

Scott Whitton Menzies MB BS, PhD

Professor

Sydney Medical School

Discipline of Dermatology

The University of Sydney

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Summary

Employment Address: Sydney Melanoma Diagnostic Centre, Sydney Cancer Centre, Royal Prince Alfred Hospital, Missenden Rd., Camperdown, NSW, Australia 2050.

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Present Position: Professor, Sydney Medical School, Discipline of Dermatology (Central Clinical School), The University of Sydney.

Deputy Director, Sydney Melanoma Diagnostic Centre, Royal Prince Alfred Hospital.

Qualifications: MB BS PhD

Date of Birth: 16/3/62

Curriculum Vitae Summary

1986	MB BS University of Sydney
1986-88	Residency Prince of Wales Hospital, NSW
1987	Part 1 FACD (Australasian College of Dermatologists)
1988-91	Dermatology Research Registrar , Lidcombe Hospital, NSW
1991-2002	Clinical Associate Sydney Melanoma Unit , Royal Prince Alfred Hospital, NSW
2002 -2013	Director. Sydney Melanoma Diagnostic Centre , Royal Prince Alfred Hospital, NSW
2013-current	Deputy Director, Sydney Melanoma Diagnostic Centre , Royal Prince Alfred Hospital, NSW
1992	PhD University of Sydney
1994-1997	Lecturer, Dept. of Surgery , University of Sydney
1997- 2003	Senior Lecturer, Dept. of Surgery , University of Sydney
2004-2009	Associate Professor Medicine (Sydney Medical School), and Discipline of Dermatology (since 2008) University of Sydney
2009-current	Associate Member of the Australasian College of Dermatologists
2010-current	Professor (Sydney Medical School), and Discipline of Dermatology University of Sydney
2015-current	Inducted into the American Dermatological Association

3. Teaching portfolio

Teaching Experience

Undergraduate:

1. Clinical supervision.

Since 1994 the teaching of undergraduate medical students in an outpatient setting has been regularly performed (Med. VI students (6yr degree) and Med III (current degree) integrated clinical attachment in Oncology/Melanoma at Royal Prince Alfred Hospital.

2. Tutorials.

I taught gross anatomical pathology in a tutorial setting from 1995 until the 6yr medical degree (pathology) ceased after 1998.

I taught Problem Based Learning tutorials from 1998-2003 incl.

I have taught Communications Tutorials for Year 1 Medical Students (GMP) Introduction, Musculoskeletal, Respiratory, Cardiovascular Blocks from 2013-current.

3. Lectures.

Since 1994 I have designed and given 1 hour large group lectures on various aspects of diagnosis and management of skin cancer [Diagnosis of Skin Cancer, Pigmented Skin Tumours Yr4,6 (6yr degree), Yr3 (4yr degree)]. From 2003 to current time I have given a one hour lecture on dermoscopy for Yr 4 graduate medical program students in each Community Rotation.

4. Unit development.

In 2002 I commenced development of an 8hr web-based unit on "Skin Cancer". The web-based course commenced in October 2003 in the community rotation of year 4 medicine at the University of Sydney. It was also running at the University of Newcastle. The course was translated into Portuguese for use by the Brazilian Melanoma Consortium and is used in the curriculum for fellowship of the Skin Cancer Society of Australia.

5. Examination design.

In 1999, 2001 and 2002 I have written ICA summative assessment questions (single-best answer questions) for the Dept. of Surgery, year 3 Medical students, on melanoma and pigmented skin tumours. I have written the formative MCQ examination for the online skin cancer course (2004 – current; see above) and in 2009 I wrote summative MCQs for this course.

Postgraduate:

1. Clinical supervision.

The teaching of general practitioners and specialists in an outpatient setting has been regularly performed since 1991 at the Sydney Melanoma Unit and now at the Sydney Melanoma Diagnostic Unit. Formal teaching of dermatology registrars from Liverpool and Royal Prince Alfred Hospital commenced in 2009.

2. Tutorials/Lectures/Seminars.

In the last 5 years (2004-current) I have given 17 seminars (2hrs-2days) and a total of 51 invited lectures to specialists and general practitioners on the diagnosis and management of skin cancer. These have been, in the most part, solely designed by myself. (see section “Invitations to teach at other institutions”).

3. Unit Development.

I have written 5 books (3 as first author) on the dermoscopy diagnosis of pigmented skin lesions. All have been designed to be a complete textbook for this technique. One book (Menzies SW et al. An atlas of surface microscopy of pigmented skin lesions. McGraw-Hill, 1996) was formally tested as an education intervention in a randomised trial on dermoscopy in primary care physicians; results showing a 38% increase in sensitivity for melanoma diagnosis were published in the British Journal of Dermatology 143:1-6, 2000. A second edition of this book has been published in 2003, incorporating a self-test CD ROM quiz. It formed the basis of the education intervention in a large scale NCCI (National Cancer Control Initiative) NHMRC funded clinical trial assessing the effect of dermoscopy in general practice. This education intervention resulted in greater than 50% reduction of excisions by general practitioners (manuscript submitted). The third edition of this book has just been published (2009) which includes an online interactive assessment program.

In 2006 I was invited to be on the organising committee for the Victorian Cancer Council to produce a 2hr melanoma course to be rolled-out for general practitioners in Victoria. This program was designed to allow local physicians to perform the education intervention.

SELF-EVALUATION OF TEACHING AND STUDENT LEARNING

Lecturing and Large Group Teaching

I believe I have progressed in my lecture planning and delivery skills. All lectures are given in power-point format, usually with the addition of white-board instruction. In general, I supply printed lecture notes with major points detailed, or plan talks around published education texts (Menzies SW et al. 1996, 2003 [Books]). Adequate time is given for note taking, since this has been shown to facilitate learning. I now give a structured presentation, with an opening providing the framework of the talk, each sub-topic being clearly defined by signposts (both oral and visual) and a summary of the sub-topic at its conclusion. Each sub-topic is logically linked and each important point highlighted both orally and visually. Many of my lectures are on the diagnosis of skin tumours and I maintain interest by giving a clinical history with some of the lesions shown, and pose management questions around these specific clinical examples. In this way the immediate clinical relevance of the issues being taught are transmitted to the student. As my interest and experience in teaching has increased, I have found that I am more responsive to students' reactions during the presentation, enabling greater explanation of sub-topics not clearly understood. I increasingly structure my lecturing as being more interactive, with student probe questions posed throughout the lecture with answers allowing formative assessment.

The majority of my lectures are to post-graduates. Here, assessments of their learning are usually in the form of either a formal written quiz (at the beginning and conclusion of the presentation) or informal quizzes with "group" responses at the conclusion of the presentation. Feedback is given at the conclusion of the presentation. All lectures have a set time allocated for other

student questions. Formal student assessment of a variety of lectures has enabled regular changes in both content and presentation.

Tutorials

Following my increased teaching experience and application of tutorial education theory my tutorials have become less didactic and more interactive. In the past the majority of tutorials were highly structured (eg. pathology specimens for discussion) and, as now, aimed at addressing general principles taught in lectures. One major aim of those tutorials was to allow the students to repeatedly apply the same principle to a number of specimens. The relevance of these principles to the students' future clinical practice was constantly addressed, with specific clinico-pathological correlations being discussed.

Using a number of teaching models, I believe I gradually moved to a more facilitatory role as a tutor, the goal being active learning. I began dividing students into groups, which allowed direct participation of each of the students and is less stressful for "shy" students. I aim at building the tutorial around questions and answers which run in both directions between students and tutor, while at the same time remaining the controlling focus of the group. This enables dilution of the perceived control of myself as tutor while enabling immediate feedback to student questions.¹ Tutorials based on bi-directional questions and answers also have the advantage of allowing immediate assessment of student learning. The movement to Problem-based Learning tutorials has now allowed my development of the complete facilitatory role as a tutor. Student evaluation has shown a weakness in teaching less confident students, and I am now using "group-teaching" (as discussed above) to allow an increase in student confidence.

Recent Student evaluations

Undergraduate: My most recent undergraduate lecture evaluation (Yr 4 graduate medical program: Dermatology) was at the end of 2007. Here 75% gave my one hour lecture "excellent" and 25% "good". There were no "satisfactory" or "needs improvement" responses.

Postgraduate:

Seminar: The most recent seminar evaluated was in September 2008 for a 3.5 hr "Dermoscopy update" for the Hunter Postgraduate Medical Institute. Here 20

responses as a speaker were “excellent” and 2 were “good”. There were no “fair” responses.

Lectures:

I have 8 lecture evaluations from 2002-2008 at the annual meeting of the American Academy of Dermatology. Here scores are given from 1-7, with a score of 6-7 described as “outstanding.” My mean score for these lectures was 6.1 (with 7 of 8 lectures given a score of ≥ 6).

EVIDENCE OF RESEARCH AND SCHOLARSHIP IN TEACHING.

Invitations to teach at other institutions.

I have been invited to teach on 100 occasions at other institutions on various aspects of skin cancer (primarily to postgraduates) (see full list page 11). These presentations include 46 to various Divisions of General Practice/College of General Practitioners’ programs in NSW, Victoria, South Australia, Western Australia and Queensland. I have also given 55 invited teaching seminars to medical specialists (42 at International institutions). The later includes 26 invited presentations to teach dermatologists at the American Academy of Dermatology on surface microscopy/dermoscopy of pigmented skin lesions. Very few (if any) Australians have been invited to speak at this institution on so many occasions. This seminar-based teaching at the American Academy additionally includes providing content for the Academy’s web-based course and CDROM course on Dermoscopy (Rabinovitz H et al. Dermoscopy: A practical guide. MMA Worldwide Group Inc, 1999) and the recent more comprehensive CDROM in 2009 (see Books 5.).

Undergraduate course design.

A need for a universal undergraduate course for medical students on “Skin Cancer” was formally agreed at the COSA (Clinical Oncological Society of Australia) annual conference in 2001. I designed and wrote the majority of this 8 hr online course which commenced in the 2004 academic year of the community rotation of year 4 medicine at the University of Sydney and has continued since that time. The course was translated into Portuguese for use by the Brazilian Melanoma Consortium and has also been used by the University of Newcastle and the Skin Cancer Society of Australia. The oversight of this

¹ Lublin, J. (1987) Conducting Tutorials. HERDSA Green Guide No. 6. Cambelltown, Higher Education

curriculum initiative is a senior teaching responsibility. In 2009 I wrote a series of multiple choice questions from the course to be included in the summative Community rotation examination of year 4 graduate medical program. This is additional to the formative MCQ examination written by myself in 2004 and performed at the end of the rotation. The course is now being updated by me for commencement in the first term of the 2009/10 rotation.

Text book design.

In 1996 I published the third book (second in the English language) on the use of dermoscopy (surface microscopy) for the diagnosis of melanoma and other skin tumours (Menzies, S.W. et al. An atlas of Surface Microscopy of Pigmented Skin Lesions. McGraw-Hill, 1996. Reprinted 2000). In 2003 a fully revised second edition was written which included a semi-interactive CDROM quiz component. This book has been used nationally and internationally as an education tool for the diagnosis of melanoma and is included on the examined reading list for the Australasian College of Dermatologists. The book (1st and 2nd editions) has approximately 300 citations in the international literature. Both editions have also been formally tested in both randomised designs and clinical trials as education interventions for improvement in the diagnosis of melanoma (see below). In April 2009 the third edition of the book was published (the first 3rd edition of any book published on this subject) and constituted a 60% increase in content (Menzies SW et al. Dermoscopy: An Atlas. McGraw-Hill, 2009). This re-write was nearly completely performed by myself and constituted a major teaching objective for the 2007-2008 academic years.

Research in teaching.

The first edition of a book on the diagnosis of melanoma (Menzies, S.W. et al. An atlas of Surface Microscopy of Pigmented Skin Lesions. McGraw-Hill, 1996) was formally tested as an education intervention in a randomised trial for improving the diagnosis of melanoma by general practitioners. In this design, identical pre- and post-education intervention diagnostic tests were given to general practitioners randomised to either receiving the text or not. The results showed the education intervention group had an improvement of 38% in the sensitivity of diagnosis for melanoma (Menzies SW et al. Br J Dermatol. 2000;143:1016-20). Because of these results the 2nd Edition published in 2003 became the main education intervention of a large scale NCCI (National Cancer Control Initiative) and NHMRC funded randomised clinical trial on the effect of dermoscopy (surface microscopy) on melanoma and benign excision rates in general practice. In addition

a pre and interactive post test quiz developed by myself allowed assessment of the education intervention prior to the clinical trial proper. This showed a dramatic improvement in the sensitivity for the diagnosis of melanoma (percentage of correctly diagnosed melanoma: 58% pretest vs 83% post-test; $p < 0.0001$) which was later shown to translate with the same improvement in patient diagnosis in the clinical trial (details of clinical trial results found in the Research section).

POST-GRADUATE SUPERVISION

I have been the supervisor of two Masters of Public Health students and seven PhD students. As supervisor for post-graduate degrees my role is to supervise all stages of the degree, and be readily available for consultation at any time. However, it should be remembered that the PhD student undergoes a degree in research training. Because of this, consultation should not always be didactic in nature. The stages of the degrees supervised by myself include experimental design, literature review, experimental procedures, statistical evaluation and interpretation of data, and finally, presentation in an adequate thesis format. Moreover, it is my responsibility that the experimental work is original and thus will add to the scientific literature. Finally, it is my responsibility to design an appropriate time-table for the student to aim at completion within the desired time. The main outcome measurement of the degree is the thesis. However, publication in leading refereed journals is a better measure of the quality and significance to the scientific literature of the students work. In this regard, my students have consistently published in highly ranked research journals.

Table: Postgraduate degree supervised students.

Name of candidate	Degree	Year of enrolment	Year of completion
Pauline Hanrahan	Masters Public Health (UNSW)	1995	Deferred to continue as PhD
Pauline Hanrahan	PhD (UNSW)	1996	1998
Anna Doubrovsky	Masters Public Health	1996	1998
Farid Saleh	PhD	1997	2001
Shahnom Ajdori	PhD	1998	Deferred 1999 to commence clinical

Raj Ishri	PhD	1998	practice 2004
Xu Dong Zhang	PhD	1999	2002
Antanas Sharkis	PhD	2002	Ceased 2003
Pascale Guitera	PhD (Curie Institute)	2006	2009
Deanne Choi	M.Phil	2011	

Teaching workshops attended

1. “Effective Tutoring” - Centre for Teaching and Learning, University of Sydney (June 1996).
2. “Problem-based Learning” - Department of Educational Development & Evaluation, Faculty of Medicine, University of Sydney (August 1996).
3. “Lecturing and Large Group Teaching” - Professor George Brown, University of Sheffield at the Centre for Teaching and Learning, University of Sydney (August 1996).

TEACHING AWARDS

1. Dermoscopy: An Atlas 3rd Edition McGraw-Hill Book Co: *Highly Commended* Award Australian Publishing Association’s Education Awards 2010.
2. Dermoscopy: An Atlas 3rd Edition McGraw-Hill Book Co: *Highly Commended* Award (Internal Medicine) British Medical Association Book Competition 2010.

INVITATIONS TO TEACH AT OTHER INSTITUTIONS

1. 1988-89: “UV radiation and the immune system” at the FACD (Australasian College of Dermatologists) Lecture series for examination candidates.
2. 1993-94: “Diagnosis and management of pigmented skin lesions” at the NSW Cancer Council general practitioner seminars.
3. 1995: “Diagnosis of pigmented skin lesions by surface microscopy” at the Sutherland Division of General Practitioner’s seminar series.
4. 1995: “Diagnosis of melanoma and pigmented skin lesions” for the MBF training programme for community screening of melanoma.

5. 1996: “Epiluminescence Microscopy” at the Skin and Cancer Foundation’s seminar for dermatologists.
6. 1996: “Skin Cancer- diagnosis and management” for the RACGP (Royal Australian College of General Practitioner) training programme.
7. 1997: “Diagnosis of skin lesions with a dermatoscope” at the St George Division of General Practitioner seminar series.
8. 1997: “Skin Cancer- diagnosis and management” for the RACGP (Royal Australian College of General Practitioner) training programme.
9. 1998: “Dermatoscopy of skin lesions” at the South Island New Zealand Dermatology Conference, Akaroa.
10. 1998: “Skin Cancer- diagnosis and management” for the RACGP (Royal Australian College of General Practitioner) training programme.
11. 1998: “Diagnosis of skin lesions with a dermatoscope” at the Murray Plains Division of General Practitioner seminar series, Echuca, Victoria.
12. 1998: “Surface microscopy seminar” at the Illawarra Division of General Practice.
13. 1998: “Diagnosis of melanoma and pigmented skin tumours” at the Mid North Coast (NSW) Division of General Practice.
14. 1998: “Early detection of melanoma” at the First Sydney Melanoma Symposium.
15. 1999 (May): “Skin cancer diagnosis and management” for the RACGP (Royal Australian College of General Practitioner) training program.
16. 1999: “Can melanoma detection be automated”. Concord Hospital Physicians Workshop.
17. 1999 (Nov): “Skin cancer diagnosis and management” for the RACGP (Royal Australian College of General Practitioner) training program.
18. 2000 (Feb): “Update in dermatoscopy” Illawarra division of general practice.
19. 2000 (March) American Academy Dermatology, San Francisco “Surface microscopy” Half day symposia.
20. 2000 (July): “Dendritic cell vaccines”- Basic Sciences of Oncology Lecture Series, NSW Cancer Council
21. 2000 (Nov): “Skin cancer diagnosis and management” for the RACGP (Royal Australian College of General Practitioner) training program.
22. 2001 “Menzies’ scoring method”. 1st World Congress of Dermoscopy, Rome 2001.
23. 2001 (March) American Academy Dermatology, Washington DC “Surface microscopy” Half day symposia.

24. 2001 (March) American Academy Dermatology, Washington DC “Epiluminescence microscopy” Full day symposia.
25. 2001 (May) “Melanoma” for Grand Rounds, Prince of Wales Hospital.
26. 2001 (May) “Skin cancer diagnosis and management” for the RACGP (Royal Australian College of General Practitioner) training program.
27. 2001 (Sept) “Surface microscopy of pigmented lesions” –Capricornia Division of General Practice (Mackay, Queensland)
28. 2001 (Sept) “Surface microscopy of pigmented lesions” – Rockhampton Division of General Practice (Rockhampton, Queensland)
29. 2001 (Sept) “Practical procedures workshop- learning to use a dermatoscope” University of Sydney Postgraduate Committee in Medicine.
30. 2001 (Nov) “Dermatoscopy” – Victorian Melanoma Service, Monash Medical School, Melbourne. Two full day seminars were given (with Assoc. Prof. John Kelly).
31. 2002 (March) Dermoscopy Symposia – American Academy Dermatology, New Orleans. A full day symposia was given. I gave talks on the “Menzies Method”
32. 2002 (March) Surface microscopy symposia - American Academy Dermatology, New Orleans. A full day symposia was given. I gave talks on “Menzies Method” and “Unknown lesions for experts” .
33. 2002 (May) “Skin cancer diagnosis and management” for the RACGP (Royal Australian College of General Practitioner) training program (2hrs).
34. 2002 (June) “Skin cancer diagnosis” for the RACS (Royal Australasian College of Surgeons) training program.
35. 2002 (July) Diagnostic criteria in epiluminescence microscopy. 20th World Congress of Dermatology, Paris.
36. 2002 (July) Diagnosis of malignant melanoma. 20th World Congress of Dermatology, Paris.
37. 2002 (October) "Dermoscopy" (1 1/2 hrs) for the Annual Dermatology Society Meeting of New Zealand, Wellington.
38. 2002 (October) “Skin cancer diagnosis and management” for the RACGP (Royal Australian College of General Practitioner) training program (2hrs).
39. 2003 (March) Dermoscopy Symposia – American Academy Dermatology, New Orleans. A full day symposia was given. I gave talks on the “Menzies Method” and “Unknown lesions”.

40. 2003 (March) Surface microscopy symposia - American Academy Dermatology, New Orleans. A full day symposia was given. I gave talks on "Menzies Method" and "Unknown lesions" .
41. 2003 (Feb) American Academy of Dermatology Web-based Education (CME) System – content and MCQs given.
42. 2003 (March) "Skin cancer diagnosis and management" for the RACGP (Royal Australian College of General Practitioner) training program (2hrs).
43. 2003 (May) "Dermoscopy workshop" for the RACS (Royal Australian College of Surgeons) (3.5 hrs)
44. 2003 (May) "Dermoscopy of tumours" for the Barwon Division of General Practice (1.5hrs)
45. 2003. Honorary appointment to the University of Tasmania, School of Medicine. Option term supervision.
46. 2003 (August) "Dermoscopy and Computer Diagnosis of Melanoma" at the International Confederation for Plastic, Reconstructive and Aesthetic Surgery World Congress, Sydney (2hrs)
47. 2003 (November) Dermoscopy and Digital Monitoring. To general practitioners attending the University of Sydney Postgraduate Medical Education workshops (2x 1.5 hr)
48. 2003 (November) Dermoscopy. To general practitioners attending the University of Sydney Postgraduate Medical Education Dermatology Symposia (45 mins)
49. 2004 (Feb) Dermoscopy quiz. American Academy of Dermatology 62nd Annual meeting, Washington, Feb 2004.
50. 2004 (Feb) Benefits and caveats of digital monitoring. American Academy of Dermatology 62nd Annual meeting, Washington, Feb 2004.
51. 2004 (May) Essentials of Skin Cancer Conference, Gold Coast. 3.5 hr workshop on Dermoscopy and Digital Monitoring
52. 2004 (October): 3rd International Symposia on Dermoscopy, Mexico City; 4 day meeting: 4 hr workshop given on dermoscopy and digital monitoring
53. 2004 (November): Rural Health Satellite Broadcast: Skin Cancer: "Spot" Decisions, chaired by Norman Swan
54. 2004 (November) Dermoscopy. To general practitioners attending the University of Sydney Postgraduate Medical Education Dermatology Symposia (45 mins)
55. 2005 (Feb) The Australian Experience. American Academy of Dermatology 63rd Annual meeting, New Orleans 30mins

56. 2005 (Feb) The benefits and caveats of digital monitoring. American Academy of Dermatology 63rd Annual meeting, New Orleans 25 mins.
57. 2005 (Feb) Dermoscopy and Digital Devices for diagnosis of pigmented skin lesions. At: The Essentials of Skin Cancer Conference, Sydney. 4hrs
58. 2005 (March) Dermoscopy and Digital Devices for diagnosis of pigmented skin lesions. At: The Essentials of Skin Cancer Conference, Brisbane. 4hrs
59. 2005 (August) Advanced Dermoscopy. 6th Brazilian Conference of Melanoma, Bahia, Brazil. 4hrs
60. 2005 (Nov) Diagnosis of Melanoma. 45mins. Coppleson Committee for Continuing Education General Practitioner Dermatology Seminar, Sydney.
61. 2005 (Nov) Diagnosis of Melanoma. 2 hrs. Peter MacCallum Cancer Institute, Melbourne.
62. 2006 (Mar) Benefits and Caveats of sequential imaging. 15mins American Academy of Dermatology 64th Annual Meeting. San Francisco
63. 2006 (Mar) Amelanotic Melanoma. 15mins American Academy of Dermatology 64th Annual Meeting. San Francisco
64. 2006 (Mar) Dermoscopy Case Scenarios. American Academy of Dermatology 64th Annual Meeting. San Francisco
65. 2006 (Mar) Dermoscopy & digital monitoring for malignant melanoma. 18 mins American Academy of Dermatology 64th Annual Meeting. San Francisco
66. 2006 (April) Dermoscopy: The Australian Experience. First Congress of the International Dermoscopy Society. Naples, Italy
67. 2006 (April) Dermoscopy: Amelanotic and nodular melanoma. First Congress of the International Dermoscopy Society. Naples, Italy
68. 2006 (May) Dermoscopy of pigmented skin lesions. 1 hr seminar. The General Practitioner Conference & Exhibition, Sydney.
69. 2006 (August). Dermoscopy of pigmented skin lesions. 2 hr seminar. Cancer Council of Western Australia, Perth.
70. 2006 (August). Update of diagnostic methods for melanoma. Grand Rounds. Charles Gardiner Hospital, Perth.
71. 2006 (August). Master Class in Dermoscopy. 1.5 hr seminar. St John of God Hospital, Perth.
72. 2006 (August). Update of diagnostic methods for melanoma. RACS Annual Conference, Bunker Bay, WA.

73. 2006 (August) Dermoscopy. To general practitioners attending the University of Sydney Postgraduate Medical Education Dermatology Symposia (45 mins).
74. 2006 (Nov) Dermoscopy and digital monitoring. 2hr seminar to general practitioners at Peter MacCallum Cancer Institute, Melbourne.
75. 2007 (Feb) Dermoscopy and digital monitoring of melanoma. 65th Annual meeting of the American Academy of Dermatology, Washington DC.
76. 2007 (Feb) Vascular structures and Unknowns for the experts. 65th Annual meeting of the American Academy of Dermatology, Washington DC.
77. 2007 (Feb) Melanoma & Pigmented Lesions Forum. 65th Annual meeting of the American Academy of Dermatology, Washington DC.
78. 2007 (Feb) Amelanotic and Nodular Melanoma. 65th Annual meeting of the American Academy of Dermatology, Washington DC.
79. 2007 (Feb) Dermoscopy and digital monitoring of melanoma. Laser & Cosmetic Medicine Conference, Sydney
80. 2007 (Apr) Dermoscopy workshop: 2 days. 2nd Israel Dermoscopy Course, Tel Aviv.
81. 2007 (Aug) Whats new in dermoscopy and digital monitoring (45 mins). Australasian College of Skin Cancer Medicine, Sydney.
82. 2007 (Nov) Diagnosis and follow up of melanoma. (1.25hrs). Workshop. Clinical Oncological Society of Australia, Adelaide.
83. 2008 (Feb) The many faces of melanoma. 66th Annual meeting of the American Academy of Dermatology, San Antonio, Texas. (45 mins)
84. 2008 (Feb) Mole mapping. 66th Annual meeting of the American Academy of Dermatology, San Antonio, Texas. (15 mins)
85. 2008 (Feb) Dermoscopy unknowns for the experts. 66th Annual meeting of the American Academy of Dermatology, San Antonio, Texas. (15 mins).
86. 2008 (March) Dermoscopy of amelanotic melanoma and digital monitoring for surveillance of pigmented lesions. Master in Demoscopia ed Imaging Cutaneo Gubbio, Italy (30 mins).
87. 2008 (May) Digital monitoring and the dermoscopy features of amelanotic melanoma. University hospital of Matsumoto, Japan (45 mins)
88. 2008 (August) Dermoscopy Masterclass (2 days) for the Skin Cancer Society of Australia. Gold Coast.
89. 2008 (August) Dermoscopy update (2.5 hrs) for Skin Cancer Society of Australia. Sydney

90. 2008 (September) Dermoscopy symposia (3.5 hrs) for the Newcastle Melanoma Foundation, Newcastle.
91. 2008 (September) Dermoscopy update (2.5 hrs) for Skin Cancer Society of Australia. Melbourne
92. 2008 (October) Congenital nevi (1 hr) for the Australian nevus support group, Westmead Hospital for children, Sydney.
93. 2008 (November) Dermoscopy update (2.5 hrs) for Skin Cancer Society of Australia. Brisbane
94. 2008 (December) Whats new in melanoma management and Revisiting melanoma diagnosis (1.5 hrs) at the annual meeting of the Dermatology Continuing Professional Development Society, Cardiff University, Wales. Due to aircraft delay these lectures were given online to the same society in March 2009.
95. 2009 (March) The many faces of melanoma. 67th Annual meeting of the American Academy of Dermatology, San Francisco, USA. (45 mins)
96. 2009 (March) Amelanotic and hypomelanotic melanoma. 67th Annual meeting of the American Academy of Dermatology, San Francisco, USA. (15 mins)
97. 2009 (March) Dermoscopy unknowns for the experts. 67th Annual meeting of the American Academy of Dermatology, San Francisco, USA. (15 mins)
98. 2009 (April) Dermoscopy workshop (4hrs). Australasian College of Skin Cancer Medicine, Brisbane.
99. 2009 (May) Dermoscopy Basic Course. (3hrs) Co-chair and speaker. 10th International congress of Dermatology, Prague, Czech Republic.
100. 2009 (May) Dermoscopy Advanced Course. Co-chair and speaker (2.5 hrs) 10th International congress of Dermatology, Prague, Czech Republic.
101. 2009 (Aug) "Diagnosis of Melanoma" Advances in Melanoma Care Symposium. NSW Melanoma Network., Coogee NSW.
102. 2009 (Aug) New Research in Dermoscopy (30mins) Australasian College of Skin Cancer Medicine Conference, Gold Coast QLD.
103. 2009 (Aug) Vascular features on dermoscopy (30mins) Australasian College of Skin Cancer Medicine Conference, Gold Coast QLD.
104. 2009 (Sep) Approaches to the Diagnosis of Melanoma (30 mins). International Surgical Society Week, Adelaide.
105. 2009 (Sep) Management of Lentigo Maligna (30 mins). International Surgical Society Week, Adelaide.

106. 2010 (March) The use of the confocal microscope in a private clinical practice. 68th Annual Meeting of the American Academy of Dermatology. Miami, USA.
107. 2010 (March) The many faces of melanoma. 68th Annual Meeting of the American Academy of Dermatology. Miami, USA.
108. 2010 (March) Digital monitoring of pigmented lesions. 68th Annual Meeting of the American Academy of Dermatology. Miami, USA.
109. 2010 (April) Dermoscopy (4.5 hrs) Australasian College of Skin Cancer Medicine, Brisbane QLD.
110. 2010 (April) Digital monitoring and unknown dermoscopy quiz (90mins). Skin Cancer College of Australia and New Zealand Annual Meeting. Gold Coast, QLD.
111. 2010 (April) Dermoscopy Masterclass (4 days). Skin Cancer College of Australia and New Zealand.
112. 2010 (August) Dermoscopy of Special Sites (1hr) Australasian College of Skin Cancer Medicine Conference, Gold Coast QLD.
113. 2011 (Feb) Digital monitoring of pigmented lesions. 69th Annual Meeting of the American Academy of Dermatology, New Orleans, USA
114. 2011 (Feb) The many faces of melanoma. 69th Annual Meeting of the American Academy of Dermatology, New Orleans, USA
115. 2011 (Feb) Does dermoscopy and confocal microscopy add utility in clinical diagnosis. 69th Annual Meeting of the American Academy of Dermatology, New Orleans, USA
116. 2011 (May) Advances in Dermoscopy. 22nd World Congress of Dermatology, Seoul, South Korea
117. 2011 (May) Dermoscopy of Special Nevi. 22nd World Congress of Dermatology, Seoul, South Korea
118. 2011 (May) Advances in dermoscopy of melanoma. 22nd World Congress of Dermatology, Seoul, South Korea
119. 2011 (May) Guidelines for the management of melanoma. 22nd World Congress of Dermatology, Seoul, South Korea
120. 2011 (May) Dermoscopy of nodular melanoma. 22nd World Congress of Dermatology, Seoul, South Korea
121. 2011 (May) Monitoring pigmented lesion change. 22nd World Congress of Dermatology, Seoul, South Korea
122. 2011 (June) Dermoscopy Masterclass (4 days). Skin Cancer College of Australia and New Zealand.

123. 2011 (June) Management of Lentigo Maligna (20 mins) Australasian College of Skin Cancer Medicine Conference, Gold Coast QLD.
124. 2011 (June) Dermoscopy of Light Coloured lesions (40 mins) Australasian College of Skin Cancer Medicine Conference, Gold Coast QLD.
125. 2011 (July) Dermoscopy Workshop (1 ½ hours). Plastic Surgery Congress, Gold Coast.
126. 2011 (July) Pigmented basal cell carcinoma and digital monitoring of pigmented lesions (40 mins) Tokyo Dermatologists, Japan.
127. 2011 (Aug) Digital monitoring of nevi (30 mins). University of Queensland Skin Cancer Conference 2011, Hamilton Island.
128. 2011 (Sep) Dermoscopy (50 mins). 7th Laser and Cosmetic Conference, Sydney.
129. 2013 (March) Dermoscopy of rapidly growing melanoma. 71st Annual Meeting of the American Academy of Dermatology, Miami, USA.
130. 2013 (March) Interesting dermoscopy cases from Australia. 71st Annual Meeting of the American Academy of Dermatology, Miami, USA.
131. 2013 (October) Dermoscopy cases. 1st Latin American Congress of Dermoscopy, Sao Paulo, Brazil, Oct 2013.
132. 2013 (October) Dermoscopy of BCC. 1st Latin American Congress of Dermoscopy, Sao Paulo, Brazil, Oct 2013.
133. 2013 (October) Menzies Method. 1st Latin American Congress of Dermoscopy, Sao Paulo, Brazil, Oct 2013.
134. 2014 (March) Dermoscopy of nodular melanoma. 72nd Annual Meeting of the American Academy of Dermatology, Denver, USA.
135. 2014 (March) Dermoscopy cases from Australia. 72nd Annual Meeting of the American Academy of Dermatology, Denver, USA.
136. 2015 (March) Dermoscopy. Shoalhaven Annual General Practitioner Meeting. (1.5hrs)
137. 2015 (August) Dermoscopy Symposia (2.25hr lecture) American Academy of Dermatology Summer Meeting, New York, USA.
138. 2016 (August) Dermoscopy Symposia (1hr lecture) American Academy of Dermatology Summer Meeting, Boston, USA.

4. RESEARCH & SCHOLARSHIP

SUMMARY & IMPACT

Major Contributions

1. Dermoscopy (surface microscopy) for the diagnosis of pigmented skin lesions.

Dermoscopy (surface microscopy) is a simple inexpensive technique using a hand-held device, which is now the standard clinical method for diagnosing melanoma and other skin tumours. In 2008 we published the meta-analysis establishing NH&MRC (Australian National Health and Medical Research Council) Level I evidence that dermoscopy improves the diagnostic accuracy of melanoma compared with standard clinical examination (Journal 53; Menzies senior author). This led to the category A recommendation² in the NH&MRC Guidelines for the Management of Melanoma (2008) that “Training and utilisation of dermoscopy is recommended for clinicians routinely examining pigmented skin lesions.” I have written a significant portion of the international literature (published in English, Spanish, Portuguese and German) on dermoscopy (Books 1-5, Book Chapters 2-15,17-23; Journal articles 3-5,8,11,12,16,19,21,22,25,29,30,35,36,38-41,45-47,52,53). I am *first or senior author in 44 of 50* of these publications. This includes the third book on the subject (Books 1,3,4: now in its 3rd edition with 299 citations: see cross reference Teaching) and development of a method for diagnosis of melanoma (journal 4, 1st author 135 citations; journal 5, 1st author 137 citations) that was subsequently titled by the American Academy of Dermatology (and later by the International Dermoscopy Consensus Group) in my name – the “Menzies’ Method” (Rabinovitz H et al. *Dermoscopy: A practical guide*. American Academy of Dermatology CDROM version, 1999, Books 2,4 Book Chapters 2,4,7,9,13,18 Journals 5,16,21,29,45,46). Significantly, following a large blinded study utilising 40 experts in the field from Europe, Asia, USA, Australia and South America, the “Menzies’ Method”, when compared with 3 other internationally recognised dermoscopy methods, was found to be the most sensitive for the diagnosis of melanoma (Journal article 21; 271 citations). This was confirmed by others in all four subsequent studies including Australian general practitioners.³ This, and following our publication of the first report of significant improvement for the diagnosis of melanoma using dermoscopy by general practitioners (journal 12; senior author 70 citations), culminated in the planning of a large scale NCCI

² Category A: Body of evidence can be trusted to guide practice.

³ Blum A et al. *J Am Acad Dermatol*. 2003;48:672-8; Dolianitis C et al. *Arch Dermatol*. 2005;141:1008-1014; Blum A et al. *Br J Dermatol*. 2004;151:1029-38; Henning JS et al. *Arch Dermatol*. 2008;144:554-5.

(National Cancer Control Initiative) NH&MRC funded randomised clinical trial of dermoscopy in general practice (Menzies CIA Research funded 16; see further details below). My published method for the diagnosis of pigmented basal cell carcinoma (Journal article 11; 1st author 76 citations) was adopted as the international standard by the International Dermoscopy Consensus Group (journal article 21; 271 citations) and subsequently shown to be highly diagnostic by others.⁴ Most recently I published as co-ordinator of a large international multicentre study using the worlds largest published series a dermoscopy diagnostic method for light coloured melanoma (under the auspices of the International Society for Dermoscopy (IDS); 1st author Journal 47, 2008). I am currently the co-ordinator for the international IDS multicentre study for the diagnosis of nodular melanoma.

2. Sequential digital dermoscopy imaging

In 2001 I published the first paper describing a method for detecting melanoma that lacked clinical features of this disease (short-term digital monitoring). This utilises sequential digital imaging over time of suspicious pigmented lesions which now has widespread international use (Journal 15; 1st author 101 citations). Later in an international collaborative study (2006) we established the role of this technique in detecting “featureless” melanoma (Journal 39; 20 citations). In 2008 we published the largest series in the world on this technique, validating the diagnostic accuracy (Journal 46, Senior author, 2008). Our work has led to the NH&MRC Level II evidence and Category B recommendation⁵ in the recent NH&MRC Guidelines for the Management of Melanoma (2008) to “Consider the use of sequential digital dermoscopy imaging to detect melanomas that lack dermoscopic features of melanoma.”

In 2003 a national meeting organised by the NCCI and the Sydney Melanoma Diagnostic Centre aimed at developing a strategy to improve the detection of melanoma in general practitioners. This resulted in developing a protocol using the combination of dermoscopy and sequential digital dermoscopy monitoring in a clinical trial in primary care (Menzies CIA; NH&MRC Research funded 16; 2005). Following the use of these techniques a gross reduction of 63.5% (95% CI 58.0% to 68.7%; $p < 0.0005$) of benign lesions requiring excision or referral occurred. The benign to melanoma ratio of excised/referred lesions reduced from 9.5:1 to 3.5:1 after the diagnostic interventions ($p < 0.0005$). The improved management of benign lesions occurred with no significant reduction in the correct management of melanoma ($p = 0.32$) or all malignant lesions ($p = 0.15$) (Menzies et al. Br J

⁴ Peris K et al. *Dermatol. Surg* 2002;28:643-5; Demirtasoglu M et al. *J Eur Acad Dermatol Venereol* 2006;20:916-20

Dermatol. In press). We anticipate this study will change the way skin tumours are diagnosed by general practitioners in Australia.

Finally, following the successful application for funding in 2005 of a 5 year program grant (M\$3.75; Research grant 19) I am the co-ordinator of a clinical trial which aims at determining which diagnostic techniques are most efficacious for screening patients at extreme high risk of developing primary melanoma of the skin. This trial will be completed at the end of 2010 and is probably the most detailed prospective study of any such cohort described. Interim analyses have shown successful early detection of melanoma, which required some form of diagnostic aid in 2/3rd of patients.

3. Automated instrumentation for the diagnosis of melanoma.

A variety of approaches to diagnose melanoma using automated instrumentation has been described (Journal 22; 46 citations). In 1994 a large scale project began (Federal Govt. R&D Syndication Grant 1994 \$ 3 Million, R&D Start Grant 1997 \$1.8Million) with myself, CSIRO and Polartechnics Ltd aimed at the development and commercialisation of an automated instrument to diagnose primary melanoma on the skin. I was the chief investigator of this project since its inception. The basis of the technology is pattern image analysis (Patents 1-3, Book Chapters 1,3,6; Journal 10,34). The first commercial release (SolarScan™) occurred in March 2002 and was released in the USA in July 2003. In 2005 the diagnostic accuracy of SolarScan was shown to be equivalent to experts or dermatologists (Journal 34, 1st author 20 citations). In addition to its automated capacity, this instrument enables sequential digital monitoring of lesions and was used in both clinical trials described above. I, with the research team, have won 3 research awards for the development of SolarScan, including the 2005 Australian Engineering Excellence Awards (see Research awards).

4. In vivo confocal microscopy for the diagnosis of melanoma.

In vivo confocal microscopy is an expensive technique (\$100K instrument) that allows imaging of near histological definition of skin tumours while on the patient's skin. In 2005 we received a grant to purchase the first such instrument in Australia (Research funding 18). Since 2007 and in collaboration with the University of Modena, Italy, we have published (Journals 43,48,54,55,56) validation studies of this technique in the worlds largest series of melanomas (Journal 43; senior author 17 citations 2007; Journal 54, senior author 2009). In the later study published in 2009 we have shown this technique doubles the specificity for the diagnosis of melanoma compared with the standard clinical technique of dermoscopy.

⁵ Body of evidence can be trusted to guide practice in most situations.

Importantly, it is highly diagnostic with the more difficult to diagnose light coloured skin tumours. Such a dramatic improvement in diagnostic accuracy, rarely found with any diagnostic intervention, highlights the potential future importance of this novel technique for melanoma diagnosis. Finally, we have recently completed a large study using the technique for the diagnosis of lentigo maligna (manuscript in preparation; senior author).

Other significant contributions

In 1991 I published evidence disproving the accepted theory that ultraviolet irradiation-induced immunosuppression is required for skin cancer formation (Journal 1; 1st author). Later we have shown the first direct evidence of immunological surveillance to a non-viral tumour antigen in primary cancer (Journal 17; senior author; 25 citations). Consistent with this area of research I have been a chief investigator in the development of a series of novel clinical immunotherapy trials on patients with metastatic melanoma (Research Grants 6,15; Journal 26 with 59 citations,27,31 with 26 citations, 51 senior author). Unfortunately, consistent with the literature on virtually all melanoma vaccines, no overt therapeutic efficacy was achieved.

Skin naevi (moles) are a precursor of melanoma. The first animal (guinea pig) model producing naevi with an identical morphology to human naevi was previously reported by myself (Journal 9, 1st author). This has enabled a protocol to answer the fundamental question of what component of sunlight leads to naevus production (Research Grants 10, 13 &14 all CIA, journal 28 1st author 13 citations).

In 1991 I developed a method to assess the protectiveness of fabrics against sun exposure on human skin (Journal 2, 1st author, 31 citations). This became the basis of the Australian Standard (AS-NZS-4399:1996) for production of a Fabric Protection Factor (UPF) against sunlight. This was the first fabric protection standard published in the world and remains the basis for the assessment of a textile protection against sun exposure. I have also been a chief investigator in a randomised population based study to assess photography in screening for melanoma (Research Grants 5,11, Journal 13,20). We have shown this strategy to be cost-effective.

Finally, since 2008 I have been on the melanoma advisory board of DermTech International, a US-based company. The aim of the product development is micro-array diagnosis of non-invasive surface sampling of skin

tumours. Initial results have shown the technology allows high diagnostic sensitivity and specificity for melanoma. Using this technology I am designing studies which aim at redefining the histological diagnosis of the poorly understood melanoma subtype lentigo maligna as well as testing the diagnostic accuracy of the system in the wider clinical arena.

Summary of Publications Form

Books	<ol style="list-style-type: none"> 1. Menzies, S.W., Crotty, K., Ingvar, C., McCarthy, W. An atlas of Surface Microscopy of Pigmented Skin Lesions. McGraw-Hill Book Co., Sydney, 1996. Reprinted 2000. <i>No. of citations: 166</i> 2. Soyer H, Argenziano G, Chimenti S, Menzies SW, Pehamberger H, Rabinovitz H, Stolz W, Kopf A. <i>Dermoscopy of Pigmented Skin Lesions</i>. Milan, Italy: Edra: 2001. <i>No. of citations: 59</i> 3. Menzies, S.W., Crotty, K., Ingvar, C., McCarthy, W. An atlas of Surface Microscopy of Pigmented Skin Lesions - Dermoscopy. 2nd Edition & CDROM quiz. McGraw-Hill Book Co., Sydney, 2003. <i>No. of citations: 130</i> Menzies, S.W., Crotty, K., Ingvar, C., McCarthy, W. Atlas de Microscopia de Superficie de Lesoes Pigmentadas da Pele: Dermoscopia. 2nd Edicao. Dilivros., Rio de Janeiro, Brasil, 2004. 4. Menzies SW, Crotty KA, Ingvar C, McCarthy WH. Dermoscopy: An Atlas. 3rd Edition, McGraw-Hill Book Co., Sydney, 2009. Ibid. Menzies SW, Crotty KA, Ingvar C, McCarthy WH. Atlas de Dermatoscopia, 3 edicion (Espanol) aulamedica Madrid 2010. 5. Dermoscopy. A guide for the physician. American Academy of Dermatology, 2009. (multiple authors including myself).
Edited Booked	<hr/> <hr/>
Chapters in Books	<hr/> <ol style="list-style-type: none"> 1. Menzies, S.W., Bischof, L., Peden, G., Talbot, H., Gutenev, A., Thompson, R., McNamara, K., Burlutski, G., McCarthy, W., Skladnev, V. Automated instrumentation for the diagnosis of invasive melanoma - Image analysis of oil epiluminescence microscopy. In: Altmeyer P, Hoffmann K, Stucker M (Eds) <i>Skin cancer and UV radiation</i>. Springer-Verlag, Berlin, 1997 2. Menzies, S.W. Menzies' Method. In: <i>Principles of Dermoscopy</i>. Malvey J., Puig S. (Eds) www.dermoscop.com 2002 Metado de Menzies. In: <i>Principios de Dermatoscopia</i> (Spanish Edition) 3. Menzies, S.W. Pigmented basal cell carcinoma. In: <i>Principles of Dermoscopy</i>.

Malvey J., Puig S. (Eds) www.dermoscop.com 2002
 Carcinoma basocelular In: *Principios de Dermatoscopia* (Spanish Edition)

4. **Menzies, S.W.** Menzies Score für pigmentierte Hauttumoren In: *Dermatoskopie und digitale Bildanalyse pigmentierter und nicht-pigmentierter Hauttumoren* Andreas Blum, Jürgen F. Kreusch, Jürgen Bauer, Claus Garbe (Eds) Steinkopff Verlag, Darmstadt, 2003.
5. **Menzies, S.W.** Automatische Bildanalyse dermatoskopischer Bilder zur Melanomdiagnose In: *Dermatoskopie und digitale Bildanalyse pigmentierter und nicht-pigmentierter Hauttumoren* Andreas Blum, Jürgen F. Kreusch, Jürgen Bauer, Claus Garbe (Eds) Steinkopff Verlag, Darmstadt, 2003.
6. Westerhof, K., **Menzies, S.W.** Pigmentierte Basalzellkarzinome In: *Dermatoskopie und digitale Bildanalyse pigmentierter und nicht-pigmentierter Hauttumoren* Andreas Blum, Jürgen F. Kreusch, Jürgen Bauer, Claus Garbe (Eds) Steinkopff Verlag, Darmstadt, 2003.
7. **Menzies, S.W.**, Stolz W. Surface microscopy features of melanoma. In: *Textbook of melanoma*. Thompson J.F., Morton D., Kroon B (Eds). Martin Dunitz Publ., London, 2004.
8. Binder, M., **Menzies, S.W.** Computer aided instrumentation for the diagnosis of primary melanoma. In: *Textbook of melanoma*. Thompson J.F., Morton D., Kroon B (Eds). Martin Dunitz Publ., London, 2004.
9. **Menzies, SW.** Menzies' Method. In: *Atlas of Dermoscopy*. Marghoob A., Kopf A., Braun R (Eds). Taylor & Francis, Oxon, UK 2005.
10. **Menzies, SW.** Nodular Melanoma. In: *Atlas of Dermoscopy*. Marghoob A., Kopf A., Braun R (Eds). Taylor & Francis, Oxon, UK 2005.
11. **Menzies, SW.** Superficial Spreading Melanoma. In: *Atlas of Dermoscopy*. Marghoob A., Kopf A., Braun R (Eds). Taylor & Francis, Oxon, UK 2005.
12. **Menzies, SW.** Pigmented basal cell carcinoma. In: *Color atlas of melanocytic lesions of the skin*. Soyer HP, Argenziano G, Hofmann-Wellenhof R, Jorh R. (Eds). Springer Berlin 2007

13. **Menzies SW.** Regla de los once puntos (Metado de Menzies). In: *Dermatoscopia*. Horacio C (Ed). Ediciones Journal, 2008. Junin, Argentina.
14. **Menzies SW.** Melanoma amelanotico. In: *Dermatoscopia*. Horacio C (Ed). Ediciones Journal, 2008. Junin, Argentina.
15. Jocelyn Lieb, Alon Scope, Ralph Braun, **Scott Menzies**, Ashfaq Marghoob. Patrones vasculares. In: *Dermatoscopia*. Horacio C (Ed). Ediciones Journal, 2008. Junin, Argentina.
16. **Menzies SW**, Tsao H, Sober A.J. Acquired precursor lesions and markers of increased risk for cutaneous melanoma. In: *Cutaneous Melanoma*. Balch, Houghton, Sober, Soong, Atkins, and Thompson (Eds) 5th Edn. Quality Medical Publishing, Inc (QMP), St. Louis, USA 2009.
17. Wang S, **Menzies SW**. BCC. In: *Atlas of Dermoscopy- 2nd Edition*. Marghoob A, Braun R, Malvey J (Eds). Informa Healthcare, London, 2012.
18. **Menzies SW**. Menzies method. In: *Atlas of Dermoscopy- 2nd Edition*. Marghoob A, Braun R, Malvey J (Eds). Informa Healthcare, London, 2012
19. **Menzies SW**. Superficial spreading melanoma. In: *Atlas of Dermoscopy- 2nd Edition*. Marghoob A, Braun R, Malvey J. Informa Healthcare, London, 2012
20. **Menzies SW**. Nodular melanoma. In: *Atlas of Dermoscopy- 2nd Edition*. Marghoob A, Braun R, Malvey J. Informa Healthcare, London, 2012
21. Kreuzsch J, **Menzies SW**, Argenziano G. Amelanotic and hypomelanotic melanoma. In: *Atlas of Dermoscopy- 2nd Edition*. Marghoob A, Braun R, Malvey J. Informa Healthcare, London, 2012
22. Kittler H, **Menzies SW**. Diagnostic accuracy of dermoscopy. In: *Atlas of Dermoscopy- 2nd Edition*. Marghoob A, Braun R, Malvey J. Informa Healthcare, London, 2012
23. Kittler H, **Menzies SW**. Follow-up of melanocytic skin lesions with digital dermoscopy In: *Atlas of Dermoscopy- 2nd Edition*. Marghoob A, Braun R, Malvey J. Informa Healthcare, London, 2012
24. **Menzies SW**, Cabo H. Melanoma amelanotico. In: *Dermatoscopia*. Horacio C (Ed). Ediciones Journal, 2nd Edn. 2012. Junin, Argentina.
25. **Menzies SW**. Regla de los once puntos (Metado de Menzies). In: *Dermatoscopia*. Horacio C (Ed). Ediciones Journal, 2nd Edn. 2012. Junin, Argentina.
26. Lieb J, Scope A, Braun R, **Menzies S**, Marghoob A. Patrones vasculares. In: *Dermatoscopia*. Horacio C (Ed). Ediciones Journal, 2nd Edn. 2012. Junin, Argentina.

refereed journals,
indicating length

*Including journal impact factor ranking⁶, citation index⁷ and invited reviews denoted by **

1. **Menzies, S.W.**, Greenoak, G.E., Reeve, V.E., Gallagher, C.H. UV radiation-induced murine tumors produced in the absence of UV radiation-induced systemic tumor immunosuppression. *Cancer Res.*, 51: 2773-2779, 1991. [Journal Ranking 4/104] **No. of citations: 11**
2. **Menzies, S.W.**, Lukins, P., Greenoak, G., Walker, P., Pailthorpe, M., Martin, J., Georgouras, K. A comparative study of fabric protection against ultraviolet radiation-induced erythema determined by spectrophotometric and human skin measurements. *Photoderm. Photoimmunol. Photomed.*, 8: 157-168, 1991. [Journal Ranking 13/34] **No. of citations: 31**
3. **Menzies, S.W.**, Crotty, K., McCarthy, W. The morphologic criteria of the pseudopod in surface microscopy. *Arch. Dermatol.* 131: 436-440, 1995. [Journal Ranking 2/34] **No. of citations: 44**
 ibid. **Menzies, S.W.**, Crotty, K., McCarthy, W. Criterio morfologico del pseudopodo en la microscopia de superficie. *Arch. Dermatol. (Edicion Espanola)* 6: 181-86, 1995.
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5. **Menzies, S. W.**, Ingvar, C., Crotty, K., McCarthy, W. Frequency and morphologic characteristics of invasive melanomas lacking specific surface microscopic features. *Arch Dermatol.* 132:1178-82, 1996. [Journal Ranking 2/34] **No. of citations: 137**
 ibid. **Menzies, S. W.**, Ingvar, C., Crotty, K., McCarthy, W. Frecuencia y características morfológicas de los melanomas invasivos sin hallazgos específicos en la microscopia de superficie. *Arch Dermatol. (Edicion Espanola)* 8: 6-11, 1997. [Journal Ranking 2/34]
 ibid. **Menzies, S. W.**, Ingvar, C., Crotty, K., McCarthy, W. Frecuencia e características morfológicas de melanomas invasivos sem aspectos específicos a microscopia de superficie. *Arch Dermatol. (Portugues Edition)* 4: 1572-1579, 1997. [Journal Ranking 2/34]
6. **Menzies, S.W.**, McCarthy, W.H. Complete regression of primary cutaneous malignant melanoma. *Arch Surgery.* 132: 553-56, 1997 [Journal Ranking 10/128] **No. of citations: 32**
7. Hanrahan, P., Hersey P, **Menzies, S.W.**, Watson, C.A. D'Est, K. Examination of the ability of people to identify early changes of melanoma in computer altered pigmented skin lesions. *Arch Dermatol.* 133: 301-311, 1997. [Journal Ranking 2/34] **No. of citations: 31**
- *8. **Menzies, S.W.** Surface microscopy of pigmented skin tumours. *Austral J Dermatol.* 38

⁶ Highly ranked journals (ranked in the subject categories of oncology, dermatology, surgery, and internal medicine) are shown, based upon impact factors in SCI journal citation reports IV. Subject category listing 1998. for all publications dated 2003 and prior, and ICI Web of knowledge JCR 2007 edn. 5yr impact factors for publications 2004 to current.. For example- Arch Dermatol Rank 2/34 indicates second highest ranked dermatological journal (out of a total of 34 journals).

⁷ Times cited as of March 2009 using Google scholar, or Scopus or Web of Science

(Suppl):S40-S43, 1997. **No. of citations: 14**

9. **Menzies, S.W.**, Khalil, M., Crotty, K., Bonin, A. The augmentation of melanocytic nevi in guinea pigs by solar-simulated light: An animal model for human melanocytic nevi.

Cancer Res. 58: 5361-66, 1998. [Journal Ranking 4/104] **No. of citations: 5**

*10. **Menzies, S.W.** Automated Epiluminescence Microscopy: Human vs machine in the diagnosis of melanoma. *Arch Dermatol* 135:1538-40, 1999. {Editorial} [Journal Ranking 2/34] **No. of citations: 38**

11. **Menzies, SW**, Westerhoff K, Rabinovitz H, Kopf A, McCarthy W, Katz B. The surface microscopy of pigmented basal cell carcinoma. *Arch Dermatol* 136;1012-1016, 2000.

[Journal Ranking 2/34] **No. of citations: 76**

12. Westerhoff K, McCarthy W, **Menzies SW**. Increase in the sensitivity for melanoma diagnosis by primary care physicians using skin surface microscopy. *Br J Dermatol* 143:1-6, 2000. [Journal Ranking 4/34] **No. of citations: 70**

13. Hanrahan P, **Menzies SW**, D'Este C, Plummer T, Hersey P. Participation of older males in a study on photography as an aid to early detection of melanoma. *Aust NZ J Public Health* 2000;24:615-8. **No. of citations: 5**

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*16. **Menzies SW**. A method for the diagnosis of primary cutaneous melanoma using surface microscopy. *Dermatol Clin* 2001;19;299-305. [Journal Ranking 11/34] **No. of citations: 8**

17. Saleh F, Crotty KA, Hersey P, **Menzies SW**. Primary melanoma tumour regression associated with an immune response to the tumour-associated antigen Melan-A/MART-1. *Int J Cancer* 2001;94:1491-97 [Journal Ranking 15/104] **No. of citations: 25**

*18. Johr R, **Menzies SW**. Lessons in dermoscopy. *Dermatol. Surg.* 2001;27:911-12. [Journal Ranking 6/34] **No. of citations: 5**

*19. **Menzies SW**. Dermoscopy of pigmented basal cell carcinoma. *Clin. Dermatol.* 2002;20:268-69. [Journal Ranking 22/34] **No. of citations: 10**

20. Hanrahan PF, D'Este CA, **Menzies SW**, Plummer T, Hersey P. Skin photography as an aid to management of skin lesions in older males. *J Med Screen* 2002;9:128-32 **No. of citations: 9**

21. Giuseppe Argenziano, H. Peter Soyer, Sergio Chimenti, Renato Talamini, Rosamaria Corona, Francesco Sera, Michael Binder, Lorenzo Cerroni, Gaetano De Rosa, Gerardo

- Ferrara, Rainer Hofmann-Wellenhof, Michael Landthaler, **Scott W. Menzies**, Hubert Pehamberger, Domenico Piccolo, Harold S. Rabinovitz, Roman Schiffner, Stefania Staibano, Wilhelm Stolz, Igor Bartenjev, Andreas Blum, Ralph Braun, Horacio Cabo, Paolo Carli, Vincenzo De Giorgi, Matthew G. Fleming, James M. Grichnik, Caron M. Grin, Allan C. Halpern, Robert Johr, Brian Katz, Robert O. Kenet, Harald Kittler, Jürgen Kreusch, Josep Malvehy, Giampiero Mazzocchetti, Margaret Oliviero, Fezal Özdemir, Ketty Peris, Roberto Perotti, Ana Perusquia, Maria Antonietta Pizzichetta, Susana Puig, Babar Rao, Pietro Rubegni, Toshiaki Saida, Massimiliano Scalvenzi, Stefania Seidenari, Ignazio Stanganelli, Masaru Tanaka, Karin Westerhoff, Ingrid H. Wolf, Otto Braun-Falco, Helmut Kerl, Takeji Nishikawa, Klaus Wolff, Alfred W. Kopf. Dermoscopy of Pigmented Skin Lesions: Results of a consensus meeting via the internet. *J Am Acad Dermatol*. 2003;48:679-93. [Journal Ranking 5/34] **No. of citations: 271**
22. B. Rosado, **SW. Menzies**, A. Habauer, H. Pehamberger, K. Wolff, M. Binder, H. Kittler. Accuracy of the computer diagnosis of melanoma: A quantitative meta-analysis. *Archives Dermatol*. 2003; 139:361-7. [Journal Ranking 2/34] **No. of citations: 46**
23. Doubrovsky A, **Menzies SW**. Enhanced survival in patients with multiple primary melanoma. *Arch Dermatol*. 2003; 139:1013-8. [Journal Ranking 2/34] **No. of citations: 14**
- *25. Menzies SW. Using dermoscopy to diagnose pigmented skin lesions. *Med Today*. 2004; 5:63-71.
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28. Menzies SW, Greenoak GE, Abeywardana C, Crotty KA, O'Neill M. UV Light from 290-325nm, but not Broad-band UVA or Visible Light, Augments the Formation of Melanocytic Nevi in a Guinea Pig Model for Human Nevi. *J Invest. Dermatol*. 2004;123:354-60. [Journal Ranking 1/41] **No. of citations: 13**
29. Menzies SW. Using dermoscopy to diagnose pigmented skin lesions. *Modern Medicine (Middle East)*. 2004;21:28-34
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31. Hersey P, Menzies SW, Coventry B, Nguyen T, Farrelly M, Collins S, Hirst D,

- Johnson H. Phase I/II study of immunotherapy with T cell peptide epitope in patients with stage IV melanoma. *Cancer Immunol. Immunother.* 2005; 54:208-18.
No. of citations: 26
32. Menzies SW. Melanoma is not what it used to look like. *Cancer Forum* 2005;29:71-72
33. Thompson JF, Menzies SW, Shaw HM, Scolyer RA, Kefford RF. Comment of Letters by de Giorgi et al. and Retsas in relation to Seminar “Cutaneous Melanoma” *Lancet* 2005;365:2004-5. [Journal Ranking 3/100] **No. of citations: 4**
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	<p>101. Christine M Madronio, Bruce K Armstrong; Caroline G Watts; Chris Goumas; Rachael L Morton; Austin M Curtin; Scott W Menzies; Graham J Mann; John F Thompson; Anne E Cust. Doctors' recognition and management of melanoma patients' risk: an Australian population-based study. <i>Cancer Epidem.</i> 2016;45:32-39.</p> <p>102. Pablo Uribe; Helena Collgros; Richard A. Scolyer ; Scott W. Menzies; Pascale Guitera. Use of <i>in vivo</i> reflectance confocal microscopy for the diagnosis of melanoma and melanotic macules of the lip <i>JAMA Dermatol</i> In press</p> <p>103. Rocha L, Menzies SW, Lo S, Avramidis M, Khoury R, Jackett L, Guitera P. Analysis of an electrical impedance spectroscopy system in short-term digital dermoscopy imaging of melanocytic lesions. <i>Br J Dermatol.</i> In press</p> <p>104. Dieng M et al. Preference-based quality of life measures for economic evaluations in early stage melanoma: An examination of measure sensitivity. JAMA Dermatol. Submitted</p> <p>105. PUNCH "SCORING": A TECHNIQUE THAT FACILITATES MELANOMA DIAGNOSIS OF CLINICALLY SUSPICIOUS PIGMENTED LESIONS. <i>Histopathology</i> In Press</p> <p>106. Dieng M et al. A psycho-educational intervention for people at high risk of developing another melanoma: A pilot randomised controlled trial. <i>BMJ Open</i> In Press</p> <p>.</p> <p>.</p>
Major invited reviews	<ol style="list-style-type: none"> 1. Menzies, S.W. Surface microscopy of pigmented skin tumours. <i>Austral J Dermatol.</i> 38 (Suppl):S40-S43, 1997. <i>No. of citations: 14</i> 2. Menzies, S.W. Automated Epiluminescence Microscopy: Human vs machine in the diagnosis of melanoma. <i>Arch Dermatol</i> 135:1538-40, 1999. [Journal Ranking

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3. **Menzies SW.** A method for the diagnosis of primary cutaneous melanoma using surface microscopy. *Dermatol Clin* 2001;19:299-305. *No. of citations: 8*
4. **Menzies SW.** Dermoscopy of pigmented basal cell carcinoma. *Clin. Dermatol.* 2002;20:268-69. *No. of citations: 10*
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7. **Menzies SW, Zalaudek I.** Why perform dermoscopy? The evidence for its role in the routine management of pigmented skin lesions. *Arch Dermatol.* 2006;142:1211-1212. . [Journal Ranking 4/41] *No. of citations: 9*
8. **Menzies SW.** New technologies for the diagnosis of primary melanoma of the skin. *Med J Aus.* 2006;185:533-34.
9. **Menzies SW.** Is sun exposure a major cause of melanoma? *Br Med J* 2008; 337:a763. [Journal Ranking 7/100] *No. of citations: 4.*
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Patents

Patents filed.

1. System and method for examining, recording and analysing dermatological conditions. US Patent filing No. 09/473270
2. Diagnostic Feature Extraction in Dermatological Examination. US Patent filing No. 10/478078
3. Boundary Finding in Dermatological Examination. US Patent filing No. 10/478077

FUNDED RESEARCH AWARDS

1. **Leo & Jenny Leukaemia & Cancer Foundation.** 1989 \$ 18 278 - Fabric testing for the protection of skin against the sun. Greenoak, G., **Menzies, S.W.**, Pailthorpe, M., Georgouras, K.

2. **Sydney University Cancer Fund.** 1990 \$ 9 000 - UVR-induced tumour immunosuppression. Reeve V, **Menzies S.W.**

3. **NSW Cancer Council.** 1993-1995 (3 yrs) \$45 000. *Surface Microscopy for the diagnosis of melanoma and pigmented skin lesions.* **Menzies, S.W.**, McCarthy, W.H.

4. **Melanoma Foundation.** 1995-1997 (2yrs) \$ 40 000. *An animal model for primary cutaneous melanoma.* **Menzies, S. W.**

5. **NH&MRC.** 1998-99 (2yrs) \$ 88 500. Assessment of photography as an aid to early detection of melanoma in older males by general practitioners. Hersey, P., **Menzies, S.W.**, D'Este, C.A., Plummer, A.

6. **NH&MRC.** 1998-2000 (3yrs) \$ 165 590 Immunotherapy of melanoma with dendritic cells. Hersey P, Menzies SW, Halliday G.

7. **Blackburn Precinct Grant** 1998 \$ 73 000 – Confocal microscope. Gibbons J, **Menzies SW**, Crotty KA.

8. **The Leo & Jenny Foundation.** 1999-2000 (2yrs) \$ 31 700. In vivo confocal microscopy for the diagnosis of melanoma. **Menzies SW**, Lukins P, Crotty K.

9. **Melanoma Foundation.** 1999 (1yr) \$ 17 000. Assessment of the ability of general practitioners to diagnose melanoma using surface microscopy. **Menzies SW**, McCarthy WH.

10. **NH&MRC 2000-2001 (2yrs) \$ 105 799.** The ability of sunscreens to protect against the induction of solar irradiation-induced melanocytic naevi in vivo. **Menzies SW**, Greenoak GE, Crotty KA.
11. **NH&MRC 2000 \$ 37 657.** Assessment of photography as an aid to early detection of melanoma in older males by general practitioners. Hersey, P., **Menzies, S.W.**, D'Este, C.A., Plummer, A.
12. **N M Rothschild & Sons Donations Committee 2001 \$10 000.** Digitising photographic library. **Menzies S.W.**
13. **NH&MRC Equipment Grant 2000/1 \$ 55 000.** UV Spectroradiometer. Halliday G, Reeve V, **Menzies SW**, Mason R, Mann G.
14. **University of Sydney Institutional Strengths (Cancer Services) 2001 \$ 56 724** UV Spectroradiometer. Halliday G, Reeve V, **Menzies SW**, Mason R, Mann G.
15. **NH&MRC 2002-2004 \$495 000 (3yrs)** Immunotherapy of melanoma with dendritic cell vaccines. Hersey P, Halliday G, **Menzies S.W.**
16. **NH&MRC 2005-2006 \$ 190 750 (2yrs)** Crossover trial of dermoscopy and short-term digital monitoring for the management of skin lesions in general practice. **Menzies SW**, Elwood M, Ward A, Burton R, McAvoy B.
17. **University of Sydney Major Equipment Fund 2005 \$180 000 .** FacsAria. N.J.C. King, R. Mason, J. Rasko, GM Halliday, **S. Menzies**, R. Barnetson, S. Byrne, V. Reeve. And 37 other CI
18. **Cancer Institute NSW Research Infrastructure Grants 2005 \$110 000.** Photocarcinogenesis (Ultraviolet radiation induced skin carcinogenesis) Halliday G, Mason R, Reeve V, **Menzies S**, Damian D.
19. **Cancer Institute NSW Program Grant for Excellence in Translational Research.** 2005-2009 \$ 3 750 000 (\$750 000 per yr for 5 yrs) Sydney Melanoma Unit Translational

Research Program. Mann G, Thompson J, Kefford R, Scolyer R, **Menzies S**, Hersey P, Christopherson R.

20. **Beyondblue Project Grant.** Development and trial of tailored psycho-educational resources for individuals affected by melanoma. N Kasparian, B Meiser, **S Menzies**, G Mann, P Butow, K Barlow-Stewart. Two year grant (2010-2011): \$142,500.

21. **Cancer Institute NSW Program Grant for Excellence in Translational Research.** Mann G, Thompson J, Kefford R, Scolyer R, Hersey P, **Menzies S**, Spllane A, Rizos H, Zhang X, Christopherson R. 2010-2015 \$ 3 750 000 (\$750 000 per yr for 5 yrs) Melanoma Institute Australia Translational Research Program.

22. **NHMRC Centre of Excellence for the study of naevi.** Soyer P, Green A, Aitken J, **Menzies S**, Sturm R, Duffy D, Janda M, Prow T, Schaidler H. 2015-2019 \$2 500 000 (\$500 000 per year for 5yrs)

Invited Conference Research Presentations– over the past ten years (Invited Speaker)

1. **Menzies, S.W.** Instrumentation for the early diagnosis of melanoma. Clinical Oncological Society of Australia, 1999.
2. **Menzies SW.** Computer dermatoscopy. 5th International Conference on Melanoma, Venice 2001. *Melanoma Res.* 11:Suppl 1:S22, 2001.
3. **Menzies SW.** Menzies' scoring method. 1st World Congress of Dermoscopy, Rome 2001.
4. **Menzies SW.** Digital dermatoscopy, The Australian Experience. 1st World Congress of Dermoscopy, Rome 2001.
5. **Menzies SW.** Surface microscopy of basal cell carcinoma. American Academy of Dermatology 59th Annual meeting, Washington 2001.
6. **Menzies SW.** Menzies' scoring method. American Academy of Dermatology 59th Annual meeting, Washington 2001.
7. **Menzies SW,** Gutenev A, Avramidis M, Batrac A, McCarthy W. Short-term digital surface microscopy monitoring of melanocytic lesions. 7th Congress of the International Society of Skin Imaging, Washington 2001.

8. **Menzies SW.** Epiluminescence microscopy of pigmented BCC. 8th International Congress of Skin Cancer, Zurich 2001.
9. **Menzies SW.** Menzies' scoring method. American Academy of Dermatology 60th Annual meeting, New Orleans, March 2002.
10. **Menzies SW.** Diagnostic criteria in epiluminescence microscopy. 20th World Congress of Dermatology, Paris, July 2002.
11. **Menzies SW.** Diagnosis of malignant melanoma. 20th World Congress of Dermatology, Paris, July 2002.
12. **Menzies SW.** Dermoscopy. Efficient and Effective Melanoma Diagnosis Workshop (NCCI) Nov 2002
13. **Menzies SW.** Digital monitoring. Efficient and Effective Melanoma Diagnosis Workshop (NCCI) Nov 2002
14. **Menzies SW.** Technologies in the future. Efficient and Effective Melanoma Diagnosis Workshop (NCCI) Nov 2002
15. **Menzies SW.** Automated diagnosis of melanoma using SolarScan. American Academy of Dermatology 62nd Annual meeting, Washington, Feb 2004.
16. **Menzies SW,** Greenoak GE, Abeywardana C, Crotty KA, O'Neill M. UV Light from 290-325nm, but not Broad-band UVA or Visible Light, Augments the Formation of Melanocytic Nevi in a Guinea Pig Model for Human Nevi. 32nd Annual Meeting of the American Society for Photobiology. Seattle, July 2004
17. **Menzies SW,** Greenoak GE, Abeywardana C, Crotty KA, O'Neill M. UV Light from 290-325nm, but not Broad-band UVA or Visible Light, Augments the Formation of Melanocytic Nevi in a Guinea Pig Model for Human Nevi. Clinical Oncological Society of Australia Annual Meeting, Nov. 2004, Canberra
18. **Menzies SW.** Dermoscopy of basal cell carcinoma. The 10th World Congress on Cancers of the Skin. Vienna, May 2005.
19. **Menzies SW.** Automated diagnosis of melanoma: The Australian Experience. The 10th World Congress on Cancers of the Skin. Vienna, May 2005.
20. Kittler H, Guitera P, Teban L, Avramidis M, **Menzies SW.** Changes in melanocytic lesions observed with digital dermoscopy during different follow-up intervals. First Congress of the International Dermoscopy Society. Naples, Italy, April 2006.
21. **Menzies SW.** Nodular and amelanotic melanoma. First Congress of the International Dermoscopy Society. Naples, Italy, April 2006.
22. **Menzies SW.** Performance of SolarScan. First Congress of the International Dermoscopy Society. Naples, Italy, April 2006.

23. **Menzies SW.** Sequential digital monitoring for the diagnosis of melanoma. 3rd Congress of the Australian Health and Medical Research Congress Melbourne, Nov-Dec, 2006.
24. **Menzies SW.** Dermoscopy of nodular and hypomelanotic melanoma. 21st World Congress of Dermatology, Buenos Aires, Argentina October 2007.
25. **Menzies SW.** Melanoma and dermoscopy: where we are, where we go. 21st World Congress of Dermatology, Buenos Aires, Argentina October 2007.
26. **Menzies SW.** The role of digital dermoscopy and mole mapping. 21st World Congress of Dermatology, Buenos Aires, Argentina October 2007.
27. **Menzies SW.** In vivo confocal microscopy: discussion. 21st World Congress of Dermatology, Buenos Aires, Argentina October 2007.
28. **Menzies SW.** Dermoscopy and new development of visual diagnostic tools for early melanoma lesions. 20th International Pigment cell conference & 5th International Melanoma Research Congress. Sapporo Japan, May 2008.
29. **Menzies SW.** Dermoscopy of amelanotic melanoma and digital dermoscopy update. Annual Conference of Skin Cancer Society of Australia. Gold Coast, August 2008.
30. **Menzies SW.** Clinical Diagnosis. The first New Zealand Melanoma Summit, Wellington, October 2008.
31. **Menzies SW.** Breslow thickness determination by high frequency ultrasound. International Society for Digital Imaging of the Skin satellite meeting. San Francisco, USA, March 2009.
32. **Menzies SW.** In vivo confocal microscopy for lentigo maligna and equivocal macules of the face. 3rd meeting of the International Confocal Working Group, San Francisco, USA, March 2009.
33. **Menzies SW.** In vivo confocal microscopy of pigmented macules of the face. 12th World Congress of Cancers of the Skin. Tel Aviv, Israel, May, 2009.
34. **Menzies SW.** Technologic aids for the diagnosis of melanoma. 12th World Congress of Cancers of the Skin. Tel Aviv, Israel, May, 2009.
35. **Menzies SW.** Australian and New Zealand Guidelines for management of melanoma. 12th World Congress of Cancers of the Skin. Tel Aviv, Israel, May, 2009.
36. **Menzies SW.** Diagnosis of non-pigmented and lightly pigmented lesions. 7th World Congress on Melanoma, Vienna, Austria, May 2009.
37. **Menzies SW.** Dermatoscopy of pigmented basal cell carcinoma. 7th World Congress on Melanoma, Vienna, Austria, May 2009.
38. **Menzies SW.** Short and long term follow up strategies for nevi. 7th World Congress on Melanoma, Vienna, Austria, May 2009.

39. **Menzies SW.** What dermoscopy changes induce to remove a lesion. 2nd World Congress of the International Dermoscopy Society, Barcelona Nov 2009.
40. **Menzies SW.** Future challenges of the International Dermoscopy Society: Melanoma. 2nd World Congress of the International Dermoscopy Society, Barcelona Nov 2009.
41. **Menzies SW.** Dermoscopy of nodular melanoma. 3rd World Congress of Dermoscopy, Brisbane May, 2012.
42. **Menzies SW.** Clinical trial of dermoscopy in general practitioners. 3rd World Congress of Dermoscopy, Brisbane May, 2012.
43. **Menzies SW.** Dermoscopy Digital Monitoring. Where are we at? 3rd World Congress of Dermoscopy, Brisbane May, 2012.
44. **Menzies SW.** Skin Cancer Campaigns in Australia. Jornadas of Clínica Alemana, Santiago Chile, Oct 2012.
45. **Menzies SW.** Australasian Guidelines for the Management of Melanoma. Jornadas of Clínica Alemana, Santiago Chile, Oct 2012.
46. **Menzies SW.** Dermoscopy of nodular melanoma and pigmented BCC Jornadas of Clínica Alemana, Santiago Chile, Oct 2012.
47. **Menzies SW.** Dermoscopy of nodular and amelanotic melanoma. 1st Latin American Congress of Dermoscopy, Sao Paulo, Brazil, Oct 2013.
48. **Menzies SW.** Dermoscopy in general practitioners. 1st Latin American Congress of Dermoscopy, Sao Paulo, Brazil, Oct 2013.
49. **Menzies SW.** Digital monitoring of melanocytic lesions. 1st Latin American Congress of Dermoscopy, Sao Paulo, Brazil, Oct 2013.
50. **Menzies SW.** Dermoscopy of nodular melanoma. XI International Congress of Dermatology, New Delhi, India, Dec 2013.
51. **Menzies SW.** Why does diagnosing melanoma make you old? American Dermatological Association Annual Meeting San Juan Oct, 2015
52. **Menzies SW.** Dermoscopy of Melanoma. The Australasian Melanoma Conference, Sydney Oct, 2016
53. **Menzies SW.** Digital monitoring of melanocytic lesions. American Academy of Dermatology Annual Meeting Orlando, March 2017.

Collaborators of high stature (Publications)

1. Prof. W.H. McCarthy – Dept. of Surgery, University of Sydney
2. Prof. A.W. Kopf – Dept. of Dermatology, New York University, USA
3. Prof. W. Stolz – Dept. of Dermatology, University of Regensburg, Germany

4. Prof. P. Hersey – Dept. of Medicine, University of Newcastle
5. Prof. H.P. Soyer – Dept. of Dermatology, University of Graz, Austria.
6. Prof. M. Elwood – National Cancer Control Initiative, Melbourne
7. Prof. G. Halliday – Dept. of Dermatology, University of Sydney
8. Prof. H. Kittler – Dept. of Dermatology, University of Vienna, Austria.
9. Prof. G. Pellacani – Dept. of Dermatology, University of Modena, Italy.

Research Awards

1. 2005 Bradfield Award: Engineering Excellence Awards, Sydney Division.

With Polartech Ltd and CSIRO I won this prestigious award for overall engineering excellence for SolarScan, an automated diagnostic instrument for primary melanoma.

2. 2005 Australian Engineering Excellence Awards. With the above research group we were awarded one of six of the Australian Engineering Excellence awards open to all engineering projects nationally.

3. DuPont Innovation Award 2006. Again with the above research group we were awarded this for SolarScan.

4. 2009 Premier's Award for Excellence in Translational Research. Our research team won this award for progress within the CINSW translational research grant (see award 19.)

Contribution to research organisations

i. Journals acting on the Editorial advisory Board:

British Journal of Plastic Surgery (now Journal of Plastic, Reconstructive and Aesthetic Surgery)

US Dermatology

ii. Some journals acting as a reviewer:

Archives of Dermatology

Journal of Investigative Dermatology

Lancet Oncology

British Journal of Dermatology

Cancer Detection and Prevention Journal

Medical Journal of Australia

Dermatological Surgery

Journal of the American Academy of Dermatology

British Journal of Plastic Surgery/Journal of Plastic Reconstructive and Aesthetic Surgery

iii. Organisation of research workshops/symposia

1. Diagnosis and management of melanoma and pigmented skin lesions – One day symposia endorsed by the Royal Australian College of General Practitioners, Sydney, March 1996.
2. Automated Instrumentation for Melanoma Diagnosis – Half Day Symposia at *4th World Conference on Melanoma*, Sydney, 1997.
3. Efficient and Effective Melanoma Diagnosis Workshop (National Cancer Control Initiative), Sydney – One Day Symposia, 2002
4. Melanoma & Skin Cancer Program, Friday 26th Nov. 2004 at the *Clinical Oncological Society of Australia* Annual Meeting, Canberra, 2004.
5. Dermoscopy & Imaging Program, at the *12th World Congress of Cancers of the Skin*. 1 day program - Tel Aviv, Israel, May, 2009.
6. Dermoscopy Basic & Advanced Courses, 5 hrs symposia at the *7th World Congress on Melanoma*, Vienna, Austria, May 2009.

iv. Member of the Scientific Committee of International research meetings

1. First Congress of the International Society of Dermoscopy. Naples, Italy. April 2006.
2. 12th World Congress on Cancers of the Skin. Tel Aviv, Israel May 2009.
3. 2nd Congress of the International Dermoscopy Society, Barcelona, Spain Nov 2009.
4. Secretariat of the 3rd Congress of the International Dermoscopy Society, Brisbane, 2012

v. Member of advisory committees because of my academic research interests

1. NH&MRC Australian guidelines for the management of cutaneous melanoma

In 1995 I was invited to participate in the formation of “Guidelines for the management of cutaneous melanoma” by the Australian Cancer Network. This document is designed for all clinicians (general practitioners, dermatologists and surgeons), and represented the first such

consensus document of its kind in Australia. This document was then endorsed by the NHMRC Clinical Practice Guidelines “The management of cutaneous melanoma” in 1999.

2. NH&MRC Australian and New Zealand Guidelines for Management of Melanoma.

In 2006 I was invited to be on the advisory group for review of the above document by the Australian Cancer Network. In particular I was appointed to chapters on “Prevention” and “Diagnosis” which was ratified by the NH&MRC and published in 2008. The rigor required to validate the evidence-based recommendations underscores the importance of this document which now forms the basis of national (and international) practice for the management of melanoma.

vi. MEDIA ACTIVITY – dissemination and popularisation of research and scholarship

1995 - Channel 7 News - “Automated instrument for diagnosis of melanoma”

1995 - Channel 9 News - “Automated instrument for diagnosis of melanoma”

1995 - Channel 10 News - “Automated instrument for diagnosis of melanoma”

10/7/95 - Radio interviews - “Automated instrument for diagnosis of melanoma”

- ABC Adelaide

- 6PR Perth

- ABC Newcastle

- ABC Sydney

- 5DN Adelaide

- 2BL Sydney

- 5AA Adelaide

- ABC Canberra

17/11/95 - Radio interviews - “Atlas for the diagnosis of melanoma”

- 2WS (Sydney)

- Adelaide station

- MixFM

20/11/95 - Radio News - 2WS - “Atlas for the diagnosis of melanoma”

24/11/95 - Sydney Morning Herald - “Moles often removed needlessly:doctors” - on “Atlas for the diagnosis of melanoma (WH McCarthy).

8/12/95 - Medical observer “Pick that melanoma”

7/6/97 - Sydney Morning Herald - comment on automated instruments for diagnosis of melanoma

May 1998 – SBS television “Second Opinion” – Development of automated instrumentation for the diagnosis of melanoma (screening end 1998).

1999 – Marie Claire magazine interview – “the tests you must have” (skin cancer related).

1999 – May - Channel 9 News – “confocal microscopy for diagnosis of melanoma”.

1999- Women’s Health magazine – interview for article on skin cancer.

2000- Korean Broadcasting System – television interview on increasing skin cancer

2000 – guest editor 5th Edition of the South East Health Cancer Control Bulletin.

2001 – Jan – Channel 9 News “computerised systems for melanoma diagnosis.”

2002 – Jan – 2UE “skin cancer interview”

2002 – Aug – article “Melanoma” – Rural Practice (Magazine)

2002 – May – Channel 10 News – SolarScan release

2002- May – ABC radio Melbourne – SolarScan release

2002 – May – ABC radio Perth – SolarScan release

2002 – May – radio 2GB Sydney – SolarScan release

2002 - May – ABC radio Mid-Nth Coast NSW – SolarScan release

2002 - May - Discovery Channel - SolarScan

2002 - June - Japan Broadcasting Corporation (NHK) News - SolarScan

2002 - August - "Rural Practice" interview - Malignant Melanoma for Vol 6, No.3:2002

2002- October - "Digital Monitoring" - A Current Affair - Channel 9

TV

2002 - October - "Melanoma diagnosis" - Breakfast TV New Zealand

2003 – March - “New method to monitor moles” – Bankstown Torch Newspaper

2003 – March- “Tracking melanoma changes” – Inner Western Suburbs Courier

2003 – May- “Nodular Melanoma” – ABC TV NEWS

2003 – October- Melanoma Digital Monitoring – Channel 9 TV NEWS

2003 – October - Melanoma Digital Monitoring – Sky NEWS Australia

2003 - October - Melanoma Digital Monitoring – The Examiner newspaper

2003 - October - Melanoma Digital Monitoring – The Advocate newspaper

2003 - October - Melanoma Digital Monitoring – The Bulletin

2003 - October - Melanoma Digital Monitoring – The Australian

2003 - October - Melanoma Digital Monitoring – The Daily Telegraph

2003 - October - Melanoma Digital Monitoring – The Courier Mail

2003 - October - Melanoma Digital Monitoring – The Herald Sun

- 2003 - October - Melanoma Digital Monitoring – The Advertiser
- 2003 - October - Melanoma Digital Monitoring – The Sydney Morning Herald
- 2003 - October - Melanoma Digital Monitoring – The Age
- 2003 - October - Melanoma Digital Monitoring – The Sunday Times
- 2003 - October - Melanoma Digital Monitoring – Brisbane 4BH Radio news, Melbourne Nova 100 radio news, Brisbane 4BH radio news, Brisbane 4BC radio news, Perth Mix radio news, Perth Nova radio news, Melbourne Gold radio news, Melbourne Fox radio news, Melbourne Sport radio news, Melbourne 3MMM radio news, Adelaide 5UV radio news, Perth 92.9 Radio news
- 2004 – November 26– UVB causes melanoma – Page 1 Sydney Morning Herald
- 2004 – November 26– UVB causes melanoma – The Age
- 2004 – November 26– UVB causes melanoma – Channel Nine TV News
- 2004 – November 26-Dec 1 - UVB causes melanoma – ABC radio Sydney, ABC South Australia, ABC Perth, NOVA Sydney
- 2005 – November – Automated diagnosis of melanoma – SolarScan – Sydney Morning Herald
- 2006 – May – Beyond Tomorrow – Channel Seven TV – SolarScan
- 2008 – July- ABC radio- Does sun cause melanoma
- 2008 – July – Science Daily – Sun and melanoma
- 2008 – July – Foodconsumer.org - Sun and melanoma
- 2008 – July – Health Jockey - Sun and melanoma
- 2008 – July – Science Codex - Sun and melanoma
- 2008- July – MedIndia.com – Sun and melanoma
- 2009- July1- Channel nine news – High risk clinic for melanoma (research results)
- 2009 – September – Clinical trial in GPs reducing needless excisions. ABC Radio
- 2009- 18 December – Sydney Morning Herald – DNA sequencing of melanoma.
- 2011- Feb - Southern Highland News: Limit your sun exposure in the middle of the day

3. LIST OF SERVICE & LEADERSHIP IN THE UNIVERSITY, DISCIPLINE AND COMMUNITY

A. Service to the university

1. Departmental & Faculty level

I. PhD student annual reviews (Central Clinical School) (2007-current)

I have been serving on the committee for reviewing the annual progress of PhD students at the central clinical school since 2007.

II. Discipline of Dermatology (2008-current)

Since the inception of this new discipline I have attended meetings that formulate the evolving structure of the Discipline of Dermatology.

III. Patient Doctor Theme Committee – Undergraduate Medical Program –(2002-2003)

In 2002 I was invited to be on the Patient Doctor Theme Committee which assesses and formulates the clinical skills of the Undergraduate Medical Program. The patient doctor theme was 25% of the Undergraduate medical program.

2. College/University level

I. Board member of the Melanoma Foundation (2000 – current).

In 2000 I was elected a member of the Board/Council of the Melanoma Foundation of the University of Sydney. The fundamental aim of the Foundation is to raise money for research.

II. Scientific Advisory Committee - Melanoma & Skin Cancer Institute (1995-2008)

In 1995 I was invited to be a member of the scientific advisory committee of the Melanoma & Skin Cancer Institute (MASCRI), University of Sydney. This institute was involved in all aspects of research on cutaneous malignancy ie. scientific/experimental, pure clinical and commercial based programs. I continued this until it was devolved because of competing University Foundations and Institutions.

III. External Research Advisory Committee of the School of Behavioural and Community Health Sciences (2002-2004).

In 2002 I was invited to be on a 3 person committee to act as an external adviser for research grants (for review prior to submission) in the School of Behavioural and Community Health Sciences, University of Sydney.

B. Service to the Discipline

1. Journals acting on the Editorial advisory Board (2004 - current).

British Journal of Plastic Surgery (now Journal of Plastic, Reconstructive and Aesthetic Surgery)

2. Organiser of national or international conferences.

i. Melanoma & Skin Cancer: Clinical Oncological Society of Australia Annual Meeting, Canberra, 2004. I co-chaired the organising committee for the Melanoma & Skin Cancer section of the annual COSA meeting.

ii. First Congress of the International Society of Dermoscopy. Naples, Italy. April 2006. I was on the scientific committee for this international meeting.

iii. 12th World Congress on Cancers of the Skin. Tel Aviv, Israel 2009. I was on the scientific committee for this international meeting.

iv. 2nd Congress of the International Dermoscopy Society, Barcelona, Spain 2009. I am on the scientific committee for this international meeting.

3. Office-bearer of professional societies.

i. International Dermoscopy Society

In 2000 I was appointed as a secretary of the International Dermoscopy consensus group. Following this the International Dermoscopy Society was formed in 2003 and since that time I have been the Australian representative of the Board.

ii. International Confocal Microscopy Working Group.

In 2008-2012 I was asked to be the Australasian representative of this newly organised association involved with all aspects of in vivo diagnosis of skin disorders with confocal microscopy.

4. Professional activity.

i. Director of the Sydney Melanoma Diagnostic Centre, Royal Prince Alfred Hospital (2002-2013)

In 2002 I became the Director of this clinical department of the Sydney Cancer Centre. Its mission statement is to apply best practice methods for the diagnosis and management of skin tumours, with a particular emphasis on pigmented lesions (eg. moles and melanoma) and to conduct research on diagnostic and therapeutic techniques for skin tumours. There are currently six consultant dermatologists working in the unit, with additional training rotations for dermatology registrars from Royal Prince Alfred and Liverpool hospitals.

ii. Clinical Associate, Sydney Melanoma Unit, Royal Prince Alfred Hospital, NSW (1991- 2002)

As a clinical associate of the Sydney Melanoma Unit, the largest (patient/year intake) melanoma unit in the world, I was involved in clinical practice in an outpatient setting. Experience was obtained in the diagnosis and management of all presentations of cutaneous and metastatic melanoma. Furthermore, extensive experience in the diagnosis and management of benign, premalignant and malignant skin tumours was achieved.

5. Industry/commercial formal activities.

i. Polartechnics Ltd (Sydney).

From 1994 to 2007 I was a consultant to Polartechnics Ltd. in regards to the development and commercial release of the automated melanoma diagnostic instrument, SolarScanTM.

ii. Dermtech International (La Jolla, California).

From 2008 to 2015 I was on the Melanoma Advisory Board of Dermtech International for the development of a micro-array tape stripping method for the diagnosis of primary melanoma.

iii. SciBase AB (Stockholm, Sweden.)

From 2015 to current I am on the medical advisory board of SciBase for the development and commercial release of the NevisenseTM electrical impedance instrument for the automated diagnosis of melanoma.

C. Service to the Community

1. Service on or behalf of Government Statutory Authorities or Commissions of Inquiry.

i. Health Promotion Strategic Plan for Skin Cancer Control.

In September 1994 I became a member of the working party of the Health Promotion Strategic Plan for Skin Cancer Control developed by the NSW Health Dept. and the NSW Cancer Council. In particular I was a consultant in the Early Detection of Skin Cancer programme, which aimed to increase early detection of melanoma by education of medical practitioners (undergraduate and postgraduate) and the general public.

ii. NSW Melanoma Clinical Indicators Working Group (NSW Dept Health)

In 1997 I was appointed to this committee of the NSW Health Department which was formed to evaluate the management of melanoma following the distribution of best practice guidelines.

iii. WHO committee on automated instrumentation for melanoma diagnosis.

In 1997 I was a founding member of this WHO (World Health Organisation) committee that aimed in assessing and making recommendations on automated instrumentation for the diagnosis of melanoma.

iv. The Australian Ultraviolet radiation health effects research and monitoring network (AUSSUN).

In 1998 I was appointed to the AUSSUN project submission committee. Its aim was to monitor the deleterious effects of ultraviolet radiation in Australia. This led to a proposal presented to the Federal Government for funding consideration.

v. National Skin Cancer Strategic Plan 2000 to 2005

In 1999 I was invited to be a member of the Australian Cancer Society's National Skin Cancer Steering Committee to develop a national program that influence policies, structures and practices relevant to skin cancer control and to build on the knowledge, attitudes and behaviours of Australians about skin cancer.

vi. Australian/New Zealand Standard Committee for the installation, maintenance and operation of sunbeds for cosmetic purposes

In 1999 I was invited to be a committee member to update the existing Standards Australia document on sunbeds. This resulted in substantial modification and the new standard was completed in 2002 (AS/NZS 2635:2002 “Solaria for cosmetic purposes”).

vii. Workcover Guides for the Evaluation of Permanent Impairment (Skin Group).

In 2001 I was invited to be on the committee to form the 1st Edition of “Workcover Guides for the Evaluation of Permanent Impairment- Skin Group”. This is the basis of the NSW Workers Compensation Amendment Act 2001. Our assessment and recommendations were completed in 2001.

viii. Skin Cancer Prevention Expert Reference Group (NSW Cancer Council)

In 2004 I was invited to be on the above committee with the following terms of reference: 1. Provide expert advice on emerging issues and trends relevant to skin cancer prevention and early detection 2. Assist the Cancer Council in formulating its position on key issues relating to skin cancer prevention and early detection 3. Provide feedback on proposed strategies and programs for skin cancer prevention and early detection 4. Review content of material being developed to inform professionals or the community about skin cancer prevention. In 2006 we produced a diagnostic and management aid for skin cancer which was sent to all primary care physicians in NSW.

ix. Expert Advisory Panel for the Cancer and Health Screening and Disease Prevention Program (CHSDPP) for F-111 Deseal/Reseal Personnel (Department of Veterans Affairs, Canberra)

In 2005 I was invited to be on the EAP to screen for skin cancer in a cohort of occupationally exposed personnel to chemical carcinogens. This Federal Government advisory panel was chaired by Prof. Mark Elwood of the NCCI (National Cancer Control Initiative).

x. Skin Cancer Prevention Strategic Plan (Cancer Council of NSW, NSW Cancer Institute and NSW Health Dept)

In 2006 I was invited to be on an expert advisory group to assess the NSW strategic plan of preventing skin cancer.

xi. Australian Federal Government's Standing Committee on The Enquiry into Skin Cancer in Australia.

In 2015 was invited to present recommendations to the Australian Federal Government's House of Representative Standing Committee on The Enquiry into Skin Cancer in Australia.

2. Other services to the community

i. Community Health Boarding House Team – Skin Cancer Checks

From May 29 to September 23 2002 I was one of a three clinician team who visited all of the Community boarding houses for the intellectually disabled in the Central Sydney Area. We screened these clients for skin cancer and instituted management when required.

ii. Royal Prince Alfred Health Festival - Volunteer.

In 2003 I was a volunteer participant of the RPA Health Festival. This was designed to allow the local community to have an understanding of current health issues and access to health care.