| Table S1. | Detailed Definition | n of cataract and | l Adjustment I | Factors for | cataract of | observational st | udies |
|-----------|---------------------|-------------------|----------------|-------------|-------------|------------------|-------|
|-----------|---------------------|-------------------|----------------|-------------|-------------|------------------|-------|

| Study, year                   | Cataract definition   | Adjustment  |
|-------------------------------|---|---|
| Schlienger, 2001 <sup>1</sup> | Patients who had a first-time diagnosis of cataract(ICD-<br>8)followed by a referral to a specialist or by a hospitalization<br>because of cataract diagnosis, cataract surgery was identified by<br>Oxford Medical Information System procedure code 156 | age, sex, practice attended, calender time(by<br>matching), BMI, smoking, number of general<br>practitioner visit, corticosteroid use   |
| Smeeth, 2003 <sup>2</sup>     | Patients who had a first-time diagnosis of cataract(ICD-8).   | age, sex, observational period(by matching), smoking<br>habit; body mass index; diabetes mellitus; glaucoma;<br>hypertension; and exposure to aspirin, oestrogen (as<br>hormone replacement therapy) and systemic<br>corticosteroids, annual consultation rate  |
| Fong, 2012 <sup>3</sup>       | Patient who had cataract extraction, identified with the CPT (current procedural terminology) code 66982, 66983, or 66984.  | age, sex, ethnicity, coronary heart disease, diabetes, smoking  |
| Wise-BC, 2014 <sup>4</sup>    | A cataract was defined as the first date of an ophthalmologist<br>visit for cataract, and having a cataract surgical code within a<br>year of the date of this visit  | age, index date , follow-up years(by matching), sex<br>(for the BC cohort), diabetes, hypertension, glaucoma,<br>chronic obstructive pulmonary disease, uveitis, history<br>of cardiovascular or cerebrovascular disease (previous<br>history of stroke or myocardial infarction), and the<br>following prescription drugs: antipsychotics, oral<br>steroids, inhaled corticosteroids, and selective<br>serotonin reuptake inhibitors |
| Wise-IMS, 2014 <sup>4</sup>   | A cataract was defined as the first date of an ophthalmologist<br>visit for cataract, and having a cataract surgical code within a<br>year of the date of this visit  | age, index date , follow-up years(by matching),<br>diabetes, hypertension, glaucoma, chronic obstructive<br>pulmonary disease, uveitis, history of cardiovascular or<br>cerebrovascular disease (previous history of stroke or  |

|                           |  | myocardial infarction), and the following prescription<br>drugs: antipsychotics, oral steroids, inhaled<br>corticosteroids, and selective serotonin reuptake<br>inhibitors   |
|---------------------------|--|--|
| Erie, 2016 <sup>5</sup>   | Cataract and cataract surgery were retrospectively identified using the ICD-9 codes and CPT codes. | age,sex, diabetes, cardiovascular disease,<br>cerebrovascular disease, peripheral vascular disease,<br>renal disease, oral and inhaled steroid use, and<br>selective serotonin reuptake inhibitor use.               |
| Klein,2006 <sup>6</sup>   | Cataract was diagnosed by Wisconsin Cataract Grading System  | age, sex, total cholesterol, high-density lipoprotein cholesterol, smoking, and diabetes   |
| Tan, 2007 <sup>7</sup>    | Cataract was diagnosed by Wisconsin Cataract Grading System  | sex, total cholesterol, high-density lipoprotein cholesterol, smoking, obesity, and diabetes   |
| Cox, 2010 <sup>8</sup>    | Cataract was confirmed by patients' electronic records   | age <sup>3</sup> , age <sup>3</sup> ln(age), ln(bmi), bmi <sup>0.5</sup> , ethnicity, smoking, cardiovascular disease, type 1 diabetes, type 2 diabetes, rheumatoid arthritis, atrial fibrillation, corticosteroids; |
|                           |  | Cataract men: $age^3$ , $age^3 \ln(age)$ , $bmi^{-2}$ , $bmi^{-1}$ ,<br>Townsend score, ethnicity, smoking, cardiovascular<br>disease, type 1 diabetes, type 2 diabetes, atrial<br>fibrillation, corticosteroids     |
| Waudby, 2011 <sup>9</sup> | Cataract and cataract surgery were identified using the ICD-9 codes and CPT codes.                 | sex, diabetes, smoking, steroid use, BMI, HDL, antioxidant   |
| Lai, 2013 <sup>10</sup>   | Cataract surgery was identified by ICD-9 codes   | age, sex, diabetes mellitus under treatment,   |
|                           |  | hypertension undertreatment, Charlson Index such as  |

myocardial infarction, cerebrovascular disease, chronic pulmonary disease, renal disease, liver disease and malignancy, oral estrogen replacement therapy, corticosteroids, non-steroidal anti-inflammatory drugs, aspirin, proton pump inhibitors, H2 receptor antagonists, number of distinct prescription drugs dispensed, number of hospitalizations and number of physician visits were also included in the list of potential confounders.

age, sex, obesity, smoking, alcohol use, illicit drug use, glaucoma at baseline, vision defects/blindness, number of all admissions during baseline, number of all outpatient visits during baseline, and use of different classes of medications as listed in Table 1. mean lowdensity lipoprotein cholesterol.

Leuschen, 2014<sup>11</sup> Cataracts were difined using ICD-9 codes

| Quality<br>Assessment<br>criteria                 | Acceptable  | Schlienger<br>2001 <sup>1</sup> | Smeeth<br>2003 <sup>2</sup> | Fong<br>2012 <sup>3</sup> | Wise-BC<br>2014 <sup>4</sup> | Wise-IMS<br>2014 <sup>4</sup> | Erie<br>2016⁵ |
|---|---|---------------------------------|-----------------------------|---------------------------|------------------------------|-------------------------------|---------------|
| Selection   | Yes, with   |                                 |                             |                           |                              |                               |               |
| Is the case definition<br>adequate?               | independent<br>validation   | _                               | _                           | -                         | -                            | -                             | _             |
| Repsentiveness of cases?                          | Consecutive or<br>obviously<br>representative<br>series of cases                    | +                               | +                           | -                         | _                            | +                             | -             |
| Selection of controls?                            | Community controls  | +                               | +                           | +                         | +                            | +                             | +             |
| Definition of controls?                           | No history of<br>cataracts  | +                               | +                           | +                         | +                            | +                             | +             |
| Comparability<br>Study controls for age/sex       | Yes   | +                               | +                           | +                         | +                            | +                             | +             |
| Study controls for any other confounding factors? | Yes   | -                               | -                           | -                         | -                            | -                             | _             |
| Exposure<br>Ascertain of exposure?                | Secure record,<br>Structured<br>interview where<br>blind to case-<br>control status | +                               | +                           | +                         | +                            | +                             | +             |
| Same method of ascertainment of cases/controls?   | Yes   | +                               | +                           | +                         | +                            | +                             | +             |
| Nonresponse rate                                  | Same for both the groups  | +                               | +                           | +                         | +                            | +                             | +             |
| Overall quality score<br>(maximum=10)             | 5 1   | 7                               | 7                           | 6                         | 6                            | 7                             | 6             |

**Table S2.** NOS for Assessment of Quality of Included Studies: Case-Control Studies

| Quality assessment criteria                                | Acceptable  | Klein<br>2006 <sup>6</sup> | Tan<br>2007 <sup>7</sup> | Cox<br>2010 <sup>8</sup> | Waudby 2011 <sup>9</sup> | Lai<br>2013 <sup>10</sup> | Leuschen 2014 <sup>11</sup> |
|--|---|----------------------------|--------------------------|--------------------------|--------------------------|---------------------------|-----------------------------|
| Selection  | Representative of average   | +                          | _                        | +                        | +                        | +                         | -                           |
| Representativeness of exposed                              | adult in community  |                            |                          |                          |                          |                           |                             |
| cohort?  | (age/sex/being at risk of disease)  |                            |                          |                          |                          |                           |                             |
| Selection of the nonexposed cohort?                        | Drawn from same<br>community as exposed<br>cohort   | +                          | +                        | +                        | +                        | +                         | +                           |
| Ascertainment of exposure?                                 | Secured records, structured interview   | +                          | +                        | +                        | +                        | +                         | +                           |
| Demonstration that outcome of                              | Only incident cases of  | +                          | +                        | +                        | +                        | +                         | +                           |
| interest was not present at the start of                   | cataracts   |                            |                          |                          |                          |                           |                             |
| the study?   |   |                            |                          |                          |                          |                           |                             |
| Comparability  | Yes   | +                          | +                        | +                        | +                        | +                         | +                           |
| Study controls for age/sex                                 |   |                            |                          |                          |                          |                           |                             |
| Study controls for any other confounding factors?          | Yes   | -                          | _                        | -                        | -                        | -                         | -                           |
| Exposure   | Independent blind   | +                          | +                        | +                        | +                        | +                         | +                           |
| Assessment of outcomes?                                    | assessment record linkage   |                            |                          |                          |                          |                           |                             |
| Was follow-up evaluation long enough for outcome to occur? | Yes   | +                          | +                        | +                        | +                        | +                         | +                           |
| Adequacy of follow-up evaluation of cohorts                | Complete follow-up<br>evaluation, or subjects lost to<br>follow-up evaluation unlikely<br>to introduce bias | -                          | _                        | +                        | -                        | +                         | +                           |
| Overall quality score(maximum=10)                          |   | 7                          | 6                        | 8                        | 6                        | 8                         | 7                           |

 Table S3. NOS for Assessment of Quality of Included Studies: Cohort Studies

| Quality assessment criteria         | Laties 1991 <sup>12</sup> | Harris 1995 <sup>13</sup> | Pederson 1996 <sup>14</sup> | Bang 2015 <sup>15</sup> | Heart Protection Study 2015 <sup>16</sup> |
|-------------------------------------|---------------------------|---------------------------|-----------------------------|-------------------------|---|
| Random sequence generation          | -                         | +                         | +                           | -                       | +   |
| Allocation concealment              | +                         | +                         | +                           | -                       | +   |
| Blinding participants and personnel | +                         | -                         | +                           | +                       | +   |
| Blinding of outcome assessment      | +                         | -                         | -                           | -                       | -   |
| Incomplete outcome data             | -                         | +                         | +                           | +                       | +   |
| Selective reporting                 | +                         | +                         | +                           | +                       | +   |
| Other bias                          | +                         | +                         | +                           | +                       | +   |
| Overall quality score (maximum=7)   | 5                         | 5                         | 6                           | 5                       | 6   |

| Table S5. Subgrou | p analysis | of cohort | studies |
|-------------------|------------|-----------|---------|
|-------------------|------------|-----------|---------|

| Factor                     | Studies n | RR (95% CI)      | I <sup>2</sup> |
|----------------------------|-----------|------------------|----------------|
| Quality assessment         |           |                  |                |
| High (≥7)                  | 4         | 1.15(1.02-1.30)  | 92.8%          |
| Low (<7)                   | 2         | 0.83 (0.37-1.83) | 56.4%          |
| Study location             |           |                  |                |
| North America              | 3         | 1.05 (0.89-1.24) | 78.0%          |
| Europe                     | 1         |                  |                |
| Asia                       | 1         |                  |                |
| Australia                  | 1         |                  |                |
| Sex                        |           |                  |                |
| Male                       | 3         | 1.24 (1.12-1.37) | 64.0%          |
| Female                     | 2         | 1.30 (1.25-1.34) | 0%             |
| Outcome assessment         | _         |                  |                |
| ICD codes                  | 3         | 1.20 (1.14-1.25) | 0%             |
| Wisconsin Cataract Grading | 2         | 0.57 (0.40-0.81) | 0%             |
| System                     |           |                  |                |
| Outcome                    |           |                  |                |
| Cataract                   | 4         | 1.17 (1.03-1.34) | 82.6%          |
| Cataract surgery           | 1         |                  |                |
| Cataract and surgery       | 1         |                  |                |
| Age                        |           |                  |                |
| Older than 60 years        | 4         | 1.00 (0.82-1.22) | 82.6%          |
| No older than 60 years     | 2         | 1.28 (1.19-1.38) | 48.7%          |
| Follow-up duration         |           | . ,              |                |
| Less than 5 years          | 2         | 1.28(1.19-1.38)  | 48.7%          |
| 5 or more than 5 years     | 4         | 1.00(0.82-1.22)  | 82.6%          |

| Factor                             | Studies n | RR (95% CI)      | I <sup>2</sup> |
|------------------------------------|-----------|------------------|----------------|
| Whether LDL included               |           |                  |                |
| LDL included model                 | 3         | 0.75 (0.41-1.37) | 87.3%          |
| LDL missing model                  | 3         | 1.24 (1.15-1.34) | 82.1%          |
| Whether CVD included               |           |                  |                |
| CVD included model                 | 2         | 1.26(1.15-1.37)  | 88.4%          |
| CVD missing model                  | 4         | 0.96(0.75-1.22)  | 81.7%          |
| Whether smoking included           |           |                  |                |
| Smoking included model             | 5         | 1.13 (0.98-1.30) | 82.1%          |
| Smoking missing model              | 1         |                  |                |
| Whether consultation rate included |           |                  |                |
| consultation rate included model   | 2         | 1.20(1.14-1.26)  | 0%             |
| consultation rate missing model    | 4         | 1.01(0.81-1.27)  | 88.0%          |
| Whether hypertension included      |           |                  |                |
| Hypertension included model        | 2         | 1.26 (1.15-1.37) | 88.4%          |
| Hypertension missing model         | 4         | 1.01(0.82-1.25)  | 76.2%          |

| Factor               | Studies n | RR (95% CI)      | $I^2$ |
|----------------------|-----------|------------------|-------|
| Quality assessment   |           |                  |       |
| High (≥7)            | 3         | 1.07(1.04-1.10)  | 0%    |
| Low (<7 )            | 3         | 1.15 (0.96-1.37) | 95.9% |
| Study location       |           |                  |       |
| North America        | 4         | 1.13 (0.99-1.28) | 97.5% |
| Europe               | 2         | 1.02 (0.90-1.16) | 0%    |
| Outcome assessment   |           |                  |       |
| ICD codes            | 3         | 1.12 (0.94-1.33) | 77.1% |
| Medical records      | 2         | 1.17 (0.99-1.38) | 98.8% |
| Type of statins      |           |                  |       |
| Artovastatin         | 4         | 1.17 (1.04-1.31) | 90.0% |
| Fluvastatin          | 3         | 1.23 (0.96-1.56) | 53.1% |
| Lorvastatin          | 3         | 1.22 (1.07-1.39) | 74.1% |
| Pravastatin          | 3         | 1.23 (0.96-1.56) | 53.1% |
| Simvastain           | 4         | 1.13 (0.99-1.30) | 92.9% |
| Rosuvastatin         | 2         | 1.21 (0.89-1.65) | 94.2% |
| Outcome              |           |                  |       |
| Cataract surgery     | 3         | 1.16 (0.95-1.42) | 86.8% |
| Cataract and surgery | 2         | 1.13(0.97-1.31)  | 97.7% |
| Cataract             | 1         | 1.04(0.89-1.23)  |       |
| Whether CVD included |           |                  |       |
| CVD included model   | 4         | 1.17(1.04-1.31)  | 96.7% |
| CVD missing model    | 2         | 1.02(0.92-1.18)  | 0%    |

Table S6. Subgroup analysis of case-control studies

| Factor                             | Studies n | RR (95% CI)      | I <sup>2</sup> |
|------------------------------------|-----------|------------------|----------------|
| Whether smoking included           |           |                  |                |
| Smoking included model             | 3         | 1.03 (0.96-1.13) | 0%             |
| Smoking missing model              | 3         | 1.12 (1.05-1.37) | 97.7%          |
| Whether consultation rate included |           |                  |                |
| consultation rate included model   | 2         | 1.02(0.90-1.16)  | 0%             |
| consultation rate missing model    | 4         | 1.17(1.04-1.31)  | 96.7%          |
| Whether diabetes included          |           |                  |                |
| Diabetes included model            | 5         | 1.15 (1.03-1.27) | 95.8%          |
| Diabetes missing model             | 1         | 1.00(0.80-1.20)  |                |
| Whether hypertension included      |           |                  |                |
| Hypertension included model        | 4         | 1.17 (1.04-1.32) | 96.7%          |
| Hypertension missing model         | 2         | 1.03 (0.93-1.15) | 0%             |

| Factor              | Studies n | RR               | $I^2$ |  |
|---------------------|-----------|------------------|-------|--|
| Age                 |           |                  |       |  |
| Older than 60 years | 3         | 0.82 (0.53-1.26) | 52.2% |  |
| Young than 60 years | 1         | 0.89 (0.39-2.07) |       |  |
| Follow-up duration  |           |                  |       |  |
| More than 5 years   | 2         | 0.95 (0.83-1.08) | 0%    |  |
| Less than 5 years   | 3         | 0.86 (0.48-1.51) | 53%   |  |

# Table S7. Subgroup analysis of RCTs

Figure S1. Sensitivity analysis of cohort studies



Figure S2. Sensitivity analysis of case-control studies



Figure S3. Sensitivity analysis of RCTs



# Figure S4. Subgroup analysis of cohort by quality assessment



## A. High quality

#### B. Low quality





Figure S5. Subgroup analysis of cohort by location (North America)

#### Figure S6. Subgroup analysis of cohort by sex

A. Male



#### **B.** Female



#### Figure S7. Subgroup analysis of cohort by outcome assessment

#### A. ICD codes



#### B. Grading system





Figure S8. Subgroup analysis of cohort by outcome (Cataract)

#### Figure S9. Subgroup analysis of cohort by age

#### A. Older than 60



## B. Younger than 60



#### Figure S10. Subgroup analysis of cohort by follow-up duration





## B. Less than 5 years



# Figure S11. Subgroup analysis of cohort by whether LDL included

| Study  |   |   |                   | %      |
|--|---|---|-------------------|--------|
| ID   |   |   | ES (95% CI)       | Weight |
|  |   |   |                   |        |
| Klein 2006                                     |   |   | 0.60 (0.39, 0.93) | 32.60  |
| Tan 2007                                       |   |   | 0.52 (0.29, 0.93) | 28.68  |
| Leuschen 2015                                  |   |   | 1.20 (1.06, 1.35) | 38.72  |
| Overall (I-squared = 87.3%, p = 0.000)         |   |   | 0.75 (0.41, 1.37) | 100.00 |
|  |   |   |                   |        |
| NOTE: Weights are from random effects analysis |   |   |                   |        |
| 1  | 1 | : | 1                 |        |

#### A. LDL included

#### B. LDL missing



## Figure S12. Subgroup analysis of cohort by CVD

#### A. CVD included



# B. CVD missing





#### Figure S13. Subgroup analysis of cohort by smoking (Smoking included)

Figure S14. Subgroup analysis of cohort by consultation rate



A. Consultation rate included

## B. Consultation rate missing



#### Figure S15. Subgroup analysis of cohort by hypertension









## Figure S16. Subgroup analysis of case-control by quality assessment

## A. High quality



## B. Low quality



#### Figure S17. Subgroup analysis of case-control by location

#### A. North America



## B. Europe



## Figure S18. Subgroup analysis of case-control by outcome assessment

#### A. ICD codes



#### **B. Medical records**



#### Figure S19. Subgroup analysis of case-control by type of statins

#### A. Artovastatin



#### Study % ID ES (95% CI) Weight Smeeth-2003 1.45 (0.62, 3.40) 7.32 Wise-BC-2014 1.39 (1.16, 1.66) 49.80 Wise-IMS-2014 1.03 (0.82, 1.29) 42.88 Overall (I-squared = 53.1%, p = 0.119) 1.23 (0.96, 1.56) 100.00 NOTE: Weights are from random effects analysis 201 1

#### C. Lovastatin



## D. Pravastatin

B. Fluvastatin



## E. Rosuvastatin



## F. Simvastatin



#### Figure S20. Subgroup analysis of case-control by outcome

#### A. Cataract surgery



## **B.** Cataract and Surgery



# Figure S21. Subgroup analysis of case-control by CVD

## A. CVD included



# B. CVD missing

| Study  |                   | %      |
|--|-------------------|--------|
|  |                   |        |
| ID   | ES (95% CI)       | Weight |
|  |                   |        |
|  |                   |        |
| Schlienger 2001                                      | 1.00 (0.80, 1.20) | 38.90  |
|  |                   |        |
| Smeeth 2003  | 1.04 (0.89, 1.23) | 61.10  |
| 0   u r r a     (   c r u r r a - 0.0 )   r = 0.767) | 1.02 (0.00, 1.16) | 100.00 |
| Overall (I-Squared - 0.0%, p - 0.107)                | 1.02 (0.90, 1.10) | 100.00 |
|  |                   |        |
| NOTE: Weights are from random effects analysis       |                   |        |
|  | 1.25              |        |
|  |                   |        |

#### Figure S22. Subgroup analysis of case-control by smoking

#### A. Smoking included



# B. Smoking missing



Figure S23. Subgroup analysis by of case-control consultation rate

| Study  |                   | %      |
|--|-------------------|--------|
| ID   | ES (95% CI)       | Weight |
|  |                   |        |
| Schlienger 2001                                | 1.00 (0.80, 1.20) | 38.90  |
| Overall (I-squared = 0.0%, p = 0.767)          | 1.02 (0.90, 1.16) | 100.00 |
|  |                   |        |
| NOTE: Weights are from random effects analysis | 1.25              |        |

#### A. Consultation rate included

## B. Consultation rate missing





Figure S24. Subgroup analysis of case-control by diabetes (Diabetes included)

Figure S25. Subgroup analysis of case-control by hypertension

#### Study % ID ES (95% CI) Weight Smeeth 2003 1.04 (0.89, 1.23) 18.56 Wise-BC 2014 1.27 (1.24, 1.30) 28.14 Wise-IMS 2014 1.07 (1.04, 1.10) 28.01 1.28 (1.18, 1.38) Erie 2016 25.30 1.17 (1.04, 1.32) 100.00 Overall (I-squared = 96.7%, p = 0.000) NOTE: Weights are from random effects analysis .725 1.38

## A. Hypertension included

# B. Hypertension missing





Figure S26. Subgroup analysis of case-control by age (Older than 60)

Figure S27. Subgroup analysis of case-control by age (including Spence's)

#### A. Older than 60



## B. Younger than 60



#### Figure S28. Subgroup analysis of case-control by follow-up duration





#### B No more than 5 years



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