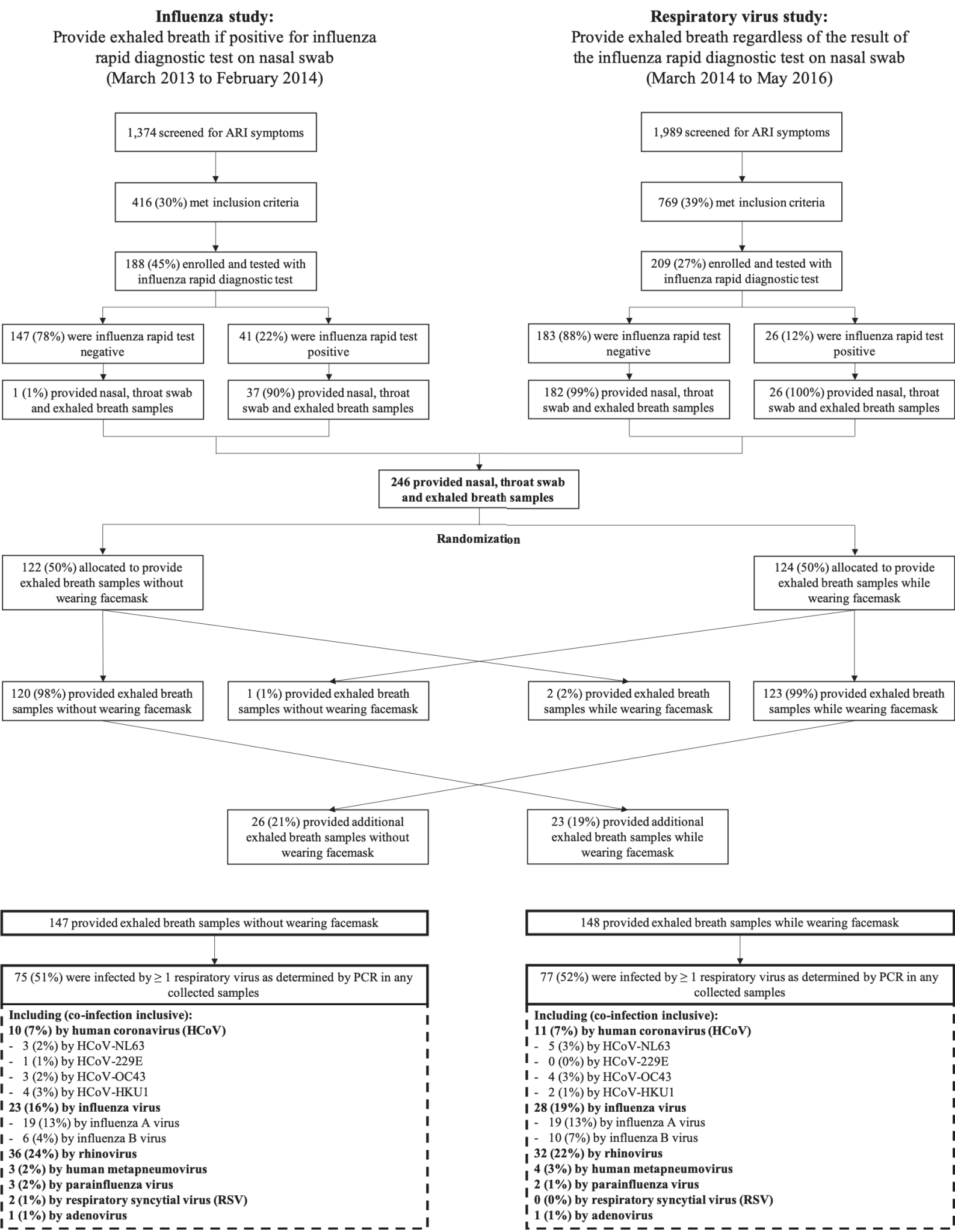
Influenza study:
Provide exhaled breath if positive for influenza rapid diagnostic test on nasal swab
(March 2013 to February 2014)
Respiratory virus study:
Provide exhaled breath regardless of the result of the influenza rapid diagnostic test on nasal swab
(March 2014 to May 2016)
1,374 screened for ARI symptoms
416 (30%) met inclusion criteria
188 (45%) enrolled and tested with influenza rapid diagnostic test
147 (78%) were influenza rapid test negative
41 (22%) were influenza rapid test positive
1 (1%) provided nasal, throat swab and exhaled breath samples
37 (90%) provided nasal, throat swab and exhaled breath samples
1,989 screened for ARI symptoms
769 (39%) met inclusion criteria
209 (27%) enrolled and tested with influenza rapid diagnostic test
183 (88%) were influenza rapid test negative
26 (12%) were influenza rapid test positive
182 (99%) provided nasal, throat swab and exhaled breath samples
26 (100%) provided nasal, throat swab and exhaled breath samples
246 provided nasal, throat swab and exhaled breath samples
Randomization
122 (50%) allocated to provide exhaled breath samples without wearing facemask
124 (50%) allocated to provide exhaled breath samples while wearing facemask
120 (98%) provided exhaled breath samples without wearing facemask
1 (1%) provided exhaled breath samples without wearing facemask
2 (2%) provided exhaled breath samples while wearing facemask
123 (99%) provided exhaled breath samples while wearing facemask
26 (21%) provided additional exhaled breath samples without wearing facemask
23 (19%) provided additional exhaled breath samples while wearing facemask
147 provided exhaled breath samples without wearing facemask
75 (51%) were infected by ≥ 1 respiratory virus as determined by PCR in any collected samples
Including (co-infection inclusive):
10 (7%) by human coronavirus (HCoV)
- 3 (2%) by HCoV-NL63
- 1 (1%) by HCoV-229E
- 3 (2%) by HCoV-OC43
- 4 (3%) by HCoV-HKU1
23 (16%) by influenza virus
- 19 (13%) by influenza A virus
- 6 (4%) by influenza B virus
36 (24%) by rhinovirus
3 (2%) by human metapneumovirus
3 (2%) by parainfluenza virus
2 (1%) by respiratory syncytial virus (RSV)
1 (1%) by adenovirus
148 provided exhaled breath samples while wearing facemask
77 (52%) were infected by ≥ 1 respiratory virus as determined by PCR in any collected samples
Including (co-infection inclusive):
11 (7%) by human coronavirus (HCoV)
- 5 (3%) by HCoV-NL63
- 0 (0%) by HCoV-229E
- 4 (3%) by HCoV-OC43
- 2 (1%) by HCoV-HKU1
28 (19%) by influenza virus
- 19 (13%) by influenza A virus
- 10 (7%) by influenza B virus
32 (22%) by rhinovirus
4 (3%) by human metapneumovirus
2 (1%) by parainfluenza virus
0 (0%) by respiratory syncytial virus (RSV)
1 (1%) by adenovirus