



North Coast EMS Agency

Agreement #C21-009

2nd Quarter Task Report October 1 - December 31, 2021

Below each bulleted item, include a summary of the activities that have taken place during the quarter related to the individual tasks.

Component 1 - System Organization and Management

Objective - To develop and maintain an effective management system to meet the emergency medical needs and expectations of the total population served.

Tasks: The responsibilities of the EMS agency, at a minimum, include:

- Staff development, training, and management

North Coast EMS personnel virtually participated in the following state EMS activities: EMSAAC Leadership. EMSAAC Open Session. EMSAAC Joint, EMSAAC Closed Session, EMSAAC/EMDAC Legislative, EMSA/LEMSA, EMSA/Regions, EMSA/EMDAC, EMSC Technical Committee, EMSA Trauma Regulation Workgroup, CDPH HPP Disaster, MHOAC, Regional EMS, North-Regional RTCC, Trauma Summit - Re-triage and ED Perspective presentations (Larry Karsteadt and Dr. Matt Karp); and, in the following local EMS meetings and other activities: JPA, Humboldt/Del Norte Medical Advisory Committee (MAC), Lake County Emergency Medical Care Committee (EMCC), Lake County Inter-facility Transfer, Lake County Priority 1, Lake HPP, EOA Contract (Humboldt), EOA (Del Norte), COVID Behavioral Health, Del Norte County COVID, DNA EOA request: Supervisor Darrin Short, Supervisor Gerry Hemmingen, CAO Neal Lopez, County Counsel Joel Campbell, Chief Gillespie, Humboldt- Del Norte Redwood Coalition, Lake County HPP and OES, Behavioral Health Covid, OES Partners, HPP Team, Policy Review Committee, Staff and Contractor Communications (Medical Director, Regional EMS Coordinator, Fiscal Manager, Trauma, STEMI/Stroke, Behavioral Health, IT, EMSC, HPP Liaison), Adventist-Health Trauma, Dr. Hoang at SJH, Humboldt County Child Death Review Team, Redwood "Diversion", Humboldt County Child Passenger Safety Committee, IT, Humboldt, Del Norte and Lake County Fire Chiefs Association and other meetings. Specific to the ongoing CDPH HPP Disaster grant, we completed the FY 21-22 Capabilities Survey (started in Q2). Submitted the APOT Report and sent it to the region; initiated CARES data collection process; added Ketamine and TXA to the paramedic scope; continued the process to add IFT antibiotics and other procedures to the paramedic scope of practice; participated in the OPIOID LAN and Rx Safe programs; continued to participate in an SV patient transportation policy discussion; initiated update CQI and IFT policies; conducted a Humboldt STEMI/Stroke meeting; received follow-up trauma center designation survey follow-up responses from Sutter-Lakeside and Mad River



Community Hospitals. Implement annual ImageTrend Base/Access Fee for all providers.

- Allocating and maintaining office space, office equipment, and office supplies

North Coast EMS routinely maintains office space, equipment and supplies.

- Executing and maintaining contracts with member counties, service providers, consultants, and contractual staff

We executed or continued administrative contracts with: EMSA General Fund, JPA member counties, the HPP disaster medical grant with CDPH, Dr. Karp as Regional Medical Director, Rita Henderson as EDAP and Trauma Nurse Contractor, ePCR IT programmer Jay Myhre, Ezequiel Sandoval - Office IT, Moss Levy and Hartzhiems - Fiscal Audit, Stayce Curry - Behavioral Health/5150 contractor, Dennis Louy, Patrick Lynch and Kimberly Baldwin as County HPP Liaisons for Del Norte Humboldt and Lake County respectively, Selinda Shontz – STEMI and Stroke, Pam Mather - EOAs and CQI, ICEMA – Image Trend management; and Coastal Valley's EMS re: C.A.R.E.S. All contractors are part-time, independent, may engage in other contracts and provide expert services otherwise not available to North Coast EMS staff. North Coast EMS continued to receive from, and distribute by request, Pediatric Maddy Funds in all three counties. We continued contracts with seven designated Paramedic Base and Receiving Hospitals, 14 Paramedic Service Providers, numerous First Responder agencies, three Emergency Medical Dispatch Centers, seven EDAPs, four Trauma Centers and one STEMI Receiving Center.

- Attending or participating in a minimum of 3 EMSA/LEMSA meetings annually (following advance notice and reasonable justification provided by the LEMSA, EMSA will make a determination on the flexibility of the attendance requirement on a case-by-case basis, and in the event the quarterly EMSA/LEMSA meeting is canceled, attendance at the meeting will not be counted for/against the LEMSA)

This quarter North Coast EMS attended the state level meetings listed above. This quarter, we have participated in all EMSA/LEMSA associated meetings.

Component 2 - Staffing and Training

Objective - To ensure LEMSA authorized personnel functioning within the EMS system are properly trained, licensed/certified/authorized and/or accredited to safely provide medical care to the public.

Tasks: The responsibilities of the EMS agency, at a minimum, include:

- Ongoing assessment of local training program needs

North Coast EMS has numerous mechanisms for determining training program needs, including: meetings where EMS system and training needs are or can be discussed; staff attendance at state and federal meetings where state and national standards and best practices may be reviewed; communications with regional EMS instructors; review of quarterly QIP reports from base hospitals and providers as staff time allows; input from stateholders, etc. This quarter we continued to work on adding additional



scope as needed. Contractor Curry continued to take the lead on development or distribution of tools to support the management of 5150 patients especially during the pandemic.

- Authorizing and approving training programs and curriculum for all certification levels

North Coast EMS has numerous approved training programs that have been verified to meet or exceed state minimum standards, including curriculum and instructor requirements. These programs include: Public Safety, First Responder, EMT-I, Paramedic, MICN, continuing education, etc.

- Providing training programs and classes as needed

We continue the process to approve Public Safety First Aid and coordinating First Responder courses as needed for the three counties. North Coast EMS continued Power Point courses focused on the LOSOP.

- Providing ongoing certification/authorization/accreditation or personnel approval of local scope of practice for all certification levels

North Coast EMS issues numerous EMT-I certifications, paramedic accreditations and MICN authorizations annually. We have policies specific to BLS and ALS scope of practice and numerous continuously updated protocols and policies specific to the EMT-I and EMT-P scope of practice. We continued to work closely with Public Health and other EMS partners to ensure ongoing assistance with COVID related policies.

- Developing and maintaining treatment protocols for all certification levels

North Coast EMS has numerous policies specific to the BLS and ALS scope of practice and continuously updates protocols and policies specific to the EMT-I and EMT-P scope of practice. We continued to update, add and modify policies and protocols this quarter in concert with the Policy Review Committee.

- Maintaining communication link with Quality Improvement program to assess performance of field personnel

North Coast EMS has extensive QI policies and the updated QIP Plan was approved by the EMSA. We previously approved all base hospital and ALS Providers QIP Plans and require all approved ALS providers and designated base hospitals to submit quarterly QIP reports summarizing activities in each of the QIP regulation required categories. We also select a focused review topic each quarter as staff time allows.

- Conducting investigations and taking action against certification when indicated

North Coast EMS did not take any actions against a certificate holder but participated in a few case reviews this quarter.

- Authorizing, maintaining, and evaluating EMS continuing education programs

North Coast EMS has approximately 33 approved CEU providers and policies are in place to authorize new and review existing providers if needed.



Component 3 - Communications

Objective - To develop and maintain an effective communications system that meets the needs of the EMS system.

Tasks: The responsibilities of the EMS agency, at a minimum, include:

- **On-going assessment of communications status and needs**

North Coast EMS previously approved, jointly with Napa County, the Emergency Medical Dispatch program at CALFIRE ECC in St. Helena, which is the 9-1-1 dispatch center for Lake County. We also previously approved the air medical dispatch plan for Lake County to utilize a single dispatch frequency by REACH Flight Guard upon activation by the St. Helena ECC. The CALFIRE ECC in Fortuna is approved as the Del Norte and Humboldt air medical dispatch center.

- **Assuring appropriate maintenance of EMS related communications systems**

We plan to continue to work with each county, hospital and provider to help ensure future Med Net and/or field to hospital Communication Systems integrity. We also participated in ongoing communications to help improve 12-lead ECG transmission to the STEMI Receiving Center in Humboldt County.

- **Approving ambulance dispatch centers**

All three counties have centralized and North Coast EMS approved dispatch centers for ambulances. City Ambulance of Eureka is the primary ground ambulance dispatch center in Humboldt County, although Hoopa {K'ima:w} Ambulance may occasionally be dispatched through a separate process. The Del Norte County Sheriffs Dispatch Center is responsible for ground ambulance dispatch in Del Norte County. Lake County utilizes the CALFIRE ECC in Napa County for ambulance dispatch. CALFIRE ECC in Fortuna and CALFIRE ECC in Napa County are the North Coast EMS approved aero medical dispatch centers in Del Norte/Humboldt and Lake respectfully.

- **Providing acceptable procedures and communications for the purpose of dispatch and on-line medical control**

Communications procedures and medical control policies have been in place for decades and are updated as needed. As the EMD oversight body, we are available to QI any and all EMD related issues. In Humboldt, we participated in discussions about centralized medical control during MCI events.

- **Approving emergency medical dispatch (EMD) training and/or operational programs**

North Coast EMS continues to approve the national EMD training programs at the Eureka Police Department, the CALFIRE ECC in Fortuna and the CALFIRE St Helena ECC (jointly with Napa County EMS).

Component 4 - Response and Transportation



Objective - To develop and maintain an effective EMS response and ambulance transportation system that meets the needs of the population served.

Tasks: The responsibilities of the EMS agency, at a minimum, include:

- Designating EMS responders including first responders, Limited Advanced Life Support (LALS)/Advanced Life Support (ALS) providers, ambulance providers, and Prehospital EMS Aircraft providers

North Coast EMS designates First Responder training programs (see 2.1 above). The Humboldt and Lake County County Board of Supervisors adopted ambulance ordinances that allow Public Health to issue permits or contracts with ambulance providers. All ambulance providers, four non-transporting providers and one air medical provider are North Coast EMS approved ALS Providers. North Coast EMS has policies and ongoing MOUs specific to in- and out-of-area EMS helicopters.

- Monitoring local ordinances related to EMS

Humboldt and Lake County ambulance ordinances are approved by the respective Boards of Supervisors and enforcement is the responsibility of the Public Health Departments with the assistance of North Coast EMS as needed. Lake County is interested in revising their ordinance. The North Coast EMS participated in all previous ordinance updates as is required by statute.

- Establishing policies and procedures to the system for the transportation of patients to trauma centers and/or specialty care hospitals as needed

North Coast EMS has established and periodically updates policies and procedures for the transportation of patients to trauma and other specialty centers. North Coast EMS currently has four designated trauma centers, one in Del Norte County that receives all injured patients, two in Humboldt County with triage and destination criteria, and one in Lake County with triage criteria identical to Coastal Valley's EMS. We also have a STEMI destination policy that sends all Humboldt County STEMI patients directly to the designated STEMI Receiving Center in Eureka. Substantive policy changes are reviewed through our Policy Review Committee process prior to adoption.

- Implementing and maintaining contracts with providers

All North Coast EMS authorized ALS Providers have executed contracts.

- Creating exclusive operating areas

EOA contractor Pam Mather and North Coast EMS continued to work with CAE and AMRA and finalized contracts with CAE and AMRA to roll out the EOA grandfathering process pursuant to EMSA approval of the Humboldt County Transportation Plan effective 1/1/2022. We continued to the Del Norte Ambulance EOA grandfathering request and determined that they are eligible for grandfathering.

- Inspecting ambulance or LALS/ALS providers



North Coast EMS conducts or delegates ambulance inspections to Base Hospital Prehospital Care Nurse Coordinator (PCNC)s for new ALS providers or for cause. No inspections have needed to be conducted this quarter.

- Developing and enforcing performance standards as needed

See above. We have developed ambulance performance standards associated with the Humboldt County Transportation Plan as part of the EOA grandfathering process. Response time monitoring will begin with a plan to implement fines if needed after an evaluation period. The same process used in Humboldt County will be used for Del Norte Ambulance.

Component 5 - Facilities and Critical Care

Objective - To establish and/or identify appropriate facilities to provide for the standards and care required by a dynamic EMS patient care delivery system.

Tasks: The responsibilities of the EMS agency, at a minimum, include:

- Designating base hospital(s) or alternate base stations for on-line medical control and direction

All seven base hospitals are designated by contract as Paramedic Base and Receiving Centers, six as "Modified Base Hospitals" that are no longer required to utilize MICNs. We need additional staff time to adequately monitor base hospitals.

- Identifying ambulance receiving centers including hospitals and alternative receiving facilities in rural areas

All seven hospitals are designated Paramedic Receiving Centers; another is a state designated mental health receiving facility. We have two alternate receiving centers at two Standby Hospitals (St Helena Clearlake and Jerold Phelps), both of which were approved by the EMSA and North Coast EMS as Alternative Paramedic Receiving Hospitals years ago.

- Identifying and designating, as needed, trauma centers and other specialty care facilities

Please see the EMSA approved Trauma Plan Annual Update. Three Basic Level IV trauma centers and one Level III trauma center are designated within the three county region. Follow-up responses from Sutter-Lakeside and MRCH were received this quarter and are under review. Trauma Registry data transmission from all four trauma centers to the state repository continues and North Coast EMS works with each trauma center to ensure uniform and timely data transmission pursuant to state and ACS standards.

North Coast EMS designated SJH as a STEMI Receiving Center, activated the Humboldt County STEMI system on 3/3/16 and we continue to oversee this program. A Humboldt County STEMI/Stroke Committee meeting was convened this quarter and



CARES data requests were sent out. We also received STEMI data from SJH and are planning to planning to provide more frequent APOT Reports at their request.

All seven hospitals are Emergency Departments Approved for Pediatric (EDAP) designated. Site survey follow-up reports were sent out and EDAP designation continues at all five hospitals.

- Periodically assessing trauma system and plan as needed

See the EMSA approved Annual Trauma Plan Update.

- Coordinating trauma patients to appropriate trauma center(s) or approved receiving hospitals

For Lake County, North Coast EMS has an approved Trauma Triage Policy that integrates with Coastal Valley's EMS policy and is very similar to the national standard. Patients meeting Trauma Triage Criteria are directly transported to our designated trauma centers, or in Lake County, by air to the closest higher level TC located out of county. Sutter-Coast Hospital in Del Norte County receives all trauma patients due to geography. In Humboldt County, higher level patients meeting critical trauma patient criteria are now triaged and bypass the Level IV trauma center in Arcata to the Level III in Eureka.

- Periodically assessing hospitals (e.g., pediatric critical care centers, emergency departments approved for pediatrics, other specialty care centers)

North Coast EMS continued to receive and distribute by request, Pediatric Maddy "Richie's" funding to our designated EDAPs upon request and review.

North Coast EMS continues to encourage best prehospital and hospital stroke patient management practices.

North Coast EMS formally designated SJH as a STEMI Receiving Center in 2016 and continues to conduct HCCC (now STEMI/Stroke) meetings and monitor and enhance the STEMI system. A meeting was convened this quarter.

The 5150 Handbook is periodically updated and available on our web site – northcoastems.com. Behavioral Health contractor Stacey Curry continues to work on development of uniform medical screening criteria for Behavioral Health patients, standardize timelines for a 5150 hold, 5150 online training programs and we continue to support county Behavioral Health grants and Crisis Response Teams etc in each county. As mentioned above, Stayce continues to provide critical local coordination of Behavioral Health/EMS serves relative to COVID-19.

- Completing hospital closure impact reports

None were requested or completed this quarter.

Component 6 - Data Collection and System Evaluation



Objective - To provide for appropriate system evaluation through the use of quality data collection and other methods to improve system performance and evaluation.

Tasks: The responsibilities of the EMS agency, at a minimum, include:

- Reviewing reportable incidents

North Coast EMS reviews all discovered or received reportable incidents. During this quarter we took no formal action but reviewed a few cases.

- Reviewing prehospital care reports including Automated External Defibrillators (AED) reports

These reports were discontinued by EMSA years ago.

- Processing and investigating quality assurance/improvement incident reports

North Coast EMS oversees an extensive Quality Improvement Program and utilizes our EMSA approved Regional QIP Plan. QIP Plans have been approved by North Coast EMS for all Base Hospitals and ALS Providers, who also submit quarterly QIP updates upon request. This quarter, we continued to coordinate a process to review, consolidate and update CQI Policies and initiated process to update the CQI Annual Plan.

- Monitoring and reporting on EMS System Core Measures by March 31st each year, and acknowledging completion of the monitoring and reporting as of March 31st each year

North Coast EMS submitted the state requested Core Measures Report and APOT data. Our APOT averages fortunately continue to be relatively low.

- Providing data to CEMSIS monthly

See above. ImageTrend data goes directly to ICEMA upon completion of each e-PCR by EMTs and paramedics. Several other vendors e-PCR programs have been approved for use and data continues to be submitted to ICEMA by each ALS Provider. The North Coast EMS JPA Governing Board previously approved an ImageTrend Base/Access Fee for all providers to cover our ICEMA ImageTrend access costs.

- Implementing Health and Safety Code Section 1797.227, including providing data using the current versions of NEMESIS and CEMSIS standards from Electronic Health Records (EHR)

All ALS Providers utilize NEMESIS and CEMSIS compliant EHR programs.

- Engaging healthcare partners and Health Information Organizations in your jurisdiction in discussions and planning efforts to integrate EMS into developing health information exchange networks according to the models being developed under the ONC grant

The EMS super-utilizers study being conducted in Lake County was completed.

Component 7 - Public Information and Education



Objective - To provide programs to establish an awareness of the EMS system, how to access and use the system and provide programs to train members of the public in first-aid and CPR.

Tasks: The responsibilities of the EMS agency, at a minimum, include:

- Information and/or access to CPR and first-aid courses taught within the EMS system

North Coast EMS has approved several Public Safety First Aid training programs that include CPR and first aid training.

- Involvement in public service announcements involving prevention or EMS related issues

North Coast EMS staff members participated in local injury and illness prevention and children's safety programs, although activities have been limited this quarter due to Covid restrictions. We also assessed and promoted trauma center involvement in injury prevention programs during and since the last site surveys.

- Availability of information to assist the population in catastrophic events, as appropriate

North Coast EMS participates in the HPP disaster grant program and is involved with COVID and medical disaster planning. Each county has PSAs and other means of providing information to the public during catastrophic events.

- Participating in public speaking events and representing the EMS agency during news events and incidents

Executive Director Karsteadt and Medical Director Karp presented at the October 6 Trauma Summit: Re-Triage LEMSA and ED Physician perspectives.

- Seeking opportunities to collaborate with key partners, including local public health and other community organizations, to promote healthcare and injury prevention activities

North Coast EMS continues to seek opportunities to collaborate with key EMS and Public Health partners to promote healthcare, HPP and injury prevention activities.

Component 8 - Disaster Medical Response

Objective - To collaborate with the Office of Emergency Services, Public Health and EMS responders in the preparedness and response of the region's EMS systems in the event of a disaster or catastrophic event within the regions or a neighboring jurisdiction.

Tasks: The responsibilities of the EMS agency, at a minimum, include:

- Participating in disaster planning and drills as needed

North Coast participated in numerous HPP COVID and disaster related activities, including planning and coordination with each region and county. We are planning to re-initiate a process to review and expand the Regional MCI Plan and will update



related policies and protocols as needed. HPP required redundant radio drills were conducted or real time tested this year and each county has plans to do so this year with the help of the North Coast EMS Disaster Liaisons. We also completed the one-year CDPH HPP COVID grant last quarter.

- **Identifying disaster preparedness needs**

As part of our HPP disaster planning activities we continue to evaluate existing North Coast EMS and regional disaster preparedness needs with our HPP and Public Health partners. This includes review of numerous documents, attending meetings and working collaboratively with each JPA member county and the State. Through the North Coast EMS County Liaison contractors, North Coast EMS worked with our Public Health Departments to achieve the HPP Disaster grant deliverables and define supporting activities associated with the FY 21-22 HPP work plan. We completed the Year-End HPP Report last quarter and the 2021-22 Capabilities Survey this quarter.

- **Coordinating the operational area disaster medical/health coordinator**

North Coast EMS staff and HPP contractors coordinated with the MHOAC in each county, attended meetings, participated in local, state and Regional Medical Disaster meetings and events and participated or coordinated numerous state, regional and county COVID and non-COVID HPP related activities designed to support and assist each MHOAC.

- **Coordinating the regional disaster medical/health coordinator system**

See above.

- **Developing policies and procedures for EMS personnel in response to a multi-casualty or disaster incident**

North Coast EMS has MCI and disaster related plan and policies and updates these as needed. We are in the process of updating the North Coast Regional EMS MCI Plan and related policies, if needed, although this was delayed by other priorities including the ongoing pandemic.

- **Facilitating mutual aid agreements**

North Coast EMS has facilitated development of mutual aid agreements and all ambulance providers have mutual aid arrangements with surrounding providers. North Coast EMS has no existing barriers to cross-jurisdictional utilization of paramedics provided state standards are followed. We also continue to participate in IFT discussions in Lake County that could involve mutual aid.

- **Collaborating with all EMS personnel on training of incident command and Standardized Emergency Management System (SEMS)**

North Coast EMS supports ongoing ICS and SEMS training. Local training programs are conducted periodically and each approved Public Safety, First Responder, EMT-I and paramedic training program includes these topics.