EMS User Guide

Cardiac Arrest Registry to Enhance Survival (CARES)



CARES Cardiac Arrest Registry to Enhance Survival



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CARES WEBSITE:



The CARES website hosts a number of useful documents for program stakeholders. A summary of the resources available under each tab is found below:

- CARES Overview history of program, map of current participants, governance, letters of support.
- States state model FAQs, state funding examples, state participation in action.
- EMS Agencies EMS FAQs, sample reports, agency participation in action, data element PDFs, data dictionary, EMS User Guide.
- Hospitals hospital FAQs, sample reports, data element PDFs, data dictionary, Hospital User Guide.
- Data annual reports, Reports User Guide, legacy national reports, data sharing policy, publications.
- Contact Us contact information for CARES staff and state coordinators.

If you've forgotten your CARES password, please click on the "**Forgot password**" link below the log-in box. You'll be prompted to answer your unique password question, and a new password will be e-mailed to you.

CARES CASE DEFINITION:

A CARES case is a non-traumatic out-of-hospital cardiac arrest event where resuscitation is attempted by a 911 responder (CPR and/or defibrillation). This includes patients that received an AED shock by a bystander prior to the arrival of 911 responders. Please note: CARES collected only arrests of presumed cardiac etiology from 2005-2012. In 2013, CARES expanded to include all non-traumatic arrests.

This User Guide includes a number of data definitions. For additional examples, please refer to the CARES Data Dictionary, available at https://mycares.net/sitepages/emsagencies.jsp.



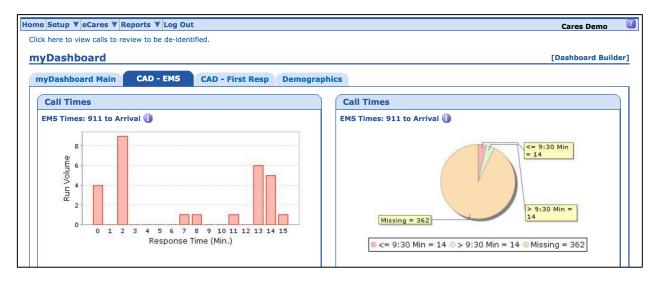
THE DASHBOARD:

Below is the screen you see immediately after logging in. This initial screen is your Dashboard and has several different tabs. Please keep in mind that all data on the Dashboard is dynamic and updated in real-time as data is entered, updated, or deleted.

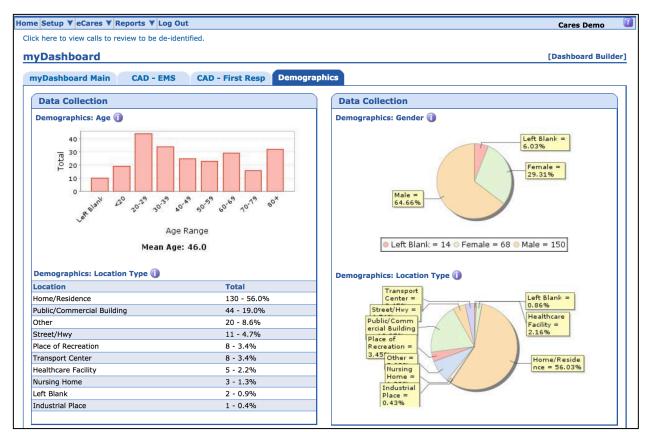
The **Agency Productivity** box shows call volume over the past 12 months. **Incomplete Forms by Hospital** shows all forms that have not been completed by local hospital contacts. The **Audit-Data Entry Errors** box displays records that are flagged for auditing issues. If you click on the number next to the Month or Hospital, the site will direct you to the respective records. Click the pen and paper icon to edit the record and 'Save' your updates.



The 2nd and 3rd Dashboard tabs, **CAD-EMS** and **CAD-First Responder**, display intervals for local response times in bar graph and pie chart format, if your EMS agency enters this supplemental data into CARES.



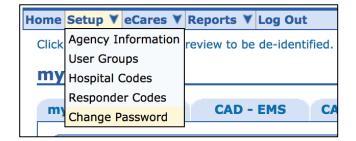




The **Demographics** tab displays your agency's arrests by Age, Gender, and Location Type.

CHANGING YOUR PASSWORD:

CARES passwords are case-sensitive. You can change your password at any time under the **Setup** tab once you are logged in.





ADDING A NEW CASE:

If you are doing direct data entry, click **Add New** from the **eCares** tab to open a blank CARES form. Required elements are in a grey background (i.e. questions 1-11) and supplemental elements are in a blue background (i.e. question 12).

All patients meeting the CARES case definition (see page 3) must be entered into the registry. Patients that do not meet the case definition (i.e. DOAs, DNRs, traumatic arrests) may be entered; however, they will **not** be included on the Dashboard, in any CARES standard reports, or pushed to the hospitals for outcomes.

Part A : Demographic Information 1 - Street Address (Where Arrest Occurred)								
2 - City 6 - First Name	3 - State 4 - Zip C 7 - Last Name	ode 5 - County						
8 - Age	9 - Date of Birth Years DOB Unknown	Male	11 - Race/Ethnicity American-Indian/Alaska Native Asian Black/African-American Hispanic/Latino	Native Hawaiian/Pacific Islander White Unknown				
12 - Medical history No Unknown Cancer Diabetes Heart Disease Hyperlipidemia Hypertension Renal Disease Respiratory Disease Stroke Other								

13 - EMS Agency ID 100000000010005	14 - Date of Arrest	15 - Incident #	
16 - Fire/First Responder		17 - Destination Hospital	
No First Responder dispatched	¢) sort	(sort	

Part C :Arrest Information						
18 - Location Type Definitions	19 - Arrest Witness Status	20 - Presumed Cardiac Arrest Etiology Definitions				
O Home/Residence	Unwitnessed	Presumed Cardiac Etiology				
Public/Commercial Building	Witnessed by Bystander	Trauma				
Street/Highway	Witnessed by 911 Responder	Respiratory/Asphyxia				
ONursing Home		O Drowning/Submersion				
Healthcare Facility		Electrocution				
Place of Recreation		Exsanguination/Hemorrhage				
Industrial Place		Drug Overdose				
Transport Center		Other				
Resuscitation Information						
21 - Resuscitation attempted by 911 Responder (or AED shock given prior to EMS arrival) Yes No	22 - Who Initiated CPR Not Applicable Bystander Family Member Healthcare Provider (non-911 Responder) First Responder Did Law Enforcement initiate CPR? Yes No EMS Responder (transport EMS)	23 - Type of Bystander CPR Provided Compressions and ventilations Compressions only Ventilations only Unknown 24 - Were Dispatcher CPR instructions provided: Yes No Unknown				
25 - Was an AED applied prior to EMS arrival	26 - Who First Applied the AED	27 - Who First Defibrillated the Patient				
Yes, with defibrillation	Bystander	Not Applicable				
Yes, without defibrillation	Family Member	Bystander				
No	Healthcare Provider (non-911 Responder)	Family Member				
	Law Enforcement First Responder	Healthcare Provider (non-911 Responder)				
	ONon-Law Enforcement First Responder	Law Enforcement First Responder				
		Non-Law Enforcement First Responder				
		EMS Responder (transport EMS)				
28 - Did 911 Responder perform CPR: Yes No						



Question 32 is the last required question. When you select "Ongoing Resuscitation in ED" the hospital will automatically be notified that a patient outcome is required. If End of Event is "Pronounced in the ED", the record is not routed to the hospital, decreasing the data entry burden for hospital personnel.

First Cardiac Arrest Rhythm of Patient and ROSC In	Iformation
29 - First Arrest Rhythm of Patient	Ventricular Fibrillation Idioventricular/PEA Ventricular Tachycardia Unknown Shockable Rhythm Asystole Unknown Unshockable Rhythm
30 - Sustained ROSC (20 consecutive minutes) or present at end of EMS care:	Yes, but pulseless at end of EMS care (or ED arrival) Yes, pulse at end of EMS care (or ED arrival) No
31 - Was hypothermia care provided in the field	_Yes _No
32 - End of Event	Effort ceased due to DNR OPronounced in the Field Pronounced in the ED Ongoing Resuscitation in ED
33 - When did sustained ROSC first occur:	Never After 911 Responder CPR only Unknown After Bystander CPR only After 911 Responder Defib. shock After Bystander defib shock After ALS
34 - Estimated time of arrest 35 - Time of 1st hh : mm : ss	

GENERAL COMMENTS BOX:

At the bottom of the form is a General Comments box for EMS agency users. Please enter any comments or additional information you think CARES staff or hospital contacts should know about the patient or event. Entering comments is also important if you input data that seems contradictory, but is correct (i.e. patient in VFib, but not defibrillated), so that CARES staff will manually override the audit flag.

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ve

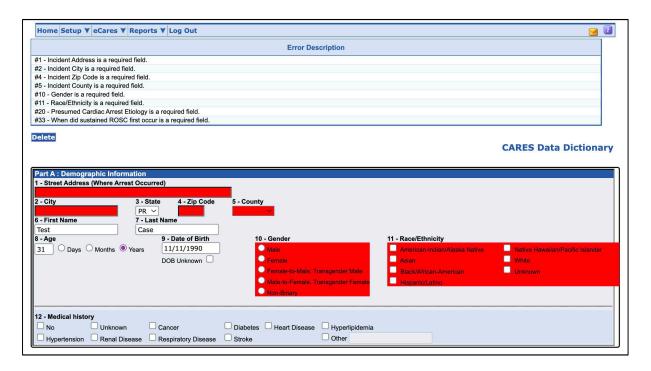


SAVING THE FORM:

When you click "Save", an automated audit algorithm is run on the record, checking for blank fields and potentially conflicting information. The associated audit flags will be listed on the Save page in red. Please click on the "Return to the CARES Form" link and address these audit flags. Do NOT use your browser's Back button to return to the form.

Home Setup Y eCares Y Reports Y Log Out
Please wait while saving Cares data
The form was saved successfully.
Warning messages:
 #4 - Incident Zip Code is a required field when Booklet ID is not entered #16 - Fire/First Responder is a required field - If a first responder was not noted on this event, please indicate the first responder assigned to the territory #18 - Please confirm lay person AED application in a Home/Residence.
Date/Time of processing: 11/03/2017 10:28:56AM
Please <u>Return to the CARES Form</u> immediately and correct the data entry errors listed above. DO NOT use your browser's BACK button.

The fields that require attention are listed at the top of the page and highlighted in red. Click "**Save**" after all edits have been completed.





CONDUCTING A SEARCH:

Home Setup ¥	eCares ¥	Reports ¥	Log Out
	Cares Sea		
mybashb	Cares Adva	anced Search	
myDashbo	Add New		MS

The **CARES Search** page is limited to the required data elements, while the **CARES Advanced Search** page includes the supplemental data elements. You can search by any data element(s) on the CARES form.

The **Filter** pull-down menu in the upper left-hand corner includes the following search filters: Presumed Cardiac CARES Cases, Non-Traumatic CARES Cases, Utstein Arrests, List of Survivors.

lome Setup ▼ eCares ▼ Reports ▼ Log Out									
Cares Search									
Filter: Default	¢			[Add to myReports]	X [Delete this Filter]				
Search									
Service Date:		~ ~	Date of Birth:						
Custom 🗘 From:	Through:	1	All 🗘 From:	Through:	1				
Booklet ID:	Incident Address:		Incident City:	Incident Zip Co	ode:				

By clicking "Save Filter" at the bottom of the page, you can save search criteria to use at another time.

End: <- leave blank for all -> 💌	End: <- leave blank for all -> 💌
Saved Filter Name: Save Filter	
Search	

EXPORTING DATA:

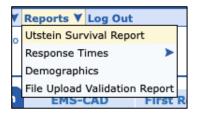
Search results can be exported into Microsoft Excel for further review and analysis. On the search results page, in the upper right-hand corner is a "Send results to" drop down menu. Click the drop-down arrow and select "**Excel export of data**" or "**Excel export of data with optional elements.**" Click the "Go" button. Please be sure your browser's pop-up blocker is turned off or hold down the "Ctrl" key while going through the above steps until the Excel window opens.

Search Results									
[Search Again] Records found: 36 Lick column headers to so	t.			Send results tc ✓ Printable version of the results below Image Viewer Excel export of results below Excel export of data Excel export of data with optional elements			ents	GO	
Incident Number 🔺	Booklet ID	Date of Arrest	Patient		Excel export of CPR N	Metrics Data	-	Metrics	
00132		2014-08-13	1				8		
01321030		2014-09-08	,				8		
10000		2014-09-09	,				8		
1234		2014-08-25	1				8		
1234		2014-08-28	,				8		
		2014-11-04	,				8		
		2014-08-01	,				8		
123456		2014-08-29	1				8		



REPORTS:

CARES users have 24/7 access to a number of reports, which can be found on the **Reports** drop down menu. For additional details, users may access the Reports User Guide at: <u>https://mycares.net/sitepages/data.jsp</u>.



The **Utstein Survival Report** is the most commonly used report. Utstein is an internationally agreed upon cardiac arrest metric that considers all bystander-witnessed arrests that present in a shockable rhythm. To generate this report:

- 1. Enter the **Service Date** range of interest. Reports using recent data are not completely audited and therefore may be incomplete. Data by calendar year is not finalized mid-April of the following year. For example, reports including data from 2021 would not be considered final until April 2022.
- 2. Select the **Data Scope** of interest. "My Data" will generate a report using your EMS Agency's data, while "National Data" will generate a benchmarking report using the national dataset.
- 3. Select the **Etiology** of arrest, Presumed Cardiac or Non-Traumatic.
- 4. Indicate whether you want to include pages that list any **Incomplete Outcomes** (Yes or No).
- 5. Click "Generate Report."

The Utstein Report can also be filtered by local First Responders or Incident Counties using the corresponding pulldown menu or selection box.

Report: Utstein Survival Report		
Filter: Default 📀	🖨 [Add to myReports]	X [Delete this Filter]
First Responder:		
Service Date: Custom S From: Through: 2 7		
Data Scope: • My Data National Data		
*Only data from the previous calendar year is fully audited. Data from the current calendar year is dynamic.		
Presumed Arrest Etiology: Non-Traumatic CARES Cases Presumed Cardiac CARES Cases 		
View Incomplete Outcomes: Ves ONO		
Incident County:		
Aguada Arroyo Salinas		
Format:		
PDF - 8.5 x 11 🗘		
Saved Filter Name:		
PLEASE NOTE: From 2005-2012, CARES collected arrests of presumed cardiac etiology. In 2013, CARES Please select Data Type and Service Date Range accordingly. Generate Report	expanded to include all non-tra	umatic arrests.

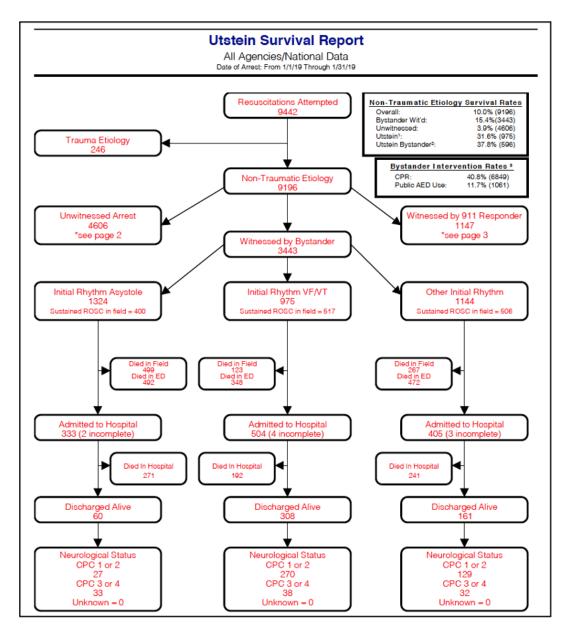


In the upper right-hand corner of the Utstein Report, you will see a box listing a number of survival rates.

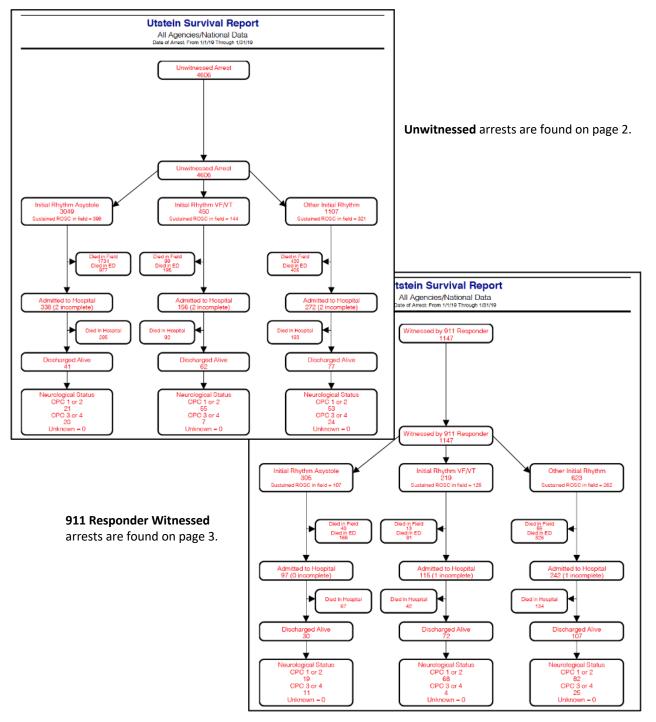
- **Overall**: Includes all CARES cases.
- Bystander Witnessed: Includes all bystander witnessed arrests (those found on page 1 of the report).
- Unwitnessed: Includes all unwitnessed arrests (those found on page 2 of the report).
- Utstein: Witnessed by bystander and found in shockable rhythm.
- **Utstein Bystander**: Witnessed by bystander, found in shockable rhythm, and received some bystander intervention (CPR and/or AED application).

Below, you'll find a box that provides rates of critical **Bystander Interventions**, including CPR and AED use. Bystander CPR rate <u>excludes</u> 911 Responder Witnessed, Nursing Home, and Healthcare Facility arrests. Public AED Use rate <u>excludes</u> 911 Responder Witnessed, Home/Residence, Nursing Home, and Healthcare Facility arrests.

The Utstein Report follows a flow diagram format, categorizing arrests by witness status, initial rhythm, and patient outcome. **Bystander Witnessed** arrests are found on page 1.







Page 4 lists any records that have an outstanding hospital outcome.

Incomplete Data						
Incident #	Service Date	Dest. Hospital	Transfer Hospital	ER Outcome	Hosp Outcome	Neuro Outcome
20144587	2014-12-17	0100 - Test 1	Left Blank	Left Blank	Left Blank	Left Blank
12358er	2014-02-03	0100 - Test 1	Left Blank	Admitted to	Not yet determined	Left Blank
				hospital		



The CARES **Call Times Report** shows the number of runs in a given 30 second response time interval, if your agency enters this supplemental information into CARES. Enter the Service Date range of interest and select the two times you wish to analyze from the Times pull-down menus. Click "Generate Report."

A number of filters can be applied to this report, using the Filter pull-down menu in the upper left-hand corner (Presumed Cardiac CARES Cases, Non-Traumatic CARES Cases, Utstein Arrests) or First Responder pull-down menu.

ilter: Non-Traumatic CARES Cases 📀	🛟 [Add to myReports] 🛛 🗙 [Delete this Filter			
Custom Custom				
irst Responder: All All Presumed Cardiac Arrest Etiology (7 selected): DROWNING/SUBMERSION DRUG OVERDOSE ELECTROCUTION EXSANGUINATION/HEMORRHAGE OTHER PRESUMED CARDIAC ETIOLOGY RESPIRATORY/ASPHYXIA TRAUMA	Resuscitation Attempted by 911 Responder (1 selected): Yes No All	End of the Event (3 selected): DEAD IN FIELD EFFORT CEASED DUE TO DNR ONGOING RESUSCITATION IN ED PRONOUNCED DEAD IN ED		
imes: ormat: PDF - 8.5 x 11 aved Filter Name: Save Filter EASE NOTE: From 2005-2012, CARES collected arrests of presumed cardiac	sticles: Is 2012, CARES supported to			

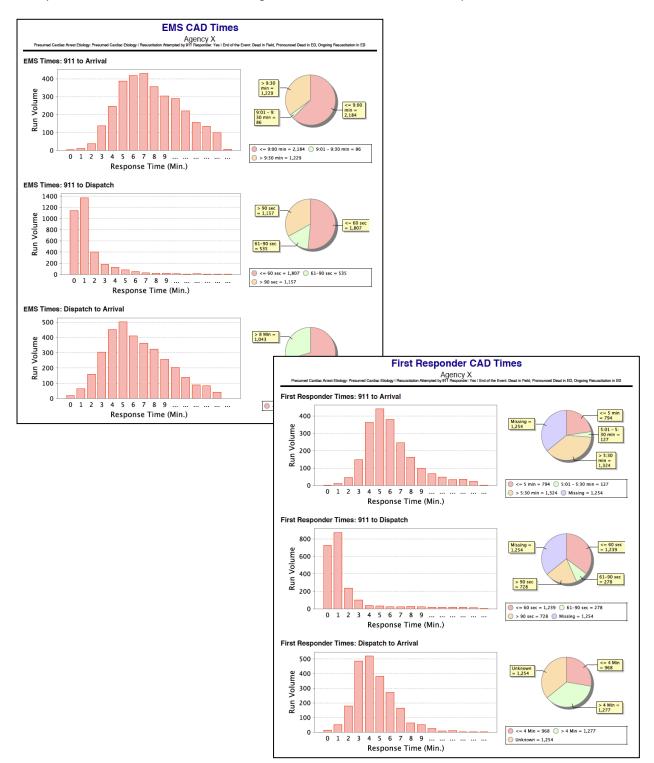
Call Times - Call Received At Dispatch Center: Ambulance Dispatched

Presumed Cardiac Arrest Etiology: Presumed Cardiac Etiology, Respiratory/Asphyxia, Drowning/Submersion, Electrocution, Other, Drug Overdose, Exsanguination/Hemorrhage I Date of Arrest: From 1/1/19 Through 3/31/19 I Resuscitation Attempted by 911 Responder: Yes I End of the Event: Dead in Field, Pronounced Dead in ED, Ongoing Resuscitation in ED

Elapsed Ti	me	# of Runs	% of Runs	# of Runs Cumulative	% of Runs Cumulative
0	Minutes	4036	15%	4036	15%
0.1 - 0.5	Minutes	4412	17%	8448	32%
0.6 - 1	Minute	4490	17%	12938	49%
1.1 - 1.5	Minutes	2560	10%	15498	58%
1.6 - 2	Minutes	2423	9%	17921	67%
2.1 - 2.5	Minutes	1005	4%	18926	71%
2.6 - 3	Minutes	862	3%	19788	74%
3.1 - 3.5	Minutes	330	1%	20118	76%
3.6 - 4	Minutes	340	1%	20458	77%

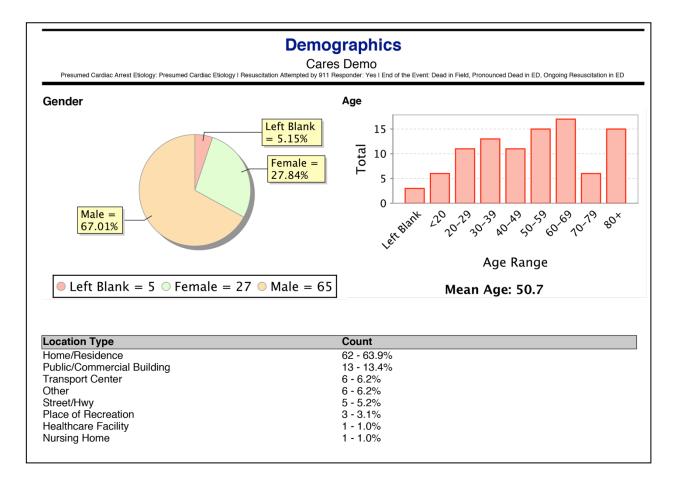


The **EMS** and **First Responder CAD Times Reports** show CAD time intervals in bar graph and pie chart format, if your agency enters this supplemental information into CARES. The Setup page includes 2 Data Scope options: My Data will generate a report with your agency's data, while National Data will generate a benchmarking report using the national CARES dataset. Both report setup pages also include the Filter pull-down menu in the upper left-hand corner, allowing you to filter the report by Presumed Cardiac CARES Cases, Non-Traumatic CARES Case, or Utstein Arrests. The First Responder CAD Times Report can also be filtered by your local First Responders. After selecting the report criteria, enter the Service Date range of interest, and click "Generate Report."





The **Demographics Report** generates the same information as the Demographics Dashboard tab, but allows you to select a Service Date range of interest. A number of filters can be applied to this report, using the Filter pull-down menu in the upper left-hand corner (Presumed Cardiac CARES Cases, Non-Traumatic CARES Cases, Utstein Arrests).

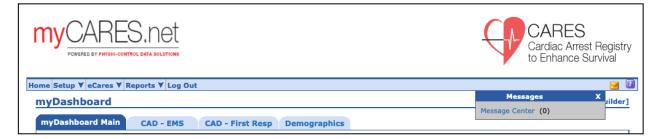




MASS COMMUNICATION:

Occasionally, CARES will send updates to our end users and stakeholders. These messages may include information about software upgrades and changes, training and education opportunities, or data entry deadlines. You will receive these messages via e-mail, and they will also be accessible in your CARES Message Center upon log-in.

Once you enter the site, a blinking, yellow envelope will indicate a new message in your inbox. You may access your Message Center at the top right-hand corner of the page.



High Priority messages will require your acknowledgment before navigating away from the page by checking the box and choosing "Save and Close."

0	From: KimberlyVellano
:	Sent: 09/30/2019 22:54
Ī	High Priority
1	Subject: New CARES Software Update
	Please view the attached document to learn about new CARES software updates. Thanks!

You will be able to save any attachments that are included in the message for future reference by accessing your Message Center inbox and clicking on the paper clip icon under the "Attachments" column.

e Center							
Welcome to the Message Center.	Valid bull	etins, which have	not expired, are dis	played b	elow. Click on the 🥯 to view a	ny attachments	
Search: Advanced]							
Folders	Туре	Created ¥	From	Status	Subject	Attachments	Delete
Inbox	Bulletin	09/30/19 22:54	Vellano, Kimberly	Read	New CARES Software Update	0	