

Hello partners,

The transition day for PulseNet 2.0 is coming soon!

Pre-transition.

We opened the PulseNet 2.0 staging environment in mid-July and participants have been navigating and learning the new system. In addition, CDC and APHL have been rapidly processing PulseNet 2.0 recertifications to allow as many users as possible to access the system on the day of transition. Prior to the launch date, recertified individuals will receive an email from SAMS with the link to the PulseNet 2.0 Production environment.

- *Friday, September 13, 2024:* The last day for sequence data to be uploaded to the PulseNet national databases via BioNumerics.
- *September 14-15, 2024:* The system will be down over the weekend for data migration.

Transition day.

Starting Monday, **September 16, 2024**, all PulseNet sequence data will be published to the PulseNet national databases via PulseNet 2.0.

Here are some things to expect:

- **Metadata.** The metadata for all isolates will still be available in PulseNet 2.0 and SEDRIC but the analyzed sequence information (allele calls, predicted AST, allele code, etc.) will be missing.
- **Historic data.** All WGS data are being reanalyzed, therefore the national databases will initially only have sequence data from 01/01/2022 to present. As historical sequence data are reanalyzed the number of historical samples in the databases will increase. It should take about 5 months to reanalyze all historical sequences. Because alleles are being stored in a different way, all allele codes will change. We will capture old allele codes in Excel files for reference and post them on the PulseNet SharePoint site.
- **Allele codes.** The way allele codes appear will be different. There will be unique digits at each threshold. This means allele codes will consist of longer numbers at each digit/threshold (ex. SALM1.1 - 1.32.101.11234.12323). Additionally, there have been improvements to X-code assignment. X codes may continue past the X with plain numbers or additional numbers with an X. Allele codes will no longer be truncated at the first X, and there may be multiple X's in the same code, i.e., SALM1.1 - 6778.3.1.1x.16x.16. This will allow users to detect smaller clusters of closely related sequences within an overall X code. This X code update was presented during office hours, but we will schedule another office hours session to discuss updates to allele codes soon after the transition.
- **One health enterics fields.** We have added some fields related to the One Health Enterics (OHE) package. Some of our existing fields will change (e.g., changing Isolation Date to Collection Date and Received Date to PHL Received date) and we have added some new fields (e.g., WGS Lab Received date and CIDT). Information about these changes was presented during the PulseNet 50-state calls and is available on the PulseNet SharePoint site.
- **SEDRIC.** We plan to have PulseNet 2.0 data appear in SEDRIC on the September 16th launch date.

We expect the week of **September 16th** will be quite busy as everyone starts navigating the new system. There may be delays in data being analyzed, published, and reported on. We will put forth our best efforts to make sure the delays are minimal, and we plan to continue detecting clusters of illness in real-time.

We would like to thank the Association of Public Health Laboratories and our PulseNet participants for all their efforts. You have provided us with valuable feedback, and we hope to continue to improve upon this new system with your continued support.

If you have questions about the transition or PulseNet 2.0, please email PulseNet@cdc.gov.

Thank you,

The PulseNet 2.0 Transition Team at CDC