Inter-federal workgroup testing and tracing

Process flows

May 30, 2020

Author: Inter-federal Committee testing and tracing
Key steps for contact investigation

1. Report case
2. Identify and list contact(s)
3. Advise and manage contact(s)
1: Report case
Final data flow design deployed by Sciensano

Patient's PCR sample prescribed by hospitals and tested in hospital lab

Patient's PCR sample sent by triage center

Patient's PCR sample sent by GP (or by triage center, but prescribed by GP)

Patient's PCR sample sent by GP (or by triage center, but prescribed by GP)

Sample tested in lab that provides information to Sciensano

Sample tested in lab that does not provide information to Sciensano

Lab sends results to GP/DMG

Lab sends results to DMG

Doctor who tested re-evaluates negatives results based on patient clinical data and history

Lab sends results to GP/DMG

Lab sends results to DMG

Triage center, hospital, or GP wants to launch contact tracing immediately OR identifies likely case that i) cannot be tested (death), or ii) does not want to be tested

Doctor who tested re-evaluates negatives results based on patient clinical data and history

Call Center database

Regional database Health Inspection

Research database epidemiology

1. Dossier Medical Global

1. Message: LaboratoryTestPrescription
2. Message: LaboratoryTestPrescription + LaboratoryTestResult (+/-)
3. Message: ResultFlagsSuspicionFalseNegativeTest
4. Message: AlertSuspectedCaseNoTestPerformed
1: Report case – GP’s perspective

Huisarts

Patiënt contacteert huisarts. Vermoeden COVID-19

Besluit tot PCR test
Toelichting protocol
Elektronisch formulier 1 invullen

Lokale afspraak om bij mogelijke COVID-19 via de triage-plaats te werken?

nee

ja

Huisarts beschikt over beschermings- en testmaterialen?

ja

neu

Staat nemen voor PCR
Opsturen staal naar labo

Patiënt kan of wil niet getest worden

Sterke vermoedens van COVID-19. Besluit tot contactonderzoek. eFormulier 3 invullen

Huisarts evalueert resultaten opnieuw en klinische inschatting. Vermoeden vals-negatief?

ja

Huisarts deelt testresultaat met patiënt + aanbevelingen voor zelfisolatie en de opvolging van het protocol

neu

Huisarts deelt testresultaat met patiënt + ophoefen zelfisolatie

Testresultaat beschikbaar

Labo

COVID-19 Database

Ziekenhuis

Tragepost

Patient naar triagepost

Een pathologisch blijven

Standaard

Uitzonderlijk

Staal

Testresultaat

Overschrijven vals-negatief

Ontsprekend labo-resultaat
2: Identify and list contact(s)

GP informs patient ("index case") of test results, contact tracing procedure, and protocols

Call center reaches out to patient – If the patient cannot be reached within 2 days, (s)he receives a visit from a field agent as of day 3

Is patient part of a collectivity?

Call agent/field agent lists contacts of index case, records details (incl. categorization in high/low risk contact)

Is contact a household member who already received a quarantine certificate from GP?

Advise and manage contact (script 2)

No further action

Contact call/visit (Scripts 2.a / 2.b)

No

Collectivity call/visit (Script 1.b)

No further action

Yes

Call referentie-arts of collectivity or alternative point of contact; if collectivity cannot be reached within 2 days, a field agent is sent as of day 3

1. Patient receives attest voor werkontbekwaamheid for 7 days and is asked to self-isolate (in case the patient is a healthcare worker, self-isolation should continue until 7 days after the start of the first symptoms and at least 3 days without fever and improvement of respiratory systems); patient’s household members are put in quarantine for 14 days

2. For example, school, nursing home, child daycare, detention centre, etc.
3: Advise and manage contact(s) (1/2)
First contact call

Questions to contact

- **Is the contact symptomatic?**
  - **Yes**
    - **High or Low Risk?**
      - **High**
        - PCR Code prescribed
          - Contact gets in touch with GP
      - **Low**
        - No PCR test

- **Professional in regular close contact with fragile populations (health sector, social sector)?**
  - **Yes**
    - PCR Code prescribed
      - Contact gets in touch with GP
  - **No**
    - No PCR test

Resulting actions

- **Immediate PCR test**
- **PCR test on Day 11-13 (after last contact with index case)**
- **Call center prescribes quarantine certificate** for 14 days since the last contact with the suspected / confirmed case
- **Patient follows his symptoms for 14 days (and reports to his GP if becoming symptomatic)**
- **Enforced physical distancing**
- **Contact center PCR reminder call (if no results available within 48 hours after prescription has been sent)**

1. Patient is asked to self-isolate until test results are known; in case of a strong suspicion that the patient has COVID-19, household members are also asked to self-isolate until test results are known.
2. Call agent sends a PCR code to contact via SMS or dictates the PCR code in case the contact does not have a mobile phone.

Important: duration of quarantine certificate should be measured vs the day of last contact with the COVID-patient / suspected case.
3: Advise and manage contact(s) (2/2)

Contact follow up

Script 3.a: PCR follow-up call (symptomatic contacts)

1. PCR code has not been validated within 2 days
2. Call center reaches out to patient
   - Answer within 2 days
     - Call center reminds patient to take PCR test as soon as possible
     - No answer within 2 days
       - No further action

Script 3.b: Symptoms follow-up call with High Risk Asymptomatic contacts

1. Asymptomatic High risk patient
2. Call center calls every 3 days for a period of 14 days to ensure contact has no symptoms
   - Answer
     - Is contact symptomatic?
       - Yes
         - Follow process for symptomatic contact
       - No
         - No further action (call back 3 days later)
   - No answer
     - Call back the following day

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1. Measuring from the last day of contact with the Index patient
**Contact center – Data flow**

1. **Message:** LaboratoryTestPrescription
2. **Message:** LaboratoryTestPrescription + LaboratoryTestResult (+/-)
3. **Message:** ResultFlagsSuspicionFalseNegativeTest
4. **Message:** AlertSuspectedCaseNoTestPerformed

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* Only if labo does not report results to COVID-19 Database

§ Only if GP does not take sample him/herself

# With sample

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1. **Hospital**
2. **Triage post**
3. **Labo**
4. **COVID-19 Database**
5. **ConsultRN**
6. **CoBRHA**
7. **DMG DB**
8. **GP/DMG**

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# With sample