

SARS-CoV-2 Vaccine Breakthrough Workflow

A breakthrough case is defined as someone who has a positive SARS-CoV-2 test result at least 14 days after they've been fully vaccinated against COVID-19.

Resources

- ❑ **WA DOH:**
 - CREST: CCPH Vaccination Dashboard/ CCPH – Vaccine Breakthrough – Cases for Investigation view
 - WA DOH [COVID-19](#) Infection Notifiable Condition Investigation Guidance

Inclusion Criteria

- ❑ **Case Ascertainment Criteria for WA**
 - WA Resident
AND
 - Positive PCR or Antigen Test Result
AND
 - Individual states that they have completed the recommendation course of a COVID-19 vaccination or interviewer finds documentation of a completed course of COVID-19 vaccination
AND
 - COVID-19 PCR specimen collection date is >14 days after the date of administration of second/final vaccination dose.

- ❑ **SARS-CoV-2 Vaccine Breakthrough WA Criteria for a Confirmed Case**
 - Positive PCR: (Antigen positive cases will need an additional positive PCR, collected within 10 days of antigen test date, to be considered a confirmed case).
AND
 - Has received a complete course of COVID-19 vaccine (received 2 documented doses of COVID vaccine requiring 2 doses and 1 documented dose of COVID-19 vaccine single dose)
AND
 - COVID-19 PCR specimen collection date is >14 days after the date of administration of second/final vaccination dose (this will allow inclusion of asymptomatic persons in our metrics if desired).

Case Investigation Team

- ❑ Identifies potential SARS-CoV-2 vaccine breakthrough cases through Case investigation interview.
- ❑ Completes vaccine questions outlined in CREST.
- ❑ Documents vaccine administration dates for the specific vaccination received and collects State, County and vaccination provider information.
 - **NOTE:** All individuals that are identified as receiving any SARS CoV-2 vaccinations will automatically populate the CCPH – Vaccine Breakthrough – Cases for Investigation view on the CCPH -- Vaccinations dashboard.

CCPH COVID-19 Investigation Leadership

- ❑ Review CCPH -- Vaccinations dashboard in CREST at a minimum daily (CCPH – Vaccine Breakthrough – Cases for Investigation view).

- ❑ **Perform record review (CREST investigation case) to confirm that the individual meets criteria by verification of:**
 - Complete SARS-CoV-2 vaccination series (people are considered fully vaccinated for COVID-19 ≥2 weeks after they have received the second dose in a 2-dose series (Pfizer-BioNTech or Moderna), or ≥2 weeks after they have received a single-dose vaccine (Johnson and Johnson (J&J)/Janssen) and documented vaccination dates.
 - Confirm vaccination dates in WAIS. If not in WAIS, reach out to vaccine provider and/or the individual to obtain copy of vaccination record for confirmation.
 - Confirmation of positive COVID-19 PCR test timeframe (14 days after vaccination series completed).

- ❑ Document all cases that meet the breakthrough criteria identified on the CCPH Vaccinations dashboard on the SARS-CoV-2 Vaccine Breakthrough Case Tracking. Complete all applicable fields on the SARS-CoV-2 Vaccine Breakthrough Case Tracking sheet.

- ❑ **RULED OUT Cases:**
 - Cases not meeting criteria for a breakthrough case, remove from the dashboard using the following steps:
 - Double click on Call Notes for the case that does not meet the criteria. Enter 'VAX REVIEW COMPLETED' into the Call Notes field at the end of the existing note and click save.
 - ⚠ It is critical that 'VAX REVIEW COMPLETED' is spelled exactly that way (upper case, no spelling errors) for it to come off the list.

- ❑ **CONFIRMED Cases:**
 - Investigator will create a folder in the Special Projects folder on the H:drive.
 - Utilize individuals' initials and the associated WDRS event # (123456789-DN)
 - Complete and submit the DOH reporting form.
 - Save completed form on the H:drive
 - Naming nomenclature: SARS-CoV-2 Vaccine Breakthrough Case report WDRS event ID # and report date. Example: SARS-CoV-2 Vaccine Breakthrough Case report 12345678 03.09.21
 - Save completed DOH SARS-CoV-2 vaccine breakthrough case report form and any specific vaccine documentation related to that case in the individual's folder.

- ❑ **DOH reporting process:**
 - DOH may request additional information, such as whether the case is part of an outbreak.
 - DOH may also ask for assistance in collecting a new specimen if the original specimen was discarded.
 - Attach completed DOH SARS-CoV-2 vaccine breakthrough case report form to WDRS event.
 - Open WDRS and enter the WDRS ID for the case in the search bar.
 - On the main event summary page, in the "Basic Information" section, under "Attachments" click "Add".
 - Navigate to the file path for the DOH reporting case for the appropriate case and click "Open".
 - Add "Vaccine Breakthrough case report form for WDRS ID: #####".
 - Keep Status = "Requires Review", Type = "General", and Security = "None". Include a note, if there is additional information that is not included on the form that should be shared with DOH (e.g. case is part of an OB; case received vaccine in Oregon, could DOH ask OHA for vaccine record).

- Email a notification email to [REDACTED] (Send secure if contains PHI. The below template message does not contain PHI).
 - “WDRS # _____ received the final COVID vaccine dose on MM/DD/YYYY and tested positive on MM/DD/YYYY. The vaccine breakthrough case report form is attached to WDRS event record. Please reach out if additional information is needed.”
 - Alternative reporting options:
 - Fax:
 - If calling. Phone:
 - State that you are reporting a COVID breakthrough case
 - Ask for a VPD Epidemiologist

□ Completed Investigations - Documentation in CREST:

- To close completed investigations for the confirmed breakthrough case:
 - Double click on the ‘Call Notes’ variable in the view to open the call log.
 - In the Call Notes field, at the end of the existing note, enter ‘FOLLOW-UP COMPLETE ’ and click save. Example: “Yes P 2 2/5/21 vx yes-P-2;2/5/21 FOLLOW-UP COMPLETE”
 - ⚠ It is critical that ‘FOLLOW-UP COMPLETE’ is spelled exactly that way (upper case, no spelling errors) for it to come off the list.
 - This case will now populate the “CCPH – Vaccine Breakthrough – FOLLOW_UP COMPLETE” view in CREST.