

1 **Supplementary tables and captions**

2 **Table S1.** Tests and hospitalizations for RSV in Danish adults, seasons 2015/16-2017/18

3 **Table S2.** Positive RSV tests among hospitalized patients in diagnostic groups between 2015/16-17/18

4 **Table S3.** The age distribution of the attributable proportion of RSV-coded hospitalizations among RTI-coded
5 hospitalizations with a positive RSV test.

6 **Table S4.** The seasonally change in the number of conducted RSV tests and RSV-associated hospitalization

7 **Table S1.**

| Positive RSV tests (n) | RTI-diagnosed hospitalizations with a positive RSV test (n) | RSV-positive test with an RTI-diagnosis (%) | Hospitalizations with an RSV diagnosis (n) | RSV-diagnosed hospitalizations with a positive RSV test (n%) | RTI-hospitalizations without RSV diagnosis with a positive RSV test (n) | RTI-hospitalizations with a positive RSV test admitted with an RSV diagnosis (%) |
|-------------------------------|--|--|---|---|--|---|
| 2530 | 990 | 39.0% | 440 | 420 (95.5%) | 570 | 42.4 % |

Data are presented as actual numbers or percentage. RTI: Respiratory tract infection. RSV: Respiratory syncytial virus.

8 **Table S2.**

| Diagnostic group of respiratory tract infection and ICD-10 codes | Hospitalizations with RTI diagnosis (n) | RTI hospitalizations with a positive RSV test (%) | RTI hospitalization with a positive RSV test without RSV diagnosis (%) |
|---|--|--|---|
| RSV (J121, J205, J210, B974) | 440 | 420 (95.5) | 0 (0%) |
| Acute upper respiratory infection (J00-J06) | 7483 | 31 (0.4) | 30 (0.4%) |
| Influenza and pneumonia (J09-J18) | 149544 | 637 (0.4) | 517 (0.3%) |
| Bronchitis (J20-J21) | 2270 | 78 (3.3) | 13 (0.6%) |
| Unspecified acute lower respiratory infection (J22) | 3129 | 12 (0.3) | 10(0.3%) |

Data are presented as n, n (%). RTI: Respiratory tract infection. RSV: Respiratory syncytial virus. The RTI-hospitalized are linked to a positive RSV test occurring within ± 30 days of admission). Note: The diagnostic groups listed include RSV-specific ICD-10 codes.

9 **Table S3.**

| Age groups | Observed RSV-coded hospitalization rate n/N (%) |
|--|---|
| 18-45 | 39/99 (39.4%) |
| 46-65 | 83/187 (44.4%) |
| 66-75 | 119/279 (42.7%) |
| 75+ | 179/425 (42.1%) |
| Data are presented as n, n (%). RTI: Respiratory tract infection. RSV: Respiratory syncytial virus. The RTI-hospitalized are linked to a positive RSV test occurring within ± 30 days of admission). | |

10 **Table S4.**

| Seasons | RSV test conducted (n) | Positive test (n) | Positive percentage (%) | RSV-coded hospitalizations (n) | RTI-coded hospitalization with a positive test (n) |
|---|------------------------|-------------------|-------------------------|--------------------------------|--|
| 15/16 | 11320 | 470 | 4.15% | 73 | 205 |
| 16/17 | 14643 | 653 | 4.45% | 129 | 282 |
| 17/18 | 33401 | 1407 | 4.21% | 238 | 503 |
| Total | 59364 | 2530 | 4.3% | 440 | 990 |
| Data are presented as actual numbers or percentage. RTI: Respiratory tract infection. RSV: Respiratory syncytial virus. | | | | | |