The Data Sharing Schedule is an Attachment referenced in the Hawai‘i HIE Data Sharing Agreement. Parameters in this Data Sharing Schedule have been accepted by the Hawai‘i HIE domain committees as the appropriate data set to be exchanged by participants in the Hawai‘i HIE user community, consistent with the use of “Minimum Necessary” protected health information concept, as defined in HIPAA, and are subject to modification over time by the domain committees to address changing business and technical requirements. While not all participants have the capability to capture and share all data elements contained in this Schedule, it is understood that all participants will contribute to the best of their ability. The Hawai‘i HIE community agreed that their organizations will work to expand their capabilities in order to maximize the data elements they capture and share with other participants through Hawai‘i HIE.

Keys:

Highlight= Data supplied by Labs through HL7 v2.x interface to Hawai‘i HIE.

Data Sharing Affiliate(s): https://hawaiihie.medicity.net/#SearchTab

1> Demographic Data:
   a) Unique patient identifier (as assigned by Hawai‘i HIE)
   b) Opt Out Flag
   c) Opt out description
   d) Last name, first name, middle Initial
   e) Patient Name Suffix
   f) Alias
   g) DOB
   h) Social Security Number
   i) Hawai‘i State Driver License or ID #
   j) Account (Register) #
   k) Medical Record #/ Record Type
   l) Gender
   m) Race
   n) Ethnicity ←(MU2)
   o) Religion
   p) Marital Status
   q) Preferred Language ←(MU2)
r) Zip Code of Residence
s) Mailing Address 1-
t) Mailing Address - City
u) Mailing Address - State
v) Mailing Address - Zip
w) Patient Phone #
x) Primary Care Physician/National Provider Identifier (NPI)/ DEA #
   i. Specialty No. 1
   ii. Specialty No. 2
   iii. Specialty No. 3
y) Death Date and Time

1> Emergency Information
   a) Emergency Contact
      i. Name
      ii. Relationship
      iii. Phone Number
      iv. Address
   b) Resuscitation Status:
      a) Advance Directives:
      b) POLST (Physician Orders for Life Sustaining Treatment)

2> Payer Data
   a) Medicare Provider #
   b) Primary Payer Name
      i. Plan/Group
      ii. Subscriber ID
   c) Secondary payer Name
      i. Plan/Group
      ii. Subscriber ID
   d) Tertiary payer Name
      i. Plan/Group
      ii. Subscriber ID

*** Unclear if possible to separate out active from historical medical problems. Ideally
would have current problem list separate for easy access since the “current and
resolved” list could be very lengthy.

3> Current Problems
   a) Condition
i. Date of Diagnosis
ii. Provider on Record
iii. Treatment

b) Substance Use*
   a) Smoking
   b) ETOH
   c) Other Substances

*Does not include substance abuse treatment records i.e., restricted information

4> Medical History
   a) ICD-9 Code/Description:
      i. Date of Diagnosis
      ii. Date of Resolution
      iii. Provider on Record
   b) Immunization History
      i. Immunization
         i. Date Received

5> Surgical History
   a) Procedure:
      i. Date of Procedure:
      ii. Surgeon
      iii. Diagnosis

6> Family History
   a) Significant Family History: Not yet supported

7> Medications
   a) Medication
      i. Strength/Volume
      ii. Dosage
      iii. Route
      iv. Prescriber
      v. Start Date
      vi. End Date
      vii. Condition being treated
   b) Over-The-Counter Medications
   c) Supplements/Herbs
8> Allergies, Adverse Reactions, Alerts
   a) Substance
      i. Reaction
      ii. Severity
      iii. Date of ID

9> Vitals Signs
   a) Height/date-time
   b) Weight/date-time
   c) BMI/date-time
   d) BP Systolic/date-time
   e) BP Diastolic/date-time
   f) Temp/date-time
   g) Pulse rate/date-time
   h) Pulse rhythm/date-time
   i) Resp rate/date-time

10> Labs
    Anti-Streptolysin O
    BNP- Brain Natriuretic Peptide
    Blood Urea Nitrogen (BUN)
    CEA- Carcinoembryonic Antigen
    Chlamydia trachomatis PCR
    Chlamydia PCR
    CK- Creatinine Kinase
    Creatinine Serum
    Creatinine Clearance (24 hour urine)
    CRP- C- Reactive Protein
    Digoxin
    Lactate
    Lactic Acid
    Lipid Profile
    Total Cholesterol
    ESR- Erythrocyte Sedimentation Rate
    Fasting or Random Glucose
    GFR calc., if non-African American
    GFR calc, if African Am.
    Glucose 1hr/ 50 gram
    Glucose Postpartum Fasting
    Glucose Tolerance Test (Prenatal)
    Glucose Tolerance Test (Postpartum)
    Group A Strep Culture
    HDL Cholesterol
INR
Hematocrit
Hemoglobin
Hemoglobin A1C
HbsAb (surface antibody)
LDL Cholesterol
LDL-Direct
Microalbumin Urine
MRSA screen
Pap Smear
Phosphate (Serum)
Potassium (Serum)
PSA- Prostate Specific Antigen
Rapid Dir Grp-A strep screen
Specimen
Streptozyme
Throat culture
Transferase Alanine (ALT)/SGPT
Transferase Aspartate (AST)/SGOT
Triglyceride
Troponin
Urine Protein Dipstick
Varicella-Zoster Ab IgG

11> Microbiology
1) Culture/Screen
   a)  Date
   b)  Site/Source – (blood, urine, sputum, stool, CSF, wound, throat)
   c)  Method of Collection
   d)  Prelim Growth
   e)  Final Growth
   f)  Sensitivities

12> Pathology
1) Specimen
   a)  Date
   b)  Diagnosis
   c)  Stage, Grade
   d)  Markers/ Mutations- KRAS, HER-2/NEU, ER, PR

13> Imaging Studies and Reports
   a)  EKG
      a.  Date/time
      b.  Findings
      c.  Ordering Provider
d. Location

b) Chest X-Ray
   a. Date/time
   b. Findings
   c. Ordering Provider
   d. Location

14> Patient Encounters Other than admissions
   a) Date
      a) Location
      b) Diagnosis
      c) Provider

15> Admissions and Discharges
   a) Date of admission/hour (PV1-44)
      i. Admission Diagnosis (PV2-3)
      ii. Location of Admission- Hospital (MSH:4)
      iii. Source of Admission- Specific Facility (PV1-14)
      iv. Admitting Attending (PV1-17)
      v. Treating Attending (PV1-7)
      vi. Consulting Attending (PV1-9)
      vii. Admitting Service (PV1-10)
      viii. Date of Discharge/hour (PV1-45)
      ix. Discharge Diagnosis ICD-9/ICD-10
      x. Disposition (PV1-36)

Total Charges
   a) Hospital based physician charges
   b) Facility charges

Child
   a) Newborn Mother's Account #
   b) Birth Weight

Coding
   a) Principal Procedure Date/other procedure date 1-9/other procedure date 10-19
   b) Principal Diagnosis codes ICD-9/ICD-10
   c) POA Principal Diagnosis Code
   d) POA Other Diagnosis 1-9
   e) POA Other Diagnosis 10-19

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f) POA E-Code

g) HCPCS Code 1-20 w/modifiers

h) E-Code (External cause of injury, poisoning, or adverse effect)

Principal Procedure
a) Other procedures 1-9/10-19

Principal Surgeon
a) Other Surgeon 1-9/10-19

Clinical and Laboratory findings associated with the following conditions for Public Health Reporting:

- Amebiasis
- Amnesic shellfish poisoning
- Anisakiasis
- Anthrax
- Botulism, foodborne
- Botulism, infant
- Botulism, other (unspecified)
- Campylobacteriosis
- Cholera
- Ciguatera fish poisoning
- Clostridium infection/toxin poisoning
- Cryptococcosis
- Cryptosporidiosis
- Cyclosporiasis
- Diarrheal disease, not otherwise specified
- Diphyllobothrium latum
- E. coli infection, shiga toxin-producing
- Enterohem. E.coli O157:H7
- Enterohem. E.coli, shigatox+, ?serogrp
- Enterohem. E.coli, shigatox+, non-O157
- Enterovirus infections
- Food poisoning
- Foodborne disease
- Giardiasis
- Listeriosis
- Noroviruses
- Paralytic shellfish poisoning
- Parasitic GI illness, unspecified
- Rotavirus
- Salmonellosis
- Scombroid fish poisoning
- Shigellosis
- Staphylococcal enterotoxin
Trichinosis (Trichinellosis)
Typhoid carrier
Typhoid fever (Salmonella typhi)
Vibrio infection, other
Vibrio parahaemolyticus
Vibrio vulnificus infection
Vibriosis, non-cholera
Waterborne disease
Yersiniosis
Bacterial meningitis, other
Birth defects and congenital anomalies
Botulism, other (non-infant/non-foodborne)
Coccidioidomycosis
Creutzfeldt Jakob Disease (CJD) and vCJD
Cytomegalovirus infection
Disease caused by agent used as weapon
Fifth Disease
Hansen disease (Leprosy)
Hemolytic uremic syndrome
Histoplasmosis
HTLV-I infection
HTLV-II infection
Kawasaki disease
Legionellosis
Meningitis, aseptic
Norovirus-like illness
Parasitic infection
Reye syndrome
Rheumatic fever
SARS-CoV disease
Scarlet fever
Staph aureus, methicillin resistant (MRSA)
Staph aureus, vancomycin intermediate sus (VISA)
Staph aureus, vancomycin resistant (VRSA)
Streptococcal disease, invasive, other
Streptococcus, Group A, invasive
Streptococcus, Group B, invasive
Toxic-shock syndrome, staphylococcal
Toxic-shock syndrome, streptococcal
Trachoma
Vancomycin-Resistant Enterococcus (VRE)
Encephalitis, other
Hepatitis A, acute
Hepatitis B, acute
Hepatitis B, chronic
Hepatitis B, perinatal
Hepatitis C, acute
Hepatitis C, chronic
Hepatitis Delta, co- or super-infection
Hepatitis E, acute
Hepatitis, other acute
AIDS
HIV Infection, adult
HIV Infection, pediatric
Flu activity code (Influenza)
Influenza
Influenza A
Influenza B
Influenza novel H1N1
Influenza Outbreak
Influenza, novel A virus infection
Influenza-associated mortality (less than age 18)
Arsenic
Asbestosis
Cadmium, elevated levels
Carbon monoxide, elevated levels
Chemical pneumonitis
Lead, elevated levels
Mercury, elevated levels
Mesothelioma
Methemoglobin
Pesticide poisoning
Pneumoconiosis
Pneumoconiosis, coal workers
Ricin poisoning
Silicosis
Toxic effects of chemicals not specified elsewhere
Bacterial vaginosis
Candidiasis
Chancroid
Chlamydia trachomatis infection
Condyloma acuminatum
Genital warts
Gonorrhea
Granuloma inguinale (GI)
Herpes
Human papiloma virus infection (HPV)
Lymphogranuloma venereum (LGV)
Nongonococcal urethritis (NGU)
Opthalmia neonatorum
Pelvic inflammatory dis., etiology
Syphilis, congenital
Syphilis, early latent
Syphilis, late latent
Syphilis, late, not neurosyphilis
Syphilis, neurological
Syphilis, primary
Syphilis, secondary
Syphilis, unknown latent
Syphilitic stillbirth
Trichomonas vaginalis infection
Mycobacteria, atypical
Tuberculosis
Tuberculosis infection in children
Diphtheria
Haemophilus influenzae infection
Measles (Rubeola)
Meningococcal disease (Neisseria meningitidis)
Mumps
Pertussis
Poliomyelitis, paralytic
Poliovirus infection nonparalytic
Rubella
Rubella, Congenital Syndrome (CRS)
Smallpox
Streptococcus pneumoniae infection
Tetanus
Vaccinia adverse event following vaccination
Vaccinia disease
Varicella (Chickenpox)
African Tick Bite Fever
Anaplasmosis
Angiostongyliasis
Anthrax
Babesiosis
Blastomycosis
Brucellosis
Cat scratch fever (Bartonellosis)
Chagas disease
Chikungunya
Colorado tick fever
Dengue Shock Syndrome
Dengue fever
Dengue hemorrhagic fever
Ehrlichia chaffeensis infection
Ehrlichia ewingii infection
Ehrlichiosis, human granulocytic (HGE)
Ehrlichiosis, human monocytic (HME)
Ehrlichiosis, human, other or unspec. agent
Ehrlichiosis/Anaplasmosis, undetermined, infection
Encephalitis, CA serogroup virus, neuroinvasive
Encephalitis, CA serogrp virus, non-neuroinvasive
Encephalitis, Cache Valley, neuroinvasive
Encephalitis, Cache Valley, non-neuroinvasive
Encephalitis, Eastern equine (EEE), neuroinvasive
Encephalitis, Estrn equine(EEE), non-neuroinvasive
Encephalitis, Japanese encephalitis virus disease
Encephalitis, Powassan, neuroinvasive
Encephalitis, Powassan, non-neuroinvasive
Encephalitis, St. Louis, neuroinvasive
Encephalitis, St. Louis, non-neuroinvasive
Encephalitis, Vnzla equine(VEE), neuroinvasive
Encephalitis, Vnzla equine(VEE), non-neuroinvasive
Encephalitis, Western equine (WEE), neuroinvasive
Encephalitis, Wstrn equine(WEE), non-neuroinvasive
Filariasis
Glanders
Hantavirus infection
Hantavirus pulmonary syndrome
Leishmaniasis
Leptospirosis
Lyme disease
Malaria
Melioidosis
Nipah virus infection
Orthopox
Plague
Psittacosis (Ornithosis)
Q fever
Q fever, acute
Q fever, chronic
Rabies
Rabies, animal
Relapsing fever, tick or louse borne
Spotted Fever Rickettsiosis (including RMSF)
Taeniasis
Toxoplasmosis
Tularemia
Typhus fever-fleaborne, murine
Typhus fever-louseborne, R. prowazekii
Vesicular stomatitis
Viral hemorrhagic fever
West Nile infection, neuroinvasive
West Nile infection, non-neuroinvasive
Yellow fever

**VIROLOGY**

Hepatitis B Surface Antigen
Hepatitis B Surface Antibody
Hepatitis B Core Antibody
Hepatitis A IgM
Varicella IgG (EIA)
Measles IgG (EIA)
Measles IgM (EIA)
Mumps IgG (EIA)
Herpes IgG
Cytomegalovirus IgG (EIA)
West Nile IgG (EIA)
West Nile IgM (EIA)
Herpes Shell Vial Testing
Herpes DFA slide testing
Norovirus PCR
Toxoplasmosis
VDRL Syphilis Screen
Rubella IgG (EIA)
Rubella IgM (EIA)
Rabies Panel
RCC – Rabies Cell Culture
Prenatal Profile
Viral Isolation Fluid - Non Influenza
Viral Isolation Swab - Non Influenza
Influenza PCR

**BACTERIOLOGY**

Salmonella grouping and typing
Shigella
Campylobacter
E. Coli
Miscellaneous Enteric Pathogens
VIB – Vibrio
Miscellaneous Bacteria Identification
Pinworm
Ova and Parasites
Neisseria meningitidis
H.Pylori

MYCOBACTERIOLOGY
Tuberculosis (raw specimen)
Tuberculosis (culture isolate)

MOLECULAR
Chlamydia and Gonorrhoea

ENVIRONMENTAL
Water Bacteriology
Fluoride
Fluoride (Public Water System)
Fluoride (Supplement Program)

NEWBORN SCREENING
Division of Laboratory Services (DLS) screens infant blood spot specimens for over 40 different disorders.
Data Formats:
LOINC
HL7
Medications List
CPT
ICD 9
ICD10

TUMOR/CANCER REGISTRY REPORTING  ← (MU2)

PUBLIC HEALTH REGISTRIES REPORTING  ← (MU2)

Service Levels for Delivery: to be negotiated with data contributor