



Specialist Medical Review Council

**Reasons for Decisions**

*Section 196W  
Veterans' Entitlements Act 1986*

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**Re: Statements of Principles Nos. 13 & 14 of 2009  
In Respect of Macular Degeneration  
Matter No. 2009/16  
Request for Review Declaration No.16**

**SUMMATION**

1. In relation to the Repatriation Medical Authority (the RMA) Statement of Principles No. 13 of 2009 in respect of macular degeneration and death from macular degeneration, made under subsection 196B (2) of the *Veterans' Entitlements Act 1986* (the VEA), the Specialist Medical Review Council (the Council) under subsection 196W of the VEA:

DECLARES that it is of the view that there is sound medical-scientific evidence on which the RMA could have relied to amend the Statement of Principles to include the factors set out below; and

DIRECTS the RMA to amend Statement of Principles No. 13 of 2009 by including the following factor in respect of ***passive smoking***:

- **For late macular degeneration only:**  
being in an atmosphere with a visible tobacco smoke haze in an enclosed space for at least 10 000 hours within the 20 years before the clinical onset of late macular degeneration, and where the person was a non-smoker during the entire period of the exposure.

2. In relation to the RMA Statement of Principles No. 14 of 2009 in respect of macular degeneration and death from macular degeneration, made under subsection 196B (3) of the VEA, the Council under subsection 196W of the VEA:

DECLARES that it is of the view that the sound medical-scientific evidence available to the RMA is insufficient to justify an amendment to include a factor for exposure to passive smoking or any other factor.

## THE SPECIALIST MEDICAL REVIEW COUNCIL

3. The Council is a body corporate established under section 196V of the VEA, and consists of such number of members as the Minister for Veterans' Affairs determines from time to time to be necessary for the proper exercise of the function of the Council as set out in the VEA. The Minister must appoint one of the Councillors to be the Convener. If the Council does not include the Convener, the Convener must appoint one of the Councillors selected for the review to preside at all meetings as Presiding Councillor.
4. When a review is undertaken the Council is constituted by three to five Councillors selected by the Convener. When appointing Councillors, the Minister is required to have regard to the branches of medical-science that would be necessary for deciding matters referred to the Council for review.
5. Dr David Newman was the Presiding Councillor for this review. Dr Newman spent over 12 years in the Royal Australian Air Force as a medical officer and aviation medicine specialist. He is currently Senior Lecturer and Head of Research in the aviation discipline in the Faculty of Engineering and Industrial Sciences at Swinburne University in Victoria and head of the Aviation Medicine Unit in the Department of Epidemiology and Preventive Medicine at Monash University.
6. The other members of the Council were:

(i) Professor Robyn McDermott

Professor McDermott is a clinical epidemiologist and a National Health and Medical Research Council practitioner fellow at the University of South Australia. She specialises in chronic disease epidemiology and is also the foundation director of the state-wide data linkage unit, SA-NT DataLink.

(ii) Professor Paul Mitchell

Professor Mitchell is a leading retinal ophthalmologist and an international speaker on macular degeneration. Professor Mitchell was the principal investigator of the Blue Mountain Eye Study. Professor Mitchell is a member of the discipline of ophthalmology at the University of Sydney, Director of the Eye Clinic at Westmead Hospital and a world expert in the epidemiology of macular degeneration.

(iii) Associate Professor Justin O'Day

Professor O'Day is an ophthalmologist and has worked throughout Australia (including in rural Victoria), London, Southern Sudan and as a World Health Organisation consultant.

## THE LEGISLATION

7. The legislative scheme for the making of Statements of Principles is set out in Parts XIA and XIB of the VEA. Statements of Principles operate as templates, which are ultimately applied by decision-makers in determining individual claims for benefits under the VEA and the *Military Rehabilitation and Compensation Act 2004* (the MRCA)<sup>1</sup>.
8. Fundamental to Statements of Principles is the concept of 'sound medical-scientific evidence', which is defined in section 5AB(2) of the VEA. Information about a particular kind of injury, disease or death is taken to be sound medical-scientific evidence if:
  - a) the information
    - (i) is consistent with material relating to medical science that has been published in a medical or scientific publication and has been, in the opinion of the Repatriation Medical Authority, subjected to a peer review process; or
    - (ii) in accordance with generally accepted medical practice, would serve as the basis for the diagnosis and management of a medical condition; and
  - b) in the case of information about how that injury, disease or death may be caused - meets the applicable criteria for assessing causation currently applied in the field of epidemiology.<sup>2</sup>

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<sup>1</sup> See sections 120, 120A and 120B of the VEA and sections 335, 338 and 339 of the MRCA.

<sup>2</sup> This has been held to mean 'information which epidemiologists would consider appropriate to take into account' see *Repatriation Commission v Vietnam Veterans' Association of Australia NSW Branch Inc* (2000) 48 NSWLR 548 (the New South Wales Court of Appeal decision) per Spigelman CJ at paragraph 117.

9. The functions of the Council are set out in section 196W of the VEA. In this case, the Council was asked (under section 196Y of the VEA) by a person eligible to make a claim for a pension, to review the contents of:
- Statement of Principles No. 13 of 2009, in respect of macular degeneration and death from macular degeneration, being a Statement of Principles determined by the RMA under section 196B(2)<sup>3</sup> of the VEA ('the **reasonable hypothesis** test') and
  - Statement of Principles No. 14 of 2009, in respect of macular degeneration and death from macular degeneration, being a Statement of Principles determined by the RMA under section 196B(3)<sup>4</sup> of the VEA ('the **balance of probabilities** test').
10. Specifically, the Applicant contended that there was sound medical-scientific evidence on which the RMA could have relied to include as a factor or factors in Statements of Principles Nos. 13 and 14 of 2009, exposure to passive smoking.

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<sup>3</sup> 196B(2) provides;  
 If the Authority is of the view that there is sound medical-scientific evidence that indicates that a particular kind of injury, disease or death can be related to:

- (a) operational service rendered by veterans; or
- (b) peacekeeping service rendered by members of Peacekeeping Forces; or
- (c) hazardous service rendered by members of the Forces; or
- (caa) British nuclear test defence service rendered by members of the Forces; or
- (ca) warlike or non-warlike service rendered by members;

the Authority must determine a Statement of Principles in respect of that kind of injury, disease or death setting out:

- (d) the factors that must as a minimum exist; and
- (e) which of those factors must be related to service rendered by a person;

before it can be said that a reasonable hypothesis has been raised connecting an injury, disease or death of that kind with the circumstances of that service.

<sup>4</sup> 196B(3) provides;  
 If the Authority is of the view that on the sound medical-scientific evidence available it is more probable than not that a particular kind of injury, disease or death can be related to:

- (a) eligible war service (other than operational service) rendered by veterans; or
- (b) defence service (other than hazardous service and British nuclear test defence service) rendered by members of the Forces; or
- (ba) peacetime service rendered by members;

the Authority must determine a Statement of Principles in respect of that kind of injury, disease or death setting out:

- (c) the factors that must exist; and
- (d) which of those factors must be related to service rendered by a person;

before it can be said that, on the balance of probabilities, an injury, disease or death of that kind is connected with the circumstances of that service.

11. In conducting its review, the Council must review all the information that was available to (before) the RMA at the time it determined, amended, or last amended the Statements of Principles (the relevant times) and is constrained to conduct its review by reference to that information only.<sup>5</sup>
12. Under section 196W of the VEA, the Council can only reach the view that a Statement of Principles should be amended on the basis of sound medical-scientific evidence.

## **BACKGROUND**

### **Application for review by the Council**

13. On 24 April 2009, the RMA under subsections 196B(2) and (3) of the VEA determined Statements of Principles Nos. 13 and 14 of 2009, in respect of macular degeneration. The Statements of Principles took effect from 6 May 2009.
14. On 30 April 2009 the Statements of Principles were registered on the Federal Register of Legislative Instruments.
15. On 12 May 2009 in accordance with section 42 of the *Legislative Instruments Act 2003* the Statements of Principles were tabled in the House of Representatives and in the Senate.
16. An Application for Review of Statements of Principles Nos. 13 and 14 of 2009 was received by the Council on 7 July 2009. The Application contended that the Statements of Principles should include a factor or factors concerning exposure to passive smoking.
17. Pursuant to section 196ZB of the VEA the Council published in the Gazette a Notice of its Intention to Carry Out a Review of all the information available to the RMA about macular degeneration and invited eligible persons or organisations so authorised to make submissions to the Council.<sup>6</sup> The Council gazetted two subsequent notices as to the dates by which written submissions must be received by the Council.<sup>7</sup>

### **The information sent by the RMA to the Council**

18. By letter dated 21 September 2009 the RMA, under section 196K of the VEA, sent to the Council the information the RMA advised was available to (before) it at the relevant times, as listed in Appendix B.

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<sup>5</sup> *Vietnam Veterans' Association (NSW Branch) Inc v Specialist Medical Review Council and Anor* (full Federal Court decision) (2002) 72 ALD 378 at paragraph 35 per Branson J.

<sup>6</sup> Gazette Notice No. 35 of 9 September 2009 p. 2358.

<sup>7</sup> Gazette Notices No. 2 of 20 January 2010 and No. SG231 of 30 December 2010.

19. By agreement between the RMA and the Council, information the RMA advised was available to (before) it at the relevant times is posted on a secure website (referred to as FILEForce). It is made accessible by the Council to the Repatriation Commission and the Military Rehabilitation and Compensation Commission (the Commissions), the Applicant and other participants in the review via confidential password. The information which was available to (before) the RMA at the relevant times was posted on FILEForce on 8 October 2009.

### **Notification of Preliminary Decisions on Proposed Scope of Review and Proposed Pool of Information**

20. In separate letters, dated 15 June 2011, to each of the Applicant and the Commissions, the Council in summary:
- advised of the Council's preliminary decisions on the proposed scope of the review and proposed pool of information;
  - invited the Applicant and Commissions to make any written comments as to the Council's preliminary decisions by close of business on 18 July 2011; and
  - advised that if any written comments were made, any complementary oral comments could be made at a hearing of oral submissions complementing the written submissions.
21. No comments were received.
22. The Council held a meeting on 9 August 2011 to consider all the written submissions and complementary oral submissions.

### ***Proposed Scope of Review***

23. The Council's preliminary decision on the scope of the review, as advised to the Applicant and Commissions on 15 June 2011, was as follows:

Without limiting the scope of the Council's review of some or the whole of the contents of Statements of Principles No. 13 and 14 of 2009, in respect of Macular Degeneration ... the Council presently proposes to have particular regard to whether there was sound medical-scientific evidence upon which the RMA could have relied to amend either or both of the Statements of Principles by the possible inclusion of 'passive smoking' as a factor for clinical:

- (a) onset; and/or
- (b) worsening

of macular degeneration.

### **Proposed Pool of Information**

24. As mentioned above, the RMA is obliged under section 196K of the VEA to send to the Council all the information that was available to it (the RMA) at the relevant times. That comprises all the information that was available to the RMA when it determined the original Statements of Principles in respect of macular degeneration in 1995 and all the information subsequently available at all times when the Statements of Principles have been amended, or revoked and replaced, up to and including the information which was available in April 2009 when the RMA determined the Statements of Principles under review. In other words, within 28 days after being notified that the Council has been asked to conduct a review, the RMA must send to the Council all the information in respect of macular degeneration which was in the possession of the RMA at the time it (the RMA) made the decision that triggered the Council's review.
25. The chronology of the RMA sending the information to the Council is detailed in [18]. As mentioned above, all the information which was available to the RMA at the relevant times was made available to the Applicant and the Commissions for the purposes of the review.
26. In determining its preliminary view on the proposed pool of information the Council applied the methodology it had advised the Applicant and Commissions on 15 June 2011 i.e. that the pool of information should comprise the information:
  - that was available to (before) the RMA at the relevant times;
  - which was sent by the RMA to the Council under section 196K of the VEA;
  - which was considered by the Council to be sound medical-scientific evidence as defined in section 5AB(2) of the VEA being information which:
    - (1) epidemiologists would consider appropriate to take into account; and
    - (2) in the Council's view 'touches on' (is relevant to) passive smoking; and
  - which has been evaluated by the Council according to epidemiological criteria, including the Bradford Hill criteria.<sup>8</sup>
27. Information which the RMA advised was not available to (not before) the RMA at the relevant times, was not taken into account by the Council for the purposes of the review, as it could only be considered as 'new information'.
28. A copy of the Council's preliminary list of the proposed pool of information was forwarded to the Applicant and the Commissions and is attached at Appendix A.

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<sup>8</sup> See Bradford Hill, A 1965, 'The Environment and Disease: Association or Causation?', *Proceedings of the Royal Society of Medicine Section of Occupational Medicine*, Meeting January 14, pp. 295 - 300.

## APPLICANT'S SUBMISSIONS

29. The Applicant made:
- two written submissions (the first submitted with his Application dated 3 July 2009 and the second dated 17 February 2011), and
  - an oral submission complementing his written submissions on 9 August 2011

all of which were taken into account by the Council.<sup>9</sup>

30. In his Application to the Council of 3 July 2009, the Applicant stated that his grounds for review were as follows:

... the applicant who requested [an investigation by the RMA] ... spent a high percentage of his off duty time in the smoke contaminated Officers' Mess i.e. the source of his contention re Passive Smoking.

He was a non-smoker and like many other non-smoking veterans he was subjected to passive smoking not only on service but also post service in all walks of life such as office/factory, on various types of transport in fact where ever smoking was partaken.

Irrespective of rank a veteran in a confined space would inhale cigarette smoke laden air every time he/she breathes which on average is every second i.e. 60 per minute, whereas the confirmed smoker if smoking say 20 per day over 12 hours is inhaling a lesser quantity of smoke at a much slower rate depending how quickly the cigarette was smoked.

In a densely crowded smoke filled mess hall non-smoking veterans, are in such an environment as if he or she were actually holding the cigarette...

31. In his written submission dated 17 February 2011, which was received by the Council on or about 23 February 2011, the Applicant contended that:

...the non-smoking veteran has been overlooked at the expense of the smoking veteran.

... A disease or any medical condition suffered is not due to the physical mechanics of smoking it is due to the mechanics of breathing ie exposure from the actual products of smoking; smoke and the many ingredients it contains.

...in a crowded situation, it doesn't matter who is actually smoking the cigarette every veteran present is breathing in contaminated air at a general rate of 60 breaths per minute and subsequently is open to harmful effects. On service the veterans both smoker and non-smoker were in many crowded situation[s] such as mess rooms, recreation halls, troopship/trains to name a few and post service in all walks of life until bans started of recent times...

The labelling of two distinct types i.e. active and passive smoking is wrong. In a smoke contaminated environment, both are subjected to the same detrimental contaminated air...

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<sup>9</sup> The information upon which the Applicant relied, being information which the RMA advised was available to (before) the RMA at the relevant times, is listed in Appendix C.



32. The Applicant submitted that according to his 'rough calculations':  
A person breathing is taking in something like 60 breaths a minute, which in an hour is 3,600 breaths. Now, if he's in a smoke contaminated area, he's doing a lot of contaminated breathing.<sup>10</sup>
33. The Applicant submitted that veterans in earlier conflicts, such as World War II, were exposed to extremely high levels of environmental tobacco smoke within confined spaces. He asked the Council to consider that these levels of exposures might have been much higher than those to which non-veterans are ordinarily exposed.
34. The Applicant submitted, in his written submission of 17 February 2011, that from his research there had not been any:  
'in depth' investigational studies... regarding the relationship between macular degeneration and passive smoking...
35. However, he submitted that environmental or passive smoking is of major concern worldwide. He submitted that this was evidenced by Government legislation which bans smoking from many public areas.
36. In his oral submission complementing his written submissions, the Applicant contended that his research had shown that:  
  
there has [not] been much worldwide study [but] there's a large group of people ...who are concerned with ... 'passive smoking'.<sup>11</sup>
37. In his written submission of 17 February 2011, the Applicant referred the Council to the following two documents (listed in Appendix D):
- An abstract of a review by Lois et al (2009). While the Lois et al abstract as cited by the applicant was not in the information available to the RMA at the relevant times (and so could not be taken into account in the review), the Lois et al review itself was included in the information that was before the RMA at the relevant times. The review was taken into account by the Council and is discussed below.
  - A medical news article by Barclay (2008), which is a summary of a study by Klein et al (2008). While the news article was not in the information available to the RMA at the relevant times (and so could not be taken into account in the review), the Klein study itself was included in the information that was available to the RMA at the relevant times. The study was taken into account by the Council and is discussed below.

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<sup>10</sup> See at page 7 of the transcript of oral submissions.

<sup>11</sup> See at page 6 of the transcript of oral submissions.

### **Applicant did not comment on the Proposed Scope of the Review and Proposed Pool of Information decisions**

38. The Applicant made no comment on the Council's proposed scope of review and proposed pool of information decisions, other than to refer to the new information noted above.

### **SUBMISSIONS BY THE COMMISSIONS**

39. The Commissions made a written submission dated January 2011. A Medical Officer with the Department of Veterans' Affairs, representing the Commissions, made an oral submission complementing the Commissions' written submission at the Council's meeting on 9 August 2011.<sup>12</sup>
40. The Commissions noted that active smoking is an existing factor in both the reasonable hypothesis and balance of probabilities Statements of Principles, and submitted that the RMA had extensive evidence available to it at the relevant times supporting the relevant association between active smoking and macular degeneration.<sup>13</sup>
41. The Commissions submitted that there was limited evidence on passive smoking and macular degeneration in the information available to the RMA at the relevant times.<sup>14</sup>

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<sup>12</sup> The information upon which the Commissions relied, being information which the RMA advised was available to (before) the RMA at the relevant times, is listed in Appendix E.

<sup>13</sup> See at [34] and [48] of the Commissions' written submission.

<sup>14</sup> See at [23] of the Commissions' written submission.

42. Of the information that was available to the RMA at the relevant times, the Commissions submitted that the following studies touched on the matters within the scope of review:
- **Klein et al (2008)**,<sup>15</sup> of which the Commissions submitted:<sup>16</sup>  
Exposure to ETS<sup>17</sup> was not associated with the prevalence, 5-year incidence or progression of AMD<sup>18</sup> in men or women. No data were provided. The five-year incidence of both exudative AMD<sup>19</sup> and pure geographic atrophy<sup>20</sup> was too low to examine the association between exposure to ETS and those endpoints.<sup>21</sup>
  - **Klein et al (1993)**, of which the Commissions submitted:<sup>22</sup>  
Current exposure to passive smoking was not associated with early ARM,<sup>23</sup> exudative AMD nor geographic atrophy. Data were not provided.
  - **Khan et al (2006)**, in respect of which the Commissions submitted:<sup>24</sup>  
In non-smokers<sup>25</sup> passive smoking exposure was associated with an increased risk for AMD with an odds ratio (OR) of 1.87 (95% confidence interval [CI], 1.03-3.40) in all non-smoking cases (n=158).
  - **Smith et al (1996)** in respect of which the Commissions submitted:<sup>26</sup>  
the study found passive smokers<sup>27</sup> were at increased risk for “late AMD”, but the results did not reach statistical significance. For males and females combined, the

<sup>15</sup> The representative of the Commissions noted in his complementary oral submissions that these two reports, of which Klein was the lead author, were of the Beaver Dam study.

<sup>16</sup> See at [26] of the Commissions' written submission.

<sup>17</sup> Environmental tobacco smoke.

<sup>18</sup> Age-related macular degeneration.

<sup>19</sup> A form of late age related maculopathy, see Klein et al at page 190.

<sup>20</sup> Another form of late age related maculopathy, *ibid*.

<sup>21</sup> In his oral submission complementing the Commissions' written submission, the Commissions' representative submitted that the Klein 2008 study was:  
the best starting point ... prospectively gathered data, prospectively followed - prospective follow-up and the passive smoking exposure assessment in that was probably the best that was available in that they took account of workplace, social and home exposure, whereas the other studies tended to just look at exposure in the home.  
So this would be the best study to look at the association if it was long enough and had enough cases, which it doesn't on either account really. .. (Transcript of oral hearing at page 13).

<sup>22</sup> See at [28] of the Commissions' written submission.

<sup>23</sup> Age-related maculopathy. The Councillors considered that the classifications previously applied on the basis of the original Beaver Dam study - of age-related macular degeneration, which was late stage and maculopathy which included early stage - should be ignored, in favour of categorising the whole disease as early or late stage age-related macular degeneration (AMD), see [62].

<sup>24</sup> See at [30] of the Commissions' submission.

<sup>25</sup> The Commissions noted that a passive smoker was defined in the Khan et al study as a never smoker living in the same house as a smoker for at least five years.

<sup>26</sup> See at [32] of the Commissions' written submission.

<sup>27</sup> Which the Commissions noted were defined in the Smith article as a never smoker whose spouse was a smoker.

odds ratio for any late AMD for passive smoking vs. non-passive smoking (in never smokers) was 1.42 (95% CI, 0.62 to 3.26).

43. The Commissions submitted that the Khan and Smith studies provided data on passive smoking and found an elevated risk for late AMD. However, the Commissions submitted that the results reached statistical significance only in the Khan study and only for late AMD combined.<sup>28</sup>
44. The Commissions submitted that the studies demonstrated that :  
An association between passive smoking and early ARM was not found in any study<sup>29</sup>  
  
and so submitted there was no relevant association between passive smoking and early age-related maculopathy.<sup>30</sup>
45. The Commissions further submitted that:  
  
the strength of the possible association between passive smoking and late AMD would appear to be limited at best.<sup>31</sup>
46. However, the Commissions submitted that the lack of statistically significant associations for passive smoking and late AMD:  
  
may be attributable to the limited power of the studies to detect such associations, due to small case numbers. The Kahn (sic) et al case-control study, that did find the only significant association, was multi-fold larger than the two cross sectional-studies, in terms of case numbers of late AMD.<sup>32</sup>
47. The Commissions acknowledged that an association between passive smoking and late AMD was biologically plausible:  
  
Active smoking is an established risk factor for late AMD and passive smoking has been causally implicated in other diseases for which active smoking is a risk factor, so it is biologically plausible that passive smoking could cause late AMD.<sup>33</sup>

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<sup>28</sup> See at [44] of the Commissions' written submission.

<sup>29</sup> See at [45] of the Commissions' written submission and at [30] of the transcript of the oral hearing.

<sup>30</sup> The Commissions' representative in his oral submission complementing the Commissions' written submission summarised the evidence which he contended supported the Commissions' submission that there was no relevant association with early onset macular degeneration as follows:

...for early disease we've got no association in the Blue Mountain study, no association in the Beaver Dam study, an indication – in the cross-sectional Beaver Dam study – an indication of no association in the prospective data, because they looked at disease overall, about 90 per cent were early, so that's an indication of no association there. And the Kahn (sic) study didn't report, so we've got no positive evidence there, so .... for the Commission that's a fairly easy question, there's no basis for putting in a passive smoking factor for early disease ([30] of page 16 of the transcript of the oral hearing).

<sup>31</sup> See at [47] of the Commissions' written submission.

<sup>32</sup> See at [46] of the Commissions' written submission.

<sup>33</sup> See at [48] of the Commissions' written submission.

48. The Commissions concluded their written submission by submitting that:<sup>34</sup>
- \* the Council should carefully consider whether the limited available evidence is sufficient to raise a reasonable hypothesis to indicate that late AMD can be caused by passive smoking;<sup>35</sup>
  - \* the available evidence does not establish on the balance of probabilities that late AMD can be caused by passive smoking; and
  - \* the available evidence indicates that there is no association between passive smoking and early ARM and is insufficient to establish this at the balance of probabilities standard of proof.
- ... If a clinical onset factor for passive smoking was to be included then the Commission[s] would see it as appropriate to also include a clinical worsening factor.

### **Commissions' comments on the Proposed Scope of the Review and Proposed Pool of Information decisions**

49. The Commissions sought no amendment to the Council's proposed scope of review, but there was discussion in the Commissions' written submission,<sup>36</sup> and with the Council at the hearing of oral submissions, about differing terminology used when describing the disease vis a vis the definition of the disease in the Statements of Principles.<sup>37</sup> Many papers refer to the condition as age-related maculopathy and others as age-related macular degeneration. These terms are equivalent and are two of the many terms used for the same condition. The Statements of Principles relates to late macular degeneration and the Council in these Reasons similarly refers to late macular degeneration.
50. The Commissions did not propose any alteration to the Council's proposed decision on the pool of information.

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<sup>34</sup> See at [49] of the Commissions' written submission.

<sup>35</sup> The Commission's representative in his oral submission complementing the Commissions' written submission submitted that the evidence:

falls short of the balance of probabilities standard but it's quite interesting at the reasonable hypothesis test as to whether that is enough or not.

Now, the Commission doesn't actually want to offer a conclusion about that, that's my specific instructions from the Commission, so I'm not going to ... offer a particular view about whether there should be a factor in the reasonable hypothesis SOP for passive smoking for late stage disease. But I would say that it's pretty close to the mark and it's certainly worthy of close consideration (see [10] of the transcript of the oral hearing at page 17).

<sup>36</sup> See at [18] - [22].

<sup>37</sup> See at pages 11 - 13 of the transcript of the oral hearing.

## REASONS FOR THE COUNCIL'S DECISION

### The Council's Task

51. In conducting a review the Council follows a two-step process. The Council first identified the pool of information, i.e. it identified from all the information that was available to (before) the RMA at the relevant times the sound medical-scientific evidence (as that term is defined in section 5AB(2) of the VEA (see [8] above)) which in its view 'touches on' (i.e. is relevant to) the issue of whether a particular kind of injury, disease or death can be related to service.
52. The second step required the Council to determine whether the sound medical-scientific evidence in the pool of information:
  - 52.1. 'points to' (as opposed to merely 'leaves open')<sup>38</sup> the relevant possibility whether exposure to passive smoking (if found to exist in a particular case) could provide a link or element in a reasonable hypothesis connecting macular degeneration or death from macular degeneration to relevant<sup>39</sup> service.<sup>40</sup> The Council had to find that the hypothesis contended for was reasonable and not one which was 'obviously fanciful, impossible, incredible or not tenable or too remote or too tenuous.'<sup>41</sup>
  - 52.2. concerning passive smoking (if found to exist in a particular case) could provide a relevant connection between macular degeneration or death from macular degeneration and relevant<sup>42</sup> service according to a standard of satisfaction 'on the balance of probabilities', or as being more probable than not.
53. In these Reasons the association for both the **reasonable hypothesis** test (at [52.1] and the **balance of probabilities** test at [52.2]) are respectively referred to as the 'relevant association'.

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<sup>38</sup> See full Federal Court decision at [49] per Branson J.

<sup>39</sup> Relevant service here refers to operational, peacekeeping and hazardous service, British nuclear test defence service, and warlike or non-warlike service as those terms are defined in the VEA and the MRCA.

<sup>40</sup> See *Vietnam Veterans' Association of Australia (NSW Branch) Inc v Specialist Medical Review Council and Anor* (2002) 69 ALD 553 (Moore J decision) per Moore J at [29].

<sup>41</sup> See the full Federal Court decision in *Repatriation Commission v Bey* (1997) 79 FCR 364 which cited with approval these comments from Veterans' Review Board in *Stacey* (unreported 26 June 1985), all of which were in turn cited with approval in the Moore J decision at [33].

<sup>42</sup> Relevant service here refers to eligible war service (other than operational service), defence service (other than hazardous service and British nuclear test defence service) and peacetime service as those terms are defined in the VEA and the MRCA.

54. It was with these tests firmly at the forefront of its collective mind that the Council considered the sound medical-scientific evidence in the pool of information and the submissions made by the Applicant and the Commissions referable to the matters within the scope of review.
55. In forming its judgement on whether the sound medical-scientific evidence 'pointed to' (as opposed to merely 'leaving open') the relevant association, the Council was conscious that the reasonable hypothesis test is 'a test of possibility'<sup>43</sup> and 'an unusually light burden.'<sup>44</sup> If the reasonable hypothesis test was found not to be satisfied, the balance of probabilities test necessarily could not be met.

### **Scope of Review**

56. The Council's final view on the scope of the review was that it should comprise the scope which the Council had identified on a preliminary basis in respect of exposure to passive smoking (see [20]).

### **Pool of Information**

57. The Council's final decision on the pool of information was that it should comprise the sound medical-scientific evidence it had identified on a preliminary basis as listed in Appendix A.
58. In reaching this decision, the Council took into account the written submissions and complementary oral submissions and considered whether any of the information, to which it was referred, could or should be in the pool.
59. As mentioned above, the Council noted the Applicant's references to and submissions concerning information which was not available to (not before) the RMA (see Appendix D). As mentioned above, the Council in its review was unable to (and so did not) consider information which was not available to (not before) the RMA at the relevant times.

## **THE COUNCIL'S ANALYSIS OF THE INFORMATION BEFORE THE RMA**

### **Preliminary comment on age-related macular degeneration**

60. Set out below are some general and introductory comments on age-related macular degeneration and the Council's analysis of the information in the pool.

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<sup>43</sup> See full Federal Court decision at [49] citing with approval Spigelman CJ in the New South Wales Court of Appeal decision at [111].

<sup>44</sup> See full Federal Court decision at [55] per Branson J.

61. Statements of Principles Nos. 13 and 14 of 2009 define macular degeneration, also known as age-related macular degeneration as meaning:
- degenerative changes involving the macula of the eye, either involving soft drusen or pigmentary abnormalities (early age-related macular degeneration) or geographic atrophy or choroidal neovascularisation (late age-related macular degeneration). This definition excludes toxic maculopathy.
62. The Council noted that age-related macular degeneration may involve early or late stage disease. Clinicians now see this as a continuation of the same disease process rather than as two separate categories of disease.<sup>45</sup> However, most epidemiological studies distinguish in their analyses between the stages and between sub-types of the disease. In these Reasons, the Council refers to age-related macular degeneration (AMD). The Council distinguishes between early and late stage disease, but does not distinguish (unless otherwise stated) between different sub-types of the disease.

**DOES THE SOUND MEDICAL-SCIENTIFIC EVIDENCE 'POINT TO' OR 'LEAVE OPEN' THE RELEVANT ASSOCIATION**

63. As mentioned above, having settled the pool of information, the second question for the Council to consider was whether the sound medical-scientific evidence in the pool of information 'points to' a contended factor in the scope of the review as a link or element in a reasonable hypothesis connecting macular degeneration to relevant service (see [52.1] and footnotes), and if so, whether the relevant association exists on the balance of probabilities (see [52.2] and footnotes).
64. As mentioned above, the only basis upon which the Council can review the contents of a Statement of Principles is by reviewing all the information that was available to (before) the RMA at the relevant times, in order to ascertain whether there was sound medical-scientific evidence upon which the RMA could have relied to amend either or both of the Statements of Principles.
65. The Council considered all the articles in the pool. However, the Council in these Reasons focused its discussion upon its analysis of those articles which it considered most pertinent to the scope of review. The Council agreed with the submissions of the Applicant and the Commissions that the information touching on passive smoking is limited.

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<sup>45</sup> As stated above, previous classifications described early stage age-related macular degeneration as age-related maculopathy, see [49].



66. Ultimately, matters of weight are questions for the Council in the exercise of its expertise and scientific judgement, noting that the Councillors are appointed to a particular review because of their specialist expertise in the particular condition (in this case macular degeneration) and the matters within the scope of the review.

#### **THE REVIEW COUNCIL'S ANALYSIS OF THE INFORMATION IT CONSIDERED MOST IMPORTANT AS BEING POTENTIALLY REFERABLE TO THE CONTENTED FACTOR**

##### ***Original Studies***

**Klein, R, Klein, BEK, Linton, KLP & DeMets, DL 1993**, 'The Beaver Dam Eye Study: The Relation of Age-related Maculopathy to Smoking', *Am J Epidemiol*, 137(2), pp. 190-200. (RMA ID 06408)

67. The authors conducted a cross-sectional analysis of data from the Beaver Dam population study, with retrospective exposure assessment of AMD outcomes. The potential association was analysed in 4771 participants aged 43-84 years. Data were collected by questionnaire and fundus photography and a standardised grading system for lesions was applied.<sup>46</sup>
68. The authors defined a subject as a passive smoker if he or she was either a never smoker<sup>47</sup> or an ex-smoker,<sup>48</sup> living in a household with a current smoker.<sup>49</sup> 362 females and 335 males were classified as passive smokers.
69. The authors found no association between cigarette smoking (active or passive) and early AMD.<sup>50</sup> They also found that current exposure to passive smoking was not associated with late stage AMD.<sup>51</sup>

##### ***Council's comments***

70. The Council considered this to be an important and well-conducted study, while noting the limitations that occur in all cross-sectional studies, including that the assessment of exposure levels can be subject to error and possible recall bias. The Council noted that this study did not find any association between passive smoking and AMD. Measurement of the exposure to passive smoking was not quantified and data were not provided.

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<sup>46</sup> See at page 191.

<sup>47</sup> Defined as someone who had smoked less than 100 cigarettes in his or her lifetime (see at page 192).

<sup>48</sup> Defined as someone who had smoked more than 100 cigarettes in his or her lifetime, but who had stopped smoking before the examination, *ibid*.

<sup>49</sup> Defined as someone who had not stopped smoking, *ibid*.

<sup>50</sup> See at page 195.

<sup>51</sup> See at page 196.

71. The Council noted, however, that a methodological limitation of this study was that it grouped ex-smokers together with non-smokers in the passive smoking analysis. The Council considered that this may have limited the ability of the study to detect a difference between the exposed and non-exposed groups.<sup>52</sup>
72. The Council considered that this study did not support the relevant association.

**Klein, R, Knudtson, MD, Cruickshanks, KJ & Klein, BEK 2008, 'Further Observations on the Association Between Smoking and the Long-term Incidence and Progression of Age-related Macular Degeneration. The Beaver Dam Eye Study', *Arch Ophthalmol*, 126(1): 115-21. (RMA ID 49688)**

73. The authors conducted a follow-up analysis of the Beaver Dam cohort, to analyse potential associations between a number of factors and outcomes of AMD incidence and progression. They examined exposure to environmental tobacco smoke (ETS) over the final five year interval of the study. ETS exposure was first measured in 2480 subjects at the ten year follow-up and outcomes were measured five years later for the surviving 2119 subjects. Data for ETS exposure were gathered by combining information from reported home, social and workplace exposures among non-smoking participants. Past smokers and never smokers were categorised as passive smokers if exposed.<sup>53</sup>
74. High ETS exposure was categorised as:
- more than four hours of workplace exposure daily;
  - living with a smoker; or
  - social exposure on a daily basis.
75. Moderate exposure corresponded to one to four hours per day in the workplace or socially several times per week.<sup>54</sup>
76. Analyses were adjusted for age, sex and baseline diagnosis and took into account the effects of the level of alcohol consumption, vitamin use and systolic blood pressure on the results.
77. For current smokers compared to never smokers, the incidence of early AMD and AMD progression were significantly elevated at 15 years.<sup>55</sup> Age at quitting was related to progression, but no relationship was displayed with past smoking, or intensity of smoking in relation to the progression of AMD.<sup>56</sup>

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<sup>52</sup> See at pages 192-193.

<sup>53</sup> See at page 116.

<sup>54</sup> See at page 116.

<sup>55</sup> See at page 120.

<sup>56</sup> See at pages 117 and 118.

78. There was an association between active smoking and late AMD. The authors suggested a number of reasons why a strong association between smoking and late AMD was not found. In particular, the authors noted the limitations arising from participants' smoking status being assessed only at baseline. Many participants who may otherwise have been at risk for AMD would have quit smoking by age 65.<sup>57</sup> This left too few smokers in the study to determine whether there were any differences between smokers and non-smokers and the development of late AMD.
79. Whilst the authors stated that exposure to ETS was not associated with the prevalence, incidence or progression of AMD over the five year period, they did not provide any data in relation to the analysis of ETS.<sup>58</sup>

### ***Council's comments***

80. The Council noted that this study was the follow-up of the Beaver Dam study, but with analysis of prospective data.
81. The Council noted that this was the first major study which attempted to quantify occupational exposure to passive smoking, although it did this on an average daily basis and did not report total exposure duration. A limitation was that, as the study was conducted with older participants, much of the estimation of workplace exposure was dependent on the memory of the participants or their spouses.
82. This was also one of the few studies which attempted to control for other factors which potentially could have confounded the analyses, such as alcohol, nutrition and cardiovascular indicators. However, the Council considered that it was subject to the limitation that many subjects may have died from other causes before it could be determined whether they had developed AMD.
83. As with the earlier Beaver Dam study, past smokers were included with non-smokers in the analysis of passive smoking. The Council considered that this method of classifying exposure to passive smoking may have limited the ability of the study to detect differences between the exposed and non-exposed groups. The findings of this follow-up study did not support the relevant association. However, the Council also noted that no detailed statistical analysis of the findings in relation to ETS was provided and the Council considered this to be a major limitation of this study.

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<sup>57</sup> See at page 120.

<sup>58</sup> See at pages 118 and 120.

**Smith, W, Mitchell, P & Leeder, SR 1996**, 'Smoking and Age-Related Maculopathy: The Blue Mountains Eye Study', *Arch Ophthalmol*, Vol 114 pp. 1518-1523. (RMA ID 13646)

84. This representative cross-sectional Australian study, known as the Blue Mountains Eye Study, was of 3654 subjects older than 49 years. The aim of the study was to assess any association between AMD and passive smoking. The authors measured AMD using standardised clinical assessment measures. Smoking history was ascertained using interviewer assisted questionnaire.
85. Passive smokers were defined as subjects who had never smoked, but whose spouse was a smoker.<sup>59</sup>
86. Current smoking was found to be significantly associated with both late and early AMD after adjusting for age and sex.<sup>60</sup> The odds ratio for the association between current smoking (versus never smoking) and late AMD was high (OR 4.46, 95% CI 2.20-9.03), but for early stage AMD was of a lower magnitude with an OR of 1.89 (95% CI 1.25-2.84). Past (ever versus never) smoking was also found to be significantly associated with late AMD at a lower magnitude (OR 1.83, 95%CI 1.07-3.13), though not with early AMD which had an OR of 1.03 (95% CI 1.93-1.14). The authors found little convincing evidence of a dose response relationship.
87. There were 30 cases of late AMD among passive smokers. The authors found a moderate but non-significant increase in the risk of late AMD (OR 1.42, 95% CI 0.62-3.26) for passive smokers, who had never themselves smoked, but who lived with a smoking spouse.<sup>61</sup> No association was found between passive smoking and early AMD (OR1.00, 95% CI 0.63-1.59).<sup>62</sup>
88. The authors posited that the lack of statistical significance may reflect the low statistical power of the study.

### **Council's comments**

89. The Council considered this study was important, in particular because:
  - it examined a large sample of adults who were highly representative of the Australian population at the time;
  - of its methodological quality; and
  - it attempted to explore any relationship with other (dietary) exposures, although none were found.

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<sup>59</sup> See at page 1519.

<sup>60</sup> See at page 1520.

<sup>61</sup> See at page 1520.

<sup>62</sup> See Table 3 at page 1521.

90. However, the Council considered the study was subject to the limitations of cross-sectional analyses, in particular, the difficulty in accurately measuring the level of exposure retrospectively. At the time this study was conducted, few studies recognised the importance of gathering quantitative data on exposure to environmental smoke, or lacked the resources to do so.
91. The study differed in its exposure classification from the Klein et al study. In this study, only never-smokers were included in the passive smoking group, whereas in the Klein study, ex-smokers were also included. The Council considered that a particular strength of this paper was that only never smokers were included in the passive smoking analysis. This strengthened the ability of the analysis to detect an association if one were present. In contrast, the two Klein papers may not have found an association because they included ex-smokers as passive smokers, which could have confounded the ability to detect an effect of passive smoking.
92. The study's findings suggested a positive association between passive smoking and late AMD; and the Council agreed that the lack of statistical significance may have been due to the low case numbers.
93. The Council considered that the findings from this study point to the relevant association. In the Council's view, the findings did not satisfy the balance of probabilities test.

**Khan, JC, Thurlby, DA, Shahid, H, Clayton, DG, Yates JRW, et al 2006**, 'Smoking and age related macular degeneration: the number of pack years of cigarette smoking is a major determinant of risk for both geographic atrophy and choroidal neovascularisation', *Br J Ophthalmol*, Vol. 90, pp. 75-80. (RMA ID 37432)

94. In this UK case control study, the authors examined confirmed late stage AMD in one or both eyes of participants, all of whom were white and aged over 50 years. Controls were recruited from spouses of the cases and accepted even if they had early stage AMD. Passive smokers were defined as never smokers who had lived in the same house with a smoker for at least five years.<sup>63</sup> Results were adjusted for age and sex.
95. Passive smokers were found to have an almost doubled risk of all AMD (OR 1.87, 95% CI 1.03-3.40),<sup>64</sup> compared to non-smokers without passive smoke exposure. For sub-types of AMD an increased relative odds was shown which did not reach statistical significance, possibly due to smaller numbers of available cases for analysis.

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<sup>63</sup> See at page 76.

<sup>64</sup> See at page 75.

96. In former smokers, the authors found that risk decreased as time since quitting increased. The risk for those who had not smoked for over 20 years was comparable to that of non-smokers.<sup>65</sup>

### **Council's comments**

97. The Council noted the methodological shortcomings of case control studies generally, including retrospective recall of exposures. The Council considered that this study suffered from an inadequate level of measurement, as the authors did not take into account different workplace exposures. However, the Council did acknowledge that this type of study has some positive features. It allows for a greater number of cases to be identified (435 in this study) whereas prospective studies require a very large number of participants and tend to identify fewer cases. In this study 158 cases were examined with data on passive smoking, as only non-smokers were included in that analysis.<sup>66</sup>
98. The Council considered that a positive feature of this study was that the authors attempted to quantify the level of exposure to passive smoking by classifying it as '*at least five years*' of living with a smoker, although because the study was conducted with older participants, the Council considered it was likely that the exposure could have continued for much longer than five years.
99. The Council considered that an important limitation of this study was that the controls used were spouses of participants (although controls were not necessarily matched with their own spouse). The Council considered that this weakened the study, which would have been stronger had controls been matched from a randomly sampled population of healthy persons. The Council also considered that including as controls some persons with early stage eye disease was a methodological weakness, although it was more likely to have biased the results against detecting an association, so did not weaken the conclusions.
100. A further weakness was that the study only adjusted for age and gender, and made no attempt to adjust for other potential confounders such as family history and diet.
101. The Council nevertheless considered that the overall findings of the study were not invalidated by the methodological weaknesses. The study remained, in the Council's view, a persuasive study in favour of the relevant association. The Council considered important the study's finding that subjects who stopped smoking more than 20 years ago had no greater risk of developing AMD than non-smokers.

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<sup>65</sup> See at page 78.

<sup>66</sup> See at page 76.

102. The Council considered that despite the methodological limitations of this study, the findings 'point to' the relevant association. In the Council's view the study did not satisfy the balance of probabilities test.

**Chakravarthy, U, Augood, C, Bentham, GC, de Jong, PTVM, et al 2007, 'Cigarette Smoking and Age-Related Macular Degeneration in the EUREYE Study', *Ophthalmology*, 114(6), pp. 1157-1163. (RMA ID 44748)**

103. This study examined the association between smoking and AMD in a representative sample of 4750 participants aged over 65 years. Data were gathered from seven centres across Europe (the EUREYE study).
104. Participants were categorised as never smokers, ex-smokers (further sub-categorised by years since quitting smoking) and current smokers.<sup>67</sup> Age, gender, diabetes, socioeconomic status and history of cardiovascular disease were all identified as potentially confounding.<sup>68</sup>
105. The strongest association found was for current smokers (OR 2.91, 95% CI 1.66-5.08).<sup>69</sup> All ex-smokers had an elevated risk of AMD (OR 1.69, 95% CI 1.10-2.59).<sup>70</sup> However, no association was observed in those who had quit smoking more than 20 years previously. Their odds of developing the disease were similar to those of never smokers.<sup>71</sup>
106. The authors contended that their study provided additional evidence for the association between active smoking and AMD. They noted that the small number of cases in individual studies (for example, the Beaver Dam study and the Blue Mountains study) provided limited statistical power to detect an association.<sup>72</sup>

### **Council's comments**

107. The Council noted that this study did not consider passive smoking. However, it considered it was nevertheless relevant to the scope of review, because it supported the findings in Khan et al that any association between active smoking and AMD ceased 20 years after quitting smoking.

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<sup>67</sup> See at page 1158.

<sup>68</sup> See at page 1158.

<sup>69</sup> See at page 1159 and Table 1.

<sup>70</sup> Ibid.

<sup>71</sup> Ibid.

<sup>72</sup> See at pages 1161 - 2.

**Delcourt, C, Diaz, J-L, Ponton-Sanchez, A & Papoz, L 1998**, for The POLA Study Group, 'Smoking and Age-Related Macular Degeneration. The POLA study', *Archives of Ophthalmology*, Vol. 116, pp. 1031-1035. (RMA ID 20953)

108. The authors of this prospective French population based study examined 2196 representative participants aged 60 years or older.
109. The authors found a dose-dependant gradient between smoking and AMD in the number of pack-years. Risk increased with increasing levels of exposure. For smokers of 40 pack-years, the risk reached 5.2 times that of never smokers.
110. After age and sex adjustment, current smokers had 3.6 times the risk of AMD, which remained with borderline statistical significance after adjusting for diabetes and cardiovascular indications (OR 3.5, 95% CI 1.0-12.2). Former smokers had 3.2 times the risk of never smokers, which remained significant (OR 2.8, 95% CI 1.1-6.9) after adjusting for the same potential confounding factors.<sup>73</sup>
111. The authors found that as the years since cessation increased, the risk of AMD decreased. Participants who had quit smoking less than 20 years ago had a similar risk profile as current smokers. However, those participants who had quit smoking more than 20 years ago did not have a significantly different risk profile than that of never smokers.<sup>74</sup>
112. The authors pointed out that the participants who had ceased smoking for more than 20 years had a shorter duration of smoking and suggested that this may explain the reduction in risk.<sup>75</sup>
113. The study did not consider passive smoking.

#### ***Council's comments***

114. The Council considered that this study supported the conclusions in Khan et al and the EUREYE study that the association of AMD from active smoking disappears 20 years after smoking cessation. This study was one of four studies that found there is no association between active smoking and AMD 20 years after quitting smoking.
115. While the study did not examine any association with passive smoking, it assisted the Council to determine the recency limits of the exposure of active smoking, which plausibly and by analogy, must also indicate the maximum duration of any passive smoking recency.

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<sup>73</sup> See at page 1033.

<sup>74</sup> See at page 1034.

<sup>75</sup> See at page 1034.



### ***Pooled studies***

**Smith, W, Assink, J, Klein, R, Mitchell, P, Klaver, CCW, Klein, BEK, Hofman, A, Jensen, S, Wang, JJ & de Jong, PTVM 2001**, 'Risk Factors for Age-related Macular Degeneration. Pooled Findings from Three Continents', *Ophthalmology*, Vol. 108: 697-704. (RMA ID 27058)

116. This study pooled the findings from three large population studies - the Beaver Dam Eye Study, the Rotterdam Study and the Blue Mountains Eye Study - comprising a total of 14 752 participants all with objectively confirmed AMD diagnoses from gradable photographs.
117. The authors noted that, apart from age, tobacco smoking constituted the only clear association with AMD at all sites and pooled over all sites.<sup>76</sup>
118. The authors noted the strengths of the study were its large sample size, the relatively similar photographic documentation of the disease and consistency of grading; although it was noted that the photographic technique and grading could still contain inconsistencies between populations.<sup>77</sup> It was noted that exposure measurements could be different at each site and that there were potential differences in interviewer administered questionnaires.<sup>78</sup>
119. When pooled, active smoking was found to be strongly associated with all AMD, as well as with its two main sub-types. Current smokers had a statistically significant three-fold risk of AMD (3.12, 95% CI 2.10 - 4.64).<sup>79</sup> For ex-smokers, the associations were not statistically significant, but size and direction of the odds ratios consistently favoured an association (OR 1.36, 95% CI 0.97-1.90).<sup>80</sup>
120. Any potential association between exposure to passive smoking and AMD was not reported.

### ***Council's comments***

121. The Council noted that the Rotterdam Study was not available to the RMA at the relevant times, but the pooled analysis (which was available to the RMA at the relevant times) included data from that study.

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<sup>76</sup> See at page 700.

<sup>77</sup> See at page 700.

<sup>78</sup> See at page 700.

<sup>79</sup> See Table 3 at page 701 and at page 702.

<sup>80</sup> See Table 3 at page 701.

122. The Council considered that pooling the data overcame the limited power of individual studies to detect associations for sub-types of AMD and was the best way to overcome the methodological shortcomings of smaller individual studies. The pooling confirmed the strong association between active smoking and AMD. While the study did not address passive smoking, the Council considered that the findings about active smoking contributed to the body of evidence and by inference, pointed to the relevant association.
123. The Council considered that the findings did not satisfy the balance of probabilities test.

### **Meta-analysis**

**Cong, R et al 2008**, 'Smoking and the Risk of Age-related Macular degeneration: A Meta-Analysis', *Ann Epidemiol*, 18: 647-56. (RMA ID 50074)

124. This review of quality studies examined the association between smoking and AMD. The reviewers meta-analysed the results of the five cohort and eight case controls studies which met their defined inclusion criteria.
125. Consistent with other reviews, the pooled results demonstrated strong and statistically significant associations between smoking and AMD.
126. Current and 'ever' smoking history all increased the risk of AMD with a dose response.
127. Several biological mechanisms were suggested.<sup>81</sup>
128. The strongest associations were for current smoking, whereas past smoking did not quite reach statistical significance in the prospective studies. The findings of studies, including the EUREYE study, that the association ceased 20 years after quitting smoking were noted and the authors suggested that the reason may be that current smokers have a longer exposure time than past smokers.<sup>82</sup> The study did not report any analysis of any potential association with passive smoking.

### **Council's comments**

129. Although this study did not directly address the question of passive smoking, the Council considered the paper to be useful because of its methodology. Meta-analysis is considered by epidemiologists to be a high level of evidence, providing that the study is well conducted. This study supported the findings of the previous pooled study by Smith et al where the association was found between active smoking and AMD. It added weight to the reasonableness of the relevant association.

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<sup>81</sup> See at pages 649 - 652.

<sup>82</sup> See at page 654.

## **Review Studies**

**Lois, N, Abdelkader, E, Reglitz, K, Garden, C & Ayres, JG 2008**, 'Environmental tobacco smoke (ETS) exposure and eye disease', *Br J Ophthalmol*, 92(10): 1304-10. (RMA ID 49834)

130. This review focused on the scientific evidence of any association between exposure to ETS and certain eye diseases, including AMD. Only three analytical studies were found to have considered any association between passive smoking and AMD, the original studies of all of which have been analysed above:
- **Klein *et al* (1993)** of the Beaver Dam Eye Study, which did not find an association between passive smoking and AMD;
  - **Khan *et al* (2006)** who did find a statistically significant increased risk of late AMD; and
  - **Smith *et al* (1996)** the Blue Mountains Eye Study, which was unable to detect a statistically significant increased risk, but found that the size and direction of the effect were suggestive of a positive association.
131. The authors noted that Klein *et al* (1993) found no association between passive smoking and any type of AMD. However, the reviewers considered it a limitation that in this study ex-smokers living in a household with a current smoker were considered to be passive smokers, suggesting that this may have drawn the results toward the null.<sup>83</sup>
132. The reviewers noted the contrast with the Klein *et al* (1993) findings, in the:
- 132.1. Blue Mountains Eye Study, which found a statistically non-significant association between exposure to passive smoking and AMD; and
- 132.2. Khan *et al*, which found that exposure to passive smoking had a statistically significant association with AMD.<sup>84</sup>
133. The reviewers noted the different definitions of passive smoking in these studies.
134. The authors also reviewed potential biological mechanisms which might explain the relevant association.

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<sup>83</sup> See at page 6.

<sup>84</sup> See at page 6.

135. They explained that smoking may cause oxidative damage to the retina and may activate the release of inflammatory mediators, reduce choroidal blood flow, reduce absorption of key antioxidants such as lutein and may lead to interactions with a variant of the complement factor H gene, Y402H, in some people.<sup>85</sup>
136. Additionally, "sidestream" smoke from the tip of a burning cigarette, which is thought to be approximately 80% of ETS exposure, has been shown to be particularly toxic and may induce inflammation and tumour development.<sup>86</sup> Tobacco smoke contains over 4000 substances, of which around 150 have clear data on toxicity. [Those most likely to cause irritation include acrolein, formaldehyde and other aldehydes and solvents such as styrene and phenol. Additionally, smoke particles themselves can be irritants.]<sup>87</sup>
137. Experimental studies identified by the authors showed that mice exposed to passive smoking had increased levels in their blood of vascular endothelial growth factor, which the authors considered may induce the growth of small blood vessels in the eye, as occurs in neovascular macular degeneration.<sup>88</sup>

### ***Council's comments***

138. The Council in its review placed most weight upon the data in original studies, although it noted that review studies can provide a useful summary.
139. The Council noted that the reviewers suggested several mechanisms by which active smoking could be associated with AMD.
140. The Council considered that the reviewers made a strong case that the relevant association is biologically plausible.
141. However, biological plausibility of itself is not sufficient (biological plausibility is only one of the Bradford Hill criteria which applies at Step 1 in determining the pool of information). The Council must determine whether the sound medical-scientific evidence in the pool points to the relevant association, and if so, whether it satisfies the balance of probabilities test.

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<sup>85</sup> See at page 7.

<sup>86</sup> See at pages 3 - 4.

<sup>87</sup> See at page 4.

<sup>88</sup> See at page 7.

**Thornton, J, Edwards, R, Mitchell, P, Harrison, RA, Buchan, I & Kelly, SP 2005,** 'Smoking and age-related macular degeneration: a review of association', *Eye*, Vol. 19, pp. 935-944. (RMA ID 42214)

142. The authors conducted a systematic review of the evidence of association of active smoking to AMD. They included cross-sectional, case control and prospective cohort studies published in English.
143. The reviewers noted that the Beaver Dam Eye study, which found a strong association between active smoking and AMD at baseline, found the association was weaker at the five and ten year follow-up.<sup>89</sup>
144. This review noted that strong and consistent evidence existed for an association between active smoking and AMD, with evidence of dose-response and temporality. However, the authors noted the potential for exposure misclassification, noting that a study which did not account for a change in a partner's smoking status from baseline may bias the results towards the null.<sup>90</sup>
145. In relation to passive smoking, the authors noted the sparse evidence available, but commented on the tendency in more recent studies to use assessments of multiple exposures, for example in the workplace and the home.<sup>91</sup>

### ***Council's comments***

146. The Council noted the reviewers' comments, but relied on its own analysis of the original studies.

### **THE COUNCIL'S CONCLUSIONS ON THE SOUND MEDICAL-SCIENTIFIC EVIDENCE**

147. The Council agreed with the Commissions' submission that for active smoking the information available to the RMA at the relevant times:
  - 'pointed to' the relevant association;<sup>92</sup> and
  - provided a relevant connection on the balance of probabilities.<sup>93</sup>
148. The Council noted the studies which found no association with active smoking 20 years after cessation (the EUREYE study, the POLA study, Khan et al and Delcourt et al).

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<sup>89</sup> See at page 937.

<sup>90</sup> See at page 942.

<sup>91</sup> See at page 941.

<sup>92</sup> See [52.1].

<sup>93</sup> See [52.2].

149. The Council noted that several key studies had addressed the association between active smoking and AMD. However, of these, only Klein et al (1993, 2008), Khan et al (2006) and Smith et al (1996) had reported on passive smoking. Only Khan et al had found a positive association that was statistically significant. Smith et al had found a statistically non-significant association. Klein et al had found no association.
150. Of the reviews and meta-analyses, only Lois et al (2008) and Thornton et al (2005) mentioned passive smoking and considered further research was required.
151. The Council considered that all the studies in the information were underpowered so far as considering any potential association with passive smoking was concerned. The positive association found by Khan et al was weaker than that found for active smoking, but results between studies showed some consistency, particularly with respect to the equivalence of risk between former smokers and never smokers 20 years after former smokers quit smoking.
152. The Council considered that the studies suffered from limitations concerning:
  - exposure measurement (which is limited by the questions asked of the participants)
  - case definition
  - insufficient adjustment for changes in exposure status
  - insufficient adjustment for confounding factors, such as nutrition, and
  - retrospective recall of smoking history.
153. Survival biases in the follow up Klein et al study (2008) may have also biased against a stronger association and numbers of cases were sometimes too small to detect a statistically significant association.
154. The Council considered that an association with passive smoking was biologically plausible and noted that possible biological mechanisms had been suggested by a number of authors: see, for example, Lois et al (2008). However, as mentioned above, biological plausibility is not sufficient.
155. An issue which exercised the Council was the need for exposure to passive smoking to be recent and continuing. While the Council accepted that active smoking was addictive, passive smoking is not.
156. The Council noted the studies which found no association with active smoking 20 years after cessation. As it must be assumed that passive smoking is not as deleterious as active smoking, an analogy with active smoking (i.e. that any association ceases after 20 years from the most recent exposure) would be generous.

## **THE COUNCIL'S CONCLUSIONS ON WHETHER THERE SHOULD BE A FACTOR(S) FOR PASSIVE SMOKING**

157. The Council, having closely analysed all the information in the pool, placed particular weight on the articles discussed in detail above. The critical question for the Council was whether the sound medical-scientific evidence 'points to', as opposed to merely 'leaves open' the possibility of the 'relevant association'.<sup>94</sup>
158. The Council noted that the average age of onset of late AMD is generally from the seventh to ninth decades of life. The disease is common in older persons and is known to be associated with ageing. However, there are exceptions and rare cases may present with a much earlier onset of the disease. Consideration of the length of time between exposure to passive smoking and disease onset is therefore important. The contribution of lifestyle factors is difficult to determine.
159. The Council recognised the strength of the evidence of the association with active smoking. However, the Council considered that there was limited evidence in the information available to the RMA which 'touched on' any association with passive smoking.
160. The Council also noted that there was very limited sound medical-scientific evidence supporting an association between the early stages of the disease and past smoking; which suggested to the Council that the continuation of smoking, right up to the development of late stage disease, i.e. current or very recent smoking, is important.
161. The Council noted that the study by Khan et al was the only one in the pool of information which found a statistically significant positive association with passive smoking. For the reasons discussed above, the Council considered that study was affected by methodological shortcomings. However, the Council was not in a position to dismiss the findings as invalid.
162. The Council also noted the Applicant's submission that Australian service personnel in the past have often been exposed to extreme levels of environmental tobacco smoke in confined spaces.<sup>95</sup>
163. Notwithstanding the limitations of the Khan et al paper, and the limited sound medical-scientific evidence generally on passive smoking, the Council was very cognisant of the low threshold of the reasonable hypothesis test. Given the positive data from the Khan et al paper and the supportive, but not statistically significant, findings from the Blue Mountains Eye Study, the Council considered that the sound medical-scientific evidence that was available to the RMA at the relevant times 'pointed to' the relevant association for late AMD.

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<sup>94</sup> See full Federal Court decision at [49] per Branson J and [52] of these Reasons.

<sup>95</sup> Although the Council remained cognisant that it is constrained to conduct its review by reference to the information which was available to the RMA at the relevant times.

164. Accordingly, the Council decided that there was sufficient information on which the RMA could have relied to amend Statement of Principles No. 13 of 2009 by including a passive smoking factor for clinical onset.
165. The Council considered that there was insufficient sound medical-scientific evidence which touched on any potential association between passive smoking and clinical worsening of AMD. The Council also noted that as AMD is a disease of advanced age, the possibility of an association between passive smoking and clinical worsening is not persuasive. The Council decided that the sound medical-scientific evidence available to the RMA at the relevant times was insufficient to justify an amendment to Statement of Principles No. 13 of 2009 by the inclusion of a clinical worsening factor.
166. The Council considered that the sound medical-scientific evidence concerning passive smoking did not provide a relevant connection on the balance of probabilities. The sound medical-scientific evidence fell short of supporting an association on the balance of probabilities due to methodological limitations, lack of statistical significance and the paucity of studies addressing passive smoking and AMD. Accordingly, the Council decided that the information available to the RMA at the relevant times was insufficient to justify an amendment to Statement of Principles No. 14 of 2009.

***Consideration of new factor***

167. In formulating a factor for clinical onset in the reasonable hypothesis Statement of Principles, the Council noted the EUREYE study, which found a strong association between active smoking and late AMD where the smoking had occurred for a period of over six years. It considered that this duration of exposure was somewhat consistent with the Khan et al case control study, which found an association for passive smoking where the exposure occurred for at least five years.
168. By letters dated 10 January 2012, the Council provided the Applicant and the Commissions with an opportunity to comment, by 17 February 2012, on the wording of a proposed new factor in respect of passive smoking in Statement of Principles No. 13 of 2009. The proposed new factor was:

For late macular degeneration only:

being in an atmosphere with a visible tobacco smoke haze in an enclosed space for at least 10 000 hours within the 20 years before the clinical onset of late macular degeneration, and where the person was a non-smoker during the entire period of the exposure.



169. The Commissions made no comment on the wording of the proposed new factor. The Applicant contended that the wording of the proposed new factor was:

too restrictive, in fact in its present form with the words 'within the 20 years' it doesn't cover WW2 veterans. ... I consider that the wording for this factor should be as follows,

For Age Related or late macular degeneration ONLY:

being in an atmosphere with a visible tobacco smoke haze in an enclosed space for 10 000 hours before the clinical onset of late macular degeneration and where the person was a non-smoker during the entire period of the exposure.

170. The Applicant contended that the proposed new factor should not contain a requirement that the exposure to passive smoking must have occurred within 20 years before the clinical onset of late macular degeneration.
171. The Council took the Applicant's comments into account. However, the Council noted the EUREYE study, Khan et al and the POLA study, all of which found that there was no association with active smoking 20 years after the cessation of smoking.
172. In other words, these studies found that the prevalence of late macular degeneration was not increased in persons whose exposure to smoking had ceased 20 years before, compared to persons who had not been exposed.
173. As stated above (see [156]), as it must be assumed that passive smoking is not as deleterious as active smoking, the Council was of the view that the requirement that the exposure to passive smoking must occur within 20 years prior to the clinical onset of late macular degeneration was supported by the sound medical-scientific evidence available to the RMA at the relevant times.
174. On the basis of these studies, the Council considered that a minimum of five years' exposure to passive smoking by a person who was a non-smoker at the time of the exposure, is required, where exposure must occur continuously or discontinuously within the 20 years before clinical onset.

## **DECISION**

175. The Council made the declarations summarised in **paragraphs 1 and 2** above.

## **EVIDENCE BEFORE THE COUNCIL**

176. The information considered by the Council (being the information that the RMA advised was available to (before) the RMA at the relevant times and which the RMA sent to the Council in accordance with section 196K of the VEA) is listed in **Appendix B**.
177. As mentioned above, the information upon which the Council understands the Applicant and the Commissions relied (being information which the RMA advised was available to (before) the RMA at the relevant times and which the RMA sent to the Council in accordance with section 196K of the VEA) is listed in **Appendices C and E** respectively.
178. The information to which the Applicant referred (being information which the RMA advised was new information, that is, information which was not available to (not before) the RMA at the relevant times, and so was not considered by the Council in reaching its review decision) is listed in **Appendix D**.

## Articles cited in the Council's analysis

### Information before the RMA:

#### Appendices

<b>Appendix A</b>	Preliminary list of the proposed pool of information, as advised to the Applicant and Commissions by letters dated 15 June 2011 (see [28] of the Reasons).
<b>Appendix B</b>	Information forwarded to the Council under section 196K of the VEA referable to the Council's review of Statements of Principles Nos. 13 and 14 of 2009
<b>Appendix C</b>	Information upon which the Applicant relied (being information which the RMA advised was available to (before) the RMA at the relevant times and which the RMA sent to the Council in accordance with section 196K of the VEA).
<b>Appendix D</b>	Material that the RMA advised was not available to (not before) the RMA (which the Applicant contended was in existence at the relevant times, and so could have been accessed by the RMA).
<b>Appendix E</b>	Information upon which the Commissions relied (being information which the RMA advised was available to (before) the RMA at the relevant times and which the RMA sent to the Council in accordance with section 196K of the VEA).

## APPENDIX A

Preliminary and final list of the pool of information, as advised to the Applicant and Commissions by letters dated 15 June 2011 (see [28] and [57] of the Reasons).

RMA ID	DESCRIPTION
6408	Klein, R, Klein, BEK, Linton, KLP & DeMets, DL 1993, 'The Beaver Dam eye study: The relation of age-related maculopathy to smoking' <i>Am J Epidemiol</i> , vol. 137, no. 2, pp. 190-200.
6410	Klein, R, Klein, BE & Linton, KL 1992, 'Prevalence of age-related maculopathy. The Beaver Dam Eye study', <i>Ophthalmology</i> , vol. 99, no. 6, pp. 933-943.
6411	Mitchell, RA 1993, 'Prevalence of age related macular degeneration in persons aged 50 years and over resident in Australia', <i>J Epidemiol Community Health</i> , vol. 47, pp. 42-45.
6414	The Eye Disease Case-Control Study Group 1992, 'Risk factors for neovascular age-related macular degeneration', <i>Arch Ophthalmol</i> , vol.110, pp.1701-1708.
7980	Seddon, JM, Willett, WC, Speizer, FE & Hankinson, SE 1996, 'A prospective study of cigarette smoking and age-related macular degeneration in women', <i>JAMA</i> , 276(14) pp 1141-46.
7981	Christen, WG, Glynn, RJ, Manson, JE, Ajani, UA & Buring, JE 1996, 'A prospective study of cigarette smoking and risk of age-related macular degeneration in men', <i>JAMA</i> , vol. 276, no. 14, pp. 1147-1151.
7982	Klein, R & Klein, BEK 1996, '[Comment] Smoke gets in your eyes too', <i>JAMA</i> , vol. 276, no.14, pp.1178-79.
9102	Smith, W, Mitchell, P & Leeder, SR 1996, 'Smoking and age-related maculopathy: the Blue Mountains eye study', <i>Arch Ophthalmol</i> , vol. 114, pp. 1518-1523.
13630	Egan, KM & Seddon, JM 1994, 'Age-Related Macular Degeneration: Epidemiology'. In Albert, DM & Jakobiec, FA (Eds). <i>Principles &amp; Practice of Ophthalmology</i> , 1st Edition, Vol. 1, Chapter 109, pp. 1266-1274. Philadelphia, PA, W.B. Saunders Company.
13631	Klein, R & Klein, BEK 1996, '[Comment] Smoke Gets in Your Eyes Too', <i>JAMA</i> , vol. 276, no. 14, pp 1178-1179.
13632	Christen, WG, Glynn, RJ, Manson, JE, Ajani, U & Buring, JE 1996, 'A Prospective Study of Cigarette Smoking and Risk of Age-Related Macular Degeneration in Men', <i>JAMA</i> , vol. 276, no. 14, pp. 1147-1151.
13633	Seddon, JM, Willett, WC, Speizer, FE & Hankinson, SE 1996, 'A Prospective Study of Cigarette Smoking and Age-Related Macular Degeneration in Women', <i>JAMA</i> , vol. 276, no. 14, pp. 1141-1146.
13639	Tamakoshi, A, Yuzawa, M, Matsui, M, Uyama, M, Fujiwara, NK & Ohno, Y 1997, 'Smoking and neovascular form of age related macular degeneration in late middle aged males: findings from a case-control study in Japan', <i>British Journal of Ophthalmology</i> , vol. 81, pp. 901-904.
13642	Klein, R, Klein, BEK, Jensen, SC & Meuer, SM 1997, 'The Five-year Incidence and Progression of Age-related Maculopathy. The Beaver Dam Eye Study', <i>Ophthalmology</i> , vol.104, no.1, pp. 7-21.

13643	Cruickshanks, KJ, Hamman, RF, Klein, R, Nondahl, DM & Shetterly, SM 1997, 'The Prevalence of Age-Related Maculopathy by Geographic Region and Ethnicity. The Colorado-Wisconsin Study of Age-Related Maculopathy', <i>Arch Ophthalmol</i> , vol. 115, pp. 242-250.
13644	Klaver, CCW, Assink, JJM, Vingerling, JR, Hofman, A & de Jong, PTVM 1997, 'Smoking Is Also Associated With Age-Related Macular Degeneration in Persons Aged 85 Years and Older: The Rotterdam Study.' <i>Arch Ophthalmol</i> , vol. 115, p. 945.
13646	Smith, W, Mitchell, P & Leeder, SR 1996, 'Smoking and Age-Related Maculopathy. The Blue Mountain Eye Study', <i>Arch Ophthalmol</i> , vol. 114, pp. 1518-1523.
13647	Vingerling, JR, Hofman, A, Grobbee, DE & de Jong, PTVM 1996, 'Age-Related Macular Degeneration and Smoking', <i>Arch Ophthalmol</i> , vol. 114, pp. 1193-1196.
13702	Hirvela, H, Luukinen, H, Laara, E & Laatikainen, L 1996, 'Risk Factors of Age-related Maculopathy in a Population 70 Years of Age or Older', <i>Ophthalmology</i> , vol. 103, no. 6, pp. 871-877.
13704	Mitchell, P, Smith, W, Attebo, K & Wang, JJ 1995, 'Prevalence of Age-related Maculopathy in Australia. The Blue Mountains Eye Study', <i>Ophthalmology</i> , vol. 102, no. 10, pp. 1450-1460.
13705	Bressler, NM & Bressler, SB 1995, 'Preventative Ophthalmology. Age-related Macular Degeneration', <i>Ophthalmology</i> , vol. 102, no. 8, pp. 1206-1211.
13707	Bird, AC, Bressler, NM, Bressler, SB, Chisholm, IH, Coscas G, Davis, MD, de Jong, PT, Klaver, CC, Klein, BE & Klein, R 1995, 'An International Classification and Grading System for Age-related Maculopathy and Age-related Macular Degeneration', <i>Survey of Ophthalmology</i> , vol. 39, no. 5, pp. 367-374.
13763	Hammond Jr, BR, Wooten, BR & Snodderly, DM 1996, 'Cigarette Smoking and Renital Carotenoids: Implications for Age-related Macular Degeneration', <i>Vision Research</i> , vol. 36, no.18, pp. 3003-3009.
13764	Manners, TD & Clarke, MP 1995, '[Comment] Maculopathy Associated with Diazepam', <i>Eye</i> , vol. 9, pt. 5, pp. 660-662.
13820	Vingerling, JR, Klaver, CCW, Hofman, A & de Jong, PTVM 1995, 'Epidemiology of Age-related Maculopathy', <i>Epidemiologic Reviews</i> , vol. 17, no. 2, pp. 347-360.
13864	Klein, R, Klein, BEK & Moss, SE 1998, 'Relation of Smoking to the Incidence of Age-related Maculopathy', <i>American Journal of Epidemiology</i> , vol. 147, no. 2, pp. 103-110.
14633	Delcourt, C & Papoz, L 1998, 'Smoking and age-related macular degeneration', <i>Arch Ophthalmol</i> , vol. 116, no. 8, pp. 1031-1035.
20943	Seddon, JM 2000, 'Epidemiology of age-related macular degeneration', in Albert, DM & Jakobiec, FA (Eds). <i>Principles &amp; Practice of Ophthalmology</i> , 2nd edn, vol. 1, Chapter 47, pp. 521-531, Philadelphia, PA, W.B. Saunders Company.
20949	Ajani, UA, Christen, WG, Manson, JE, Glynn, RJ, Schaumberg, D, Buring JE & Hennekens, CH 1999, 'A prospective study of alcohol consumption and the risk of age-related macular degeneration', <i>Annals of Epidemiology</i> , vol. 9, pp. 172-77.
20952	Friedman, E 2000, 'The role of the atherosclerotic process in the pathogenesis of age-related macular degeneration', <i>American Journal of Ophthalmology</i> , vol. 130, no. 5, pp. 658-663.

20953	Delcourt, C, Diaz, J-L, Ponton-Sanchez, A & Papoz, L 1998, 'Smoking and age-related macular degeneration. The POLA study', <i>Archives of Ophthalmology</i> , vol. 116, pp. 1031-1035.
20954	Chaine, G, Hullo, A, Sahel, J, Soubrane, G, Espinasse-Berrod, M, Schutz, D, Bourguignon, C, Harpey, C, Brault, Y, Coste, M, Moccatti, D & Bourgeois, H 1998, 'Case-control study of the risk factors for age related macular degeneration', <i>British Journal of Ophthalmology</i> , vol. 82, pp. 996-1002.
20956	Age-related eye study group 2000, 'Risk factors associated with age-related macular degeneration. A case-control study in the age-related eye disease study: age-related eye disease study report number 3', <i>Ophthalmology</i> , vol. 107, pp. 2224-2232.
21225	Hawkins, BS, Bird, A, Klein, R & West, SK 1999, 'Epidemiology of age-related macular degeneration', <i>Molecular Vision</i> , vol. 5, pp. 26-29.
21228	Chan, D 1998, 'Cigarette smoking and age-related macular degeneration', <i>Optom Vis Sci</i> , vol. 75, pp. 476-484.
21229	Cheng, ACK, Pang, CP, Leung, ATS, Chua, JK, Fan, DS & Lam, DS 2000, 'The association between cigarette smoking and ocular disease', <i>HKMJ</i> , vol. 6, pp. 195-202.
27025	Hyam, L & Nebrorsky, R 2002, 'Risk factors for age-related macular degeneration: an update', <i>Current Opinion in Ophthalmology</i> , vol. 13, pp. 171-5.
27031	Snellen, ELM, Verbeek, ALM, van den Hoogen, GWP, Cruysberg, JRM & Hoyng, CB 2002, 'Neovascular age-related macular degeneration and its relationship to antioxidant intake', <i>Acta Ophthalmologica Scandinavica</i> , vol. 80, pp. 368-371.
27039	McCarthy, CA, Mukesh, BN, Fu, CL, Mitchell, P, Wang, JJ & Taylor, HR 2001, 'Risk factors for age-related maculopathy. The Visual Impairment Project', <i>Arch Ophthalmol</i> , vol. 119, pp. 1455-1462.
27045	Mitchell, P, Wang, JJ, Smith, W & Leeder, SR 2002, 'Smoking and the 5-year incidence of age-related maculopathy. The Blue Mountain Eye Study', <i>Arch Ophthalmol</i> , vol. 120, pp. 1357-1363.
27056	Mitchell, P, Wang, JJ, Foran, S & Smith, W 2002, 'Five-year incidence of age-related maculopathy lesions. The Blue Mountains Eye Study', <i>American Academy of Ophthalmology</i> , vol. 109, no. 6, pp. 1092-7. Erratum, <i>Ophthalmology</i> , 109(9), pp. 1588.
27058	Smith, W, Assink, J, Klein, R, Mitchell, P, Klaver, CCW, Klein, BEK, Hofman, A, Jensen, S, Wang, JJ & de Jong, PTVM 2001, 'Risk factors for age-related macular degeneration. Pooled findings from three continents', <i>Ophthalmology</i> , vol. 108, pp. 697-704.
27059	VanNewkirk, MR, Nanjan, MB, Wang, JJ, Mitchell, P, Taylor, HR & McCarty, CA 2000, 'The prevalence of age-related maculopathy. The visual impairment project', <i>Ophthalmology</i> , vol. 107, pp. 1593-1600.
27071	Evans, JR 2001, 'Risk factors for age-related macular degeneration. Progress' <i>Retinal &amp; Eye Research</i> , vol. 20, no. 2, pp. 227-253.
27073	Houston, T 2001, 'Smoking and age-related macular degeneration. In reply', <i>American Family Physician</i> , vol. 63, no. 2. p 225.
27075	Voutilainen-Kaunisto, R, Terasvirta, ME, Uusitupa, MIJ & Niskanen, LK 2000, 'Age-related macular degeneration in newly diagnosed type 2 diabetic patients and control subjects. A 10-year follow-up evolution, risk factors, and prognostic significance', <i>Diabetes Care</i> , vol. 23, pp. 1672-8.

27117	Klein, R, Klein, BE, Tomany, SC & Moss, SE 2002, 'Ten-year incidence of age-related maculopathy and smoking and drinking: The Beaver Dam Eye Study', <i>American Journal of Epidemiology</i> , vol. 156, no. 7, pp. 589-598.
27120	Mitchell, P, Chapman, S & Smith, W 1999, '[EDITORIAL]. 'Smoking is a major cause of blindness: A new cigarette pack warning', <i>Medical Journal of Australia</i> , vol. 171, pp.173-4.
28320	Snow, KK & Seddon, JM 1999, 'Do age-related macular degeneration and cardiovascular disease share common antecedents'. <i>Ophthalmic Epidemiology</i> , vol. 6, no. 2, pp. 125-43.
31991	Klein, R, Peto, T, Bird A & Vannewkirk, MR 2004, 'The epidemiology of age-related macular degeneration', <i>Am J Ophthalmology</i> , vol.137, pp.486-495.
31993	Miyazaki, M, Nakamura, H, Kubo, M, Kiyohara, Y, Oshima, Y, Ishibashi, T & Nose, Y 2003, 'Risk factors for age related maculopathy in a Japanese population: the Hisayama study', <i>Br J Ophthalmology</i> , vol. 87, pp.469-472.
31998	Tomany, SC, Wang, JJ, van Leeuwen, R, Klein, R, Mitchell, P, Vingerling, JR, Klein, BEK, Smith, W & de Jong, PTVM 2004, 'Risk factors for incident age-related macular degeneration', <i>Ophthalmology</i> , vol. 111, pp.1280-7.
31999	Wang, JJ, Klein, R, Smith, W, Klein, BEK, Tomany, S & Mitchell, P 2003, 'Cataract surgery and the 5-year incidence of late-stage age-related maculopathy', <i>Ophthalmology</i> , vol. 110, pp.1960-7.
36166	McCarty, CA, Mukesh, BN, Fu, CL, Mitchell, P, Wang, JJ & Taylor, HR 2001, 'Risk factors for age-related maculopathy: the visual impairment project', <i>Archives of Ophthalmology</i> , vol. 119, no.10, pp. 1455-1462.
36167	West, ES & Schein, OD 2005, 'Sunlight and age-related macular degeneration', <i>International Ophthalmology Clinics</i> , vol. 45, no. 1, pp. 41-7.
36187	Tomany, SC, Wang, JJ, van Leeuwen, R, Klein, R, Mitchell, P, Vingerling, JR, Klein, BEK, Smith, W & de Jong, PTVM 2004, 'Risk factors for incident age-related macular degeneration: pooled findings from 3 continents', <i>Ophthalmology</i> , vol. 111, no. 7, pp. 1280-7.
37432	Khan, JC, Thurlby, DA, Shahid, H, Clayton, DG, Yates, JRW, Moore, AT & Bird, AC 2006, 'Smoking and age related macular degeneration is a major determinant of risk for both geographic atrophy and choroidal neovascularisation', <i>Br J Ophthalmol</i> , vol. 90, pp.75-80.
37433	Kelly, SP, Thornton, J, Lyratzopoulos, G, Edwards, R & Mitchell, P 2004, '[Editorial Comment] 'Smoking and blindness' <i>BMJ</i> , vol. 328, pp. 537-38.
37689	Evans, JR, Fletcher, AE & Wormald, RPL 2005, '28,000 cases of age related macular degeneration causing visual loss in people aged 75 years and above in the United Kingdom may be attributable to smoking', <i>Br J Ophthalmol</i> , vol. 89, pp. 550-553.
37696	DeAngelis, MM, Lane, AM, Shah, CP, Ott, J, Dryja, TP & Miller, JW 2004, 'Extremely discordant sib-pair study design to determine risk factors for neovascular age-related macular degeneration', <i>Arch Ophthalmology</i> , vol. 122, no. 4, pp. 575-80.
42213	Krishnaiah, S, Das, T, Nirmalan, PK, Nutheti, R, Shamanna, BR, Rao, GN, & Thomas, R 2005, 'Risk factors for age-related macular degeneration: Findings from the Andhra Pradesh eye disease study in South India', <i>Invest Ophthalmol Vis Sci</i> , vol. 46, no. 12, pp. 4442-4449.
42214	Thornton, J, Edwards, R, Mitchell, P, Harrison, RA, Buchan, I & Kelly, SP 2005, 'Smoking and age-related macular degeneration: a review of association', <i>Eye</i> , vol. 19, pp. 935-944.

42246	Guymer, RH & Chong, EW-T 2006, 'Modifiable risk factors for age-related macular degeneration', <i>MJA</i> , vol. 184, no. 9, pp. 455-458.
42278	Clemons, TE 2005, 'Risk factors for the incidence of advanced age-related macular degeneration in the age-related eye disease study (AREDS)', <i>AREDS Report No. 19. Ophthalmology</i> , vol.112, no. 4, pp. 533-539.
42281	Arnarsson, A, Sverrisson, T, Stefánsson, E, Sigurdsson, H, Sasaki, H, Sasaki, K & Jonasson, F 2006, 'Risk factors for five-year incident age-related macular degeneration: the Reykjavik Eye Study', <i>Am J Ophthalmol</i> , vol. 142, pp. 419-428.
42282	Fraser-Bell, S, Wu, J, Klein, R, Azen, SP & Varma, R 2006, 'Smoking, alcohol intake, estrogen use, and age-related macular degeneration in Latinos: the Los Angeles Latino Eye Study', <i>Ophthalmology</i> , vol. 141, pp. 79-87.
42313	Wang, JJ, Rochtchina, E, Lee, AJ, Chia, E-M, Smith, W, Cumming, RG, & Mitchell, P 2007, 'Ten-year incidence and progression of age-related maculopathy. The Blue Mountains Eye Study', <i>Ophthalmology</i> , vol. 114, pp. 92-98.
42322	Dandekar, SS, Jenkins, SA, Peto, T, Bird, AC & Webster, AR 2006, 'Does smoking influence the type of age related macular degeneration causing visual impairment?', <i>Br J Ophthalmol</i> , vol. 90, pp. 724-727.
42393	Seddon, JM, George, S, Rosne, R B & Klein, ML 2006, 'CFH gene variant, Y402H, and smoking, body mass index, environmental associations with advanced age-related macular degeneration', <i>Human Heredity</i> , vol. 61, no. 3, pp. 157-65.
42396	Seddon, JM, George S & Rosner, B 2006, 'Cigarette smoking, fish consumption, omega-3 fatty acid intake, and associations with age-related macular degeneration', <i>Arch Ophthalmol</i> , vol. 124, pp. 995-1001.
42682	Sastry, BVR & Hemontolor, ME 1998, 'Influence of nicotine and cotinine on retinal phospholipase A2 and its significance to macular function', <i>Journal of Ocular Pharmacology and Therapeutics</i> , vol.14, no. 5, pp. 447-458.
42756	Zuehlke, RL, Lillis, PJ & Tice, A 1981, 'Antimalarial therapy for lupus erythematosus: an apparent advantage of quinacrine'. <i>Int J Dermatol</i> , vol. 20, no. 1, pp. 57-61.
43400	Xu, L, Li, Y, Zheng, Y & Jonas, JB 2006, 'Associated factors for age related maculopathy in the adult population in China: the Beijing eye study', <i>Br J Ophthalmol</i> , vol. 90, pp. 1087-1090.
44156	Schaumberg, DA, Hankinson, SE, Guo, Q, Rimm, E & Hunter, DJ 2007, 'A prospective study of 2 major age-related macular degeneration susceptibility alleles and interactions with modifiable risk factors', <i>Arch Ophthalmol</i> , vol. 125, no. 1, pp. 55-62.
44269	Klein, R, Deng, Y, Klein, BE, Hyman, L, Seddon, J, Frank, RN, Wallace, RB, Hendrix, SL, Kuppermann, BD, Langer, RD, Kuller, L, Brunner, R, Johnson, KC, Thomas, AM & Haan, M 2007, 'Cardiovascular disease, its risk factors and treatment, and age-related macular degeneration: Women's Health Initiative Sight Exam ancillary study', <i>Am J Ophthalmol</i> , vol.143, no. 3, pp. 473-83.
44748	Chakravarthy, U, Augood, C, Bentham, GC, de Jong, PT, Rahu, M, Seland, J, Soubrane, G, Tomazzoli, L, Topouzis, F, Vingerling, JR, Vioque, J, Young, IS & Fletcher, AE 2007, 'Cigarette smoking and age-related macular degeneration in the EUREYE Study', <i>Ophthalmology</i> , vol. 114, no. 6, pp. 1157-1163.
45375	Lim, JI 2006, 'Expert Column - risk factors for age-related macular degeneration', Obtained from <i>Medscape Ophthalmology</i> : <a href="http://www.medscape.com/viewarticle/532642">http://www.medscape.com/viewarticle/532642</a> (Access date not provided)



48247	Jager, RD, Mieler, WF & Miller, JW 2008, 'Age-related macular degeneration', <i>N Engl J Med</i> , vol. 358, no. 24, pp. 2606-17.
49618	Klein, R, Knudtson, MD & Klein, BEK 2007, 'Statin use and the five-year incidence and progression of age-related macular degeneration', <i>Am J Ophthalmol</i> , vol. 144, pp.1-6.
49621	Tan, JSL, Mitchell, P, Smith, W & Wang, JJ 2007, 'Cardiovascular risk factors and the long-term incidence of age-related macular degeneration', <i>Ophthalmol</i> , vol. 114, pp.1143-50.
49622	Barouch, FC & Miller, JW 2007, 'The role of inflammation and infection in age-related macular degeneration', <i>Int Ophthalmol Clin</i> , vol. 47, no. 2, pp. 185-97.
49625	O'Connell, ED, Nolan, JM, Stack, J, Greenberg, D, Kyle, J, Maddock, L & Beatty, S 2008, 'Diet and risk factors for age-related maculopathy', <i>Am J Clin Nutr</i> , vol. 87, pp. 712-22.
49626	Chiu, CJ, Milton, RC, Klein, R, Gensler, G & Taylor, A 2007, 'Dietary carbohydrate and the progression of age-related macular degeneration: a prospective study from the Age-Related Eye Disease Study', <i>Am J Clin Nutr</i> , vol. 86, pp. 1210-8.
49631	Bockelbrink, A, Roll, S, Ruether, K, Rasch, A, Greiner, W & Willich, SN 2008, 'Cataract surgery and the development or progression of age-related macular degeneration: a systemic review', <i>Surv Ophthalmol</i> , vol. 53, pp. 359-67.
49636	Baird, PN, Robman, LD, Richardson, AJ, Dimitrov, PN, Tikellis, G, McCarty, CA & Guymer, RH 2008, 'Gene-environment interaction in progression of AMD: the CFH gene, smoking and exposure to chronic infection', <i>Human Molecular Genetics</i> , vol. 17, no. 9, pp. 1299-305.
49638	Tan, JSL, Wang, JJ, Flood, V, Rochtchina, E, Smith, W & Mitchell, P 2008, 'Dietary antioxidants and the long-term incidence of age-related macular degeneration. The Blue Mountains Eye Study', <i>Ophthalmol</i> , vol. 115, pp. 334-41.
49643	Neuner, B, Wellmann, J, Dasch, B, Behrens, T, Claes, B, Dietzel, M, Pauleikhoff, D & Hense, HW 2007, 'Modeling smoking history: A comparison of different approaches in the MARS study on age-related maculopathy', <i>Ann Epidemiol</i> , vol.17, pp. 615-21.
49644	Tan, JSL, Mitchell, P, Kifley, A, Flood, V, Smith, W & Wang, JJ 2007, 'Smoking and the long-term incidence of age-related macular degeneration. The Blue Mountains Eye Study', <i>Arch Ophthalmol</i> , vol. 125, no. 8, pp.1089-95.
49646	Cheung, N, Liao, D, Islam, FMA, Klein, R, Wang, JJ & Wong, TY 2007, 'Is early age-related macular degeneration related to carotid artery stiffness? The Atherosclerosis Risk in Communities Study', <i>Br J Ophthalmol</i> , vol. 91, pp. 430-3.
49648	Weale, R 2006, [Comment] 'Smoking and age-related maculopathies', <i>The Lancet</i> , vol. 368, pp. 1235-6.
49649	de Jong, PTVM 2006, 'Age-related macular degeneration', <i>N Engl J Med</i> , vol. 355, pp. 1474-85.
49663	Miyazaki, M, Kiyohara, Y, Yoshida, A, Iida, M, Nose, Y & Ishibashi, T 2005, 'The 5-year incidence and risk factors for age-related maculopathy in a general Japanese population: the Hisayama study', <i>Invest Ophthalmol Vis Sci</i> , vol. 46, pp.1907-10.
49665	Vaicaitiene, R, Luksiene, DK, Paunksnis, A, Cerniauskiene, LR, Domarkiene, S & Cimbalas, A 2003, 'Age-related maculopathy and consumption of fresh vegetables and fruits in urban elderly', <i>Medicina</i> , vol. 39, no. 12, pp. 1231-6.

49670	Kelly, CSP, Edwards, R, Elton, P & Mitchell, P 2003, [Letter] 'Age related macular degeneration. Smoking entails major risk of blindness', <i>BMJ</i> , vol. 326, pp. 1458-9.
49678	van Leeuwen, R, Klaver, CCW, Vingerling, JR, Hofman, A & de Jong, PTVM 2003, 'Epidemiology of age-related maculopathy: a review', <i>Eur J Epidemiol</i> , vol. 18, pp. 845-54.
49680	Klein, R 2007, 'Overview of progress in the epidemiology of age-related macular degeneration', <i>Ophthalmic Epidemiology</i> , vol.14, pp.184-7.
49683	Chiu, CJ, Milton, RC, Gensler, G & Taylor, A 2007, 'Association between dietary glycemic index and age-related macular degeneration in nondiabetic participants in the age-related eye disease study', <i>Am J Clin Nutr</i> , vol. 86, pp. 180-8.
49686	Stone, EM 2007, 'Macular degeneration', <i>Annu Rev Med</i> , vol. 58, pp. 477-90.
49688	Klein, R, Knudtson, MD, Cruickshanks, KJ & Klein, BEK 2008, 'Further observations on the association between smoking and the long-term incidence and progression of age-related macular degeneration. The Beaver Dam Eye Study', <i>Arch Ophthalmol</i> , vol. 126, no. 1, pp. 115-21.
49689	Pham, TQ, Cugati, S, Rochtchina, E, Mitchell, P, Maloof, A & Wang, JJ 2007, 'Early age-related maculopathy in eyes after cataract surgery', <i>Eye</i> , vol. 21, pp. 512-7.
49692	Tan, JSL, Mitchell, P, Rochtchina, E & Wang, JJ 2007, 'Statins and the long-term risk of incident age-related macular degeneration: The Blue Mountains Eye Study', <i>Am J Ophthalmol</i> , vol. 143, pp. 685-7.
49693	Francis, PJ, George, S, Schultz, DW, Rosner, B, Hamon, S, Ott, J, Weleber, RG, Klein, ML & Seddon, JM 2007, 'The LOC387715 gene, smoking, body mass index, environmental associations with advanced age-related macular degeneration', <i>Hum Hered</i> , vol. 63, pp. 212-8.
49698	Vine, AK, Stader, J, Branham, K, Musch, DC, & Swaroop, A 2005, 'Biomarkers of cardiovascular disease as risk factors for age-related macular degeneration', <i>Ophthalmol</i> , vol. 112, pp. 2076-80.
49701	Buch, H, Vinding, T, la Cour, M, Jensen, GB, Prause, JU & Nielsen, NV 2005, 'Risk factors for age-related maculopathy in a 14-year follow-up study: the Copenhagen City Eye Study', <i>Acta Ophthalmologica Scandinavica</i> , vol. 83, pp. 409-18.
49705	Age-Related Eye Disease Study Research Group 2005, 'Risk factors for the incidence of advanced age-related macular degeneration in the age-related eye disease study (AREDS)', <i>AREDS Report No. 19. Ophthalmol</i> , vol. 112, pp. 533-9.
49834	Lois, N, Abdelkader, E, Reglitz, K, Garden, C & Ayres, J 2008, 'Environmental tobacco smoke (ETS) exposure and eye disease', <i>Br J Ophthalmol</i> , vol. 92, no. 10, pp. 1304-10.
50074	Cong, R, Zhou, B, Sun, Q, Gu, H, Tang, N & Wang, B 2008, 'Smoking and the risk of age-related macular degeneration: a meta-analysis', <i>Ann Epidemiol</i> , vol.18, pp. 647-56.
50080	Age-Related Eye Disease Study Research Group 2000, 'Risk factors associated with age-related macular degeneration: a case-control study in the age-related eye disease study: Age-related eye disease study report number 3', <i>Ophthalmol</i> , vol. 107, pp. 2224-32.

50477	Augood, C, Chakravarthy, U, Young, I, Vioque, J, de Jong, PT, Bentham, G, Rahu, M, Seland, J, Soubrane, G, Tomazzoli, L, Topouzis, F, Vingerling, JR & Fletcher, AE 2008, 'Oily fish consumption, dietary docosahexaenoic acid and eicosapentaenoic acid intakes, and associations with neovascular age-related macular degeneration', <i>Am J Clin Nutr</i> , vol. 88, pp. 398-406.
50863	Hoban, R 2006, 'Smoking linked to macular degeneration', Obtained from: <a href="http://www.voanews.com/english/archive/2006-07/2006-07-24-voa29cfm?CFID=7393">http://www.voanews.com/english/archive/2006-07/2006-07-24-voa29cfm?CFID=7393</a> (access date not provided)

## **APPENDIX B**

Information forwarded to the Council by the RMA under section 196K of the VEA referable to the Council's review of Statements of Principles Nos. 13 and 14 of 2009



## MACULAR DEGENERATION

RMA ID Number	Reference List for Investigation #225-4 as at 08 April 2008 [as amended 23 October 2009]
49712	Abramov Y, Borik S, Yahalom C, Fatum M, Avgil G, et al (2004). The effect of hormone therapy on the risk for age-related maculopathy in postmenopausal women. <i>Menopause</i> , 11(1): 62-8.
13801	Absolon MJ (1985). The Effects of Ultraviolet Light on the Eye. <i>Transactions of the Ophthalmological Societies of the United Kingdom</i> . 104(Pt 5) pp 522-523.
50080	Age-Related Eye Disease Study Research Group (2000). Risk factors associated with age-related macular degeneration: a case-control study in the age-related eye disease study: Age-related eye disease study report number 3. <i>Ophthalmol</i> , 107: 2224-32.
51326	Age-Related Eye Disease Study Research Group (2001). A randomized, placebo-controlled, clinical trial of high-dose supplementation with vitamins C and E, beta carotene, and zinc for age-related macular degeneration and vision loss: AREDS report no. 8 <i>Arch Ophthalmol</i> , 119(10): 1417-36.
49705	Age-Related Eye Disease Study Research Group (2005). Risk factors for the incidence of advanced age-related macular degeneration in the age-related eye disease study (AREDS). AREDS Report No. 19. <i>Ophthalmol</i> , 112: 533-9.
49642	Age-Related Eye Disease Study Research Group (2007). The relationship of dietary carotenoid and vitamin A, E, and C intake with age-related macular degeneration in a case-control study. <i>Arch Ophthalmol</i> , 125(9): 1225-32.
50447	Age-Related Eye Disease Study Research Group (2007). The relationship of dietary lipid intake and age-related macular degeneration in a case-control study. AREDS Report No. 20. <i>Arch Ophthalmol</i> , 125: 671-9.
20956	Age-related eye study group (2000). Risk factors associated with age-related macular degeneration. A case-control study in the age-related eye disease study: age-related eye disease study report number 3. <i>Ophthalmology</i> , Vol 107 pp 2224-2232.

20949	Ajani UA, Christen WG, Manson JE, Glynn RJ, Schaumberg D, Buring JE, & Hennekens CH (1999). A prospective study of alcohol consumption and the risk of age-related macular degeneration. <i>Annals of Epidemiology</i> , Vol 9 pp 172-77.
20940	Alexandrakis G (2001). Macular edema, Irvine-gass from ophthalmology/retina. <a href="http://www.emedicine.com/oph/topic400.htm">http://www.emedicine.com/oph/topic400.htm</a>
49697	Algvere PV, Marshall J, Seregard S (2006). Age-related maculopathy and the impact of blue light hazard. <i>Acta Ophthalmologica Scandinavica</i> , 84: 4-15.
27074	Anand R, Bressler SB, Davis MD, Ferris FL 111, Klein R. Risk factors associated with age-related macular degeneration. A case-control study in the age-related eye disease study: age-related eye disease study report Number 3. <i>Ophthalmology</i> (2000) Vol 107: 2224-32.
27065	Anderson DH, Mullins RF, Hageman GS, & Johnson LV. A role for local inflammation in the formation of Drusen in the aging eye. <i>Am J Ophthalmology</i> , (2002) Vol 134: 411-31.
45376	Anonymous (2007). The role of blue light in the pathogenesis of AMD. Retrieved 8 October 2007, from <a href="http://www.sunnexbiotech.com/therapist/blue%20light%20and%20amd.html">http://www.sunnexbiotech.com/therapist/blue%20light%20and%20amd.html</a>
13867	Arend O, Remky A, Harris A, Bertram B, Reim M, Wolf S (1995). Macular microcirculation in cystoid maculopathy of diabetic patients. <i>British Journal of Ophthalmology</i> , Vol 79 (7) pp 628-632.
42281	Arnarsson A, Sverrisson T, Stefansson E, Sigurdsson H, et al (2006). Risk factors for five-year incident age-related macular degeneration: the Reykjavik Eye Study. <i>Am J Ophthalmol</i> , Vol 142 pp 419-428.
27144	Arnold J, Sarks S (2002). Age related macular degeneration. <i>Clinical Evidence</i> , Vol 7 pp 560-73.
20948	Arrigg CA (2000). Corticosteroid-induced glaucoma DM Albert, FA Jakobiec (Eds). <i>Principles &amp; Practice of Ophthalmology</i> , 2 Edition, Vol 4 Chapter 212: 2776-2781. W.B. Saunders Company.
50477	Augood C, Chakravarthy U, Young I, Vioque J, et al (2008). Oily fish consumption, dietary docosahexaenoic acid and eicosapentaenoic acid intakes, and associations with neovascular age-related macular degeneration. <i>Am J Clin Nutr</i> , 88: 398-406.
44707	Axer-Siegel R, Bourla D, Ehrlich R, Dotan G, et al (2004). Association of neovascular age-related macular degeneration and hyperhomocysteinemia. <i>Am J Ophthalmol</i> , Vol 137 pp 84-89.
49684	Baatz H, Darawsha R, Ackermann H, Scharioth GB, et al (2008). Phacoemulsification does not induce neovascular age-related macular degeneration. <i>Invest Ophthalmol Vis Sci</i> , 49(3): 1079-83.
49636	Baird PN, Robman LD, Richardson AJ, Dimitrov PN, et al (2008). Gene-environment interaction in progression of AMD: the CFH gene, smoking and exposure to chronic infection. <i>Human Molecular Genetics</i> , 17(9): 1299-305.
49622	Barouch FC, Miller JW (2007). The role of inflammation and infection in age-related macular degeneration. <i>Int Ophthalmol Clin</i> , 47(2): 185-97.
49715	Bartlett H, Eperjesi F (2003). Age-related macular degeneration and nutritional supplementation: a review of randomised controlled trials. <i>Ophthal Physiol Opt</i> , 23: 383-99. [Comment] Milton RC (2004). 24: 61.
13701	Bird A (1996). Age-related macular disease. <i>British Journal of Ophthalmology</i> . Vol 80(1) pp 2-3.

13707	Bird AC, Bressler NM, Bressler SB, Chisholm IH, Coscas G, et al (1995). An International Classification and Grading System for Age-related Maculopathy and Age-related Macular Degeneration. <i>Survey of Ophthalmology</i> . Vol 39(5) pp 367-374.
6396	Bird AC, Bressler NM, Bressler SB, et al (1995). An International classification and grading system for age-related maculopathy and age-related macular degeneration. The International Arm Epidemiological Study Group. <i>Survey Ophthalmol</i> , 39(5) pp 367-374.
20947	Blair NP, Kim SH, Friedlander SM (2000). Cystoid macular edema after ocular surgery. DM Albert, FA Jakobiec (Eds). <i>Principles &amp; Practice of Ophthalmology</i> , 2nd Edition, Vol 3 Chapter 147: 2080-88. W.B. Saunders Company.
49631	Bockelbrink A, Roll S, Ruether K, Rasch A, et al (2008). Cataract surgery and the development or progression of age-related macular degeneration: a systemic review. <i>Surv Ophthalmol</i> , 53: 359-67.
49633	Boekhoorn SS, Vingerling JR, Hofman A, de Jong PTVM (2008). Alcohol consumption and risk of aging macula disorder in a general population. The Rotterdam Study. <i>Arch Ophthalmol</i> , 126(6): 834-9.
14883	Borley WE, McLester AW & Lower RA (1944). Central macular chorioretinitis in naval personnel. <i>US Naval Med Bull</i> , Vol 45 pp 511-6.
42324	Bourla DH, Young TA (2006). Age-related macular degeneration: a practical approach to a challenging disease. <i>J Am Geriatr Soc</i> , Vol 54 pp 1130-1135.
6397	Bressler MN et al (1989). The grading and prevalence of macular degeneration in Chesapeake Bay Watermen. <i>Arch Ophthalmol</i> , Vol 107 pp 847-852.
13705	Bressler NM and Bressler SB (1995). Preventative Ophthalmology. Age-related Macular Degeneration. <i>Ophthalmology</i> . Vol 102(8) pp 1206-1211.
20945	Bressler NM, Bressler SB, Gragoudas ES (2000). Age-related macular degeneration: choroidal neovascularization. DM Albert, FA Jakobiec (Eds). <i>Principles &amp; Practice of Ophthalmology</i> , 2nd Edition, Vol 3 Chapter 138: 1992-2013. W.B. Saunders Company.
13629	Bressler SB, Bressler NM, Gragoudas ES (1994). Age-related Macular Degeneration: Drusen and Geographic Atrophy. <i>Principles and Practice of Ophthalmology</i> , Vol 2 Chapter 64-65: 826-835, 1036-1037. W.B. Saunders Company.
20946	Bressler SB, Bressler NM, Gragoudas ES (2000). Age-related macular degeneration: drusen and geographic atrophy. DM Albert, FA Jakobiec (Eds). <i>Principles &amp; Practice of Ophthalmology</i> , 2nd Edition, Vol 3 Chapter 137: 1982-92. W.B. Saunders Company.
42958	Browning DJ (2004). Bull's eye maculopathy associated with quinacrine therapy for malaria. <i>Am J Ophthalmol</i> , 137(3) pp 577-579.
49701	Buch H, Vinding T, la Cour M, Jensen GB, et al (2005). Risk factors for age-related maculopathy in a 14-year follow-up study: the Copenhagen City Eye Study. <i>Acta Ophthalmologica Scandinavica</i> , 83: 409-18.
49702	Cardinault N, Abalain JH, Sairafi B, Coudray C, et al (2005). Lycopene but not lutein nor zeaxanthin increases in serum and lipoproteins in age-related macular degeneration patients. <i>Clinica Chimica Acta</i> , 357: 34-42.
16033	Carr RE, Henkind P, Rothfield N and Siegel IM (1968). Ocular toxicity of antimalarial drugs: long-term follow-up. <i>American Journal of Ophthalmology</i> , 66(4) pp 738-744.

20954	Chaine G, Hullo A, Sahel J, Soubrane G et al (1998). Case-control study of the risk factors for age related macular degeneration. <i>British Journal of Ophthalmology</i> , 82: 996-1002.
44748	Chakravarthy U, Augood C, Bentham GC, de Jong PTVM, et al (2007). Cigarette smoking and age-related macular degeneration in the EUREYE Study. <i>Ophthalmology</i> , 114(6) pp 1157-1163.
21228	Chan D (1998). Cigarette smoking and age-related macular degeneration. <i>Optom Vis Sci</i> Vol 75 pp 476-484
21229	Cheng ACK, Pang CP, Leung ATS, et al (2000). The association between cigarette smoking and ocular disease. <i>HKMJ</i> Vol 6 pp 195-202.
49646	Cheung N, Liao D, Islam FMA, Klein R, Wang JJ, Wong TY (2007). Is early age-related macular degeneration related to carotid artery stiffness? The Atherosclerosis Risk in Communities Study. <i>Br J Ophthalmol</i> , 91: 430-3.
42395	Chiu C-J, Hubbard LD, Armstrong J, Rogers G, et al (2006). Dietary glycemic index and carbohydrate in relation to early age-related macular degeneration. <i>Am J Clin Nutr</i> , Vol 83 pp 880-886.
42680	Chiu C-J, Hubbard LD, Armstrong J, Rogers G, et al (2006). Dietary glycemic index and carbohydrate in relation to early age-related macular degeneration. <i>Am J Clin Nutr</i> , Vol 83 pp 880-886.
49661	Chiu CJ, Hubbard LD, Armstrong J, Rogers G, et al (2006). Dietary glycemic index and carbohydrate in relation to early age-related macular degeneration. <i>Am J Clin Nutr</i> , 83: 880-6.
49683	Chiu CJ, Milton RC, Gensler G, Taylor A (2007). Association between dietary glycemic index and age-related macular degeneration in nondiabetic participants in the age-related eye disease study. <i>Am J Clin Nutr</i> , 86: 180-8.
49626	Chiu CJ, Milton RC, Klein R, Gensler G, Taylor A (2007). Dietary carbohydrate and the progression of age-related macular degeneration: a prospective study from the Age-Related Eye Disease Study. <i>Am J Clin Nutr</i> , 86: 1210-8.
49677	Chiu CJ, Taylor A (2007). Nutritional antioxidants and age-related cataract and maculopathy. <i>Experimental Eye Research</i> , 84: 229-45.
20960	Cho E, Hankinson SE, Willett WC, Stampfer MJ, et al (2000). Prospective study of alcohol consumption and the risk of age-related macular degeneration. <i>Arch Ophthalmology</i> , Vol 118 pp 681-688.
28188	Cho E, Hung S, Willett WC, Spiegelman D, et al (2001). Prospective study of dietary fat and the risk of age-related macular degeneration. <i>American Journal of Clinical Nutrition</i> , 73(2) pp 209-18.
31997	Cho E, Seddon JM, Rosner B, Willett WC, Hankinson SE. Prospective study of intake of fruits, vegetables, vitamins, and carotenoids and risk of age-related maculopathy. <i>Archives of Ophthalmology</i> 2004;122(6):883-892.
27069	Cho E, Stampfer MJ, Seddon JM, Hung S, Spiegelman D, Rimm EB, Willett WC, & Hankinson SE. Prospective study of zinc intake and the risk of age-related macular degeneration. <i>Ann Epidemiol</i> (2001) Vol 11: 328-336.
49858	Chong EW, Wong TY, Kreis AJ, Simpson JA, Guymer RH (2007). Dietary antioxidants and primary prevention of age related macular degeneration: systemic review and meta-analysis. <i>BMJ</i> , 335(7623): 755.
49634	Chong EWT, Kreis AJ, Wong TY, Simpson JA, Guymer RH (2008). Alcohol consumption and the risk of age-related macular degeneration: A systemic review and meta-analysis. <i>Am J Ophthalmol</i> , 145: 707-15.



49953	Chong EWT, Kreis AJ, Wong TY, Simpson JA, Guymer RH (2008). Dietary w-3 fatty acid and fish intake in the primary prevention of age-related macular degeneration. A systemic review and meta-analysis. Arch Ophthalmol, 126(6): 826-33.
49671	Chopdar A, Chakravarthy U, Verma D (2003). [Letter] Age related macular degeneration. Author's reply. BMJ, 326: 1459-60.
49669	Chopdar A, Chakravarthy U, Verma D (2003). Age related macular degeneration. BMJ, 326: 485-8.
27140	Chowdhury TA, Hopkins D, Dodson PM, Vafidis GC (2002). The role of serum lipids in exudative diabetic maculopathy: Is there a place for lipid lowering therapy? Eye, 16(6) pp 689-93.
27036	Christen WG, Glynn RJ, Ajani UA, Schaumberg DA, Chew EY, Buring JE, Manson JE, Hennekens CH. Age-related maculopathy in a randomized trial of low-dose aspirin among US physicians. Arch Ophthalmol (2001) Vol 119: 1143-9.
13632	Christen WG, Glynn RJ, Manson JE, Ajani U and Buring JE (1996). A Prospective Study of Cigarette Smoking and Risk of Age-Related Macular Degeneration in Men. JAMA. Vol 276(14) pp 1147-1151.
7981	Christen WG, Glynn RJ, Manson JE, Ajani UA, Buring JE (1996). A prospective study of cigarette smoking and risk of age-related macular degeneration in men. JAMA, 276(14) pp 1147-1151.
49647	Christen WG, Manson JE, Glynn RJ, Gaziano JM, et al (2007). Beta carotene supplementation and age-related maculopathy in a randomized trial of US physicians. Arch Ophthalmol, 125: 333-9.
42325	Chua B, Flood V, Rochtchina E, Wang JJ, Smith W, Mitchell P (2006). Dietary fatty acids and the 5-year incidence of age-related maculopathy. Arch Ophthalmol, Vol 124 pp 981-986.
20942	Ciulla T (2001). ARMD, exudative from ophthalmology/retina. <a href="http://www.emedicine.com/oph/topic653.htm">Http://www.emedicine.com/oph/topic653.htm</a>
27030	Ciulla TA, Harris A & Martin BJ. Ocular perfusion and age-related macular degeneration. Acta Ophthalmologica Scandinavica (2001) Vol 79: 108-115.
13876	Clarke MP, Yap M and Weatherill JR (1989). Do intraocular lenses with ultraviolet absorbing chromophores protect against macular oedema? Acta Ophthalmologica, 67(5) pp 593-596.
42278	Clemons TE (2005). Risk factors for the incidence of advanced age-related macular degeneration in the age-related eye disease study (AREDS). AREDS Report No. 19. Ophthalmology, 112(4) PP 533-539.
50074	Cong R, Zhou B, Sun Q, Gu H, Tang N, Wang B (2008). Smoking and the risk of age-related macular degeneration: a meta-analysis. Ann Epidemiol, 18: 647-56.
14884	Cordes FC (1944). A type of foveo-macular retinitis observed in the US Navy. American Journal of Ophthalmology, Vol 27 pp 803-16.
13643	Cruickshanks KJ, Hamman RF, Klein R, Nondahl DM and Shetterly SM (1997). The Prevalence of Age-Related Maculopathy by Geographic Region and Ethnicity. The Colorado-Wisconsin Study of Age-Related Maculopathy. Arch Ophthalmol. Vol 115 pp 242-250.
13711	Cruickshanks KJ, Klein R and Klein EK (1993). Sunlight and Age-Related Macular Degeneration. The Beaver Dam Eye Study. Archives of Ophthalmology. Vol 111(4) pp 514-518.

6398	Cruickshanks KJ, Klein R, Klein BEK (1993). Sunlight and age-related macular degeneration - The Beaver Dam Eye study. Arch Ophthalmol, Vol 111 pp 514-518.
27037	Cruickshanks KJ, Klein R, Klein BEK, Nondahl DM (2001). Sunlight and the 5-year incidence of early age-related maculopathy. The Beaver Dam Eye Study. Arch Ophthalmol (2001) Vol 119: 246-250.
42683	Cugati S, Mitchell P, Rochtchina E, Tan AG, et al (2006). Cataract surgery and the 10-year incidence of age-related maculopathy. The Blue Mountains Eye Study. Ophthalmology, Vol 113 pp 2020-2025.
42322	Dandekar SS, Jenkins SA, Peto T, Bird AC, Webster AR (2006). Does smoking influence the type of age related macular degeneration causing visual impairment? Br J Ophthalmol, Vol 90 pp 724-727.
42392	Dantzig PI (2006). Parkinson's disease, macular degeneration and cutaneous signs of mercury toxicity. J Occup Environ Med, 48(7) pp 656.
13700	Darzins P, Mitchell P and Heller RF (1997). Sun Exposure and Age-related Macular Degeneration. An Australian Case-Control Study. Ophthalmology. Vol 104(5) pp 770-776.
6399	Das BN, Thompson JR, Patel R, Rosenthal AR(1991). The prevalence of eye disease in Leicester: a comparison of adults of Asian and European descent. Journal of Royal Soc of Med, Vol 87 pp 219-222.
49649	de Jong PTVM (2006). Age-related macular degeneration. N Engl J Med, 355: 1474-85.
49711	de Jong PTVM, Lubsen J (2004). The standard gamble between cataract extraction and AMD. Graefe's Arch Clin Exp Ophthalmol, 242: 103-5.
15177	de Vries E (1947). Ophthalmological experiences from the camps for war-prisoners in Java. Ophthalmologica, Vol 113 pp 241-7.
37696	DeAngelis MM, Lane AM, Shah CP, Ott J, Dryja TP, Miller JW (2004) Extremely discordant sib-pair study design to determine risk factors for neovascular age-related macular degeneration. Arch Ophthalmology Vol 122(4) pp 575-80.
32002	DeAngels MM, Lane AM, Shah CP, Ou J, Dryja TP, Miller JW. Extremely discordant sib-pair study design to determine risk factors for neovascular age-related macular degeneration. Archives of Ophthalmology 2004;122(4):575-80
49710	Defay R, Pinchinat S, Lumbroso S, Sutan C, Delcourt C, and the POLA study group (2004). Sex steroids and age-related macular degeneration in older French women: The POLA study. Ann Epidemiol, 14: 202-8.
15178	Dekking HM (1947). Tropical nutritional amblyopia ("camp eyes"). Ophthalmologica, Vol 113 pp 65-92.
49836	Delcourt C (2007). Application of nutrigenomics in eye health. Forum Nutr, 60: 168-75.
49639	Delcourt C, Carriere I, Cristol JP, Lacroux A, Gerber M, and the POLANUT Study Group (2007). Dietary fat and the risk of age-related maculopathy: the POLANUT study. Eur J Clin Nutr, 61: 1341-4.
49660	Delcourt C, Carriere I, Delage M, Barberger-Gateau P, Schalch W, and the POLA Study Group (2006). Plasma lutein and zeaxanthin and other carotenoids as modifiable risk factors for age-related maculopathy and cataract: The POLA study. Invest Ophthalmol Vis Sci, 47: 2329-35.

27041	Delcourt C, Carriere I, Ponton-Sanchez A, Fourrey S, Lacroux A, Papoz L for the POLA Study Group. Light exposure and the risk of age-related macular degeneration. The pathologies oculaires Liees a l'age (POLA) Study. Arch Ophthalmol (2001) Vol 119: 1463-68.
36165	Delcourt C, Carriere I, Ponton-Sanchez A, Fourrey S, Lacroux A, Papoz L (2001). Light exposure and the risk of age-related macular degeneration. Archives of Ophthalmology, 119(10): 1463-1468.
27032	Delcourt C, Cristol J-P, Tessier F, Leger CL, Descomps B, Papoz L, & the POLA Study Group. Age-related macular degeneration and antioxidant status in the POLA Study. Arch Ophthalmol (1999) Vol 117: 1384-1390.
20953	Delcourt C, Diaz J-L, Ponton-Sanchez A, Papoz L (1998). Smoking and age-related macular degeneration. The POLA study. Archives of Ophthalmology, Vol 116 pp 1031-1035.
28137	Delcourt C, Michel F, Colvez A, Lacroux A, Delage M, Vernet M-H, POLA Study Group (2001). Associations of cardiovascular disease and its risk factors with age-related macular degeneration: the POLA study. Ophthalmic Epidemiology Vol 8(4) pp 237-249
28131	Delcourt C, Michel F, Colvez A, Lacroux A, Delage M, Vernet MH, The POLA Study Group (2001). Associations of cardiovascular disease and its risk factors with age-related macular degeneration: the POLA study. Ophthalmic Epidemiology, 8(4) pp 237-49.
14633	Delcourt C, Papoz L (1998). Smoking and age-related macular degeneration. Arch Ophthalmol, 116(8) pp 1031-1035.
42314	Donoso LA, Kim D, Frost A, Callahan A, Hageman G (2006). The role of inflammation in the pathogenesis of age-related macular degeneration. Survey of Ophthalmology, 51(2) pp 137-152.
6400	Dorland's Illustrated Medical Dictionary (1988). WB Saunders Co. Philadelphia. 27th Edition - pp 438-439.
13802	Dosso A, Golay A, Morel Y, Furrara T, Passal JP and Leuenberger PM (1995). Cardiovascular Autonomic Neuropathy In Diabetic Patients With Macular Oedema. Diabete et Metabolisme. Vol 21(1) pp 41-46.
49620	Douglas IJ, Cook C, Chakravarthy U, Hubbard R, et al (2007). A case-control study of drug risk factors for age-related macular degeneration. Ophthalmol, 114: 1164-9.
49690	Duan Y, Mo J, Klein R, Scott IU, et al (2007). Age-related macular degeneration is associated with incident myocardial infarction among elderly Americans. Ophthalmol, 114: 732-7.
51784	Edwards P (1996). Massive choroidal hemorrhage in age-related macular degeneration: a complication of anticoagulant therapy. J Am Optom Assoc, 67(4): 223-6.
13630	Egan KM and Seddon JM (1994). Age-Related Macular Degeneration: Epidemiology. Principles and Practice of Ophthalmology, Chapter 109: 1266-1274. WB Saunders Company.
28187	Eid Farah M, Muccioli C, Rinkevicius M, Barata Lima L, Belfort R Jr (2000). Cystoid macular edema in patients with acquired immune deficiency syndrome and cytomegalovirus retinitis. European Journal of Ophthalmology, 10(3) pp 233-8.
27071	Evans JR (2001). Risk factors for age-related macular degeneration. Progress in Retinal & eye Research, 20(2) pp 227-253.
49859	Evans JR (2006). Antioxidant vitamin and mineral supplements for slowing the progression of age-related macular degeneration (Review). Cochrane Database of Systemic Reviews, Issue 2: CD000254.

37689	Evans JR, Fletcher AE, Wormald RPL (2005). 28,000 cases of age related macular degeneration causing visual loss in people aged 75 years and above in the United Kingdom may be attributable to smoking. <i>Br J Ophthalmol</i> , Vol 89 pp 550-553.
49860	Evans JR, Henshaw K (2008). Antioxidant vitamin and mineral supplements for preventing age-related macular degeneration (Review). <i>Cochrane Database of Systemic Reviews</i> , Issue 1: CD000253.
49581	Fauci AS, Kasper DL, Braunwald E, et al (2008). Chronic visual loss. <i>Harrison's Online</i> , Part Two, Section 4, Chapter 29. <a href="http://proxy14.use.hcn.com.au/content.aspx?aid=2888476">http://proxy14.use.hcn.com.au/content.aspx?aid=2888476</a> .
49637	Feret A, Steinweg S, Griffin HC, Glover S (2007). Macular degeneration: Types, causes, and possible interventions. <i>Geriatr Nurs</i> , 28(6): 387-92.
49687	Feskanich D, Cho E, Schaumberg DA, Colditz GA, Hankinson SE (2008). Menopausal and reproductive factors and risk of age-related macular degeneration. <i>Arch Ophthalmol</i> , 126(4): 519-24.
20950	Fine SL, Berger JW, Maguire MG, & Ho AC (2000). Age-related macular degeneration. <i>NEJM</i> , Vol 342(7) pp 483-92.
15179	Fischer FP & Moorrees HG (1947). "Camp eyes" und sonnenblendung. <i>Ophthalmologica</i> , Vol 114 pp 10-15.
27027	Flesner P, Sander B, Henning V, Parving H-H, de la Cour M, & Lund-Andersen H. Cataract surgery on diabetic patients. A prospective evaluation of risk factors and complications. <i>Acta Ophthalmologica Scandinavica</i> 2002; 80:19-24.
49657	Flood V, Rochtchina E, Wang JJ, Mitchell P, Smith W (2006). [Comment] Lutein and zeaxanthin dietary intake and age related macular degeneration. <i>Br J Ophthalmol</i> , 90: 927-8.
27052	Flood V, Smith W, Wang JJ, Manzi F, Webb K, Mitchell P (2002). Dietary antioxidant intake and incidence of early age-related maculopathy. <i>The Blue Mountains Eye Study</i> . <i>Ophthalmology</i> , Vol 109 pp 2272-2278.
14825	Flynn J (1942). Photo-retinitis in anti-aircraft lookouts. <i>MJOA</i> , Vol 2 pp 400-1.
20951	Fong DS (2000). Age-related macular degeneration: update for primary care. <i>American Family Physician</i> , Vol 61 pp 3035-42.
27072	Fong DS. Age-related macular degeneration: update for primary care. <i>American Family Physician</i> , May 15, 2000 Vol 61(10): 3035-42.
49693	Francis PJ, George S, Schultz DW, Rosner B, et al (2007). The LOC387715 gene, smoking, body mass index, environmental associations with advanced age-related macular degeneration. <i>Hum Hered</i> , 63: 212-8.
42282	Fraser-Bell S, Wu J, Klein R, Azen SP, et al (2006). Smoking, alcohol intake, estrogen use, and age-related macular degeneration in Latinos: the Los Angeles Latino Eye Study. <i>Ophthalmology</i> , Vol 141 pp 79-87.
50073	Fraser-Bell S, Wu J, Klein R, Azen SP, et al (2008). Cardiovascular risk factors and age-related macular degeneration: the Los Angeles Latino eye study. <i>Am J Ophthalmol</i> , 145: 308-16.
49675	Freeman EE, Munoz B, Bressler SB, West SK (2005). Hormone replacement therapy, reproductive factors, and age-related macular degeneration: The Salisbury Eye Evaluation Project. <i>Ophthalmol Epidemiol</i> , 12(1): 37-45.

31989	Freeman EE, Munoz B, West SK, Tielsch JM, & Schein OD. Is there an association between cataract surgery and age-related macular degeneration? Data from three population-based studies. <i>Am J Ophthalmology</i> 2003;135:849-856.
49714	Freeman EE, Munoz B, West SK, Tielsch JM, Schein OD (2003). Is there an association between cataract surgery and age-related macular degeneration? Data from three population-based studies. <i>Am J Ophthalmol</i> , 135: 849-56.
28128	Friedman DS, Katz J, Bressler NM, Rahmani B, Tielsch JM (1999). Racial differences in the prevalence of age-related macular degeneration : the Baltimore Eye Survey. <i>Ophthalmology</i> , 106(6) pp 1049-55.
13641	Friedman E (1997). A Hemodynamic Model of the Pathogenesis of Age-related Macular Degeneration. <i>American Journal of Ophthalmology</i> . Vol 124(5) pp 677-682.
20952	Friedman E (2000). The role of the atherosclerotic process in the pathogenesis of age-related macular degeneration. <i>American Journal of Ophthalmology</i> , Vol 130(5) pp 658-663.
27068	Furuichi M, Chiba T, Abe K, Kogure S, Iijima H, Tsukahara S, & Kashiwagi K. Cystoid macular edema associated with topical latanoprost in glaucomatous eyes with a normally functioning blood-ocular barrier. <i>Journal of Glaucoma</i> (2001) Vol 10: 233-6.
49672	Gale CR, Hall NF, Phillips DIW, Martyn CN (2003). Lutein and zeaxanthin status and risk of age-related macular degeneration. <i>Invest Ophthalmol Vis Sci</i> , 44(6): 2461-5.
6402	Gerster H (1991). Review: Antioxidant protection of the ageing macula. <i>Age and Ageing</i> , Vol 20 pp 60-69.
14823	Gladstone GJ, Tasman W (1978). Solar retinitis after minimal exposure. <i>Arch Ophthalmol</i> , Vol 96 pp 1368-9.
14821	Goldberg J, Flowerdew G, Smith E, Brody JA, & Tso MOM (1988). Factors associated with age-related macular degeneration. <i>American Journal of Epidemiology</i> , Vol 128 (4) pp 700-10.
27123	Gorin MB, Breitner JCS, De Jong PTVM, Hageman GS, et al (1999). The genetics of age-related macular degeneration. <i>Molecular Vision</i> , 5: 29-34.
27024	Gottlieb JL. Age-related macular degeneration. <i>JAMA</i> Nov 13, 2002; Vol 288(18):2233-6.
28133	Grahn BH, Paterson PG, Gottschall-Pass KT, Zhang Z (2001). Zinc and the eye [review]. <i>Journal of the American College of Nutrition</i> , 20(2 Suppl) pp 106-18.
6401	Green WR, Enger C (1993). Age-related macular degeneration histopathologic studies. <i>Ophthalmology</i> , 100(10) pp 1519-1525.
27119	Guex-Crosier Y (1999). The pathogenesis and clinical presentation of macular edema in inflammatory diseases. <i>Documenta Ophthalmologica</i> , 97: 297-309.
28163	Gupta A, Gupta V (2001). Diabetic maculopathy and cataract surgery [Review]. <i>Ophthalmology Clinics of North America</i> , 14(4) pp 625-37.
14962	Guyer DR, Alexander MF, Auer CL, et al (1986). A comparison of the frequency and severity of macular drusen in phakic and non-phakic eyes. <i>Ophthalmol. Vis. Sci.</i> , Vol 27 Supplement p20.
42246	Guymer RH, Chong EW-T (2006). Modifiable risk factors for age-related macular degeneration. <i>MJA</i> , 184(9) pp 455-458.

49656	Haan MN, Klein R, Klein BE, Deng Y, et al (2006). Hormone therapy and age-related macular degeneration. <i>Arch Ophthalmol</i> , 124: 988-92.
49674	Hall NF, Gale CR (2002). Prevention of age related macular degeneration. <i>BMJ</i> , 325: 1-2.
13763	Hammond Jr BR, Wooten BR and Snodderly DM (1996). Cigarette Smoking and Renital Carotenoids: Implications for Age-related Macular Degeneration. <i>Vision Research</i> . Vol 36(18) pp 3003-3009.
42956	Han Y-H, Sweet DH, Hu D-N, Pritchard JB (2000). Characterization of a novel cationic drug transporter in human retinal pigment epithelial cells. <i>J Pharmacol Exp Ther</i> , 296(2) pp 450-457.
21225	Hawkins BS, Bird A, Klein R, & West SK (1999). Epidemiology of age-related macular degeneration. <i>Molecular Vision</i> Vol 5 pp 26-29.
13699	Hawkins WR (1997). [Comment] AMD after ECCE with IOL Implant. <i>Ophthalmology</i> , 104(6): 900.
49655	Hawse P (2006). [Comment] Blocking the blue. <i>Br J Ophthalmol</i> , 90: 939-40.
6403	Heiba IM, Elston RC, Klein BEK, Klein R (1994). Sibling correlations and segregation analysis of age-related maculopathy: The Beaver Dam Eye study. <i>Genetic Epidemiology</i> , Vol 11 pp 51-67.
14961	Henkes HE (1977). Photic injury to the retina and the manifestation of acute posterior multifocal placoid pigment epitheliopathy. <i>Documenta Ophthalmologica</i> , 44(1) pp 113-120.
13747	Henricsson M, Janzon L and Groop L (1995). Progression of Retinopathy After Change of Treatment From Oral Antihyperglycemic Agents to Insulin in Patients with NIDDM. <i>Diabetes Care</i> . Vol 18(12) pp 1571-1576.
27141	Heuberger RA, Fisher AI, Jacques PF, Klein R, et al (2002). Relation of blood homocysteine and its nutritional determinants to age-related maculopathy in the third National Health and Nutrition Examination Survey. <i>American Journal of Clinical Nutrition</i> , 76(4) pp 897-902.
27043	Heuberger RA, Mares-Perlman JA, Klein R, Klein BEK, Millen AE, Palta M. Relationship of dietary fat to age-related maculopathy in the third National Health and Nutrition Examination Survey. <i>Arch Ophthalmol</i> (2001) Vol 119: 1833-38.
49635	Hirakawa M, Tanaka M, Tanaka Y, Okubo A, et al (2008). Age-related maculopathy and sunlight exposure evaluated by objective measurement. <i>Br J Ophthalmol</i> , 92: 630-4.
13702	Hirvela H, Luukinen H, Laara E and Laatikainen L (1996). Risk Factors of Age-related Maculopathy in a Population 70 Years of Age or Older. <i>Ophthalmology</i> . Vol 103(6) pp 871-877.
50863	Hoban R (2006). Smoking linked to macular degeneration. Obtained from <a href="http://www.voanews.com/english/archive/2006-07/2006-07-24-voa29cfm?CFID=7393">http://www.voanews.com/english/archive/2006-07/2006-07-24-voa29cfm?CFID=7393</a>
49676	Hogg R, Chakravarthy U (2004). AMD and micronutrient antioxidants. <i>Curr Eye Res</i> , 29(6): 387-401.
49679	Holcomb CA (2004). Consumption of carotenoid-rich foods and central vision loss: a matched case-control study in Kansas. <i>J Nutr Elder</i> , 24(1): 1-18.
6404	Holz FG, Piguet B, Minassian DC, Bird AC, Weale RA (1994). Decreasing stromal iris pigmentation as a risk factor for age-related macular degeneration. <i>Am Journal of Ophthalmology</i> , 117(1) pp 19-23.

27073	Houston T. Smoking and age-related macular degeneration. In reply. <i>American Family Physician</i> (2001) Vol 63(2) p 225.
27025	Hyam L, & Nebrorsky R (2002). Risk factors for age-related macular degeneration: an update. <i>Current Opinion in Ophthalmology</i> , Vol 13 pp 171-5.
20959	Hyman L, Schachat AP, He Q, Leske C (2000). Hypertension, cardiovascular disease, and age-related macular degeneration. <i>Arch Ophthalmology</i> , Vol 117 pp 351-8.
6471	Hyman LG, Lilienfeld AM, Ferris FL III, Fine SL (1983). Senile macular degeneration: A case-control study. <i>Am Journal of Epidemiology</i> , 118(2) pp 213-227.
49667	Ikram MK, van Leeuwen R, Vingerling JR, Hofman A, de Jong PTVM (2003). Relationship between refraction and prevalent as well as incident age-related maculopathy: The Rotterdam Study. <i>Invest Ophthalmol Vis Sci</i> , 44: 3778-82.
49704	Ikram MK, van Leeuwen R, Vingerling JR, Hofman A, de Jong PTVM (2005). Retinal vessel diameters and the risk of incident age-related macular degeneration. <i>Ophthalmol</i> , 112: 548-52.
50322	Ishida O, Oku H, Ikeda T, Nishimura M, et al (2003). [Comment] Is chlamydia pneumoniae infection a risk factor for age related macular degeneration? <i>Br J Ophthalmol</i> , 87: 523-4.
21227	Jacques PF (1999). The potential preventive effects of vitamins for cataract and age-related macular degeneration. <i>Int J Vitam Nutr Res</i> Vol 69 pp 198-205.
48247	Jager RD, Mieler WF, Miller JW (2008). Age-related macular degeneration. <i>N Engl J Med</i> , 358(24): 2606-17.
27137	Jain R, Stevens JD, Bunce CV, Garrett C, Hykin pp (2000). Ischaemic heart disease may predispose to pseudophakic cystoid macular oedema. <i>Eye</i> , Vol 15 pp 34-8.
6405	Jampol LM (1992). Race, macular degeneration and the macular photocoagulation study. <i>Arch Ophthalmol</i> , Vol 110 pp 1699-1700.
13717	Jampol LM, Kraff MC, Sanders DR, Alexander K and Lieberman H (1985). Near-UV Radiation From the Operating Microscope and Pseudophakic Cystoid Macular Edema. <i>Archives of Ophthalmology</i> . Vol 103(1) pp 28-30.
13718	Jampol LM, Sanders DR and Kraff MC (1984). Prophylaxis and Therapy of Aphakic Cystoid Macular Edema. <i>Survey of Ophthalmology</i> . Vol 28 pp 535-539.
42212	Johnson EJ (2005). Obesity, lutein metabolism, and age-related macular degeneration: A web of connections. <i>Nutrition Reviews</i> , 63 (1) pp 9-15.
42955	Jung H, Reme C (1994). Light-evoked arachidonic acid release in the retina: illuminance/duration dependence and the effects of quinacrine, mellitin and lithium. Light-evoked arachidonic acid release. <i>Graefe's Arch Clin Exp Ophtlamol</i> , Vol 232 pp 167-175.
6406	Kahn HA, Leibowitz HM, et al (1977). The Framingham Eye study. 1. Outline and major prevalence findings. <i>Am Journal of Epidemiology</i> , 106(1) pp 17-32.
50451	Kalayoglu MV, Bula D, Arroyo J, Gragoudas ES, et al (2005). Identification of chlamydia pneumoniae within human choroidal neovascular membranes secondary to age-related macular degeneration. <i>Graefe's Arch Clin Exp Ophthalmol</i> , 243: 1080-90.

50449	Kalayoglu MV, Galvan C, Mahdi OS, et al (2003). Serological association between chlamydia pneumoniae infection and age-related macular degeneration. <i>Arch Ophthalmol</i> , 121: 478-82.
6407	Kanski JJ (1989). <i>Clinical Ophthalmology. A systematic approach.</i> Butterworth-Heinemann, London. Second Edition - pp 340-353.
47715	Kanski JJ, Milewski SA, Damato BE, Tanner V (2005). Diseases of the Ocular Fundus. Chapter 3, Acquired macular disorders and related conditions: 83-131. Elsevier Mosby.
47716	Kanski JJ, Milewski SA, Damato BE, Tanner V (2005). Diseases of the Ocular Fundus: 187-8. Elsevier Mosby.
49670	Kelly CSP, Edwards R, Elton P, Mitchell P (2003). [Letter] Age related macular degeneration. Smoking entails major risk of blindness. <i>BMJ</i> , 326: 1458-9.
37433	Kelly SP, Thornton J, Lyratzopoulos G, Edwards R, Mitchell P (2004). [Editorial Comment] Smoking and blindness. <i>BMJ</i> , Vol 328 pp 537-38.
42326	Khan JC, Shahid H, Thurlby DA, Bradley M, et al (2006). Age related macular degeneration and sun exposure: iris colour, and skin sensitivity to sunlight. <i>Br J Ophthalmol</i> , Vol 90 pp 29-32.
37432	Khan JC, Thurlby DA, Shahid H, Clayton DG, Yates JRW, et al (2006). Smoking and age related macular degeneration is a major determinant of risk for both geographic atrophy and choroidal neovascularisation. <i>Br J Ophthalmol</i> , Vol 90 pp 75-80.
49835	Kim EA, Kim B-G, Yi C-H, Kim IG, Chae C-H, Kang S-K (2007). Macular degeneration in an arc welder. <i>Indust Health</i> , 45: 371-3.
27129	Klaver CCW, Assink JJM, van IJcken R, Wolfs RCW, et al (2001). Incidence and progression rates of age-related maculopathy: the Rotterdam study. <i>Investigative Ophthalmology &amp; Visual Science</i> , 42(10) pp 2237-41.
13644	Klaver CCW, Assink JJM, Vingerling JR, Hofman A and de Jong PTVM (1997). Smoking Is Also Associated With Age-Related Macular Degeneration in Persons Aged 85 Years and Older: The Rotterdam Study. <i>Arch Ophthalmol</i> . Vol 115 p 945.
20961	Klein BEK, Klein R, & Lee KE (2000). Reproductive exposures, incident age-related cataracts, and age-related maculopathy in women: the Beaver Dam Eye Study. <i>American Journal of Ophthalmology</i> , Vol 130 pp 322-6.
21226	Klein BEK, Klein R, & Moss SE (2000). Exposure to diagnostic x-rays and incident age-related eye disease. <i>Ophthalmic Epidemiology</i> Vol 7 pp 61-65.
27112	Klein BEK, Klein R, Lee KE, Moore EL, & Danforth L (2001). Risk of incident age-related eye diseases in people with an affected sibling. The Beaver Dam Eye Study. <i>American Journal of Epidemiology</i> , Vol 154(3) pp 207-11.
49632	Klein BEK, Knudtson MD, Lee KL, Reinke JO, et al (2008). Supplements and age-related eye conditions. The Beaver Dam Eye Study. <i>Ophthalmol</i> , 115: 1203-8.
28164	Klein BN, Klein R, Lee KE, Jensen SC (2001). Measures of obesity and age-related eye diseases. <i>Ophthalmic Epidemiology</i> , 8(4) pp 251-62.
49680	Klein R (2007). Overview of progress in the epidemiology of age-related macular degeneration. <i>Ophthalmic Epidemiology</i> , 14: 184-7.
20958	Klein R, Clegg L, Cooper LS, Hubbard LD, et al (1999). Prevalence of age-related maculopathy in the atherosclerosis risk in communities study. <i>Archives of Ophthalmology</i> , Vol 117 pp 1203-1210.



44269	Klein R, Deng Y, Klein BEK, Hyman L, et al (2007). Cardiovascular disease, its risk factors and treatment, and age-related macular degeneration: women's health initiative sight exam ancillary study. <i>Am J Ophthalmol</i> , 143(3) pp 473-83.
6410	Klein R, et al (1992). Prevalence of age-related maculopathy. The Beaver Dam Eye study. <i>Ophthalmology</i> , 99(6) pp 933-943.
27117	Klein R, Klein BE, Tomany SC, Moss SE (2002). Ten-year incidence of age-related maculopathy and smoking and drinking: The Beaver Dam Eye Study. <i>American Journal of Epidemiology</i> , 156(7) pp 589-598.
7982	Klein R, Klein BEK (1996). [Comment] Smoke gets in your eyes too. <i>JAMA</i> , 276(14): 1178-79.
13631	Klein R, Klein BEK (1996). [Comment] Smoke Gets in Your Eyes Too. <i>JAMA</i> , 276(14): 1178-1179.
13640	Klein R, Klein BEK and Jensen SC (1997). The Relation of Cardiovascular Disease and Its Risk Factors to the 5-year Incidence of Age-related Maculopathy. The Beaver Dam Eye Study. <i>Ophthalmology</i> . Vol 104(11) pp 1804-1812.
13864	Klein R, Klein BEK and Moss SE (1998). Relation of Smoking to the Incidence of Age-related Maculopathy. <i>American Journal of Epidemiology</i> . Vol 147(2) pp 103-110.
6409	Klein R, Klein BEK, Franke T (1993). The relationship of cardiovascular disease and its risk factors to age-related maculopathy. The Beaver Dam Eye study. <i>Ophthalmology</i> , 100(3) pp 406-413.
13637	Klein R, Klein BEK, Jensen SC and Cruickshanks KJ (1998). The Relationship of Ocular Factors to the Incidence and Progression of Age-Related Maculopathy. <i>Arch Ophthalmol</i> . Vol 116 pp 506-513.
27040	Klein R, Klein BEK, Jensen SC, Cruickshanks KJ, et al Medication use and the 5-year incidence of early age-related maculopathy. The Beaver Dam Eye Study. <i>Arch Ophthalmol</i> (2001) Vol 119: 1354-1359.
20955	Klein R, Klein BEK, Jensen SC, Mares-Perlman JA, Cruickshanks KJ, Palta M (1999). Age-related maculopathy in a multiracial United States population. The National Health & Nutrition Examination Survey 111. <i>Ophthalmology</i> , Vol 106 pp 1056-1065.
13642	Klein R, Klein BEK, Jensen SC, Meuer SM (1997). The Five-year Incidence and Progression of Age-related Maculopathy. The Beaver Dam Eye Study. <i>Ophthalmology</i> , 104(1) pp 7-21.
49699	Klein R, Klein BEK, Knudtson MD, Wong TY, Shankar A, Tsai MY (2005). Systemic markers of inflammation, endothelial dysfunction, and age-related maculopathy. <i>Acta Ophthalmologica Scandinavica</i> , 140: 35-44.
6408	Klein R, Klein BEK, Linton KLP, DeMets DL (1993). The Beaver Dam eye study: The relation of age-related maculopathy to smoking. <i>Am J Epidemiol</i> , 137(2) pp 190-200.
27060	Klein R, Klein BEK, Marino EK, Kuller LH, Furberg C, Burke GL, Hubbard LD. Early age-related maculopathy in the cardiovascular health study. <i>Ophthalmology</i> (2003) Vol 110: 25-33.
32001	Klein R, Klein BEK, Marino EK, Kuller LH, Furberg C, Burke GL, Hubbard LD. Early age-related maculopathy in the cardiovascular health study. <i>Ophthalmology</i> 2003;110:25-33
31990	Klein R, Klein BEK, Tomany SC, & Wong TY. The relation of retinal microvascular characteristics to age-related eye disease: the Beaver Dam Eye Study. <i>Am J Ophthalmology</i> 2004;137:435-444

32000	Klein R, Klein BEK, Tomany SC, Cruickshanks KJ. The association of cardiovascular disease with the long-term incidence of age-related maculopathy. <i>Ophthalmology</i> 2003;110:1273-1280
49668	Klein R, Klein BEK, Tomany SC, Danforth LG, Cruickshanks KJ (2003). Relation of statin use to the 5-year incidence and progression of age-related maculopathy. <i>Arch Ophthalmol</i> , 121: 1151-5.
31996	Klein R, Klein BEK, Tomany SC, Danforth LG, Cruickshanks KJ. Relation of strain use of the 5-year incidence and progression of age-related maculopathy. <i>Arch Ophthalmol</i> 2003;121:1151-5
27057	Klein R, Klein BEK, Tomany SC, Meuer SM, Huang G-H. Ten-year incidence and progression of age-related maculopathy. The Beaver Dam Eye Study. <i>Ophthalmology</i> (2002) Vol 109: 1767-79.
27044	Klein R, Klein BEK, Wong TY, Tomany SC, Cruickshanks KJ. The association of cataract and cataract surgery with the long-term incidence of age-related maculopathy. The Beaver Dam Eye Study. <i>Arch Ophthalmol</i> (2002) Vol 120: 1551-8.
49688	Klein R, Knudtson MD, Cruickshanks KJ, Klein BEK (2008). Further observations on the association between smoking and the long-term incidence and progression of age-related macular degeneration. The Beaver Dam Eye Study. <i>Arch Ophthalmol</i> , 126(1): 115-21.
49618	Klein R, Knudtson MD, Klein BEK (2007). Statin use and the five-year incidence and progression of age-related macular degeneration. <i>Am J Ophthalmol</i> , 144: 1-6.
31991	Klein R, Peto T, Bird A, & Vannewkirk MR. The epidemiology of age-related macular degeneration. <i>Am J Ophthalmology</i> 2004;137:486-495
42323	Knudtson MD, Klein R, Klein BEK (2006). Physical activity and the 15-year cumulative incidence of age-related macular degeneration: the Beaver Dam Eye Study. <i>Br J Ophthalmol</i> , Vol 90 pp 1461-1463.
44320	Knudtson MD, Klein R, Klein BEK (2007). Alcohol consumption and the 15-year cumulative incidence of age-related macular degeneration. <i>Am J Ophthalmol</i> , 143(6) pp 1026-1029.
13714	Komatsu M, Kanagami S and Shimizu K (1989). Ultraviolet-absorbing intraocular lens versus non-UV-absorbing intraocular lens: Comparison of angiographic cystoid macular edema. <i>Journal of Cataract &amp; Refractive Surgery</i> . Vol 15(6) pp 654-657.
27033	Kozobolis VP, Detorakis ET, Tsilimbaris MK, Vlachonikolis IG, Tsambarlakis IC, Pallikaris IG. Correlation between age-related macular degeneration and pseudoexfoliation syndrome in the population of Crete (Greece). <i>Arch Ophthalmol</i> (1999) Vol 117: 664-9.
42213	Krishnaiah S, Das T, Nirmalan PK, Nutheti R, et al (2005). Risk factors for age-related macular degeneration: Findings from the Andhra Pradesh eye disease study in South India. <i>Invest Ophthalmol Vis Sci</i> , 46 (12) pp 4442-4449.
14786	Kristinsson JK, Hauksdottir H, Stefansson E, Jonasson F & Gislason I (1997). Active prevention in diabetic eye disease. A 4-year follow-up. <i>Acta Ophthalmologica Scandinavica</i> , Vol 75 (3) pp 249-54.
28127	Kuzniarz M, Mitchell P, Flood VM, Wang JJ (2002). Use of vitamin and zinc supplements and age-related maculopathy: the Blue Mountains Eye Study. <i>Ophthalmic Epidemiology</i> , 9(4) pp 283-95.
28136	Levin DS, Lim JI (2002). Update on pseudophakic cystoid macular edema treatment options [Review]. <i>Ophthalmology Clinics of North America</i> , 15(4) Dec. pp 467-72.

49713	Libre PE (2003). [Comment] Intraoperative light toxicity: A possible explanation for the association between cataract surgery and age-related macular degeneration. <i>Am J Ophthalmol</i> , 136(5): 961.
49691	Liew G (2007). [Letter] Macular degeneration and heart disease. <i>Ophthalmol</i> , 114(9): 1793.
49696	Liew G, Kaushik S, Rochtchina E, Tan AG, et al (2006). Retinal vessel signs and 10-year incident age-related maculopathy. The Blue Mountains Eye Study. <i>Ophthalmol</i> , 113: 1481-7.
49685	Liew G, Mitchell P, Wong TY, Iyengar SK, Wang JJ (2008). CKD increases the risk of age-related macular degeneration. <i>J Am Soc Nephrol</i> , 19: 806-11.
45375	Lim JI (??). Expert Column - risk factors for age-related macular degeneration. Obtained from: <a href="http://www.medscape.com/viewarticle/532642">http://www.medscape.com/viewarticle/532642</a>
27763	Lima MC, Paranhos A Jr, Salim S, Honkanen R, et al (2000). Visually significant cystoid macular edema in pseudophakic and aphakic patients with glaucoma receiving latanoprost. <i>Journal of Glaucoma</i> 9(4) pp 317-21.
6470	Linton KLP, Klein BEK, Klein R (1991). The validity of self-reported and surrogate-reported cataract and age-related macular degeneration in the Beaver Dam Eye study. <i>Am. Journal of Epidemiology</i> , 134(12) pp 1438-1445.
14822	Liu IY, White L, LaCroix AZ (1989). The association of age-related macular degeneration and lens opacities in the aged. <i>American Journal of Public Health</i> , Vol 79 pp 765-9.
36164	Loeffler KU, Sastry SM, McLean IW (2001). Is age-related macular degeneration associated with pinguecula or scleral plaque formation? <i>Current Eye Research</i> , 23(1) pp 33-37.
49834	Lois N, Abdelkader E, Reglitz K, Garden C, Ayres J (2008). Environmental tobacco smoke (ETS) exposure and eye disease. <i>Br J Ophthalmol</i> , 92(10): 1304-10.
14824	MacFaul PA. (1969). Visual prognosis after solar retinopathy. <i>British J Ophthalmology</i> , Vol 53 pp 534-541.
49651	Malek G, Cousins SW (2006). [Comment] Is our current clinical classification of AMD up to the job? <i>Br J Ophthalmol</i> , 90: 1080-1.
13764	Manners TD and Clarke MP (1995). [Comment] Maculopathy Associated with Diazepam. <i>Eye</i> , 9(Pt 5): 660-662.
49662	Mares JA, Moeller SM (2006). [Comment] Diet and age-related macular degeneration: expanding our view. <i>Am J Clin Nutr</i> , 83: 733-4.
42394	Mares JA, Moeller SM (2006). Diet and age-related macular degeneration: expanding our view. <i>Am J Clin Nutr</i> , Vol 83 pp 733-734.
42681	Mares JA, Moeller SM (2006). Diet and age-related macular degeneration: expanding our view. <i>Am J Clin Nutr</i> , Vol 83 pp 773-734.
13709	Mares-Perlman JA, Brady WE, Klein R, VandenLangenberg GM, Klein BE and Palta M (1995). Dietary Fat and Age-Related Maculopathy. <i>Archives of Ophthalmology</i> . Vol 113(6) pp 743-748.
49617	Margolis R, Budd GT, Singh AD (2007). Unusual macular degeneration following breast cancer. <i>Acta Ophthalmologica Scandinavica</i> , 85: 686-7.
49706	Margrain TH, Boulton M, Marshall J, Sliney DH (2004). Do blue light filters confer protection against age-related macular degeneration? <i>Progress in Retinal and Eye Research</i> , 23: 523-31.

27116	Marles-Perlman JA, Fisher AI, Klein R, Palta M, et al (2001). Lutein and Zeaxanthin in diet and serum and their relation to age-related maculopathy in the Third National Health and Nutrition Examination Survey. <i>American Journal of Epidemiology</i> , 153(5) pp 424-32.
14859	Marlor RL, Blais BR, Preston FR, & Boyden DG. (1973). Foveal macular retinitis, an important problem in military medicine: epidemiology. <i>Invest Ophthalmol</i> , Vol 12 pp 5-16.
27142	Mason JO 3rd (2002). Bilateral phakic cystoid macular edema associated with Crohn's disease. <i>Southern Medical Journal</i> , 95(9) pp 1079-80.
20941	Maturi RK. (2000). ARMD, nonexudative from ophthalmology/retina. <a href="http://www.emedicine.com/oph/topic383.htm">Http://www.emedicine.com/oph/topic383.htm</a>
27039	McCarthy CA, Mukesh BN, Fu CL, Mitchell P, Wang JJ, Taylor HR. Risk factors for age-related maculopathy. The Visual Impairment Project. <i>Arch Ophthalmol</i> (2001) Vol 119: 1455-1462.
27143	McCarthy CA, Mukesh BN, Guymer RH, Baird PN, Taylor HR (2001)[LETTER]. Cholesterol-lowering medications reduce the risk of age-related maculopathy progression. <i>Medical Journal of Australia</i> , 175(6) p 340.
36166	McCarty CA, Mukesh BN, Fu CL, Mitchell P, Wang JJ, Taylor HR (2001). Risk factors for age-related maculopathy: the visual impairment project. <i>Archives of Ophthalmology</i> , vol 119 no 10 pp 1455-1462.
46496	McGeer PL, Sibley J (2005). Sparing of age-related macular degeneration in rheumatoid arthritis. <i>Neurobiology of Aging</i> , 26:1199-203.
31994	McGwin G Jr, Owsley C, Curcio CA, Crain RJ. The association between statin use and age related maculopathy. <i>Br J Ophthalmology</i> 2003;87:1121-1125.
42328	McGwin G, Modjarrad K, Hall TA, Xie A, Owsley C (2006). 3-hydroxy-3-methylglutaryl coenzyme a reductase inhibitors and the presence of age-related macular degeneration in the cardiovascular health study. <i>Arch Ophthalmol</i> , Vol 124 pp 33-37.
42329	Metelitsina TI, Grunwald JE, DuPont JC, Ying G-S (2006). Effect of systemic hypertension on foveolar choroidal blood flow in age related macular degeneration. <i>Br J Ophthalmol</i> , Vol 90 pp 342-346.
50450	Miller DM, Espinosa-Heidmann DG, Legra J, et al (2004). The association of prior cytomegalovirus infection with neovascular age-related macular degeneration. <i>Am J Ophthalmol</i> , 138: 323-8.
27120	Mitchell P, Chapman S, Smith W (1999) [EDITORIAL]. Smoking is a major cause of blindness: A new cigarette pack warning. <i>Medical Journal of Australia</i> , Vol 171 pp173-4.
13704	Mitchell P, Smith W, Attebo K, Wang JJ (1995). Prevalence of Age-related Maculopathy in Australia. The Blue Mountains Eye Study. <i>Ophthalmology</i> . 102(10) pp 1450-1460.
14727	Mitchell P, Smith W, Wang JJ (1998). Iris color, skin sun sensitivity, and age-related maculopathy. The Blue Mountains eye study. <i>Ophthalmology</i> , Vol 105 pp 1359-1363.
20957	Mitchell P, Wang JJ (1999). Diabetes, fasting blood glucose and age-related maculopathy: the Blue Mountains Eye Study. <i>Australian &amp; New Zealand Journal of Ophthalmology</i> , Vol 27 pp 197-199.
27056	Mitchell P, Wang JJ, Foran S, Smith W (2002). Five-year incidence of age-related maculopathy lesions. The Blue Mountains Eye Study. <i>American Academy of Ophthalmology</i> , 109(6) pp 1092-7. Erratum : <i>Ophthalmology</i> ,109(9) pp 1588.

27045	Mitchell P, Wang JJ, Smith W, Leeder SR. Smoking and the 5-year incidence of age-related maculopathy. The Blue Mountain Eye Study. Arch Ophthalmol (2002) Vol 120: 1357-1363.
6411	Mitchell RA (1993). Prevalence of age related macular degeneration in persons aged 50 years and over resident in Australia. J Epidemiol Community Health, Vol 47 pp 42-45.
42957	Miyagawa M, Hayasaka S, Noda S (1994). Photic maculopathy resulting from the light of a video camera in patients taking triazolam. Ophthalmologica, 208(3) pp 145-146.
27049	Miyake K, & Ibaraki N. Prostaglandins and cystoid macular edema. Survey of Ophthalmology, (2002) Vol 47 Suppl 1: S203-S217.
27066	Miyake K, Ota I, Ibaraki N, Akura J, Ichihashi S, Shibuya Y, Maekubo K, Miyake S. Enhanced disruption of the blood-aqueous barrier and the incidence of angiographic cystoid macular edema by topical timolol and its preservative in early postoperative pseudophakia. Arch Ophthalmol (2001) Vol 119: 387-394.
49663	Miyazaki M, Kiyohara Y, Yoshida A, Iida M, Nose Y, Ishibashi T (2005). The 5-year incidence and risk factors for age-related maculopathy in a general Japanese population: the hisayama study. Invest Ophthalmol Vis Sci, 46: 1907-10.
31993	Miyazaki M, Nakamura H, Kubo M, Kiyohara Y, Oshima Y, Ishibashi T, Nose Y. Risk factors for age related maculopathy in a Japanese population: the Hisayama study. Br J Ophthalmology 2003;87:469-472
42211	Moeini HA, Masoudpour H, Ghanbari H (2005). A study of the relation between body mass index and the incidence of age related macular degeneration. Br J Ophthalmol, Vol 89 pp 964-966.
49653	Moeller SM, Parekh N, Tinker L, Ritenbaugh, et al (2006). Associations between intermediate age-related macular degeneration and lutein and zeaxanthin in the carotenoids in age-related eye disease study (CAREDS). Arch Ophthalmol, 124: 1151-62.
27076	Mohney BG & Agarwal S. Cystoid macular edema following extraocular muscle surgery. Journal of AAPOS (2002) Vol 6(2): 120-2.
49628	Morris MS, Jacques PF, Chylack LT, Hankinson SE, et al (2007). Intake of zinc and antioxidant micronutrients and early age-related maculopathy lesions. Ophthalmic Epidemiology, 14: 288-98.
13692	Moss SE, Klein R, Klein BEK, Jensen SC and Meuer SM (1998). Alcohol Consumption and the 5-year Incidence of Age-related Maculopathy. The Beaver Dam Eye Study. Vol 105(5) pp 789-94
16781	Motten AG, Martinez LJ, Holt N, Sik RH, et al (1999). Photophysical studies on antimalarial drugs. Photochemistry and Photobiology, 69(3) pp 282-287.
42315	Murube J; Donoso LA (2006). [Letters] Age-related macular degeneration is a cause of centrotyphlosis but not of blindness. Surv Ophthalmol, 51(5) pp 532.
28165	Nagpal M, Nagpal K, Nagpal PN (2001). Postcataract cystoid macular edema. Ophthalmology Clinics of North America, 14(4) pp 651-9, ix.
51602	Neudorfer M, Leibovitch I, Goldstein M, Loewenstein A (2002). Massive choroidal hemorrhage associated with low molecular weight heparin therapy. Blood Coagulation and Fibrinolysis, 13: 257-9.
49643	Neuner B, Wellmann J, Dasch B, Behrens T, et al (2007). Modeling smoking history: A comparison of different approaches in the MARS study on age-related maculopathy. Ann Epidemiol, 17: 615-21.

27055	Newsom R, Casswell T, O'Moore E, Fisher M (1998). [Comment] Cystoid macular oedema in patients with AIDS and cytomegalovirus retinitis on highly active antiretroviral therapy. <i>Br J Ophthalmol</i> , 82: 456-7.
43257	Nirmalan PK, Katz J, Robin AL, Ramakrishnan R, Krishnadas R, Thulasiraj RD, Tielsch JM (2004). Female reproductive factors and eye disease in a rural South Indian population: the Aravind comprehensive eye study. <i>Invest Ophthalmol Vis Sci</i> , 45(12) pp 4273-4276.
44636	Nowak M, Swietochowska E, Wielkoszynski T, Marek B, et al (2005). Homocysteine, vitamin B12, and folic acid in age-related macular degeneration. <i>European Journal of Ophthalmology</i> , 15(6) pp 764-767.
13748	Obikili AG (1990). A Type Of Macular Degeneration In Adult Nigerians; A Possible Role Of Chloroquine. <i>East African Medical Journal</i> . Vol 67(9) pp 614-621.
13762	Obisesan TO, Hirsch R, Kosoko O, Carlson L and Parrott M (1998). Moderate Wine consumption Is Associated with Decreased Odds of Developing Age-Related Macular Degeneration in NHANES-1. <i>Journal of the American Geriatrics Society</i> . Vol 46(1) pp 1-7.
27131	Obisesan TO, Hirsch R, Omofolasade K, Carlson L, Parrott M (1998). Moderate wine consumption is associated with decreased odds of developing age-related macular degeneration in NHANES-1. <i>Journal of the American Geriatrics Society</i> 46(1) pp 1-7.
49625	O'Connell ED, Nolan JM, Stack J, Greenberg D, et al (2008). Diet and risk factors for age-related maculopathy. <i>Am J Clin Nutr</i> , 87: 712-22.
14632	O'Shea JG (1997). Age-related macular degeneration. <i>Postgrad Med J</i> , 74(870) pp 203-207.
49695	Patel JI (2007). Is cataract surgery a risk factor for progression of macular degeneration? <i>Curr Opin Ophthalmol</i> , 18: 9-12.
49579	Patient UK (2008). Kuhnt Junius Degeneration. <a href="http://www.patient.co.uk/leaflets/kuhnt_junius_degeneration.htm">http://www.patient.co.uk/leaflets/kuhnt_junius_degeneration.htm</a>
6412	Pauleikhoff D, Barondes MJ, Minassian D, Chisholm IH, Bird AC (1990). Drusen as risk factors in age-related macular disease. <i>Am Journal of Ophthalmology</i> , Vol 109 pp 38-43.
42279	Paunksnis A, Cimbalas A, Cerniauskiene LAR, Luksiene DI, et al (2005). Early age-related maculopathy and risk factors of cardiovascular disease in middle-aged Lithuanian urban population. <i>Eur J Ophthalmol</i> , 15(2) pp 255-262.
27133	Penfold P, Madigan MC, Gillies MC, Provis JM (2001). Immunological and aetiological aspects of macular degeneration. <i>Progress in Retinal and Eye Research</i> , 20(3) pp 385-414.
27070	Penfold PL, Madigan MC, Gillies MC, & Provis JM. Immunological and aetiological aspects of macular degeneration. <i>Progress in Retinal &amp; Eye Research</i> (2001) Vol 20(3) : 385-414.
49689	Pham TQ, Cugati S, Rochtchina E, Mitchell P, Maloof A, Wang JJ (2007). Early age-related maculopathy in eyes after cataract surgery. <i>Eye</i> , 21: 512-7.
42312	Pham TQ, Wang JJ, Rochtchina E, Mitchell P (2005). Pterygium/Pinguecula and the five-year incidence of age-related maculopathy. <i>Am J Ophthalmol</i> , Vol 139 pp 536-537.
6413	Piguet B, Wells JA, Palmvang IB, Wormald R, et al (1993). Age-related Bruch's membrane change: A clinical study of the relative role of heredity and environment. <i>Br J Ophthalmol</i> , Vol 77 pp 400-403.

49624	Plestina-Borjan I, Klinger-Lasic M (2007). Long-term exposure to solar ultraviolet radiation as a risk factor for age-related macular degeneration. <i>Coll Antropol</i> , 31 (Suppl 1): 33-8.
27118	Pollack A, Bukelman A, Zalish M, Leiba H, Oliver M (1998). The course of age-related macular degeneration following bilateral cataract surgery. <i>Ophthalmic Surgery and Lasers</i> , 29(4) pp 286-94.
13635	Pollack A, Marcovich A, Bukelman A and Oliver M (1996). Age-related Macular Degeneration after Extracapsular Cataract Extraction with Intraocular Lens Implantation. <i>Ophthalmology</i> . Vol 103(10) pp 1546-1554.
13697	Pollack A, Marcovich A, Bukelman A, Zalish M and Oliver M (1997). Development Of Exudative Age-Related Macular Degeneration After Cataract Surgery. <i>Eye</i> . Vol 11 (pt4) pp 523-530.
51783	Raj A, Sekhri R, Salam A, Priya P (2003). [Comment] Massive subretinal bleed in a patient with background diabetic retinopathy and on treatment with warfarin. <i>Eye</i> , 17(5): 649-52.
13638	Rakoczy P and Constable IJ (1998). Pathogenesis of macular degenerations: Is there any progress? <i>Australian and New Zealand Journal of Ophthalmology</i> . Vol 26 pp 67-70.
20944	Reichel E, Sandberg MA (2000). Heredofamilial macular degenerations. DM Albert, FA Jakobiec (Eds). <i>Principles &amp; Practice of Ophthalmology</i> , 2nd Edition, Vol 3 Chapter 173: 2301-2302. W.B. Saunders Company.
13706	Ritter LL, Klein R, Klein BEK, Mares-Perlman JA and Jensen SC (1995). Alcohol Use and Age-related Maculopathy in the Beaver Dam Eye Study. <i>American Journal of Ophthalmology</i> . Vol 120(2) pp 190-196.
50321	Robman L, Mahdi O, McCarty C, Dimitrov P, et al (2005). Exposure to chlamydia pneumoniae infection and progression of age-related macular degeneration. <i>Am J Epidemiol</i> , 161(11): 1013-9.
49582	Robman L, Mahdi OS, Wang JJ, et al (2007). Exposure to chlamydia pneumoniae infection and age-related macular degeneration: the Blue Mountains Eye Study. <i>Invest Ophthalmol Vis Sci</i> , 48: 4007-11.
49658	Robman L, Vu H, Hodge A, McCarty CA, Taylor HR (2006). [Comment] Dietary lutein and zeaxanthin. <i>Br J Ophthalmol</i> , 90: 1211-2.
27138	Robman LD, Tikellis G, Garrett SKM, Harper CA, et al (1999). Baseline ophthalmic findings in the Vitamin E, Cataract and Age-Related Maculopathy (VECAT) study. <i>Australian and New Zealand Journal of Ophthalmology</i> , 27(6) pp 410-6.
49694	Rochtchina E, Wang JJ, Flood VM, Mitchell P (2007). Elevated serum homocysteine, low serum vitamin B12, folate, and age-related macular degeneration: The Blue Mountains Eye Study. <i>Am J Ophthalmol</i> , 143(2): 344-6.
14826	Rosen E. (1948). Solar retinitis. <i>Br J Ophthalmol</i> , Vol 32 pp 23-35.
27048	Rossetti A, Doro D. Retained intravitreal lens fragments after phacoemulsification: complications and visual outcome in vitrectomized and nonvitrectomized eyes. <i>J Cataract Refractive Surgery</i> (2002) Vol 28: 311-5.
27125	Rossetti L, Autelitano A (2000). Cystoid macular edema following cataract surgery [Cataract surgery and lens implantation]. <i>Current Opinion in Ophthalmology</i> , Vol 11(1) pp 65-72.
13693	Rossetti L, Chaudhuri J and Dickersin K (1998). Medical Prophylaxis and Treatment of Cystoid Macular Edema after Cataract Surgery. The Results of a Meta-analysis. <i>Ophthalmology</i> . Vol 105(3) pp 397-405.

20939	Roth DB. (2001). Nonpseudophakic cystoid macular edema from ophthalmology/retina. <a href="http://www.emedicine.com/oph/topic638.htm">Http://www.emedicine.com/oph/topic638.htm</a>
13691	Rothova An, Suttorp-van Schulten MSA, Treffers WF and Kijlstra A (1996). Causes and frequency of blindness in patients with intraocular inflammatory disease. <i>British Journal of Ophthalmology</i> . Vol 80(4) pp 332-336.
42280	Ryan EH, Han DP, Ramsay RC, Cantrill HL, et al (2006). Diabetic macular edema associated with glitazone use. <i>Retina</i> , Vol 26 pp 562-570.
28198	Sackett CS, Schenning S (2002). The age-related eye disease study: the results of the clinical trial. <i>Insight</i> , 27(1) pp 5-7.
27054	Sarks SH, Arnold JJ, Killingsworth MC, Sarks JP. Early drusen formation in the normal and aging eye and their relation to age related maculopathy: a clinicopathological study. <i>Br J Ophthalmology</i> (1999) Vol 83: 358-68.
46924	Sassani JW, Brucker AJ, Cobbs W, Campbell C (1983). Progressive chloroquine retinopathy. <i>Annals of Ophthalmology</i> , 15(1): 19-22.
42682	Sastry BVR, Hemontolor ME (1998). Influence of nicotine and cotinine on retinal phospholipase A2 and its significance to macular function. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 14(5) pp 447-458.
49716	Saw SM, Gazzard G, Shih-Yen EC, Chua WH (2005). Myopia and associated pathological complications. <i>Ophthalm Physiol Opt</i> , 25: 381-91.
27034	Schaumberg DA, Christen WG, Hankinson SE, Glynn RJ (2001). Body mass index and the incidence of visually significant age-related maculopathy in men. <i>Arch Ophthalmol</i> , Vol 119 pp 1259-65.
44156	Schaumberg DA, Hankinson SE, Guo Q, Rimm E, Hunter DJ (2007). A prospective study of 2 major age-related macular degeneration susceptibility alleles and interactions with modifiable risk factors. <i>Arch Ophthalmol</i> , 125(1) pp 55-62.
27050	Schumer RA, Camras CB, & Mandahl AK. Putative side effects of prostaglandin analogs. <i>Survey of Ophthalmology</i> (2002) Vol 47 Suppl 1 : S219-S230.
27132	Schumer RA, Camras CB, Mandahl AK (2000). Latanoprost and cystoid macular edema: is there a causal relation? <i>Current Opinion in Ophthalmology</i> , 11(2) pp 94-100.
50448	Scott IU, Flynn HW Jr, Smiddy WE (1998). Bull's-eye maculopathy associated with chronic macular hole. <i>Arch Ophthalmol</i> , 116: 1116-7.
20943	Seddon JM (2000). Epidemiology of age-related macular degeneration. <i>DM albert, FA Jakobiec (Eds). Principles &amp; Practice of Ophthalmology</i> , 2nd Edition, Vol 1 Chapter 47: 521-531. W.B. Saunders Company.
6415	Seddon JM, Ajani UA, Sperduta RD, et al (1994). Dietary carotenoids, Vitamins A, C and E, and advanced age-related macular degeneration. <i>JAMA</i> , 272(18) pp 1413-1420.
32003	Seddon JM, Cote J, Davis N, Rosner B. Progression of age-related macular degeneration. <i>Archives of Ophthalmology</i> 2003;121(6):785-792
49664	Seddon JM, Cote J, Page WF, Aggen SH, Neale MC (2005). The US twin study of age-related macular degeneration. <i>Arch Ophthalmol</i> , 123: 321-7.
49666	Seddon JM, Cote J, Rosner B (2003). Progression of age-related macular degeneration. Association with dietary fat, transunsaturated fat, nuts, and fish intake. <i>Arch Ophthalmol</i> , 121: 1728-37. Erratum: <i>Arch Ophthalmol</i> , 122: 426.
42391	Seddon JM, Gensler G, Klein ML, Milton RC (2006). Evaluation of plasma homocysteine and risk of age-related macular degeneration. <i>Am J Ophthalmol</i> , 141(1) pp 201-203.



42396	Seddon JM, George S, Rosner B (2006). Cigarette smoking, fish consumption, omega-3 fatty acid intake, and associations with age-related macular degeneration. <i>Arch Ophthalmol</i> , Vol 124 pp 995-1001.
42393	Seddon JM, George S, Rosner B, Klein ML (2006). CFH gene variant, Y402H, and smoking, body mass index, environmental associations with advanced age-related macular degeneration. <i>Human Heredity</i> , 61(3) pp 157-65.
27035	Seddon JM, Rosner B, Sperduto RD, Yannuzzi L, Haller JA, Blair NP, Willett W. Dietary fat and risk for advanced age-related macular degeneration. <i>Arch Ophthalmol</i> (2001) Vol 119: 1191-99.
13633	Seddon JM, Willett WC, Speizer FE and Hankinson SE (1996). A Prospective Study of Cigarette Smoking and Age-Related Macular Degeneration in Women. <i>JAMA</i> . Vol 276(14) pp 1141-1146.
7980	Seddon JM, Willett WC, Speizer FE, Hankinson SE (1996). A prospective study of cigarette smoking and age-related macular degeneration in women. <i>JAMA</i> , 276(14) pp 1141-46.
49833	Seitzman RL, Mangione CM, Cauley JA, Ensrud KE, et al (2007). Bone mineral density and age-related maculopathy in older women. <i>J Am Geriatr Soc</i> , 55: 740-6.
27139	Shanmuganathan V, Leatherbarrow B, Ansons A, Laitt R (2002)[LETTER]. Bilateral idopathic optic nerve sheath meningocele associated with unilateral transient cystoid macular oedema. <i>Eye</i> , 16(6) pp 800-2.
46497	Shinjo SK, Maia Junior OO, Tizziani VAP, Morita C, et al (2007). Chlloquine-induced bull's eye maculopathy in rheumatoid arthritis: related to disease duration? <i>Clin Rheumatol</i> , 26: 1248-53.
49652	Simonelli F, Frisso G, Testa F, di Fiore R, et al (2006). Polymorphism p.402Y>H in the complement factor H protein is a risk factor for age related macular degeneration in an Italian population. <i>Br J Ophthalmol</i> , 90: 1142-5.
49703	Smith BT, Belani S, Ho AC (2005). Light energy, cataract surgery, and progression of age-related macular degeneration. <i>Curr Opin Ophthalmol</i> , 16: 166-9.
14860	Smith HE. (1944). Actinic macular retinal pigment degeneration. <i>US Naval Med Bull</i> , Vol 42 pp 675-80.
13634	Smith W and Mitchell P (1996). Alcohol Intake and Age-Related Maculopathy. <i>American Journal of Ophthalmology</i> . Vol 122(5) pp 743-745.
27058	Smith W, Assink J, Klein R, Mitchell P, Klaver CCW, Klein BEK, Hofman A, Jensen S, Wang JJ, de Jong PTVM. Risk factors for age-related macular degeneration. Pooled findings from three continents. <i>Ophthalmology</i> (2001) Vol 108: 697-704.
9102	Smith W, Mitchell P and Leeder SR (1996). Smoking and age-related maculopathy: the Blue Mountains eye study. <i>Arch Ophthalmol</i> , Vol 114 pp 1518-1523.
13646	Smith W, Mitchell P and Leeder SR (1996). Smoking and Age-Related Maculopathy. The Blue Mountain Eye Study. <i>Arch Ophthalmol</i> . Vol 114 pp 1518-1523.
13645	Smith W, Mitchell P and Wang JJ (1997). Gender, oestrogen, hormone replacement and age-related macular degenerationL Results from the Blue Mountains Eue Study. <i>Australian and New Zealand Journal of Ophthalmology</i> . Vol 25 Supplement 1 S13-S15.
13636	Smith W, Mitchell P, Leeder SR and Wang JJ (1998). Plasma Fibrinogen Levels, Other Cardiovascular Risk Factors, and Age-Related Maculopathy. <i>Arch Ophthalmol</i> . Vol 116 pp 583-587.

27038	Smith W, Mitchell P, Leeder SR. Dietary fat and fish intake and age-related maculopathy. <i>Arch Ophthalmol</i> (2000) Vol 118: 401-4.
28129	Smith W, Mitchell P, Webb K, Leeder SR (1999). Dietary antioxidants and age-related maculopathy: The Blue Mountains Eye Study. <i>Ophthalmology</i> , 106(4) pp 761-7.
27031	Snellen ELM, Verbeek ALM, van den Hoogen GWP, Cruysberg JRM & Hoyng CB. Neovascular age-related macular degeneration and its relationship to antioxidant intake. <i>Acta Ophthalmologica Scandinavica</i> (2002) Vol 80: 368-371.
27046	Snow KK, Cote J, Yang W, Davis NJ, & Seddon JM. Association between reproductive and hormonal factors and age-related maculopathy in postmenopausal women. <i>Am J Ophthalmology</i> , (2002) Vol 134: 842-8.
27061	Snow KK, Cote J, Yang W, Davis NJ, & Seddon JM. Association between reproductive and hormonal factors and age-related maculopathy in postmenopausal women. <i>Am J Ophthalmology</i> , (2002) Vol 134: 842-8.
28320	Snow KK, Seddon JM (1999). Do age-related macular degeneration and cardiovascular disease share common antecedents. <i>Ophthalmic Epidemiology</i> 6(2) pp 125-43.
28132	Snow KK, Seddon JM (2000). Age-related eye diseases: impact of hormone replacement therapy, and reproductive and other risk factors [Review]. <i>International Journal of fertility &amp; Womens Medicine</i> , 45(5) pp 301-13.
27121	Soubrane G, Central Retinal Vein Occlusion Study Group I (1999). Macular edema in retinal vein occlusion: Up-date from the central retinal vein occlusion study. <i>Documenta Ophthalmologica</i> , vol 97 pp 279-81.
27067	Souied EH, Benhamou N, Sterkers M, Oubraham H, Coscas G, Soubrane G, Zittoun J, Echenne B, Rothenberg S. Interferon-associated retinopathy and cystoid macular edema. <i>Arch Ophthalmol</i> (2001) Vol 119: 1077-9.
47714	Spaide RF (1999). Diseases of the Retina and Vitreous. Chapter 14, Tractional Maculopathies: 215-26. W.B. Saunders Company.
13698	Sparrow JM, Dickinson AJ, Duke AM, Thompson JR, Gibson JM and Rosenthal AR (1997). Seven Year Follow-Up Of Age-Related Maculopathy In An Elderly British Population. <i>Eye</i> . Vol 11 (Pt 3) pp 315-324.
6416	Spencer WH (1985). <i>Ophthalmic Pathology - An Atlas and Textbook</i> . WB Saunders Co. Philadelphia. Third Edition - Vol 2 pp924-927, 936-937, 946-953, 960-961, 986-989.
27235	Sperduto RD (1986). Systemic hypertension and age-related maculopathy in the Framingham study. <i>Arch Ophthalmol</i> Vol 104 pp 216-9.
27051	Squrell D, Bhola R, Bush J, Winder S, Talbot JF. A prospective, case controlled study of the natural history of diabetic retinopathy and maculopathy after uncomplicated phacoemulsification cataract surgery in patients with type 2 diabetes. <i>Br J Ophthalmology</i> (2002) Vol 86: 565-571.
49650	Stone EM (2006). [Comment] A very effective treatment for neovascular macular degeneration. <i>N Engl J Med</i> , 355(14): 1493-5.
49686	Stone EM (2007). Macular degeneration. <i>Annu Rev Med</i> , 58: 477-90.
27124	Sunness JS (1999). The natural history of geographic atrophy, the advanced atrophic form of age-related macular degeneration. <i>Molecular Vision</i> , 5: 25-29.
51782	Superstein R, Gomolin JES, Hammouda W, Rosenberg A, et al (2000). Prevalence of ocular hemorrhage in patients receiving warfarin therapy. <i>Can J Ophthalmol</i> , 35(7): 385-9.

49645	Sutter FKP, Menghini M, Barthelmes D, Fleischhauer, et al (2007). Is pseudophakia a risk factor for neovascular age-related macular degeneration? <i>Invest Ophthalmol Vis Sci</i> , 48: 1472-5.
225	Syrjanen J (1993). Infection as a risk factor for cerebral infarction. <i>European Heart Journal</i> , 14 Suppl K: 17-19.
13639	Tamakoshi A, Yuzawa M, Matsui M, Uyama M, Fujiwara NK and Ohno Y (1997). Smoking and neovascular form of age related macular degeneration in late middle aged males: findings from a case-control study in Japan. <i>British Journal of Ophthalmology</i> , 81: 901-904.
49644	Tan JSL, Mitchell P, Kifley A, Flood V, Smith W, Wang JJ (2007). Smoking and the long-term incidence of age-related macular degeneration. The Blue Mountains Eye Study. <i>Arch Ophthalmol</i> , 125(8): 1089-95.
49692	Tan JSL, Mitchell P, Rochtchina E, Wang JJ (2007). Statins and the long-term risk of incident age-related macular degeneration: The Blue Mountains Eye Study. <i>Am J Ophthalmol</i> , 143: 685-7.
49621	Tan JSL, Mitchell P, Smith W, Wang JJ (2007). Cardiovascular risk factors and the long-term incidence of age-related macular degeneration. <i>Ophthalmol</i> , 114: 1143-50.
49638	Tan JSL, Wang JJ, Flood V, Rochtchina E, Smith W, Mitchell P (2008). Dietary antioxidants and the long-term incidence of age-related macular degeneration. The Blue Mountains Eye Study. <i>Ophthalmol</i> , 115: 334-41.
13803	Taylor HR (1989). Ultraviolet Radiation And The Eye: An Epidemiologic Study. <i>Transactions of the American Ophthalmological Society</i> , Vol 87 pp 802-853.
6418	Taylor HR, Munoz B, West S, et al (1990). Visible light and risk of age-related macular degeneration. <i>Trans Am Ophthal Soc</i> , Vol 88 pp 163-178.
27026	Taylor HR, Tikellis G, Robman LD, McCarty CA, McNeil JJ (2002). Vitamin E supplementation and macular degeneration: randomised controlled trial. <i>BMJ</i> , Vol 325 pp 11-14.
6417	Taylor HR, West S, et al (1992). The long-term effects of visible light on the eye. <i>Arch Ophthalmol</i> , Vol 110 pp 99-104.
13712	Taylor HR, West S, Munoz B, Rosenthal FS, et al (1992). The Long-term Effects of Visible Light on the Eye. <i>Archives of Ophthalmology</i> , 110(1) pp 99-104.
6414	The Eye Disease Case-Control Study Group (1992). Risk factors for neovascular age-related macular degeneration. <i>Arch Ophthalmol</i> , Vol 110 pp 1701-1708.
49580	The Merck Manual of Medical Information, 2nd Edition (2003). Age-related macular degeneration (ARMD) <a href="http://www.merck.com/mmhe/print/sec20/ch234/ch234b.html">http://www.merck.com/mmhe/print/sec20/ch234/ch234b.html</a>
42330	Thorne JE, Jabs DA, Kempen JH, Holbrook JT, et al (2006). Causes of visual acuity loss among patients with AIDS and cytomegalovirus retinitis in the era of highly active antiretroviral therapy. <i>Ophthalmology</i> , Vol 113 pp 1441-1445.
42214	Thornton J, Edwards R, Mitchell P, Harrison RA, Buchan I, Kelly SP (2005). Smoking and age-related macular degeneration: a review of association. <i>Eye</i> , Vol 19 pp 935-944.
51603	Tilanus MAD, Vaandrager W, Cuypers MHM, et al (2000). Relationship between anticoagulant medication and massive intraocular hemorrhage in age-related macular degeneration. <i>Graefe's Arch Clin Exp Ophthalmol</i> , 283: 482-5.

27042	Ting TD, Oh M, Cox TA, Meyer CH, Toth CA. Decreased visual acuity associated with cystoid macular edema in neovascular age-related macular degeneration. <i>Arch Ophthalmol</i> (2002) Vol 120: 731-7.
36170	Tomany SC, Cruickshanks KJ, Klein R, Klein BEK, Knudtson MD (2004). Sunlight and the 10-year incidence of age-related maculopathy: the beaver dam eye study. <i>Archives of Ophthalmology</i> , vol 122 no 5 pp 750-757.
32004	Tomany SC, Cruickshanks KJ, Klein R, Klein BEK, Knudtson MD. Sunlight and the 10-year incidence of age-related maculopathy. <i>The Beaver Dam Eye Study. Archives of Ophthalmology</i> 2004;122:750-7.
27062	Tomany SC, Klein R, & Klein BEK. The relation of coffee and caffeine to the 5-year incidence of early age-related maculopathy: the Beaver Dam Eye Study. <i>Am J Ophthalmology</i> (2001) Vol 132(2): 271-3.
36168	Tomany SC, Klein R, Klein BEK (2003). The relationship between iris color, hair color, and skin sun sensitivity and the 10-year incidence of age-related maculopathy: the beaver dam eye study. <i>Ophthalmology</i> , vol 110 no 8 pp 1526-33.
31998	Tomany SC, Wang JJ, van Leeuwen R, Klein R, Mitchell P, Vingerling JR, Klein BEK, Smith W, de Jong PTVM. Risk factors for incident age-related macular degeneration. <i>Ophthalmology</i> 2004;111:1280-7.
36187	Tomany SC, Wang JJ, van Leeuwen R, Klein R, Mitchell P, Vingerling JR, Klein BEK, Smith W, de Jong PTVM (2004). Risk factors for incident age-related macular degeneration: pooled findings from 3 continents. <i>Ophthalmology</i> , vol 111 no 7 pp 1280-7.
27029	Tong L, Vernon SA, Kiel W, Sung V & Orr GM. Association of macular involvement with proliferative retinopathy in Type 2 diabetes. <i>Diabetes Medicine</i> 2001; Vol 18: 388-394.
49700	Ulvik SO, Seland JH, Wentzel-Larsen T (2005). Refraction, axial length and age-related maculopathy. <i>Acta Ophthalmologica Scandinavica</i> , 83: 419-23. Erratum: 637.
51606	Ung T, James M, Gray RH (2003). Long term warfarin associated with bilateral blindness in a patient with atrial fibrillation and macular degeneration. <i>Heart</i> , 89(9): 985.
27964	Uy HS, Christen WG, Foster CS (2001). HLA-B27-associated uveitis and cystoid macular edema. <i>Ocular Immunology &amp; Inflammation</i> , 9(3) pp 177-83.
49665	Vaicaitiene R, Luksiene DK, Paunksnis A, Cerniauskiene LR, Domarkiene S, Cimbalas A (2003). Age-related maculopathy and consumption of fresh vegetables and fruits in urban elderly. <i>Medicina</i> , 39(12): 1231-6.
13710	van der Schaft TL, Mooy CM, de Bruijn WC, Mulder PG, Pameyer JH and de Jong PT (1994). Increased prevalence of disciform macular degeneration after cataract extraction with implantation of an intraocular lens. <i>British Journal of Ophthalmology</i> , 78(6): 441-445.
42327	van Leeuwen R, Boekhoorn S, Vingerling JR, Witteman JCM, et al (2005). Dietary intake of antioxidants and risk of age-related macular degeneration. <i>JAMA</i> , 294(24) pp 3101-3107.
31995	van Leeuwen R, Ikram MK, Vingerling JR, Witteman JCM, Hofman A, & de Jong PTVM. Blood pressure, atherosclerosis, and the incidence of age-related maculopathy: the Rotterdam Study. <i>Invest Ophthalmol Vis Sci</i> 2003;44:3771-7.
49673	van Leeuwen R, Klaver CCW, Vingerling JR, Hofman A, de Jong PTVM (2003). The risk and natural course of age-related maculopathy. <i>Arch Ophthalmol</i> , 121: 519-26. Erratum: <i>Arch Ophthalmol</i> , 121: 955.

49678	van Leeuwen R, Klaver CCW, Vingerling JR, Hofman A, de Jong PTVM (2003). Epidemiology of age-related maculopathy: a review. <i>Eur J Epidemiol</i> , 18: 845-54.
49709	van Leeuwen R, Klaver CCW, Vingerling JR, Hofman A, et al (2004). Cholesterol and age-related macular degeneration: Is there a link? <i>Am J Ophthalmol</i> , 137: 750-2.
49708	van Leeuwen R, Tomany SC, Wang JJ, Klein R, et al (2004). Is medication use associated with the incidence of early age-related maculopathy? <i>Ophthalmol</i> , 111: 1169-75.
13713	van Norren D, Vos H (1990). [Comment] Sunlight and Age-Related Macular Degeneration. <i>Archives of Ophthalmology</i> , 108(12): 1670-71. Retrieved 31 July 1998, from 1670-1671
49861	VandenLangenberg GM, Mares-Perlman JA, Klein R, Klein BE, Brady WE, Palta M (1998). Associations between antioxidant and zinc intake and the 5-year incidence of early age-related maculopathy in the Beaver Dam Eye Study. <i>Am J Epidemiol</i> , 148(2): 204-14.
27059	VanNewkirk MR, Nanjan MB, Wang JJ, Mitchell P, Taylor HR, McCarty CA. The prevalence of age-related maculopathy. The visual impairment project. <i>Ophthalmology</i> (2000) Vol 107: 1593-1600
27274	Vaudaux JD & Guex-Crosier Y. (2002). Rifabutin-induced cystoid macular oedema. <i>Journal of Antimicrobial Chemotherapy</i> , Vol 49 pp 421-422.
6459	Vinding T (1989). Age-related macular degeneration: Macular changes, prevalence and sex ratio. An epidemiological study of 1000 aged individuals. <i>Acta Ophthalmol</i> , Vol 67 pp 609-615.
13819	Vinding T (1995). Age-related Macular Degeneration. An Epidemiological Study of 1000 Elderly Individuals. With Reference to Prevalence, Funduscopic Findings, Visual Impairment and Risk Factors. <i>Acta Ophthalmologica Scandinavica</i> . Suppl 217 pp 1-32.
49698	Vine AK, Stader J, Branham K, Musch DC, Swaroop A (2005). Biomarkers of cardiovascular disease as risk factors for age-related macular degeneration. <i>Ophthalmol</i> , 112: 2076-80.
13821	Vingerling JR, Dielemans I, Bots ML, Hofman A, Grobbee DE and de Jong PTVM (1995). Age-related Macular Degeneration Is Associated with Atherosclerosis. The Rotterdam Study. <i>American Journal of Epidemiology</i> . Vol 142(4) pp 404-409.
13708	Vingerling JR, Dielemans I, Witteman CM, Hofman A, Grobbee DE and de Jong PTVM (1995). Macular degeneration and early menopause: a case-control study. <i>BMJ</i> . Vol 310(6994) pp 1570-1571.
13647	Vingerling JR, Hofman A, Grobbee DE and de Jong PTVM (1996). Age-Related Macular Degeneration and Smoking. <i>Arch Ophthalmol</i> . Vol 114 pp 1193-1196.
13820	Vingerling JR, Klaver CCW, Hofman A and de Jong PTVM (1995). Epidemiology of Age-related Maculopathy. <i>Epidemiologic Reviews</i> . Vol 17(2) pp 347-360.
49623	Vojnikovic B, Njiric S, Coklo M, Spanjol J (2007). Ultraviolet sun radiation and incidence of age-related macular degeneration on Croatian Island Rab. <i>Coll Antropol</i> , 31 (Suppl 1): 43-4.
27075	Voutilainen-Kaunisto R, Terasvirta ME, Uusitupa MIJ, Niskanen LK. Age-related macular degeneration in newly diagnosed type 2 diabetic patients and control subjects. A 10-year follow-up evolution, risk factors, and prognostic significance. <i>Diabetes Care</i> (2000) Vol 23: 1672-8.

51325	Vu HTV, Robman L, Hodge A, McCarty CA et al (2006). Lutein and zeaxanthin and the risk of cataract: The Melbourne Visual Impairment Project. <i>Invest Ophthalmol Vis Sci</i> , 47(9): 3783-86.
49659	Vu HTV, Robman L, McCarty CA, Taylor HR, Hodge A (2006). [Comment] Does dietary lutein and zeaxanthin increase the risk of age related macular degeneration? The Melbourne Visual Impairment Project. <i>Br J Ophthalmol</i> , 90(90): 389-90.
27063	Wand M & Gaudio AR. Cystoid macular edema associated with ocular hypotensive lipids. <i>Am J Ophthalmology</i> (2002) Vol 133(3) : 403-5.
27064	Wand M & Shields BM. Cystoid macular edema in the era of ocular hypotensive lipids. <i>Am J Ophthalmology</i> (2002) Vol 133: 393-7.
36169	Wang JJ, Jakobsen K, Smith W, Mitchell P (2003). Five-year incidence of age-related maculopathy in relation to iris, skin or hair colour, and skin sun sensitivity: the Blue Mountains Eye Study. <i>Clinical and Experimental Ophthalmology</i> , vol 31 pp 317-321.
49707	Wang JJ, Jakobsen KB, Smith W, Mitchell P (2004). Refractive status and the 5-year incidence of age-related maculopathy: the Blue Mountains Eye Study. <i>Clinical and Experimental Ophthalmology</i> , 32: 255-8.
31999	Wang JJ, Klein R, Smith W, Klein BEK, Tomany S, Mitchell P. Cataract surgery and the 5-year incidence of late-stage age-related maculopathy. <i>Ophthalmology</i> 2003;110:1960-7.
31992	Wang JJ, Mitchell P, Rochtchina E, Tan AG, Wong TY, Klein R. Retinal vessel wall signs and the 5 year incidence of age related maculopathy: the Blue Mountains Eye Study. <i>Br J Ophthalmology</i> 2004;88:104-9
27130	Wang JJ, Mitchell P, Smith W (1998). Refractive error and age-related maculopathy: the Blue Mountains Eye Study. <i>Investigative Ophthalmology &amp; Visual Science</i> , 39(11) pp 2167-71.
28130	Wang JJ, Mitchell PG, Cumming RG, Lim R (1999). Cataract and age-related maculopathy: the Blue Mountains Eye Study. <i>Ophthalmic Epidemiology</i> , 6(4) pp 317-26.
42313	Wang JJ, Rochtchina E, Lee AJ, Chia E-M, et al (2007). Ten-year incidence and progression of age-related maculopathy. The Blue Mountains Eye Study. <i>Ophthalmology</i> , Vol 114 pp 92-98.
27028	Warner AE (2002). Early hydroxychloroquine macular toxicity. <i>Arthritis &amp; Rheumatism</i> , 44: 1959-61.
49648	Weale R (2006). [Comment] Smoking and age-related maculopathies. <i>The Lancet</i> , 368: 1235-6.
38025	Weih L, VanNewkirk M, McCarty Cand Taylor HR (2000). Age-specific causes of bilateral visual impairment. <i>Archives of Ophthalmology</i> , 118(2) pp 264-269.
51604	Weir CR, Nolan DJ, Holding D, Hammer H (2000). [Comment] Intraocular haemorrhage associated with anticoagulant therapy. <i>Acta Ophthalmologica Scandinavica</i> , 78: 492-3.
36167	West ES, Schein OD (2005). Sunlight and age-related macular degeneration. <i>International Ophthalmology Clinics</i> , vol 45 no 1 pp 41-7.
13715	West SK, Rosenthal FS, Bressler NM, Bressler SB, Munoz B, Fine SL and Taylor HR (1989). Exposure to Sunlight and Other Risk Factors for Age-Related Macular Degeneration. <i>Archives of Ophthalmology</i> . Vol 107(6) pp 875-879.
49654	Whitehead AJ, Mares JA, Danis RP (2006). Macular pigment. A review of current knowledge. <i>Arch Ophthalmol</i> , 124: 1038-45.

49952	Williams PT (2008). Prospective study of incident age-related macular degeneration in relation to vigorous physical activity during 7-year follow-up. <i>Invest Ophthalmol Vis Sci</i> , Jun 19 [Epub ahead of print].
49641	Wong RW, Richa DC, Hahn P, GreenWR, Dunaief JL (2007). Iron toxicity as a potential factor in AMD. <i>Retina</i> , 27: 997-1003.
27267	Wong TY, Klein R, Klein BEK, Tomany SC (2002). Refractive errors and 10-year incidence of age-related maculopathy. <i>Investigative Ophthalmology &amp; Visual Science</i> , 43(9) pp 2869-73.
49619	Wong TY, Rogers SL (2007). Statins and age-related macular degeneration: time for a randomized controlled trial? <i>Am J Ophthalmol</i> , 144(1): 117-9.
32050	Wu KHC, Wang JJ, Rochtchina E, Foran S, Ng MKC, Mitchell P (2004). Angiotensin-converting enzyme inhibitors (ACEIs) and age-related maculopathy (ARM):cross-sectional findings from the Blue Mountains Eye Study. <i>Acta Ophthalmologica Scandinavica</i> , 82: 298-303.
43400	Xu L, Li Y, Zheng Y, Jonas JB (2006). Associated factors for age related maculopathy in the adult population in China: the Beijing eye study. <i>Br J Ophthalmol</i> , Vol 90 pp 1087-1090.
51605	Yang SS, Fu AD, McDonald R, Johnson RN, et al (2003). Massive spontaneous choroidal hemorrhage. <i>Retina</i> , 23: 139-44.
14858	Yannuzzi LA, Fisher YL, Slakter JS, Krueger A. (1989). Solar retinopathy. A photobiologic and geophysical analysis. <i>Retina</i> , Vol 9 pp 28-43.
13703	Yap EY and Robertson DM (1996). The Long-term Outcome of Central Serous Chorioretinopathy. <i>Archives of Ophthalmology</i> . Vol 114(6) pp 689-692.
27047	Yeh PC, Ramanathan S. Latanoprost and clinically significant cystoid macular edema after uneventful phacoemulsification with intraocular lens implantation. <i>J Cataract Refractory Surgery</i> (2002) Vol 28: 1814-8.
6472	Young RW (1988). Solar radiation and age-related macular degeneration. <i>Survey of Ophthalmology</i> , 32(4) pp 252-269.
13716	Young RW (1988). Solar Radiation and Age-related Macular Degeneration. <i>Survey of Ophthalmology</i> . Vol 32(4) pp 252-269.
13900	Young RW. (1994). The family of sunlight-related eye diseases. <i>Optometry &amp; Vision Science</i> , Vol 71 (2) pp 125-144.
27122	Zafirakis P, Markomichelakis NN, Voudouri A, Theodossiadis GP, Theodossiadis pp (1999). Cystoid macular edema in a patient with acquired immunodeficiency syndrome and past ocular history of cytomegalovirus retinitis after initiation of protease inhibitors. <i>Documenta Ophthalmologica</i> Vol 97 pp 311-15.
27053	Zander E, Herfurth S, Bohl B, Herrmann U, Kohnert K-D, Kerner W. Maculopathy in patients with diabetes mellitus type 1 and type 2: associations with risk factors. <i>Br J Ophthalmology</i> (2000) Vol 84: 871-6.
27965	Zarbin MA (1998). Age-related macular degeneration: review of pathogeneses [Review]. <i>European Journal of Ophthalmology</i> , 8(4 Oct-Dec pp 199-206.
42756	Zuehlke RL, Lillis PJ, Tice A (1981). Antimalarial therapy for lupus erythematosus: an apparent advantage of quinacrine. <i>Int J Dermatol</i> , 20(1) pp 57-61.

## Appendix C

Information upon which the Council understands the Applicant relied (being information which the RMA advised was available to (before) the RMA at the relevant times and which the RMA sent to the Council in accordance with section 196K of the VEA). (see para 37 of the reasons)

<b>RMA ID</b>	<b>DESCRIPTION</b>
49688	Klein, R, Knudtson, MD, Cruickshanks, KJ & Klein, BEK 2008, 'Further observations on the association between smoking and the long-term incidence and progression of age-related macular degeneration. The Beaver Dam Eye Study', <i>Arch Ophthalmol</i> , vol. 126, no. 1, pp. 115-21.
49834	Lois, N, Abdelkader, E, Reglitz, K, Garden, C & Ayres, J 2008, 'Environmental tobacco smoke (ETS) exposure and eye disease', <i>Br J Ophthalmol</i> , vol. 92, no. 10, pp.1304-10.



## Appendix D

Information that the RMA advised was not available to (not before) the RMA (which the Applicant contended was in existence at the relevant times, and so could have been accessed by the RMA).

RMA ID	DESCRIPTION
	Barclay, L 2008, 'Current Smoking related to Age-related Macular Degeneraton', <i>CME</i> , 16 January 2008.
	Handcock, C 2011, 'Environmental tobacco smoke exposure and eye disease. An Abstract of "Lois, N, Abdelkader, E, Reglitz, K, Garden, C & Ayres, J 2008, 'Environmental tobacco smoke (ETS) exposure and eye disease', <i>Br J Ophthalmol</i> , vol. 92, no. 10, pp. 1304-10"', written submission to the Specialist Medical Review Council, dated 17 February 2011.

## Appendix E

Information upon which the Commissions relied (being information which the RMA advised was available to (before) the RMA at the relevant times and which the RMA sent to the Council in accordance with section 196K of the VEA).

RMA ID	DESCRIPTION
6408	Klein, R, Klein, BEK, Linton, KLP & DeMets, DL 1993, 'The Beaver Dam eye study: The relation of age-related maculopathy to smoking', <i>Am J Epidemiol</i> , vol.137, no.2, pp. 190-200.
9102 & 13646	Smith, W, Mitchell, P & Leeder, SR 1996, 'Smoking and Age-Related 13646 Maculopathy. The Blue Mountain Eye Study', <i>Arch Ophthalmol</i> . Vol. 114, pp. 1518-1523.
49688	Klein, R, Knudtson, MD, Cruickshanks, KJ & Klein, BEK 2008, 'Further observations on the association between smoking and the long-term incidence and progression of Age-related Macular Degeneration', <i>Arch Ophthalmol</i> , vol. 126, no.1, pp. 115-21.
37432	Khan, JC, Thurlby, DA, Shahid, H, Clayton, DG, Yates, JR, Bradley, M, Moore, AT & Bird, AC 2006, 'Smoking and age related macular degeneration: the number of pack years of cigarette smoking is a major determinant of risk for both geographic atrophy and choroidal neovascularisation', <i>Br J Ophthalmol</i> , vol. 90, pp. 75-80.
49834	Lois, N, Abdelkader, E, Reglitz, K, Garden, C & Ayres, J 2008, 'Environmental tobacco smoke (ETS) exposure and eye disease', <i>Br J Ophthalmol</i> , vol. 92, no. 10, pp. 1304-10.
50074	Cong, R, Zhou, B, Sun, Q, Gu, H, Tang, N & Wang, B 2008, 'Smoking and the risk of age-related macular degeneration: a meta-analysis', <i>Ann Epidemiol</i> , vol. 18, pp. 647-56.
42214	Thornton, J, Edwards, R, Mitchell, P, Harrison, RA, Buchan, I & Kelly, SP 2005, 'Smoking and age-related macular degeneration: a review of association', <i>Eye</i> , vol.19, pp. 935-944.
27058	Tomany, SC, Wang, JJ, van Leeuwen, R, Klein, R, Mitchell, P, Vingerling, JR, Klein, BEK, Smith, W & de Jong, PTVM 2004, 'Risk factors for incident age-related macular degeneration', <i>Ophthalmology</i> , vol. 111, pp. 1280-7.
27058	Smith, W, Assink, J, Klein, R, Mitchell, P, Klaver, CCW, Klein, BEK, Hofman, A, Jensen, S, Wang, JJ & de Jong, PTVM 2001, 'Risk factors for age-related macular degeneration. Pooled findings from three continents', <i>Ophthalmology</i> , vol. 108, pp. 697-704.