Clinical Decision Support (CDS) Rules

07/24/2024 1:15 pm EDT

DrChrono includes several default Clinical Decision Support rules that can be found under **Clinical** > **CDS Rules**. You can also make your own CDS rules here to use in your DrChrono account.

Clinical	Patients	Reports	Billinç
FORM TOO	OLS		
Form Bui	der		
Form Bui	lder (beta)		
Tag Mana	igement		
Library			
Archive			
Archive (b	oeta)		
Form Rec	order		
Complete	Note Forma	at	
onpatient	Forms		
Macro Bu	ittons		
Documen	t Manageme	ent	
CLINICAL			
Clinical N	otes		
Audit Log	I		
CDS Rule	S		
Inventory	Managemer	nt	
Patient E	ducation Ma	nagement	

You can view and edit custom CDS rules you have created on the top part of the screen. The hardcoded CDS Rules can be seen below.

Clin	Xinical Decision Support Rules															
	For 202 Puter A Middler College COS Puter															
View	tew CDS Rules + Add New Custom CDS Rule															
Cur	Austram CDS Bulles															
Oua																
For Sta	x Stage 2 of Meaningful Use, you need a total of 5 active CDS rules (Including hardcoded rules) active for your 90 day 2014 MU attestation period. Cnly 1 active CDS rule is required for Stage 1 of Meaningful Use.															
		Staff									Release					
ID	Provider	Visibility	Description		Care Info			Developer	Bibliography	Funding	Date	Notes		Status		
210904	Jane Smith	All	All patients with diabetes should have a glycol test within the past 6 months.	emoglobin blood	This patient has a diagnosis of Diabetes Mellitus, but has within the past 6 months. He/she is due for one.	i not had a glyco	hemoglobin done	None	None	None		All patients with diabetes should have a gly test within the past 6 months.	cohemoglobin blood	Inactive	✓ Edit	Make Active
102228	6 Jane Smith	All	Patient age 20-40			5								Inactive	🖋 Edit	Make Active
103351	3 Jane Smith	Al	Sample CDS Group		N									Active	✓ Edit	Make Inactive
Har	dcode	d Svst	emwide CDS Rules													
ID	Staff Vieibilit	Descri	ntion	Care Info		Developer	Bibliography				Funding		Release Date	Status		
S1	All	Patient	must have documented medications	Document a mer	fication or indicate No Known Medications	CMS	http://www.quait	(Anno munoh	PS/0419		Centers	Cantare for Madicare & Marticaid Services 2013				Make Inactive
S2	All	Patient	must have documented allergies	Document a med	dication alleroy or indicate NKDA.	CMS	http://www.guait	/orum.org/Q	PS/0020		Nationa	Committee for Quality Assurance	2012	Active		Make Inactive
S3	All	Diabeti	c Eve Exam	Schedule an eye	exam for the patient.	CMS	http://www.nlm.n	h.gov/medin	eplus/ency/pa.		America	n Diabetes Association	2012	Active		Make Inactive
S4	All	Diabeti	c Foot Exam	Schedule a foot	exam for the patient.	CMS	http://www.diabe	es.org/living-	with-diabet		America	n Diabetes Association	2014	Active		Make Inactive
S5	All	Diabeti	c Hemoglobin A1C Poor Control	Council patient of	on managing Hemoglobin A1C levels.	HRSA	http://www.hrsa.g	ov/quality/to	olbox/measur		HRSA		2009	Active		Make Inactive
S6	All	Adult In	mmunization Schedule Age: 19-21	Refer to Adult Im	munization schedule.	CDC	http://www.odo.g	w/vaccines/s	chedules/hcp/		CDC		2014	Active		Make Inactive
\$7	All	Adult In	mmunization Schedule Age: 22-26	Refer to Adult Im	munization schedule.	CDC	http://www.odc.g	w/vaccines/s	chedules/hcp/		CDC		2014	Active		Make Inactive
S8	All	II Adult Immunization Schedule Age: 27-49 Refer to Adult I			munization schedule.	CDC	http://www.cdc.g	w/vaccines/s	chedules/hcp/		CDC		2014	Active		Make Inactive
S9	All	Adult In	Adult Immunization Schedule Age: 50-59 Refer to Adult Immunization schedule.				http://www.odc.g	w/vaccines/s	chedules/hcp/		CDC		Active		Make Inactive	
S10	All	Adult In	nmunization Schedule Age: 60-64	Refer to Adult Im	munization schedule.	CDC	http://www.cdc.g	w/vaccines/	chedules/hcp/		CDC		Active		Make Inactive	
S11	All	Adult In	mmunization Schedule Age: 65+	Refer to Adult Im	munization schedule.	CDC	http://www.odc.g	w/vaccines/s	chedules/hcp/		CDC		2014	Active		Make Inactive

You can make any of the existing rules inactive by clicking the **Inactive** button. To reactivate a rule, click **Activate**.

Ha	ırdcode	ed Systemwide (M	Inactive					
ID	Staff Visibility	Description	Care Info	Developer	Bibliography	Funding	Release Date	Status	
S1	All	Patient must have documented medications	Document a medication or indicate No Known Medications.	CMS	http://www.qualityforum.org/QPS/0419	Centers for Medicare & Medicaid Services	2013	Inactive	Make Active
S2	All	Patient must have documented allergies	Document a medication allergy or indicate NKDA.	CMS	http://www.qualityforum.org/QPS/0020	National Committee for Quality Assurance	2012	Active	Make Inactive

Make Active

CDS Rules will appear in the patient's chart in their profile.

Laurie T	Sample (Female	SAJA000001		
Phone:	(650) 555-5555	Email: sample@sample.com	Date Added: Jan. 4, 2022	
Address:	328 Gibraltar Dr Sunnyvale , CA 94089		Last Scheduled Appt: Thu Dec 08, 2022 Next Scheduled Appt: Thu Dec 22, 2022	
CDS:	Sample CDS Group	Patient must have documented allergies	Adult Immunization Schedule Age: 27-49	

You can also view individual rules under the Clinical Dashboard in the patient's chart.

Clinical Dashboard	-	Lä	ab Result	s														
Documents		S	Status			Date Di				Do	ocuments							
Eligibility		R	Results Received			Thursday, May 5 2022 at 2:12 p.m. Se			Select one:			View						
Engionity	-			_														
Tasks	0	Legacy Lab Results																
Problem List	•	U	OINC Code	Lab I	Description	Date			Sign-Off	Statu	ıs	Res	lt	Comments				
Medication List	•	1	1502-2	Labo	atory report	Feb. 24, 2022,	1:37 p.m.		Signed Off	Resul	Its Received	10 U	iits					/ Edit
Send eRx		1	1502-2	Labo	atory report	ort March 31, 2022, 12:31 p.m. Signed Off Re			Resul	Its Received	14 m	g/dl	Notes on the la	b order can g	go here.		🖋 Edit	
Allerm / List	•																Cature CI	DC Dulas
Allergy List		A	ctive Clin	ICAI De	ecision S	upport Rules	For Patien	t									Setup OL	Jo Hules
Drug Interactions	13			ID	Description		Release Date	Care	Info			Bibliogra	ohy N	otes	Developer	Funding		
CQMs			Dismiss Alert	1033513	Sample CDS	Group						View			None			
Intake Data			Dismiss Alert	s2	Patient must allergies	have documented		Docu NKD/	ment a medication A.	n allerg	gy or indicate	View	R(elated to NQF 120	CMS	National Con Assurance	nmittee for Q	uality
Lab Orders			Dismiss Alert	s8	Adult Immuni 27-49	zation Schedule Age:		Refer	to Adult Immuniza	ation s	schedule.	View			CDC	CDC		

Creating Custom CDS Rules

You can create your own CDS rules that meet the needs of your practice. Click + Add New Custom CDS Rule to begin.



Next, fill out the information you would like to have to meet the rule. Keep in mind that in order for this rule to be satisfied, **ALL** of the conditions you include need to be met with patient data.

The description is also the name of the rule. For example, I am going to call this rule 'Dolphin Problems'.

Next, select any other information you would like to have for this rule, for example, an age range of 20-40.

View CDS Rules + Ad	d New Custom CDS	Rule		
Description	Dolphin Problems		G	
Patient DOES hav	re:			
 Age Range in Years 20 - 40 	years old	O Age Range in Months	s old	
Sex Gender Identity	~	Race Sexual Orientation	~ ~	Ethnicity V Preferred Language V
Temperature	f	Pulse	Blood Pressure - Systolic	Blood Pressure - Diastolic
Oxygen Saturation	%	Height	Weight	Ibs BMI

Next, enter any ICD-10 codes, Active medications, Allergies, or Lab Results. You can also include any bibliography links or funding information. In this example, we have 3 codes for dolphin incidents.

Active Problem (ICD-10)	W56.01XA: Bitten by dolphin, initial encounter
Active Problem (ICD-10)	W56.02XA: Struck by dolphin, initial encounter
Active Problem (ICD-10)	W56.09XA: Other contact with dolphin, initial encounter
Active Problem (ICD-9)	• x +
Active Drug	
Active Allergy	+ × +
Lab Result	+ × · · +
Bibliography	
Posoarch Eunding Source	Polozeo Dato of Supporting Popograph

You can also enter any conditions for the patient NOT to have to trigger the rule. We have a code associated with sea lions as an example here. Once you have set all of the data for your rule, click **+Add CDS Rule**.

Patient DOES NOT	Patient DOES NOT have:												
Problem (ICD-10)	W56.11XA: Bitten by sea lion, initial encounter												
Problem (ICD-9)	* × +												
Drug	* x +												
Allergy	• x +												
Lab	* x +												
	+ Add CDS Rule												

Let's take a look at the rule in the patient's chart. This sample patient has a Dolphin Problems CDS rule tag because

she is in the age range of 20-40 and she has ALL 3 of the ICD-10 codes we set for the rule.

	Laurie T. Sam	ple (Female	32 years old	Dec. 8, 1	990) 🥒						SAJAOC	00001
	Phone: (650) 55 Address: 328 Gib Sunnyva	5-5555 raltar Dr ale , CA 94089	Email: sa	ample@samp	ole.com	L	ast Sche ext Sche	Date Added: Ja eduled Appt: Th eduled Appt: Th	n. 4, 2022 u Dec 08, 2022 u Dec 22, 2022			
	CDS: Sample	e CDS Group	Dolphin Problem	ns Patient	must have docu	mented allergies	Adul	t Immunization S	chedule Age: 27-49			
✓ onpatient access enabled	New Referral Fa	ax Demographic	s 🕒 Print De	emographics	;	A	pple He	alth App Data	♥ Vitals + Sc	hedule Ne	w Appointm	hent
There are problems th Active Problems Show Inactive Problems F	at haven't been rec	Active Problems	is patient.						+ Ac	Continue	Reconciliatio	on It List
Problem		Code System	ICD-CM Code	SNOMED	Date Diagnosed	Date Changed	Status	Notes	Updated			
Bitten by dolphin, initial encounter		ICD-10	W56.01XA		Sep 21, 2022		active		Dec 15, 2022	Info	✓ Edit D HL7 2.5.	Jelete 1 File
■ Struck by dolphin, initial encounter	r	ICD-10	W56.02XA		Jan 21, 2022		active		Dec 15, 2022	() Info	 Edit HL7 2.5.1)elete 1 File
Other contact with dolphin, initial	encounter	ICD-10	W56.09XA		Dec 14, 2022		active		Dec 15, 2022	() Info	 Edit HL7 2.5.)elete 1 File

If anything is added or changed that does not meet the rule, the CDS Rule flag will not appear. For example, we have added the sea lion code that was in the 'Patient Does Not Have' section of the example rule. Since we have added this code, the rule is no longer met.

		Laurie T	. Samp	le (Female	e 32 years old	d Dec. 8,	1990) 🥒				SAJA000001					
		Phone: Address: CDS:	(650) 555- 328 Gibra Sunnyvale Sample (-5555 Iltar Dr e , CA 94089 CDS Group	Email: sample@sample.com Patient must have documented allergies			Date Ade ast Scheduled A lext Scheduled A Adult Immunizatio	ded: Ja ppt: Th ppt: Th on Scheo	n. 4, 2022 u Dec 08, 2022 u Dec 22, 2022 dule Age: 27-49						
	✓ onpatient access enabled	New Refer	ral Fax	< Demographic	es 🔒 Print D	emographic	cs	A	pple Hea	alth App Data	♥ Vitals	In Schedule Ne	w Appoir	ntment		
	There are problems that	at haven't b	been reco	onciled for th	nis patient.							Continue	Reconcili	ation		
Ac	tive Problems	atient has No) Known A	ctive Problems	5							+ Add Problem	Ð	Print List		
	Problem			Code System	ICD-CM Code	SNOMED	Date Diagnose	d Date Changed	Status	Notes	Updated					
=	Bitten by dolphin, initial encounter			ICD-10	W56.01XA		Sep 21, 2022		active		Dec 15, 202	1 Info	Edit	Delete 2.5.1 File		
=	Struck by dolphin, initial encounter			ICD-10	W56.02XA		Jan 21, 2022		active		Dec 15, 202	1 Info	Edit	Delete 2.5.1 File		
=	Other contact with dolphin, initial e	ncounter		ICD-10	W56.09XA		Dec 14, 2022		active		Dec 15, 202	1 Info	✓ Edit HL7 2	Delete 2.5.1 File		
=	Bitten by sea lion, initial encounter	◀		ICD-10	W56.11XA		Dec 15, 2022		active		Dec 15, 202	1 Info		Delete 2.5.1 File		