

# Linked APAC-Death Certificate Data Available for Request

APAC Technical Advisory Group  
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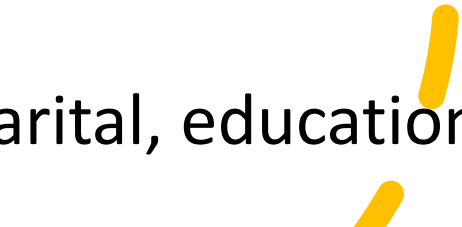
# Why?

- Make death certificate (DC) data available for internal and external APAC requesters
- Supports health policy & research
- Supports analyses & research about health care access, services, outcomes and amount paid
- Supports evaluation of potential race and ethnic differences
- Matched APAC-DC data saves time and resources

# Oregon Death Certificate

- Oregon residents who died in Oregon or elsewhere
- People who died in Oregon who were not Oregon residents

## **Available data elements**

- Cause of death
  - Underlying causes of death
  - Place of death
  - Tobacco use
  - Demographics-age, gender, R/E, marital, education etc.
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# APAC Death Data

CMS reported date of death for Oregon residents only in APAC (only available for request for OHA projects)

## Other death data in APAC

- Hospital discharge status-death
- Other death diagnosis codes (validity issues)



# Summary Statistics

## Oregon Death Certificates 2010-18

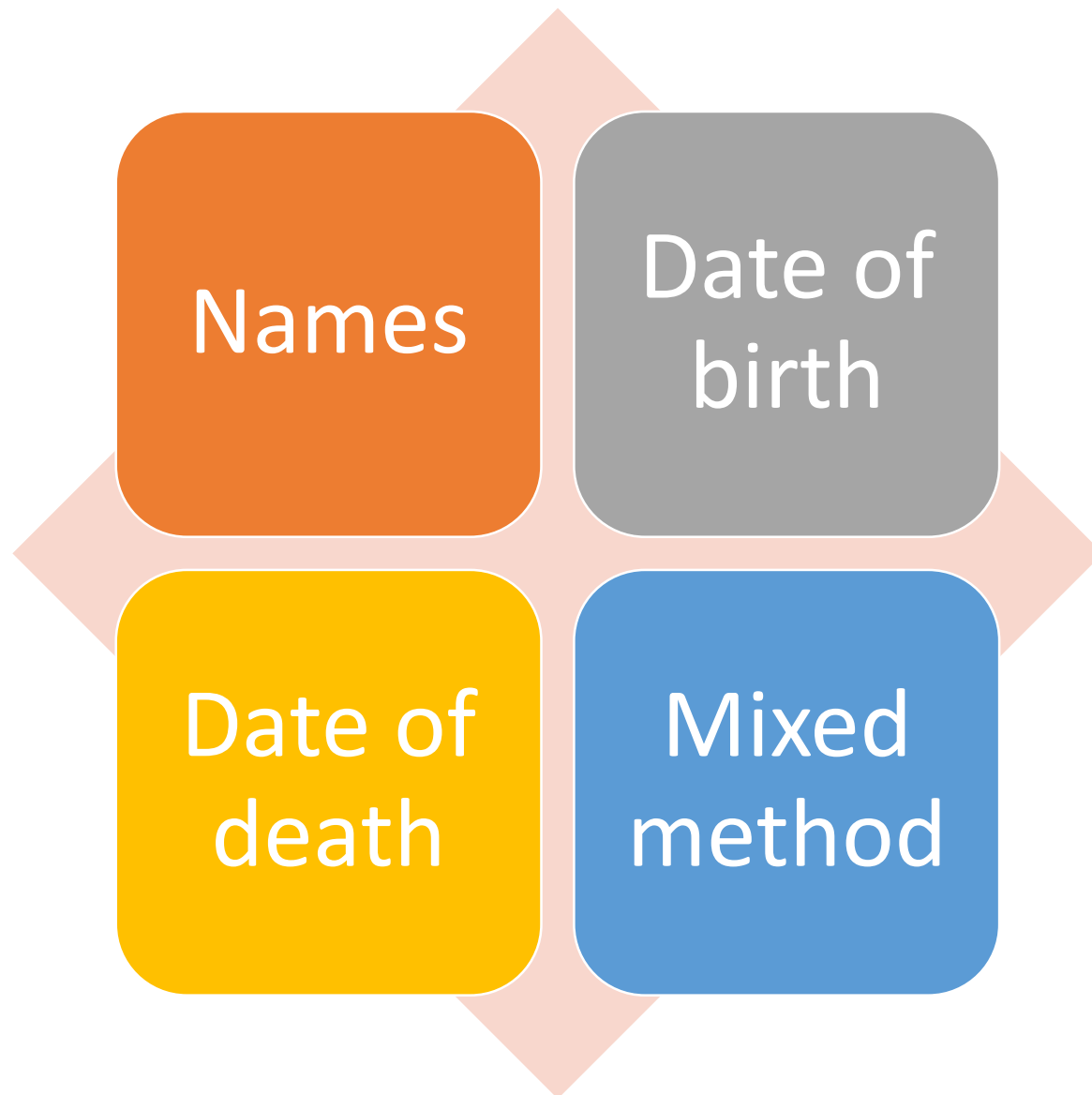
- 313,299 total deaths
- 33k-37k annual deaths

## APAC Deaths 2010-18

- 278,534 total deaths
- CMS reported 249,708 deaths (DOD)
- 28,826 discharge status deaths



# Matching Methodology



# Matching Issues

## Errors/differences in data sources

- Name changes-marriage, divorce
- Spelling differences-nicknames
- Naming conventions-cultural
- APAC not unique person identifier
- DOB/DOD - error

## Matching algorithm

- Perfect LNFNDOB DOD or LNFNDOB
- Less than perfect-LNFN4DOB, LN4FN4DOB, LNFN switches
- Hand match/review

23k Oregon residents in APAC with DOD should, but did not match Oregon death certificate

# Match Rate

- 91% of death certificates matched APAC (93% OR residents)
- 86% of APAC matched death certificate data (87% OR residents)
- 91% of people with CMS DOD in APAC matched death certificate data




## High Level Summary

Death certificate data available for 284k people in APAC (matched)

Date of death available for an additional 23K people in APAC (no death certificate)

Death diagnosis date available for an additional 16k people in APAC (no death certificate, no DOD)

Death information available for 323k people in APAC (death certificate, DOD and/or DX)



Review  
APAC and  
DC with no  
Match

Born before 1940

- 72% of APAC no matches
- 36% of DC no matches

Not Oregon resident

- 9% of APAC no matches
- 23% of DC no matches

# Potential Use Case

## **COVID 19 deaths**

- Type(s) of insurance
- Continuous/discontinuous enrollment
- High deductible, copayment
- Access to care (primary care, chronic care)
- Prior care (hospitalization, urgent care, ED care)
- Chronic health conditions (DX, Txt, Pharmacy)
- Cost of COVID 19 care (payer & member)
- R/E differences (leveraged APAC R/E data)

# Next Steps

**Completed**

Coordinated with CHS and developed data request process for APAC-DC linked data

Communicate

Communicate that the linked data is available for request and the process to request/approve

Conduct

Conduct additional validation and exploratory analyses

# Linked APAC-Death Certificate Request Process

- Part A-request linked data through regular APAC data request process
  - Describe the plan for linked APAC-Death certificate record data in the Project Summary Section in the APAC-2 application
- Part B-request death certificate record data through the Oregon Center for Health Statistics (CHS)
  - Complete the CHS data use agreement and describe the plan for the linked data in Question 11 of the external data request application
  - <https://www.oregon.gov/oha/PH/BIRTHDEATHCERTIFICATES/VITALSTATISTICS/Pages/Data-Use-Requests.aspx>
- You may submit requests concurrently. APAC & CHS will coordinate approval
- The APAC program highly recommends that you contact us for a discussion and consultation prior to submitting your linked data request

# Contact & Information

APAC Website:

<https://www.oregon.gov/oha/HPA/ANALYTICS/Pages/All-Payer-All-Claims.aspx>

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