**Supplemental material**

**Table S1.- Case definition included in the National Clinical Guidelines**

|  |  |
| --- | --- |
| **Health problem** | **Medical diagnosis included ICD-10** |
| **Stroke** | Stroke (I63, I64) and transient ischemic attack (G45) |
| **Myocardial infarction** | Myocardial infarction (I21-I22) |
| **Gastric cancer** | Gastric cancer (C16) and Carcinoma in situ of stomach (D00.2) |
| **Colorectal cancer** | Malignant neoplasm of colon (C18), rectosigmoid junction (C19) and rectum (C20) |
| **Lymphoma** | Hodgkin lymphoma (C81), Follicular lymphoma (C82), Non-follicular lymphoma (C83), Mature T/NK-cell lymphomas (C84), and other specified and unspecified types of non-Hodgkin lymphoma (C85) |
| **Leukaemia** | Lymphoid leukaemia (C91), Myeloid leukaemia (C92), Monocytic leukaemia (C93), Other leukaemias of specified cell type (C94) and Leukemia of unspecified cell type (C95) |
| **Cervical cancer** | Malignant neoplasm of cervix uteri (C53), Dysplasia of cervix uteri (N87), and carcinoma in situ of cervix uteri (D06) |
| **Breast cancer** | Malignant neoplasm of the breast (C50) and carcinoma in situ of the breast (D05). |
| **Testis cancer** | Malignant neoplasm of testis (C62) |

**Table S2. Description of governmental COVID-19 control measures by date**

|  |  |
| --- | --- |
| **Date** | **Control measures** |
| **March 3rd** | First confirmed COVID case |
| **March 13th** | Isolation of confirmed cases in schools and preventive quarantine for contacts  Public employees over 75 years old, or who have a medical condition, will be able to work from home  Public events restrictions (<500 persons)  Border control: mandatory quarantine for people arriving from high-risk countries. |
| **March 15th** | Schools closure (nursery schools, municipal, subsidised private, and private schools)  Recommended remote work for non-essential workers.  Restricted access to long-term care facilities.  Day care centres and community centres for seniors are suspended.  Public events restrictions (<200 persons).  Hygiene measures reinforced in transportation.  Border control: cruise ships landfall prohibition |
| **March 18th** | State of catastrophe declaration.  Border control: border closure for foreigners and mandatory quarantine for Chilean nationals and permanent residents. |
| **March 20th** | Preventive lockdown in three sectors of the capital. |
| **March 22nd** | Nationwide night-time curfew |
| **March 26th** | Lockdown in 7 cities (1.3 million inhabitants) |
| **March 28th** | Lockdown in Temuco and Padre Las Casas |
| **March 30th** | Lockdown in Chillán, Chillán Viejo and Osorno |
| **April 1st** | Lockdown in Punta Arenas and Eastern Island. |
| **April 9th** | Suspension of maximum waiting time in some diseases included in the Universal Access Plan |

**Table S3. Complete unadjusted and adjusted model for cardiovascular diseases**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **All cardiovascular** | | **Stroke** | | **Myocardial infarction** | |
|  | **Model 1** | **Model 2** | **Model 1** | **Model 2** | **Model 1** | **Model 2** |
| **DID** | 0·61 | 0·64 | 0·67 | 0·72 | 0·59 | 0·62 |
| 0·59-0·63 | 0·62-0·66 | 0·64-0·71 | 0·68-0·76 | 0·57-0·61 | 0·60-0·64 |
| \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* |
| **Interaction between DID and sex** | - | 0·89 | - | 0·88 | - | 0·89 |
| - | 0·86-0·92 | - | 0·82-0·93 | - | 0·85-0·93 |
| - | \*\*\* | - | \*\*\* | - | \*\*\* |
| **Group** | 1·05 | 1·05 | 1·11 | 1·11 | 1·03 | 1·03 |
| 1·03-1·07 | 1·02-1·07 | 1·07-1·16 | 1·07-1·16 | 1·00-1·06 | 1·00-1,06 |
| \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\* | \*\* |
| **Period** | 1·07 | 1·07 | 1·14 | 1·14 | 1·05 | 1·05 |
| 1·02-1·13 | 1·02-1·13 | 1·03-1·25 | 1·03-1·25 | 0·99-1·12 | 0·99-1·12 |
| \*\* | \*\* | \*\*\* | \*\*\* | \* | \* |
| **Men** | REF | REF | REF | REF | REF | REF |
| **Women** | 0·80 | 0·81 | 0·79 | 0·80 | 0·80 | 0·81 |
| 0·79-0·80 | 0·80-0·81 | 0·77-0·81 | 0·78-0·82 | 0·79-0·81 | 0·80-0,82 |
| \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* |
| **20 - 29 years** | REF | REF | REF | REF | REF | REF |
| **30 - 39 years** | 1·40 | 1·40 | 2·00 | 2·00 | 1·35 | 1·35 |
| 1·37-1·44 | 1·37-1·44 | 1·82-2·19 | 1·82-2·19 | 1·31-1·39 | 1·31-1·39 |
| \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* |
| **40 - 49 years** | 2·09 | 2·09 | 4·25 | 2·25 | 1·89 | 1·89 |
| 2·03-2·14 | 2·03-2,14 | 3·90-4·63 | 3·90-4·62 | 1·84-1·95 | 1·84-1·95 |
| \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* |
| **50 - 59 years** | 3·07 | 3·07 | 8·33 | 8·33 | 2·60 | 2·60 |
| 3·00-3·14 | 3·00-3·14 | 7·70-9·00 | 7·70-9·00 | 2·54-2·67 | 2·54-2·67 |
| \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* |
| **60 – 69 years** | 4·73 | 4·73 | 16·30 | 16·30 | 3·70 | 3·70 |
| 4·62-4·85 | 4·62-4·85 | 15·06-17·64 | 15·06-17·64 | 3·61-3·80 | 3·60-3·80 |
| \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* |
| **70 – 79 years** | 7·29 | 7·29 | 29·68 | 29·68 | 5·29 | 5·29 |
| 7·12-7·46 | 7·12-7·46 | 27·44-32·09 | 27·44-32·09 | 5·15-5·44 | 5·15-5·44 |
| \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* |
| **80 and older** | 10·18 | 10·18 | 48·32 | 48·33 | 6·78 | 6·78 |
| 9·93-10·44 | 9·93-10·44 | 44·70-52·29 | 44·72-52·23 | 6·59-6·98 | 6·59-6·98 |
| \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* |
| **AIC** | 12067·03 | 12024·06 | 9681·24 | 9666·94 | 11607·37 | 11575·8 |

Model 1 Difference in difference adjusted by sex, age, population size, population age-sex structure and seasonality (week and year). Model 2 includes an interaction term between DID estimator and sex. \* p<0,10. \*\* p<0,05 \*\*\*p<0,001

**Table S4. Complete unadjusted and adjusted model for oncologic diseases [1]**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **All cancer** | | **All cancer (excluding sex-specific cancers)** | | **Gastric cancer** | |
|  | **Model 1** | **Model 2** | **Model 1** | **Model 2** | **Model 1** | **Model 2** |
| **DID** | 0·48 | 0·56 | 0·36 | 0·41 | 0·35 | 0·38 |
| 0·43-0·54 | 0·50-0·63 | 0·34-0·39 | 0·37-0·45 | 0·31-0·39 | 0·33-0·44 |
| \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* |
| **Interaction between DID and sex** | - | 0·76 | - | 0·81 | - | 0·86 |
| - | 0·67-0·86 | - | 0·72-0·91 | - | 0·72-1·03 |
| - | \*\*\* | - | \*\*\* | - |  |
| **Group** | 1·35 | 1·35 | 1·41 | 1·41 | 1·02 | 1·02 |
| 1·24-1·47 | 1·24-1·47 | 1·33-1·49 | 1·34-1,49 | 0·94-1·11 | 0·94-1·11 |
| \*\*\* | \*\*\* | \*\*\* | \*\*\* |  |  |
| **Period** | 1·42 | 1·42 | 1·51 | 1·51 | 1·19 | 1·19 |
| 1·20-1·69 | 1·20-1·69 | 1·30-1·76 | 1·30-1·75 | 1·00-1·43 | 1·00-1·43 |
| \*\*\* | \*\*\* | \*\*\* | \*\*\* | \* | \* |
| **Men** | REF | REF | REF | REF | REF | REF |
| **Women** | 3·14 | 3·26 | 1·07 | 1·09 | 1·18 | 1·20 |
| 2·99-3·30 | 3·09-3·43 | 1·04-1·10 | 1·06-1·12 | 1·13-1·23 | 1·15-1·25 |
| \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* |
| **20 - 29 years** | REF | REF | REF | REF | - | - |
| **30 - 39 years** | 1·42 | 1·42 | 1·63 | 1·63 | - | - |
| 1·30-1·56 | 1·30-1·56 | 1·49-1·79 | 1·49-1·79 | - | - |
| \*\*\* | \*\*\* | \*\*\* | \*\*\* | - | - |
| **40 - 49 years** | 2·14 | 2·14 | 5·68 | 5·68 | REF | REF |
| 1·99-2·30 | 1·99-2·30 | 5·22-6·17 | 5·23-6·16 | - | - |
| \*\*\* | \*\*\* | \*\*\* | \*\*\* | - | - |
| **50 - 59 years** | 2·25 | 2·25 | 10·27 | 10·27 | 1·69 | 1·69 |
| 2·10-2,42 | 2·10-2·41 | 9·49-11·11 | 9·49-11·11 | 1·57-1·81 | 1·57-1·81 |
| \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* |
| **60 – 69 years** | 2·89 | 2·90 | 16·82 | 16·82 | 2·71 | 2·71 |
| 2·67-3·13 | 2·68-3·14 | 15·58-18·16 | 15·58-18·16 | 2·54-2·89 | 2·54-2·89 |
| \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* |
| **70 – 79 years** | 3·78 | 3·79 | 27·71 | 27,719 | 3·98 | 3·98 |
| 3·43-4·16 | 3·45-4·18 | 25·68-29·91 | 25,687-29,912 | 3·73-4·26 | 0·73-4·26 |
| \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* |
| **80 and older** | 3·25 | 3·27 | 25·95 | 25·95 | 3·30 | 3·30 |
| 2·91-3·64 | 2·92-3·66 | 23·87-28·20 | 23·87-28·22 | 3·02-3·62 | 3·02-3·62 |
| \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* |
| **AIC** | 12815·2 | 12800·17 | 8924·01 | 8908·15 | 6248·33 | 6246·52 |

Model 1 Difference in difference adjusted by sex, age, population size, population age-sex structure and seasonality (week and year). Model 2 includes an interaction term between DID estimator and sex. \* p<0,10. \*\* p<0,05 \*\*\*p<0,001

**Table S4. Complete unadjusted and adjusted model for oncologic diseases [2]**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Colorectal cancer** | | **Lymphoma** | | **Leukaemia** | |
|  | **Model 1** | **Model 1** | **Model 1** | **Model 2** | **Model 1** | **Model 2** |
| **DID** | 0·31 | 0·31 | 0·65 | 0·70 | 0·46 | 0·49 |
| 0·28-0·34 | 0·28-0·34 | 0·56-0·77 | 0·57-0·85 | 0·36-0·58 | 0·36-0·66 |
| \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* |
| **Interaction between DID and sex** | - | - | - | 0·87 | - | 0·88 |
| - | - | - | 0·70-1·08 | - | 0·62-1·24 |
| - | - | - |  | - |  |
| **Group** | 2·14 | 2·14 | 1·10 | 1·10 | 1·14 | 1·14 |
| 1·99-2·29 | 1·99-2·29 | 0·97-1·25 | 0·97-1·25 | 0·97-1·34 | 0·97-1·34 |
| \*\*\* | \*\*\* |  |  |  |  |
| **Period** | 2·18 | 2·18 | 1·14 | 1·14 | 1·45 | 1·45 |
| 1·81-2·64 | 1·81-2·64 | 0·87-1·50 | 0·87-1·50 | 0·98-2·12 | 0·98-2·12 |
| \*\*\* | \*\*\* |  |  | \* | \* |
| **Men** | REF | REF | REF | REF | REF | REF |
| **Women** | 1·06 | 1·06 | 0·81 | 0·82 | 0·86 | 0·87 |
| 1·02-1·11 | 1·02-1·11 | 0·76-0·86 | 0·77-0·88 | 0·79-0·94 | 0·79-0·95 |
| \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* |
| **20 - 29 years** | REF | REF | REF | REF | REF | REF |
| **30 - 39 years** | 2·51 | 2·51 | 1·26 | 1·26 | 1·05 | 1·05 |
| 2·15-2·92 | 2·15-2·92 | 1·09-1·45 | 1·09-1·45 | 0·83-1·33 | 0·83-1·33 |
| \*\*\* | \*\*\* | \*\*\* | \*\*\* |  |  |
| **40 - 49 years** | 7·84 | 7·84 | 1·62 | 1·62 | 1·66 | 1·66 |
| 6·84-8·98 | 6·84-8·98 | 1·41-1·85 | 1·41-1·85 | 1·34-2·06 | 1·34-2·06 |
| \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* |
| **50 - 59 years** | 16·64 | 16·64 | 2·29 | 2·29 | 2·96 | 2·96 |
| 14·63-19·94 | 14·63-19·94 | 2·02-2·60 | 2·02-2·60 | 2·43-3·61 | 2·43-3·61 |
| \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* |
| **60 – 69 years** | 26·71 | 26·71 | 4·24 | 4·24 | 5·43 | 5·43 |
| 23·53-30·32 | 23·53-30·32 | 3·76-4·79 | 3·76-4·79 | 4·50-6·54 | 4·50-6·54 |
| \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* |
| **70 – 79 years** | 52·18 | 52·18 | 5·59 | 5·59 | 9·08 | 9·08 |
| 46·00-59·18 | 46·00-59·18 | 4·93-6·34 | 4·93-6·34 | 7·56-10·91 | 7·56-10·92 |
| \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* |
| **80 and older** | 52·87 | 52·87 | 4·35 | 4·35 | 10·91 | 10·91 |
| 46·41-60·23 | 46·41-60·23 | 3·76-5·03 | 3·76-5·04 | 8·97-13·28 | 8·97-13·28 |
| \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* |
| **AIC** | 7226·23 | 7226·23 | 5168·57 | 5169·06 | 3875·40 | 3876·83 |

Model 1 Difference in difference adjusted by sex, age, population size, population age-sex structure and seasonality (week and year). Model 2 includes an interaction term between DID estimator and sex. \* p<0,10. \*\* p<0,05 \*\*\*p<0,001

**Table S5. Complete unadjusted and adjusted model for oncologic diseases [3]**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Cervical cancer** | **Breast cancer** | **Testicular cancer** |
|  | **Model 1** | **Model 1** | **Model 1** |
| **DID** | 0·34 | 0·40 | 0·50 |
| 0·30-0·37 | 0·37-0·43 | 0·38-0·65 |
| \*\*\* | \*\*\* | \*\*\* |
| **Interaction between DID and sex** | - | - | - |
| - | - | - |
| - | - | - |
| **Group** | 1·37 | 1·24 | 1·20 |
| 1·30-1·46 | 1·18-1·30 | 0·98-1·45 |
| \*\*\* | \*\*\* | \* |
| **Period** | 1·51 | 1·59 | 1·31 |
| 1·30-1·76 | 1·36-1·87 | 0·95-1·81 |
| \*\*\* | \*\*\* | \* |
| **Men** | - | - | - |
| **Women** | - | - | - |
| - | - | - |
| - | - | - |
| **20 - 29 years** | REF | REF | REF |
| **30 - 39 years** | 1·40 | 1·85 | 0·96 |
| 1·34-1·46 | 1·73-1·98 | 0·83-1·10 |
| \*\*\* | \*\*\* |  |
| **40 - 49 years** | 1·10 | 4·40 | 0·68 |
| 1·05-1·15 | 4·14-4·68 | 0·59-0·78 |
| \*\*\* | \*\*\* | \*\*\* |
| **50 - 59 years** | 0·69 | 4·64 | 0·60 |
| 0·65-0·72 | 4·37-4·93 | 0·50-0·71 |
| \*\*\* | \*\*\* | \*\*\* |
| **60 – 69 years** | 0·42 | 4·75 | 0·68 |
| 0·40-0·45 | 4·46-5·06 | 0·57-0·82 |
| \*\*\* | \*\*\* | \*\*\* |
| **70 – 79 years** | 0·15 | 4·35 | 0·69 |
| 0·14-0·17 | 4·07-4·64 | 0·57-0·84 |
| \*\*\* | \*\*\* | \*\*\* |
| **80 and older** | 0·11 | 3·12 | 0·48 |
| 0·10-0·13 | 2·87-3·39 | 0·35-0·64 |
| \*\*\* | \*\*\* | \*\*\* |
| **AIC** | 4630·12 | 4725·43 | 2532·85 |

Model 1 Difference in difference adjusted by sex, age, population size, population age-sex structure and seasonality (week and year). \* p<0,10. \*\* p<0,05 \*\*\*p<0,001