Online Supplementary Material to the letter to the editor: Mortality in Cold Agglutinin Disease shows seasonal pattern

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**Supplementary Table 1**
Baseline characteristics and observation time measures of included patients and comparators groups

| Group          | n   | Mean age at diagnosis, years [95% CI] | Women, % [95% CI] | Mean observation time, years | Total observation time, years |
|----------------|-----|--------------------------------------|-------------------|-----------------------------|-------------------------------|
| CAD            | 114 | 68.4 [65.6; 71.1]                    | 50.9% [41.3; 60.4] | 4.6                         | 528                           |
| CAD comparator | 5,311| 67.4 [67.0; 67.8]                    | 51.8% [50.4; 53.1] | 5.6                         | 29,961                        |
| AIHA           | 2,889| 62.2 [61.4; 63.0]                    | 55.3% [53.5; 57.2] | 7.3                         | 21,153                        |
| AIHA comparator| 143,269| 62.0 [61.9; 62.1], 55.3% [55.0; 55.5] | 11.0             | 1,575,372                   |

Comparing the two patient-comparator set of cold agglutinin disease (CAD) and autoimmune hemolytic anemia (AIHA). Patients and comparators are age-sex matched within each disease category. 95% confidence intervals are presented in brackets.
### Supplementary Table 2

Hazard ratios of death by season amongst patients with cold agglutinin disease, autoimmune hemolytic anemia or comparators

| Group                  | Season | Unadjusted HR | Adjusted HR |
|------------------------|--------|---------------|-------------|
| CAD comparator         | Spring | 1.0 [reference] | 1.0 [reference] |
|                        | Summer | 1.0 [reference] | 1.0 [reference] |
|                        | Autumn | 1.0 [reference] | 1.0 [reference] |
|                        | Winter | 1.0 [reference] | 1.0 [reference] |
| CAD                    | Spring | 1.1 [0.51; 2.39] | 0.9 [0.40; 1.87] |
|                        | Summer | 1.0 [reference] | 1.0 [reference] |
|                        | Autumn | 0.6 [0.24; 1.50] | 0.6 [0.24; 1.53] |
|                        | Winter | 3.2 [1.43; 7.18] | 4.5 [2.00; 10.08] |
| AIHA comparator        | Spring | 1.1 [0.91; 1.29] | 1.1 [0.96; 1.36] |
|                        | Summer | 1.0 [reference] | 1.0 [reference] |
|                        | Autumn | 1.0 [0.88; 1.23] | 1.2 [0.97; 1.36] |
|                        | Winter | 1.2 [0.97; 1.37] | 1.1 [0.96; 1.36] |
| AIHA                   | Spring | 1.0 [0.82; 1.27] | 1.0 [0.80; 1.23] |
|                        | Summer | 1.0 [reference] | 1.0 [reference] |
|                        | Autumn | 1.0 [0.79; 1.21] | 1.1 [0.90; 1.39] |
|                        | Winter | 1.1 [0.85; 1.31] | 1.0 [0.81; 1.25] |

Hazard ratios (HR) of death by season amongst patients with cold agglutinin disease (CAD) and age-sex matched comparators, further compared with patients with autoimmune hemolytic anemia (AIHA) and their age-sex matched comparators. Points estimates of HR are exponentiated coefficients from Cox proportional hazard regression, accompanying 95% confidence intervals are presented in brackets.