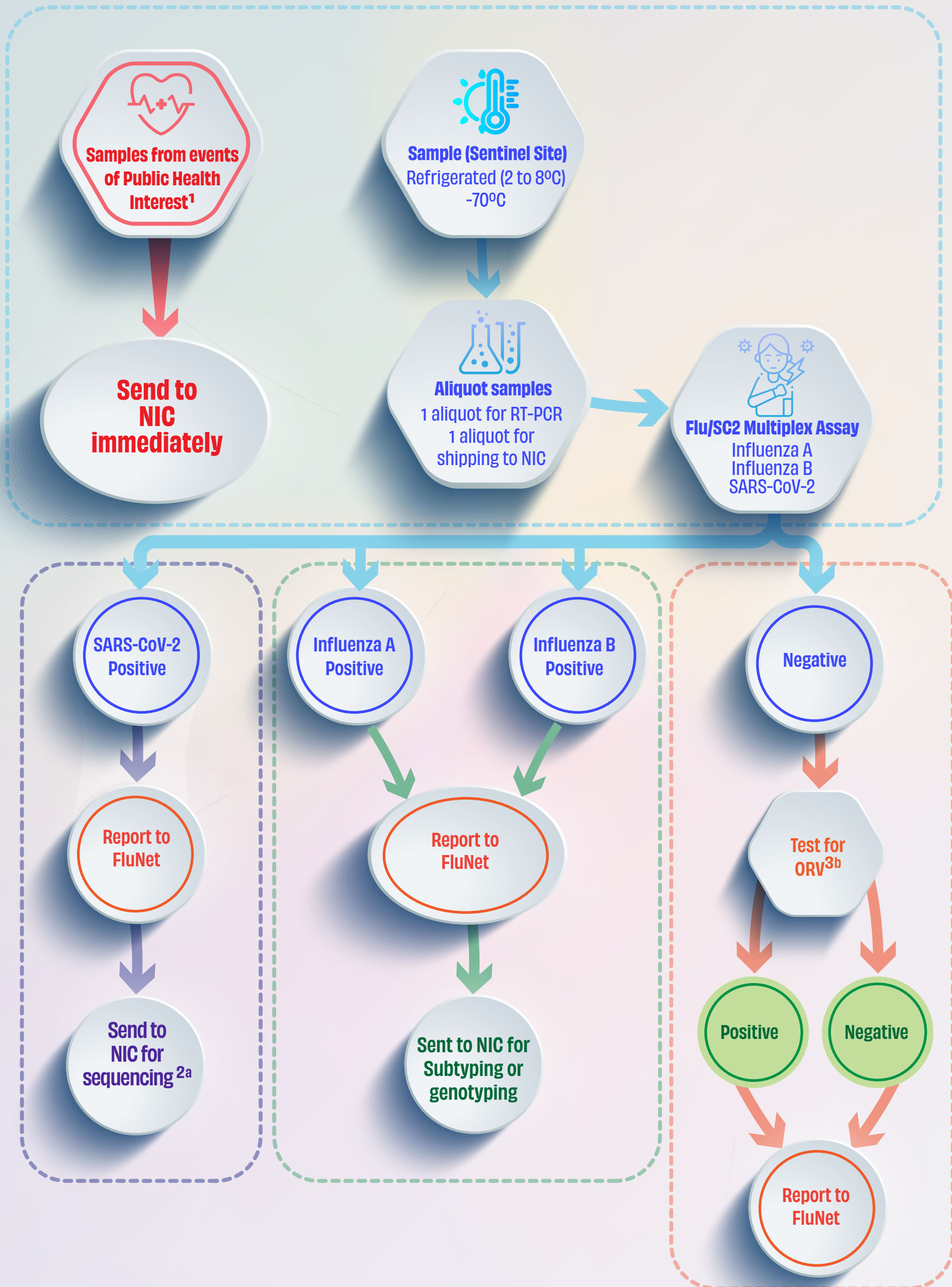


Influenza and SARS-CoV-2 Integrated Surveillance LABORATORY TESTING ALGORITHM

1. Sentinel site laboratories conducting Influenza and SARS-CoV-2 testing.



1 – Samples collected out of routine surveillance from events of public health interests. International Health Regulations 2005: <https://www.who.int/publications/i/item/9789241580410?msclkid=128025ecaabc11eca7819f61281e007b>

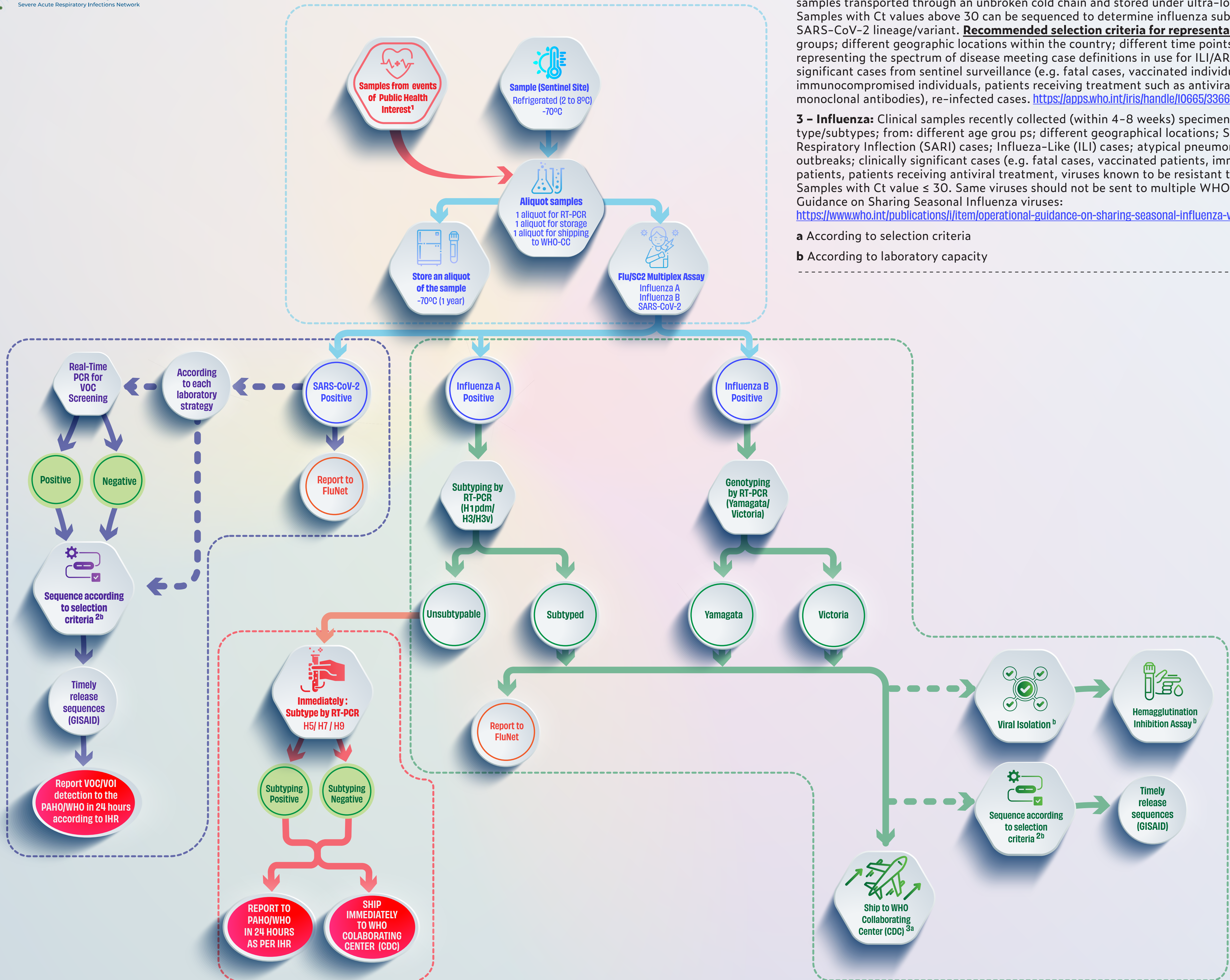
2 – **Recommended clinical samples based on laboratory diagnostic:** samples with Ct values ≤ 25 ; samples transported through an unbroken cold chain and stored under ultra-low temperature. Samples with Ct values above 30 can be sequenced to determine influenza subtype/lineage and SARS-CoV-2 lineage/variant. **Recommended selection criteria for representativeness:** different age groups; different geographic locations within the country; different time points; patients representing the spectrum of disease meeting case definitions in use for ILI/ARI or SARI; clinically significant cases from sentinel surveillance (e.g. fatal cases, vaccinated individuals, immunocompromised individuals, patients receiving treatment such as antivirals, plasma therapy or monoclonal antibodies), re-infected cases. <https://apps.who.int/iris/handle/10665/336689>

3 – Other respiratory viruses testing conducted molecularly or by immunofluorescence according to the country surveillance strategy.

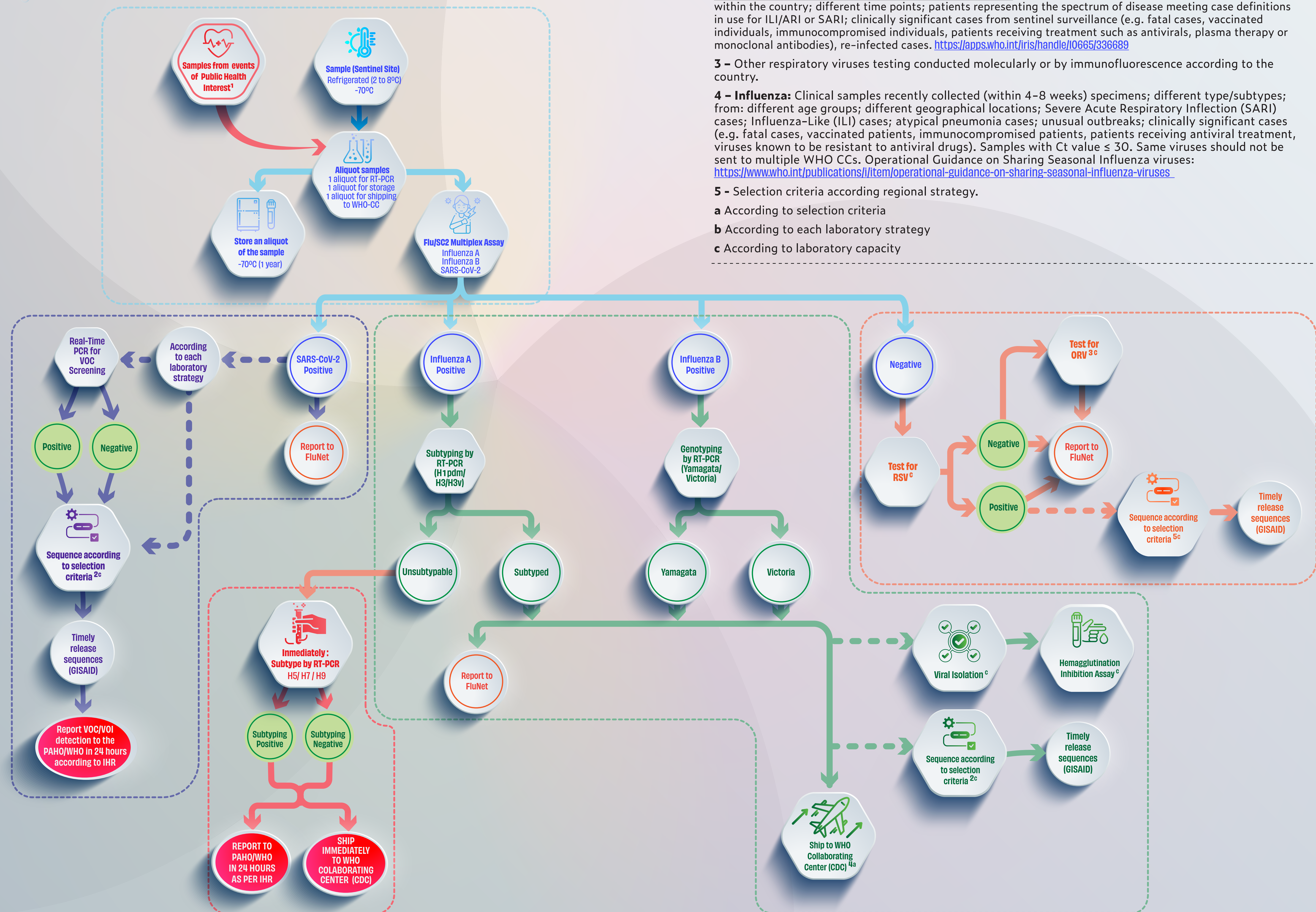
a According to selection criteria

b According to each laboratory strategy

2. NIC receiving Influenza and SARS-CoV-2 positive samples tested at sentinel sites



3. NIC testing for Influenza and SARS-CoV-2 using CDC multiplex assay



1 – Samples collected out of routine surveillance from events of public health interests. International Health Regulations: <https://www.who.int/publications/i/item/9789241580410?msclid=128025ecaabc11eca7819f61281e007b>

2 – Recommended clinical samples based on laboratory diagnostic: samples with Ct values ≤ 25 ; samples transported through an unbroken cold chain and stored under ultra-low temperature. Samples with Ct values above 30 can be sequenced to determine influenza subtype/lineage and SARS-CoV-2 lineage/variant.

Recommended selection criteria for representativeness: different age groups; different geographic locations within the country; different time points; patients representing the spectrum of disease meeting case definitions in use for ILI/ARI or SARI; clinically significant cases from sentinel surveillance (e.g. fatal cases, vaccinated individuals, immunocompromised individuals, patients receiving treatment such as antivirals, plasma therapy or monoclonal antibodies), re-infected cases. <https://apps.who.int/iris/handle/10665/336689>

3 – Other respiratory viruses testing conducted molecularly or by immunofluorescence according to the country.

4 – Influenza: Clinical samples recently collected (within 4–8 weeks) specimens; different type/subtypes; from: different age groups; different geographical locations; Severe Acute Respiratory Inflection (SARI) cases; Influenza-Like (ILI) cases; atypical pneumonia cases; unusual outbreaks; clinically significant cases (e.g. fatal cases, vaccinated patients, immunocompromised patients, patients receiving antiviral treatment, viruses known to be resistant to antiviral drugs). Samples with Ct value ≤ 30 . Same viruses should not be sent to multiple WHO CCs. Operational Guidance on Sharing Seasonal Influenza viruses: <https://www.who.int/publications/i/item/operational-guidance-on-sharing-seasonal-influenza-viruses>

5 – Selection criteria according regional strategy.

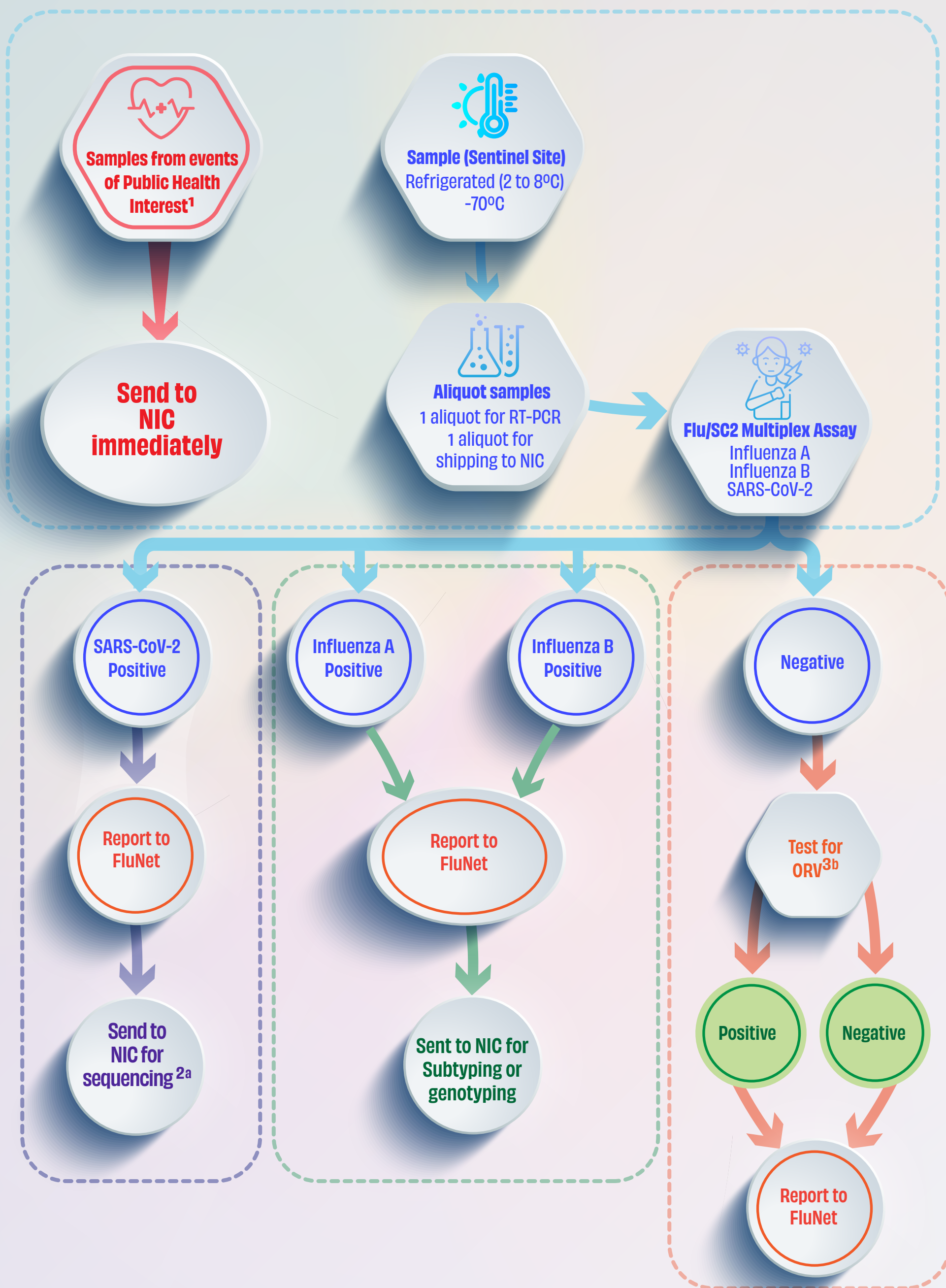
a According to selection criteria

b According to each laboratory strategy

c According to laboratory capacity

Influenza and SARS-CoV-2 Integrated Surveillance LABORATORY TESTING ALGORITHM

I. Sentinel site laboratories conducting Influenza and SARS-CoV-2 testing.



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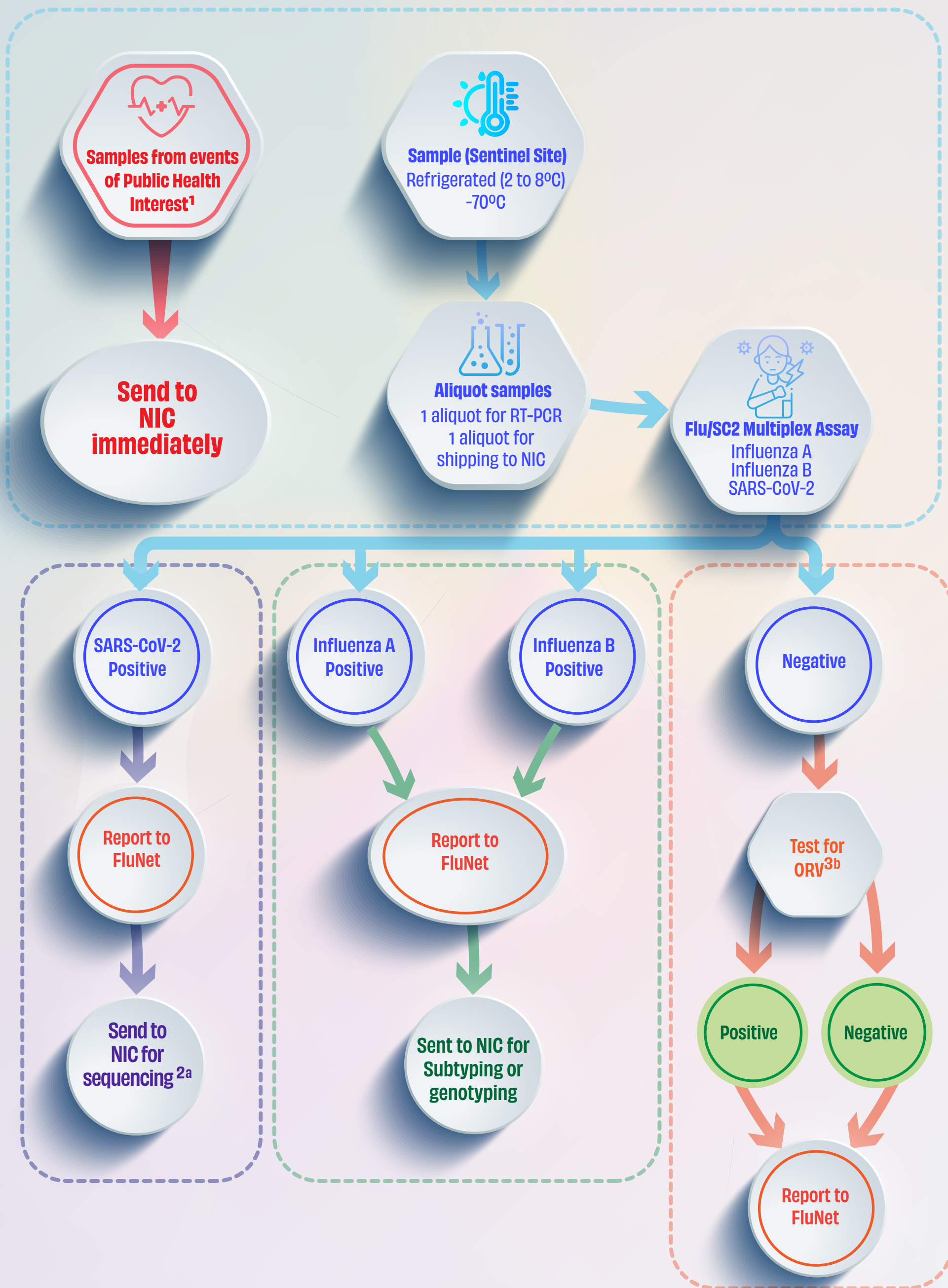
3 – Other respiratory viruses testing conducted molecularly or by immunofluorescence according to the country surveillance strategy.

a According to selection criteria

b According to each laboratory strategy

Influenza and SARS-CoV-2 Integrated Surveillance LABORATORY TESTING ALGORITHM

I. Sentinel site laboratories conducting Influenza and SARS-CoV-2 testing.



1 – Samples collected out of routine surveillance from events of public health interests. International Health Regulations 2005: <https://www.who.int/publications/i/item/9789241580410?msclid=128025ecaabclleca7819f61281e007b>

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3 – Other respiratory viruses testing conducted molecularly or by immunofluorescence according to the country surveillance strategy.

a According to selection criteria

b According to each laboratory strategy