Memorandum

Date: January 25, 2023

To: Southern Nevada District Board of Health

From: **Michael Johnson, PhD,** *Director of Community Health* M.A. on behalf of MJ.
               Cassius Lockett, PhD, *Deputy District Health Officer-Operations*
               Fermin Leguen, MD, MPH, *District Health Officer* FL

Subject: Community Health Division Monthly Activity Report – November 2023

I.   OFFICE OF CHRONIC DISEASE PREVENTION & HEALTH PROMOTION (OCDPHP)

A.   Chronic Disease Prevention Program (CDPP)

CDPP is providing support to CCSD Health Services to support BMI data collection in all CCSD schools. CDPP provided funding to purchase laptops, stadiometers, scales, and privacy screens as well as wagons to transport equipment used by BMI collection teams. All equipment has been ordered and delivered to regional school hubs for use by BMI collection teams. This will facilitate the ease of collecting the data as there is more equipment available and equipment can be accessed from regional hubs. CCSD has notified all schools of the dates that BMI data will be collected. Parent/guardian tear away letters have also been ordered and will be used during BMI screenings.

This team is working with Informatics and Epi to create chronic-disease topic-specific dashboards on the Healthy Southern Nevada website. The dashboard was updated in October 2023, but work is ongoing to add race/ethnicity data.

Our staff provided a presentation to six (6) healthcare professionals including a Health Educator, RD, and CHWs. The presentation provided an overview of the OCDPHP resources and programs available for use by healthcare professionals. A jump drive with healthcare provider toolkits for blood pressure, obesity, stroke, and diabetes was also provided.

We provided support for CCSD Safe Routes to School to promote safe walking and biking to school. During October, twenty-three (23) CCSD schools and approximately 4.000 students participated in Walk to School Day activities. In addition, Safe Routes to Schools presentations

were provided at 20 schools and 26 schools received additional safety equipment including stop signs and vests.

Part One (1) of the Diabetes Self-Management, Education & Support (DSMES) class was held at the Heinrich YMCA, 21 people attended the class. Part two (2) of the class will be scheduled for November or early December. CDPP provided funding to support three (3) SNHD Health Equity Health Educators become trained as Diabetes Maps (DSMES) class facilitators. CDPP will be working with the Health Equity team to expand DSMES services in Clark County.

Diabetes staff were voted to the Kidney Disease Advisory Committee of the Advisory Council on the State Program for Wellness and the Prevention of Chronic Disease (CWCD). The first meeting of the Kidney Disease Advisory Council will be in January 2024.

B. Tobacco Control Program (TCP)

The SNHD Tobacco Control Program's (TCP) teen vaping prevention initiative, Breakdown, partnered with 41 local high school sports teams to promote vape-free lifestyles throughout the fall sports season. Staff provided educational training to promote vape-free lifestyles to 1,687 teens from August through October 2023. Additionally, information was shared through social media tailored to the Nevada Interscholastic Activities Association. Key youth identified in local high schools throughout Southern Nevada continued to share vaping prevention messaging on their social media accounts.

Staff developed new Spanish-language tobacco cessation materials designed for health care settings. Health care providers can now order free cessation materials to promote tobacco-free lifestyles to their Spanish-speaking patients at no cost via the TCP's online store.

TCP's LGBTQIA+ Initiative, CRUSH, partnered with Las Vegas PRIDE to make the 2023 Las Vegas Pride Festival smoke and vape-free. This event was held on October 7th at Craig Ranch Park. Tobacco-free signage was placed throughout the event.

Our staff attended the annual Nevada Tobacco Control and Smoke-free Coalition strategic planning meeting on October 24th and October 25th in Reno, Nevada to support tobacco prevention efforts throughout the State.

II.   OFFICE OF EMERGENCY MEDICAL SERVICES & TRAUMA SYSTEM (OEMSTS)

A. Drug /Device/Protocol Committee (DDP)
The DDP Committee assists the OEMSTS, the Medical Advisory Board (MAB), and the QI Directors Committee in researching, developing, and editing new and existing protocols. Members include volunteer representatives from permitted agencies, receiving hospitals, and individuals involved with the training of EMS professionals. The DDP continued working on proposed revisions to the Clark County EMS Emergency Medical Care Protocols.

B. OEMSTS – November 2022 / 2023 Data

November EMS Statistics	November 2022	November 2023	
Total certificates issued	88	70	↓
New licenses issued	82	61	↓
Renewal licenses issued (recert only)	0	0	=
Driver Only	36	30	↓
Active Certifications: EMT	942	808	↓
Active Certifications: Advanced EMT	1,860	1,630	↓
Active Certifications: Paramedic	2,028	1,854	↓
Active Certifications: RN	62	64	↑

III. OFFICE OF PUBLIC HEALTH PREPAREDNESS (OPHP)

A. Overview

1. OPHP Staff participated in the Clark County Multi-Agency Coordination Center during the Las Vegas Grand Prix.
2. OPHP received the signed subawards from the state for the 2024 Hospital Preparedness Program (HPP), Cities Readiness Initiative (CRI), and HPP Carryover from the 2021-2022 grant year.
3. SNHD staff continued to work with Clark County and a software developer on an Impacted Persons Database. A demonstration of the database was held on November 13th.

4. Planning and Preparedness

1. Persistence to draft the Shelter Support Annex and Administrative Preparedness Annex.
2. Planners continue to review and revise the Excessive Heat, CHEMPACK, Nuclear and Radiation, Administrative Preparedness, and Mass Care Support plans.
3. The Excessive Heat Plan was submitted to leadership for review.
4. Submitted the Invasive Aedes Response Annex for review to leadership.
5. Thirty-two SNHD employees were fit tested for personal protective equipment.

5. Training, Exercises and Public Health Workforce Development:

1. Planning for the Pediatric Surge Capacity Tabletop.
2. Our planner continues planning for the Medical Response Surge Exercise.

3. OPHP Trainers continue to develop Position Specific Task Books and related training curricula, revised PHP New Hire Orientation & Annual ICS/Planning P/Forms training and perpetual updates to POD training for October FSE.
4. OPHP Planners have provided POD Training to the City of Las Vegas and the City of North Las Vegas.
5. SNHD staff attended the National Healthcare Coalition Preparedness Conference at the Paris Hotel and Casino November 28th – 30th.
6. OPHP PHEP Trainer attended Advanced Incident Command Training at the Texas A & M Engineering Extension Service in College Station, TX November 6th – 10th.

C. **Southern Nevada Healthcare Preparedness Coalition (SNHPC)**

1. The SNHPC meeting was held on November 2nd.
2. The SNHPC Clinical Advisor and Readiness and Response Coordinator completed review of two (2) hospital emergency operations plans.
3. Our SNHPC Clinical Advisor provided support to ongoing planning for Formula 1 and Superbowl 2024 response.
4. The SNHPC Sub-committee established for HVA 2024 update, meetings scheduled for November.
5. SNHPC Clinical Advisor and OPHP Planner reviewed and revised Pediatric Surge Annex.
6. Reviewed HVA on November 14th.
7. SNHPC Clinical Advisor and OPHP Planner continued planning for March 2024 Pediatric Surge tabletop and medical response surge exercise.
8. OPHP Planner attended National Healthcare Coalition Preparedness Conference 2023.
9. The SNHPC Clinical Advisor attended Advanced Incident Command Training at the Texas A & M Engineering Extension Service in College Station, TX November 6th – 10th.
10. SNHPC Clinical Advisor served as the Medical Surge Support Team manager during the Clark County Multi-Agency Coordination Center (MACC) activation for the Formula 1/Las Vegas Grand Prix race weekend, November 16th – 18th.
11. Clinical Advisor attended the National Healthcare Coalition Preparedness Conference at the Paris Hotel in Las Vegas, NV, November 28th – 30th.

D. **Fusion Center Public Health Analyst:**

1. Collaborated in Formula 1 planning and during the event worked alongside Counter Terrorism Analytic Group (CTAG), Department of Homeland Security (DHS), and Federal Bureau of Investigation (FBI) analysts.
2. Participated in review of Impacted Person Database and apprised Southern Nevada Counter Terrorism Center (SNCTC) analysts on its use following a mass-casualty incident.

E. **Grants and Administration:**

1. Our OPHP team received the signed subgrant awards for budget period 5 for the Public Health Emergency Preparedness Program, the Cities Readiness Initiative, and the Hospital Preparedness Program grants from the state.

F.   **Medical Reserve Corps (MRC) of Southern Nevada:**

1. One (1) MRC Volunteer supported the community at Project Homeless Connect November 21st, providing first aid and distributing health information.
2. The MRC Coordinator planned training and activities for upcoming months, sent out newsletters, and continues to recruit and deactivate volunteers.
3. Our MRC Coordinator attended monthly NACCHO MRC and PPAG Workgroup meetings, as well as SNHPC.

MRC Volunteer Hours FY2024 Q2

(Economic impact rates updated August 2023):

Activity	October	November	December
Preparedness Exercise	81	0	
Community Event/BP	0	21	
SNHD Clinic	4.5	0	
Total Hours	**85.5**	**21**	
Economic impact	**$2,718.90**	**$667.80**	

IV.   **VITAL RECORDS**

A.   November 2023 is currently showing a 1.6% decrease in birth certificate sales in comparison to November 2022. Death certificate sales currently showing an 3.5% decrease in comparison to November 2022. SNHD received revenues of $32,071 for birth registrations, $22,139 for death registrations; and an additional $7,522 in miscellaneous fees.

COMMUNITY HEALTH Vital Statistics Program Birth/Deaths Registered – Fiscal Year Data						
Vital Statistics Services	**Nov 2022**	**Nov 2023**		**FY 22-23 (Nov)**	**FY 23-24 (Nov)**	
Births Registered	2,221	2,556	↓	10,624	9,467	↓
Deaths Registered	1,788	1,625	↓	8,434	7,539	↓
Fetal Deaths Registered	13	16	↑	80	81	↑

COMMUNITY HEALTH Vital Statistics Program Birth/Deaths Certificates – Fiscal Year Data

Vital Statistics Services	Nov 2022	Nov 2023		FY 22-23 (Nov)	FY 23-24 (Nov)	
Birth Certificates Sold (walk-in)	58	91	↑	239	281	↑
Birth Certificates Mail	85	115	↑	560	666	↑
Birth Certificates Online Orders	3,417	3,237	↓	18,496	18,318	↓
Birth Certificates Billed	83	141	↑	534	561	↑
Birth Certificates Number of Total Sales	3,643	3,584	↓	19,829	19,826	↓
Death Certificates Sold (walk-in)	25	61	↑	73	141	↑
Death Certificates Mail	184	131	↓	797	814	↑
Death Certificates Online Orders	7,874	7,602	↓	38,918	35,870	↓
Death Certificates Billed	24	27	↑	165	169	↑
Death Certificates Number of Total Sales	8,107	7,821	↓	39,953	36,994	↓

COMMUNITY HEALTH Vital Statistics Program Birth/Deaths Cert. Sales by Source – Fiscal Year Data

Vital Statistics Sales by Source	Nov 2022	Nov 2023		FY 22-23 (Nov)	FY 23-24 (Nov)	
Birth Certificates Sold Valley View (walk-in)	1.6%	2.5%	↑	1.2%	1.4%	↑
Birth Certificates Mail	2.3%	3.2%	↑	2.8%	3.4%	↑
Birth Certificates Online Orders	93.8%	90.3%	↓	93.3%	92.4%	↓
Birth Certificates Billed	2.3%	3.9%	↑	2.7%	2.8%	↑
Death Certificates Sold Valley View (walk-in)	.3%	.8%	↑	.2%	.4%	↑
Death Certificates Mail	2.3%	1.7%	↓	2%	2.2%	↑
Death Certificates Online Orders	97.1%	97.2%	↑	97.4%	97%	↓
Death Certificates Billed	.3%	.3%		.4%	.5%	↑

COMMUNITY HEALTH Vital Statistics Program Birth/Deaths Certificates Sales – Fiscal Year Data

Revenue	Nov 2022	Nov 2023		FY 22-23 (Nov)	FY 23-24 (Nov)	
Birth Certificates ($25)	$91,075	$89,600	↓	$495,725	$495,650	↓
Death Certificates ($25)	$202,675	$195,525	↓	$998,825	$924,850	↓
Births Registrations ($13)	$33,982	$32,071	↓	$184,184	$169,728	↓
Deaths Registrations ($13)	$22,230	$22,139	↓	$112,554	$106,197	↓
Convenience Fee ($2)	$7,330	$6,696	↓	$39,654	$37,100	↓
Miscellaneous Admin	$648	$826	↓	$2,925	$3,030	↑
Total Vital Records Revenue	$357,940	$346,857	↓	$1,833,867	$1,736,555	↓

COMMUNITY HEALTH Passport Program – Fiscal Year Data

B. **PASSPORT SERVICES –** Passport Services is appointment only. Passport photos remain suspended.

Applications	Nov 2022	Nov 2023		FY 22-23 (Nov)	FY 23-24 (Nov)	
Passport Applications	681	506	↓	3,670	3,152	↓

Revenue	Nov 2022	Nov 2023		FY 22-23 (Nov)	FY 23-24 (Nov)	
Passport Execution/Acceptance fee ($35)	$23,835	$17,710	↓	$128,450	$110,320	↓

V.   HEALTH EQUITY

A. The Health Equity program received a No Cost Extension from the Center for Disease Control to build, leverage, and expand infrastructure support for COVD prevention and control among populations that are at higher risk and underserved.

1. The program continues to collaborate with SNHD programs and grant subrecipients to plan and coordinate COVD community strategies and events.

B. The Health Equity Program works towards reducing health disparities through increasing organizational capacity and implementing community strategies.

1. On November 15th, we participated in the University of Nevada Las Vegas event, promoting & achieving health equity and well-being.

VI.   SOUTHERN NEVADA PUBLIC HEALTH LABORATORY (SNPHL)

A. **Clinical Testing:**

1. The SNHD Nursing Division: molecular and microbiology culture, Sexually Transmitted Disease (STD) testing.

2. SNHD STD department: the CDC Gonococcal Isolate Surveillance Project (GISP) as well as enhanced Gonococcal Isolate Surveillance Project (eGISP). SNPHL performs NAAT and culture testing of N. gonorrhoeae isolates and submits isolates to a reference laboratory for the determination of antibiotic susceptibility patterns. SNPHL has also joined eGISP Part B to expand culture-independent testing for antimicrobial resistance genes of gonococcal isolates.

3.   A total monthly samples tested is listed in the following table:

Test Name	Monthly Count	Avg Year to Date
GC Cultures	88	69
NAAT NG/CT	1,060	1,102
Syphilis	933	960
RPR/RPR Titers	181/89	191/94
Hepatitis Total	1,118	987
HIV/differentiated	632/17	643/19
HIV RNA	85	76

4.   COVD testing:

- SARS-CoV-2 PCR extraction is currently performed on the KingFisher Flex platform only.
- SNPHL is to maintain the capacity of 2000 tests/day with a turnaround-time of <48 hours (TAT 2Day- currently at / near goal).
- For November, the average daily testing was 43 and the average turnaround time was 41 hours for PCR testing from the collection date to the release of the test report.
- IT created easy patient accession and direct report verification from SNPHL LIMS into SNHD patient report portal.
- Incorporate high throughput instruments such as Eppendorf 5073 automation of specimen fluid handling station.
- Molecular laboratory will add Tecan instrument after installing the updated script for the SARS-CoV-2 WGS procedure.

A monthly summary of COVD PCR/NAAT testing is listed as follows:

Month	# PCR& NAAT/#POS	COVD	# PCR$ NAAT/#POS
January	8775/722	July	1216/85
February	6614/542	August	527/198
March	6676/497	September	555/139
April	5174/4335	October	487/178
May	4544/244	November	937/197
June	2103/136	December	

5. Reportable disease reports:

- SNPHL continues to perform routine testing of reportable disease specimens submitted by community stakeholders. Isolates tested are reported to OEDS on a weekly basis to aid in disease investigation, and SNPHL and OEDS coordinate with CDC PulseNet if required.
- A monthly summary of reportable diseases tests is listed as follows:

		Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec	Total
Campylobacter	Campy ID	3	7	2	7	7	10	9	2	7	11	11		76
	Campy Screen	7	10	6	10	11	12	13	5	10	23	18		125
Neisseria species	Gonorrhoeae Culture	70	66	34	56	71	75	61	101	72	79	88		774
	Gram Stain/WBC	0	0	0	5	0	0	0	5	0	0	0		10
	Neisseria ID	0	0	0	0	0	5	0	0	2	0	0		7
	Haemophilus ID	0	0	8	2	3	0	1	1	1	5	0		21
Unknown ID	Bacterial ID	0	0	0	3	0	0	0	0	3	0	4		11
	WGS (PulseNet)	24	21	24	33	36	37	34	29	27	36	39		340
Salmonella	Salmonella Screen	16	14	13	17	25	26	26	25	17	26	19		224
	Salmonella Serotype	15	10	12	17	25	21	21	24	16	20	15		196
Shigella	Shigella Screen	4	7	10	10	4	6	3	8	5	11	21		89
	Shigella Serotype	4	5	12	3	3	3	2	3	3	4	13		50
STEC	STEC Screen	4	0	7	8	1	5	7	3	1	8	8		50

	STEC Serotype	4	0	1	2	1	3	2	0	3	0	2		16
Unknown	Stool Culture	3	14	2	4	5	0	0	0	0	0	0		28
Vibrio	Vibrio ID	0	1	0	0	0	3	0	0	4	1	0		9
	Vibrio Screen	0	0	1	1	0	6	0	0	6	6	0		20
Yersinia	Yersinia Culture/ID	0	0	1	0	2	0	0	3	0	1	0		7

B. Epidemiological Testing and Consultation:

1. SNPHL participates in the SNHD Outbreak Investigation Committee and Foodborne Illness Taskforce. There were two (2) cases for GI outbreak investigation in November.
2. SNPHL continues to report results of influenza testing to the CDC National Respiratory and Enteric Virus Surveillance System (NREVSS). In November, SNPHL performed 36 respiratory panels on the BioFire.

C. Emergency response and reportable disease isolate testing report:

1. SNPHL performs reportable disease isolate testing and confirmation. Isolates submitted by local laboratories are serotyped and/or confirmed by Whole Genome Sequencing; stored on-site; and results reported and/or samples submitted to CDC through various national programs; Public Health Laboratory Information System (PHLIS), National Antimicrobial Resistance Monitoring System (NARMS), and Influenza Surveillance, and PulseNet Bacterial Outbreak Surveillance.

2. SNPHL's additional mission is as a member of the CDC Laboratory Response Network (LRN) testing for the identification of potential biological weapons/agents on environmental daily samples within its unique BSL3 environment.

2023	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec
Select Agent Rule out (total PCR)	0	0	2	2	1	0	1	2	4	0	0	

3. SNPHL is clinically validated for using Whole Genome Sequencing (WGS) for the identification of Campylobacter species (select species), pathogenic Escherichia coli, and Salmonella species. SNPHL is also validated for the determination of Salmonella serotypes and STEC (Shiga toxin-producing E. coli) serotypes and Shiga toxin genes.

4. SNPHL performed 39 Whole Genome Sequencing tests (WGS) as part of PulseNet Foodborne Outbreak Surveillance in November 2023.

5. SNPHL has completed validation for all bacterial groups on the Bruker MALDI-TOF instrument for streamlined screening of bacterial isolates, to decrease turnaround time and modernize microbiological identification methods.

6. SNPHL is validated for sequencing of SARS-CoV-2 and variants of concern through the identification of lineages and clades.

7. SNPHL has sustained capacity of sequencing many 192 SARS-CoV-2-positive RNA extracts per week with expectations of increasing this capacity with appropriate staffing, instrumentation, and method development. As of November 2023, SNPHL has sequenced 143 SARS-CoV-2-positive RNA extracts.

8. SNPHL is clinically validated for the identification of Campylobacter species (select species), pathogenic Escherichia coli, and Salmonella species. SNPHL is also validated for the determination of Salmonella serotypes and STEC (Shiga toxin-producing E. coli) serotypes and Shiga toxin genes.

9. SNPHL coordinates and participates with Environmental Health and Veritas Labs for Legionella surveillance.

2023	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Legionella	7	1	24	8	0	8	8	20	36	30	13	

10. SNPHL provides vector testing for Environmental Services, Viral testing for Zika, West Nile, Western Equine Encephalitis, and Saint Louis encephalitis. Our facility hosted a CDC demonstration for the Vector team. In November, we tested a total of 43 mosquito pool samples. One (1) positive WNV mosquito pool samples were identified in November. Environmental Health released the test result to the public after we informed the test result to them.

11. As part of the Gonococcal Isolation Surveillance Program (GISP) and enhanced GISP (eGISP), in November, a total of 88 clinical isolates, Neisseria gonorrhoeae 31 isolates and Neisseria meningitidis three (3) isolates, were collected and will be sent to either the regional laboratory for antimicrobial susceptibility testing (AST) or the CDC, respectively. Remnant NAATs or N. gonorrhoeae samples will be sent to the CDC for molecular-based AST testing as part of eGISP Part B.

D. <u>All-Hazards Preparedness:</u>

1. SNPHL provides / assists testing for SNHD COVD Emergency Incident Response, local community outreach, CCDC jail-detention centers, institutions of higher education, and long-term nursing facilities Rapid-Antigen POC (CDC-EUA: Abbott IDNow; Qiagen Sofia; BD Vector) with outbreak confirmation RT-PCR testing supported by SNPHL.

2. SNPHL provides COVD Biosafety Training/Guidelines to Non-Traditional testing sites.

3. SNPHL coordinates with training/exercises for First Responders including local Civil Support Team, HazMat, Federal Bureau of Investigation, and Las Vegas Metropolitan Police Department.

4. SNPHL provides information to local laboratorians on CDC packaging and shipping infectious substances and the chain of custody procedures.

5. Provided onsite training for COVD online ordering applications for long-term care facilities.

6. Supplied Biosafety Guidance to Sentinel Sites regarding Monkeypox.

7. Furnished Monkeypox and Bivalent COVD Booster vaccination to laboratory staff.

8. Perpetuated Biosafety Training and guidance to SNPHL personnel.

E. <u>November 2023 SNPHL Activity Highlights:</u>

1. SNPHL has a stable CDC supply of Viral Transport Medium (VTM) used in COVD collection kits.

2. Passed LRN Challenge Panel with a 100% grade.

3. The clinical health laboratory purchased three (3) instruments for clinical testing to enhance the community health service. SNPHL received the urine analysis and Hematology instruments. Currently, the validation for both instruments has begun.

4. The new senior lab technician in the Microbiology Laboratory has continued training and onboarding in SNPHL protocols.

5. Our Emergency Response laboratory started to validate the warrior panel and verification process with CDC.

6. According to the WGS and genomic data analysis, the Omicron variant HV.1, BA.2.86.1, JD.1.1 EG.5.1.6 and JN.1 lineages are domain lineages, 28%, 26%, 13% 5% and 5% respectively, in November, from the samples received in the laboratory. Our laboratory will keep sequencing the closed contact samples to help ODS to follow up on the investigation.

7. Identified four (4) Monkeypox positive test results in 2023. Whole Genome sequencing of November MPox Positive samples has been completed. The clade is IIb and the lineage is B.1.20 for three sequencing data analysis.

8. According to the data of influenza surveillance in this flu season, the A/H3 and A/H1, and B/Victoria are major subtypes of influenza and the percentage of the ratio between three subtypes are 70%, 5%, and 15%, respectively.

9. SNPHL participates in the CDC Avian Flu surveillance project by sending the testing guidance and specimen collection procedure to the local hospitals through HAN system. Any ICU patient with influenza A positive must send the specimen to our laboratory to do influenza subtyping in order to rule out avian influenza.

10. SNHD Facilities completed the roof repair project and the upgraded camera installation project in November.

11. The builder/Architect for the SNPHL Lab expansion project has met facility team and laboratory staff to discuss the laboratory design. The builder/Architect had on-site visits and had lab tours. We all agreed to continue to have weekly meetings to review and update the lab design.

	Oct-23	Nov-23	Total
Presumptive Positive	3	1	4
Negative	1	3	4
Total	4	4	8
Positive/Total	75%	25%	50%

F. **COMMUNITY HEALTH – SNPHL – Calendar Year Data**

November SNPHL Services	2022	2023	
Clinical Testing Services [1]	4,326	4,965	↑
Epidemiology Services [2]	534	1,299	↑
State Branch Public Health Laboratory Services[3]	8,233	312	↓
All-Hazards Preparedness Services [4]	15	7	↓
Environmental Health Services [5]	61	56	↑

[1] Includes N. Gonorrhoeae culture, GISP isolates, Syphilis, HIV, CT/GC molecular, Gram stain testing, and COVD Ab immunologic tests.

[2] Includes Stool culture, EIA, Norovirus PCR, Respiratory Pathogen PCR, Epidemiological investigations, or consultations.

[3] Includes COVD PCR, WGS, and LRN testing, proficiency samples, reporting to CDC, courier services, infectious substance shipments, teleconferences, training, presentations and inspections, samples submitted to CDC or other laboratories' submissions.

[4] Includes Preparedness training, teleconferences, and Inspections.

[5] Includes vector testing.