Data is based on invoice diagnoses and specific combinations of those diagnoses from the practice management system starting with dates of service from February 1, 2020 forward. Patients are counted distinctly within each screening or condition and it should be noted, that a patient may be in more than one of those categories.

Users can filter the data by a variety of elements from the practice management system and drill into the patient detail as needed (see page 19). *Filters may differ from those displayed in this document based on your specific system.*



By Age Category

The **By Age Category** sub-tab in the **Demographics** dashboard displays two charts, the top showing screenings and the bottom specific conditions associated with COVID-19. Patients are grouped by the age categories 0-19, 20 – 29, 30 – 39, 40 – 49, 50 – 64 and 65 and over.





By Condition by State

The **By Condition by State** sub-tab in the **Demographics** dashboard displays a single graph that stacks the COVID-19 associated conditions for each state. Each patient is counted distinctly by state and condition and a patient could be in more than one condition.





Screening by State

The **Screening by State** sub-tab in the **Demographics** dashboard displays a single graph showing by state the number of distinct patients screened and the outcomes of exposure to COVID-19, positive confirmations of COVID-19, where COVID-19 has been ruled out and if patients came in with signs and symptoms similar to COVID-19 but a COVID-19 diagnosis could not be confirmed.

It should be additionally noted, that depending on coding and timing of when certain codes became available, the data for each bar may not total to the overall screenings.





By Gender

The **By Gender** sub-tab in the **Demographics** dashboard displays two graphs breaking out the screenings and the conditions associated with COVID-19 by gender. As healthcare providers continue to learn more about the patients impacted by COVID-19, it's important to be able to determine if gender plays any role in not only which patients are seeking healthcare, but also to understand if men or women have a disproportionate distribution of any of the conditions.





By Marital Status

The **By Marital Status** sub-tab in the **Demographics** dashboard displays two graphs breaking out the screenings and the conditions associated with COVID-19 by marital status. Similar, to gender breakouts, its important to know if marital status has any correlation to any of the conditions related to the virus and/or the patients that seek healthcare screenings.





Screening by Race

The **Screening by Race** sub-tab in the **Demographics** dashboard displays a single graph comparing the number of screenings, exposures, positive COVID-19 confirmations, COVID-19 rule outs and signs not confirmed as COVID-19 by patient race. It is important to understand if race plays any role in patient exposures, positive confirmations and the patients that seek screenings.





Conditions by Race

The **Conditions by Race** sub-tab in the **Demographics** dashboard displays a single graph that stacks the various COVID-19 related conditions by race. By understanding if a condition is more prevalent for one race or another, health care providers may be able to provide different and/or more effective treatments.





Telehealth Svcs

The **Telehealth Svcs** dashboard provides information pertaining to virtual visits which is on the increase with the advent of COVID-19. As patients and providers decrease in-person visits as a means of social distancing to protect against the spread of COVID-19, telehealth, e-visits and virtual check-ins are expected to increase.

The Telehealth dashboard includes two sub-tabs, one for charges and one for units of service that can be filtered by several practice management elements along with CPT Category (Telehealth, E-Visit, Virtual Check-in) and Service Period.

Data is based on the practice management charges by CPT Code and modifiers GT or 95 associated specifically with telehealth codes.

Charges

The **Charges** sub-tab in the **Telehealth** dashboard displays both a bar chart by CPT code in descending order based on total charges for the current year-to-date based on date of service along with a display of the total charges for each service period (YYYYMM). It should be noted that prior service period dollars may change in instances where there is a charge lag such as charges being held up in the editing system.

		CO	/ID-19 Tele	medicine S	Services		
ehealth Procedure Codes with Modi	ifiers GT or 95, E-Visit Co	des and Virtual	Check-in Codes f	or the current y	ear based on ser	vice date.	
	Charges						
roup	Churges						
I Fliter Items						Service Period Ch	arges
		Telehe	alth Charges b	у СРТ		202001	\$684
						202003	\$191,511
	00010					202004	\$247,126
ivision	99213-						
l Filter Items	99214						
	99212						
	99215						
	99203						
	99204						
ocation	90032						
l Filter Items	90791 -						
	99202						
	99211						
	90833 -						
	90834 -						
	90837 -						
PT Category	99201 -						
l Filter Items	99221 -						
	99354						
	90792 -						
ervice Period	96156 -						
I Filter Items	90846 -						
	\$0	\$50,000	\$100,000	\$150,000	\$200,000		
	Total Charges				\$439,32	1	



Units

The **Units** sub-tab in the **Telehealth** dashboard displays both a bar chart by CPT code in descending order based on the units of service for the current year-to-date based on date of service along with a display of the total units for each service period (YYYYMM). It should be noted that prior service period units may change in instances where there is a charge lag such as charges being held up in the editing system.





Cancellations

The **Cancellations** dashboard provides information about appointment cancellations that will be critical to the future well-being of not only patients, but the practice as we recover from the COVID-19 pandemic.

Within the Cancellations dashboard are sub-tabs with information pertaining to whether cancellations were related to COVID-19 (where information is available) and by type of visit cancelled, year-over-year trends, as well as a call-out of cancellations from 3/11/2020 (the date COVID-19 was declared a pandemic) forward.

Additionally, the dashboards include a look at the potential estimated loss in revenue. Drill to detail provides actionable lists of patients that have cancelled and not yet rescheduled their appointments to help practices identify patients that need to be sent reminders and/or called to reschedule.

Users can filter the dashboards by a variety of elements associated with their scheduling data along with drilling into patient detail. *Filters may vary from those displayed in this document based on system.*



Summary

The **Summary** sub-tab in the **Cancellations** dashboard displays two graphs, one depicting the current year cancellations (starting in the month of March) compared to cancellations from 3/11/20 forward by the cancellation comment categories of Non-COVID-19 Comment, No Comment or COVID-19 comment. The other graph looks at the year-over-year difference in cancellations by visit category, also specifically calling out cancellations from 3/11 forward.

Note, both the current and prior year periods start in the month of March and go thru December. As more cancellations come in for the current year, you will be able to see how that relates to the aggregate timeframe for March – December of the Prior year.

Because of the free-form nature of comments, COVID-19 cancellations are identified based on %covid% or %corona% in the body of the cancellation comment. *Logic may differ based on system and/or client workflow.*

Drill to patient detail is available to pull a list of patients that cancelled and have not rescheduled. This list can be easily exported from the dashboard as a worklist for rescheduling cancelled appointments (see page 20).





Trends

The **Trends** sub-tab in the **Cancellations** dashboard displays three graphs depicting the count of cancelled appointments for the current and prior years starting in March along with the cancels from 3/11/20 forward by month, the year-over-year percent change in cancellations and the % of cancellations at/after 3/11/20 as it relates to the current year cancellations (again, starting in March).

Practice and department managers can easily monitor the percent change as the year progresses to see if volumes start following more normal trends.





Lost Opportunity

The **Lost Opportunity** sub-tab in the **Cancellations** dashboard displays both a trend graph showing the estimated loss in revenue for appointments not rescheduled by original appointment month along with a data table showing the appointment count and related estimated revenue loss.

Appointments that have a "No Charge" visit type are excluded. (*This may differ by system or workflow*). The timeframe for the look forward for rescheduled appointments is between 3/12/2020 and 12/31/2020.

The estimated loss is based on the average reimbursement (payments – refunds) from the prior year and the first 3 months of the current year. Clients can also provide their own estimate for average reimbursement for use in the calculation if desired.

Knowing the potential loss the practice could sustain due to COVID-19 and other cancellations can incent the practice to be as proactive as possible to avoid an erosion of revenue that if not addressed sooner rather than later could be a complete loss for the year.





Current AR

Collecting on open accounts receivable during and post COVID-19 pandemic is critical to the financial health of the practice.

The **Current AR** dashboards break out the open accounts receivable into four sub-tabs to provide insights into the best opportunity to collect on accounts. Managers can review the AR by Age (invoice create), by Category (debit/credit, primary/non-primary payer, denial/no denial), by Denial Type and by AR without any payments for the top departments and locations.

Users can further filter the data by several elements from the practice management system. *Filters and/or break outs of the AR may differ from the examples below based on specific system.*

Drill to detail allows users to obtain work-lists for specific open accounts receivable to work accounts.



AR by Inv Create Age Category

The **AR by Inv Create Age Category** sub-tab in the **Current AR** dashboard displays three charts. One chart displays the open accounts receivable without any payment by invoice create age, another displays the total open accounts receivable and the third chart shows the percent of open AR without any payment. Aging is based on 14 day increments up to 74 days and then over 75 days. By utilizing the associated filters, AR Managers can zero in on the best opportunity to collect based on whether the AR has a denial that is controllable or not and/or is being held by the primary or non-primary payer. *Depending on practice management system, aging may be based on different source dates.*





By Category

The **By Category** sub-tab in the **Current AR** dashboard displays the overall accounts receivable in three pie charts, Denial/No Denial, Primary/Non-Primary Payer and Debit/Credit AR. This high-level view can provide AR Managers with a starting place for collection opportunity assessment. *Category breakouts will be dependent on specific practice management system and how it stores AR data.*





By Denial Type

The **By Denial Type** sub-tab in the **Current AR** dashboard displays the open accounts receivable by denial type. By focusing on denials that are controllable by the practice, AR Managers can see where opportunity to collect may be achievable with corrections and re-submissions of claims. *This dashboard is dependent on how the practice management system stores primary denials and if the organization currently categorizes them. Additional work may be required.*





AR w/o Pymt

The **AR w/o Pymt** sub-tab in the **Current AR** dashboard displays two graphs showing the top 10 divisions and top 10 locations with the greatest AR without any payment. This can help AR Managers focus efforts in specific areas of the organization that can maximize return on collection efforts.





Drill to Detail Reports

Drill to detail reports provide additional information about the data aggregated in the dashboards and can be utilized as worklists when exported from the PrecisionBI dashboards. *Columns in the drill reports below may differ depending on system.*

Demographic Drill

For instances where users would like to get a list of patients associated with any specific demographic in the dashboards, they can right-click from a data point in the dashboards to call-up the drill-to-detail report. For example, a user may want to see all potential 9 diagnosis codes for the greater than 65 year old population that had COVID-19 confirmed.

Introduction	Demographics	Telehealth Svc	s Cancellations	Appendix 🛙	Pt AgeCat = 65 +	Years x		
Group Name 🕤	Div Name 🕤	Loc Name 💿	Pt Age Cat at Sv 🕤	Inv Num	Service Date	Pt MRN 🕤	Pt Date of Birth 🕤	Patient Name L
		INPATIENT HOSPITAL	65 + Years		04/07/2020			
ALCORE ADDRESS MILLION ADDRESS MILLION ADDRESS		INPATIENT HOSPITAL	65 + Years		04/07/2020			
		INPATIENT HOSPITAL	65 + Years		04/08/2020			
ALCONG ADDRESS MALE ADDRESS MALE ADDRESS		INPATIENT HOSPITAL	65 + Years		04/07/2020			
		INPATIENT HOSPITAL	65 + Years		04/07/2020			

Introduction	[Demographics	Telehealth Svcs	Cancellations	Appendix III Pt	AgeCat = 65 + Yea	ars x		
Pt Deceased	•	Pt State	Pt City 🕤	Pt Zip	Pt Phone 🕤	Pt MaritalStatus 🕤	Pt Race 🕤	Inv Dx 1 🕞	Inv Dx 2
	Ν					SINGLE	CAUCASIAN	U07.1	^
	N					SINGLE	CAUCASIAN	U07.1	
	Ν					SINGLE	CAUCASIAN	U07.1	
	Ν					MARRIED	OTHER	U07.1	
	Y					SINGLE	CAUCASIAN	U07.1	



nics Telehealth	Telehealth Svcs Can		ons Appendix	Pt AgeCat = 6	5 + Years x		
Inv Dx 3	Inv Dx 4	•	Inv Dx 5 🕞	Inv Dx 6	Inv Dx 7	Inv Dx 8 💿	Inv Dx 9
J96.01		B99.9	Z94.0	D89.9	125.10		
J96.01		S06.5X9A	N17.9	E11.9	110		
J96.01		S06.5X9A	N17.9	E11.9	110		
J96.01		D72.829	N17.9	E11.9	110	E78.5	
J96.01		150.32	125.10	E11.9	Z79.4	F03.91	N18.3

Note: Because the drill includes invoice data, the number of rows returned will be greater than the distinct counts of patients in the dashboards.

Cancellations Drill

For users needing a list of patients that have cancelled appointments due to COVID-19, they can right-click on the COVID-19 bars in the graph on the Summary tab or the CY Cancels/Cancel 03/11 forward in the Cancels by Visit Type. If there is a rescheduled appointment date, that will be evident and users can see the department, location, visit type, appointment date and provider for the original appointment along with the specific cancel comment.

Drill thru is also available to users from the top graph in the Trends dashboard and from the Appts not Reschedule in the Lost Opportunity graph.

< duction De	mographics Te	elehealth Svcs C	Cancellations Ap	opendix 🔲 🛙 🕻 Can	cel Comment Category =	Covid-19 Sch SchI	DeptMnem = CHAN
Departement ()	Location ()	Visit Category 🕤	Visit Type 💿	Scheduled Provi 🕤	Cancel Comment Category 🕤	Cancel Comment 🕤	Month Num 🕤
		NEW PATIENT	INITIAL PATIENT VISIT		Covid-19	COVID19 GUIDELINES	3
			NURSE VISIT		Covid-19	covid 19 closing	3
		NEW PATIENT	INITIAL PATIENT VISIT		Covid-19	COVID-19 GUIDELINES	3
		ESTABLISHED PATIENT	FOLLOW UP		Covid-19	COVID-19 GUIDELINES	3
		ESTABLISHED PATIENT	TELEHEALTH		Covid-19	COVID-19 GUIDELINESS	3



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Demographics	Telehealth Svcs	Cancellations	Appendix	13	(Cancel Comn	nen	t Category = Covid	-19 Sch SchDeptN	Inem = CHAM)	×
Month 🕤	Cancelled Appt 🕤	Cancel Count 🕤	Appointment D	•	Cancelled Dte	T	Rescheduled Da 🕤	MRN	Pt Date of Birth	•
MAR		1	03/31/2020		03/26/2020					
MAR		1	03/31/2020		03/27/2020					
MAR		1	03/31/2020		03/26/2020					
MAR		1	03/27/2020		03/26/2020		03/26/2020			
MAR		1	03/26/2020		03/26/2020					

To further explore year-over-year percent change and the % of Cancels post pandemic declaration, users can Zoom to the Pivot Grid.



Current AR Drill

To aid AR Mangers with opportunity to collect on open accounts receivable, drill to detail reporting can be utilized to provide work lists of accounts for collection efforts.

Group Name	•	Div Name	•	Loc Name	Denial/No Denial 🕤	Controllable/N	Denial Type ^	Inv Create Age	Debit or Credit 🕤	Primary Payer?
				INPATIENT HOSPITAL	Denial	Non-Controllable Denials	CLAIMS PROCESSING DENIALS	15 - 29 Days	Debit	Not Primary
				INPATIENT HOSPITAL	Denial	Non-Controllable Denials	CLAIMS PROCESSING DENIALS	15 - 29 Days	Debit	Primary
				ON CAMPUS OUTPATIENT HOSPITAL	Denial	Non-Controllable Denials	CLAIMS PROCESSING DENIALS	15 - 29 Days	Debit	Primary
				INPATIENT HOSPITAL	Denial	Non-Controllable Denials	CLAIMS PROCESSING DENIALS	15 - 29 Days	Debit	Primary

Inv Current Fsc	Inv Num 🕤	No Payment AR	Inv Balance 🕤	Patient Name L 🕤	Pt Date of Birth 🕤	Pt Phone 🕤
AMERIHEALTH		957.00	\$957.00			-
HORIZON		142.00	\$142.00			
AMERIHEALTH		558.00	\$558.00			
AMERIHEALTH		798.00	\$798.00			



Covid Patient List Drill

From the Summary dashboards, users can drill to a distinct list of patients for information about the patients with COVID-19, the patients that were discharged or the patients that have died. Note, to drill from the Micropulses in the Summary and Underlying Conditions sub-tabs, right-click and zoom to the pivot grid first.

Group Name 🕤	Pt Deceased 🕤	Pt State 🕤	Pt City 🕤	InvSvc PtAgeCat 🕤	Pt Age At Service 🕤	Pt Sex 🕤	Pt Race 🕤
	Y	NJ		65 + Years	84	male	UNKNOWN
	Y	NJ		65 + Years	92	male	CAUCASIAN
	Y	NJ		50 - 64 Years	63	male	CAUCASIAN

Pt MaritalStatus 🕤	Pt MRN ()	Pt Date of Birth	Patient Name L 🕤
SINGLE			
SINGLE			
SINGLE			



Appendix

The **Appendix** dashboard notes industry references used to help define COVID-19 patients, conditions and telehealth codes.

Users can copy the web addresses to view the information.

Introduction	Summary	Demographics	Telehealth Svcs	Cancellations	Current AR	Appendix		
	COVID-19 Dashboard Appendix							
Resources related to COVID-19 identification: - CMS List of Telehealth Services: cms.gov/Medicare/Medicare-General-Information/Telehealth/Telehealth-Codes								
- CDC ICD10 Coding: cdc.gov/nchs/data/icd/COVID-19-guidelines-final.pdf								
- AAP Publications: aappublications.org/news/2020/02/12/coding031220								