

SFDPH PUBLIC HEALTH LABORATORY: PROTECTING THE HEALTH OF SAN FRANCISCO

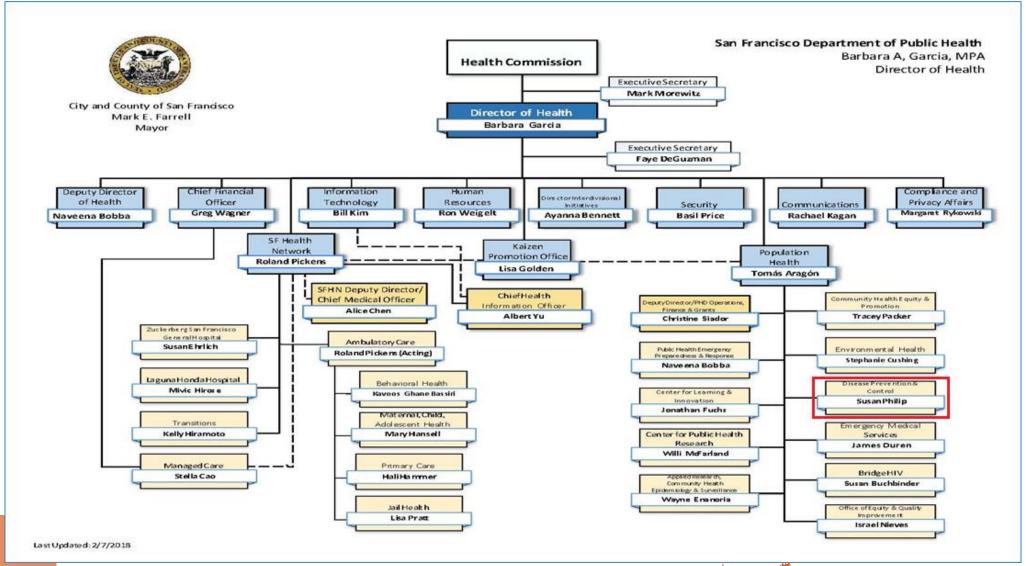




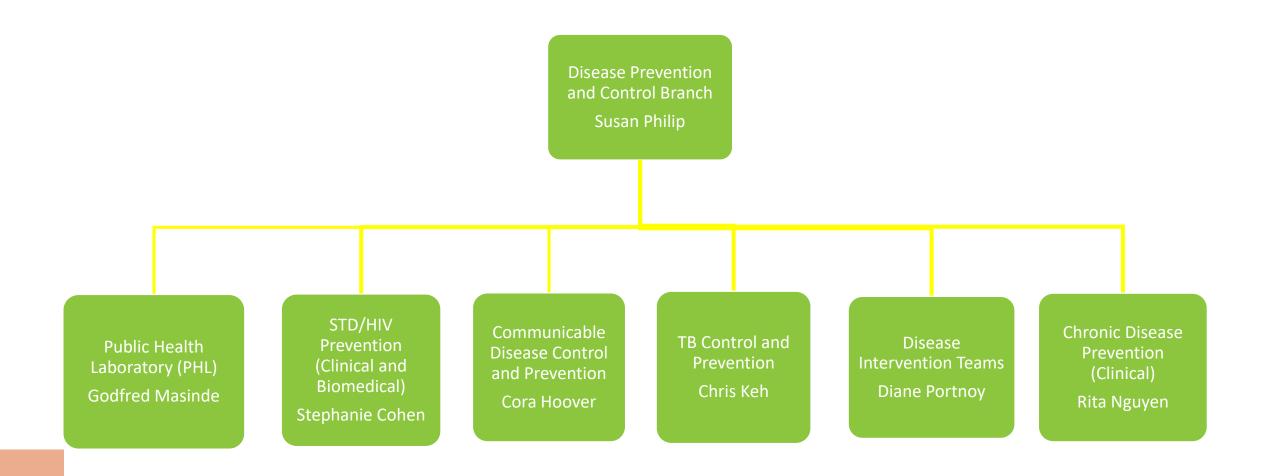
Godfred Masinde, PhD, MBA, HCLD(ABB)

Public Health Committee Meeting Tuesday, April 17, 2018











PHL Helps Assure Healthy Places and People in SF





OUR Mission Drawing upon community wisdom and science, we support, develop, and implement evidence-based policies, practices, and partnerships that protect and promote health, prevent disease and injury, and create sustainable environments and resilient communities.

OUR VISION

To be a community-centered leader in public health practice and innovation.

STRATEGIC DIRECTIONS PHD STRATEGIES AND PERFORMANCE MEASURES 2012-2015 STRATEGY 1: Build an integrated information and knowledge management infrastructure that enables us to monitor health, to inform and guide activities, and to improve staff and systems performance. 1. Superb knowledge PERFORMANCE MEASURES: management systems and 1.1.Build a strong, highly functional information technology (IT) and technical assistance infrastructure in alignment with Department of Public Health IT strategy. empowered users 1.2 Establish a highly functional, integrated infectious disease system to collect and report data and to deliver and monitor public health actions. STRATEGY 2: Integrate, innovate, improve, and expand efforts in community and environmental assessments, 2. Assessment and research research, and translation. aligned with our vision and PERFORMANCE MEASURES: 2.1 Create an action plan that supports division priorities. priorities 2.2 Build cross-section interdisciplinary teams to improve health outcomes and programmatic activities. ACCREDITATION (PHA) DOMAIN STRATEGY 3: Conduct effective policy and planning that achieves collective impact to improve health and wellbeing for all San Franciscans. PERFORMANCE MEASURES: 3. Policy development with 3.1 Establish a division-wide Performance Management, Equity and Quality Improvement Program. collective impact 3.2 Establish systems and partnerships to achieve and maintain Public Health Accreditation. 3.3 Develop a prioritized legislative agenda and strategic implementation plan to address health status and inequities. STRATEGY 4: Lead public health systems efforts to ensure healthy people and healthy places PERFORMANCE MEASURES: 4. Assurance of healthy 4.1 Establish community-centered approaches that address the social determinants of health and increase places and healthy people 4.2 Sustain and improve the infrastructure and capacity to support core public health functions, including legally mandated public health activities. STRATEGY 5: Increase administrative, financial and human resources efficiencies within the division 5. Sustainable funding and PERFORMANCE MEASURES: maximize collective 5.1 Establish a centralized business office for the division. 5.2 Appropriately address the human resource issues regarding civil service and contract employees. resources 5.3 Establish a centralized grants management and development system for the division. 6. Learning organization with STRATEGY 6: Build a division-wide learning environment that supports public health efforts. a culture of trust and PERFORMANCE MEASURES: 6.1 Establish a division-wide Workforce Development Program innovation

POPULATION HEALTH DIVISION

PHL is a Recognized Center of Excellence

- First lab in CA to use RNA pooling to detect Acute HIV which allows immediate diagnosis and treatment
- First PHL to validate Chlamydia (CT) and Gonorrhea (GC) testing on pharyngeal and rectal specimens
 - Provided specimen panels that allowed other laboratories to do the same
- The only lab testing for the STD Lymphogranuloma venereum (LGV) by molecular methods
- The first Lab in the country to use GeneXpert for TB in patients
- Serves as a reference lab for all clinical laboratories in San Francisco



PHL Performed 167,640 Tests in 2017

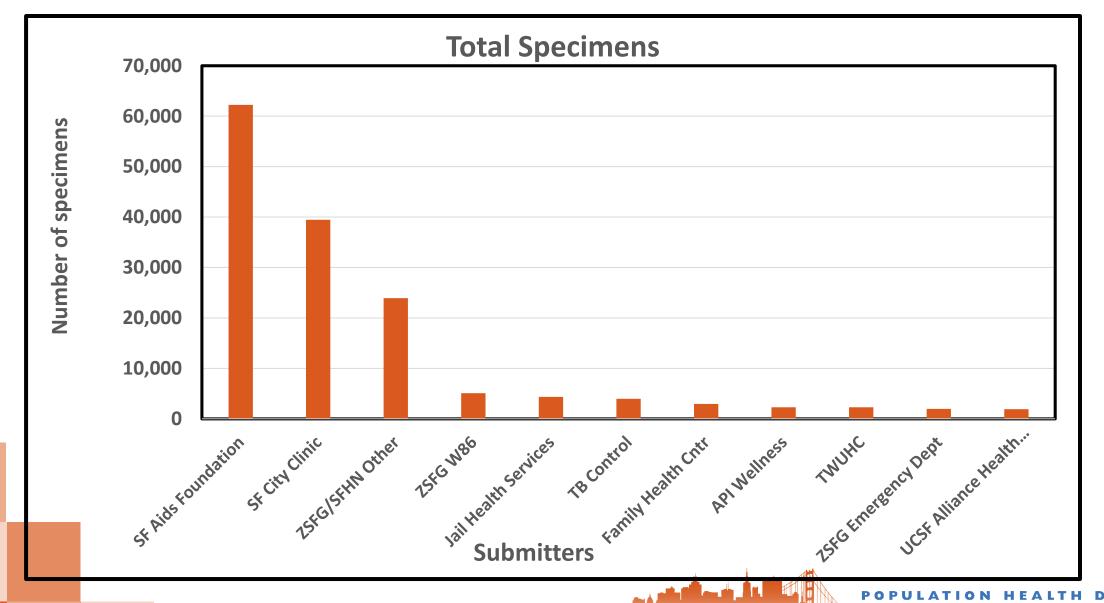
- STI samples (CT, GC, syphilis, HIV, LGV, Trichomonas)
- TB samples (Sputa and QFT-Blood)
- Influenza samples
- Foodborne pathogen samples (E. coli, Salmonella, Shigella)
- Vector-borne disease samples (Malaria)
- Animal specimens (Rabies)



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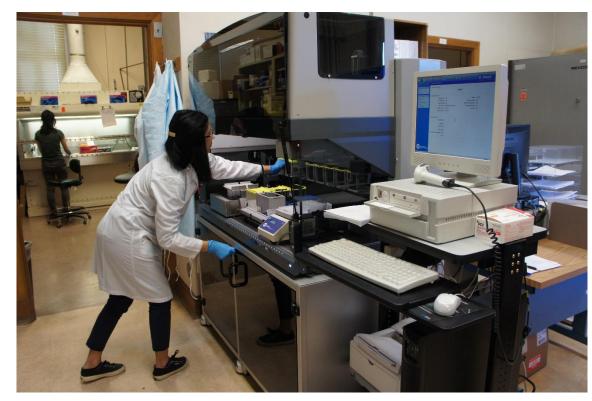


Specimens Came from 105 Unique Submitting Sites



External Networks/Collaborations

- Testing, Training,Reporting and Research
 - CDC
 - NIH
 - CA State PH Lab
 - Other PH Labs
 - Local Hospitals
 - Private Industry



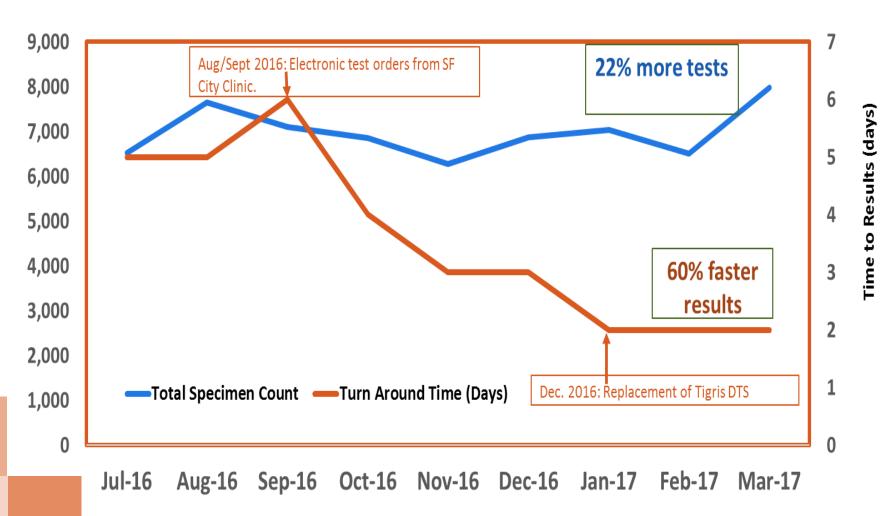
m2000 for HIV viral load testing



PHL Promotes Excellence Through Quality Improvement and Workforce Development



Lab Improvements Reduce Time to STD Diagnosis & Treatment







Month - Year



POPULATION HEALTH DIVISION
SAN FRANCISCO DEPARTMENT OF PUBLIC HEALTH

Workforce Development-I

New PHM Trained in 2017

Public Health Microbiologist (PHM) Certification is required by California to work in a PH Lab and test patient samples





Workforce Development-2

PHM Trainees 2018
On the job training for 6 months
(January to July) and sit for state
certification Examination to
become Microbiologists





New tests

 Introduce Rapid Chlamydia and Gonorrhea testing at City Clinics/sites to increase patient convenience and rapid treatment



GeneXpert

 Matrix-assisted laser desorption ionization time of flight (MALDI TOF)

Whole genome sequencing

Laboratory Developed tests





Vitek MALDI-TOF



New Lab in Building 5, ZSFG planned for 2021 Slide 1



BSL3 View

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CISCO DEPARTMENT OF PUBLIC HEALTH



