Begin forwarded message:

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From: "Dr. Eva K Lee"
                                           (b) (6) >
Date: February 23, 2020 at 7:37:12 AM EST
                                       (b) (6)>
To: Carter Mecher
Cc: Richard Hatchett
                                             (b) (6) >, Tracey McNamara
                         (b) (6) >, "Caneva, Duane" <
                                         (b) (6) >, "Dodgen, Daniel (OS/ASPR/SPPR)"
                        (b) (6)>, "DeBord, Kristin (OS/ASPR/SPPR)"
                     (b) (6) >, "Phillips, Sally (OS/ASPR/SPPR)"
                                                                                  (b) (6)>,
David Marcozzi
                                              (b) (6) >, "Hepburn, Matthew J CIV USARMY
(USA)"
                                      (b) (6) >, Lisa Koonin
                                                                              (b) (6) "Walters,
William (STATE.GOV)"
                                           (b) (6) >, "HARVEY, MELISSA"
                          (b) (6), "WOLFE, HERBERT"
                                                                                 (b) (6) >,
"Eastman, Alexander"
                                                     (b) (6) >, "EVANS, MARIEFRED"
                                       (b) (6), "Callahan, Michael V., M.D."
                                                                                  (b) (6)
                                                  >, "Johnson, Robert (OS/ASPR/BARDA)"
                      (b) (6) >, "Yeskey, Kevin"
                                                                    (b) (6), "Disbrow, Gary
                                         (b) (6) >, "Redd, Johnt(OS/ASPR/SPPR)"
(OS/ASPR/BARDA)"
                 (b) (6) >, "Hassell, David (Chris) (OS/ASPR/IO)" <
                                                     (b) (6) >, "Dean, Charity A@CDPH"
"Hamel, Joseph (OS/ASPR/IO)"
                        (b) (6) >, "Lawler, James V"
                                                                          (b) (6), "Kadlec,
Robert (OS/ASPR/IO)"
                                              (b) (6) "'Martin, Gregory J
                                          (b) (6) >, "Borio, Luciana"
                                                                                 (b) (6)
                                  (b) (6) "McDonald, Eric"
"Hanfling, Dan"
                                (b) (6) "Wade, David"
"TARANTINO, DAVID A"
                                                      (b) (6) >, "WILKINSON, THOMAS"
                                (b) (6) >, "David Gruber
                                                                                  (b) (6) "
                           (b) (6) >, "KAUSHIK, SANGEETA"
Nathaniel Hupert
                                           (b) (6) >
Subject: RE: Red Dawn Breaking, COVID-19 Collaborative, Feb 16 start
Reply-To: "Dr. Eva K Lee"
                                               (b) (6)>
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A few things I want to highlight --

- 1. **Means of spread** A study from AMA confirmed many of the parameters assumed in our models:
- A 20-year old infected with COVID-19 left Wuhan and went on infecting 5 relatives. When they tested positive, she was finally isolated, but tested negative still, and later tested positive, and remain normal on chest CT with no fever, stomach or respiratory symptoms (cough or sore throat as late as Fen 11 (time of the papert study duration).

So spreading and its wide scope is unavoidable because there exists these very healthy individuals who can spread effectively -- even during incubation period -- while they remain perfectly healthy. It also showcases difficulty in testing -- negative test -- may not be the end of it.