

How to use Research evidence to Source appropriate Contact Lenses for your Patients

Prof James S Wolffsohn

Deputy Dean for Life and Health Sciences

BSc(Hons) PgCertHE PgDipAdvClinOptom MBA PhD MCOptom FHEA FSB FAAO FIACLE FBCLA

AIMS

- *to highlight the differences between individual patients with regards to contact lens needs such as . . .*
- *to examine what drives your choices on what lenses you would fit?*

OBJECTIVES

By the end of this workshop you should

- be able to conduct an appropriate history and symptoms to assess individual patient contact lens needs
- be able to perform a search of the research literature with appropriate search terms
- be able to use the information identified by the search to refine your clinical practice to enhance your contact lens management of patients

Questions

Some thorny practice ‘every-day’ questions

- What is the safest type of contact lenses to wear
- Is a lens which claims a higher oxygen permeability than another worth the extra expense?
- I have hayfever – will this prevent me from wearing contact lenses
- Can I swim/shower in contact lenses
- Which lenses give the best all day comfort?

Evidence-Basis – select an order

- a) Heresay
- b) Peer reviewed article
- c) Journal article
- d) Web article
- e) Magazine article
- f) Lecture handout
- g) Optometry in Practice
- h) Wikipedia

History and Symptoms – contact lenses

Usual plus:

- Dry eyes
- Allergy
- Previous wear
 - Oxygen requirements
 - Comfort
- Lifestyle
 - Contact sports
 - Critical vision
 - UV exposure

Searching the Academic Literature

- Search Engine
 - Journal Website
 - Pub Med
 - Science Direct
 - CCLR Reference Sight <http://cclr.uwaterloo.ca/ReferenceSight/References.htm>
 - Web of Knowledge
 - Authors / repositories

Searching the Academic Literature

- Search Engine
 - Journal Website
 - Pub Med
 - Science Direct
 - CCLR Reference Sight <http://cclr.uwaterloo.ca/ReferenceSight/References.htm>
 - Web of Knowledge
 - Authors / repositories



Home About Us Qualifying as an Optometrist Professional Development Professional Standards Research Knowledge Centre

Member Login Our Sites Sitemap Contact us Text size: A A A SEARCH

Research

Applied research - iPRO

Basic and translational research

Funding

Commissioned Research

Research Excellence Awards

Research Symposium

Useful Links

Research Ethics

Ophthalmic and Physiological Optics (OPO)

Home > Research > Ophthalmic and Physiological Optics (OPO) [Print and Share](#)

Ophthalmic and Physiological Optics (OPO)

The Research Journal of the College of Optometrists, **Ophthalmic & Physiological Optics (OPO)**, first published in 1925, is a leading international interdisciplinary journal that addresses basic and applied questions pertinent to contemporary research in vision science and optometry. OPO publishes original research papers, technical notes, reviews and letters and will interest researchers, educators and clinicians concerned with the development, use and restoration of vision.

OPO is published six times a year and is available to College Members only.

Listed below are some of the latest articles available. By clicking on the headline, you can read the abstract.



To see the full articles, you need to be logged into the College Website. [Members, click this link to see the entire publication.](#)

Ophthalmic and Physiological Optics - Latest Articles

[Plans for the development of the journal](#)

by David B Elliott - 01 Mar 2011

[Plans for the development of the journal](#)

[Potential hazards of viewing 3-D stereoscopic television, cinema and computer games: a review](#)

[Statistical guidelines for clinical studies of human vision](#)

[A novel instrument for logging nearwork distance](#)

[Effect of near adds on the variability of accommodative response in myopic children](#)

[Spectacle prescribing II: practitioner experience is linked to the likelihood of suggesting a partial prescription](#)

[Decision making in chronic glaucoma — optometrists vs ophthalmologists in a shared care service](#)

[A comparison of the NCT Reichert R7 with Goldmann applanation tonometry and the Reichert ocular response analyzer](#)

Searching the Academic Literature

- Search Engine
 - Journal Website
 - Pub Med
 - Science Direct
 - CCLR Reference Sight <http://cclr.uwaterloo.ca/ReferenceSight/References.htm>
 - Web of Knowledge
 - Authors / repositories

Research — [Home](#) [Research](#) [Useful Links](#) [Print and Share](#)

Useful Links

Links to Research Information:

- [COPAC](#) - Access to some of the largest university research libraries in the UK and Ireland
- [PubMed.com](#) - a database of articles with abstracts from biomedical journals
- [NHS Evidence Health Information Resources \(formerly National Electronic Library for Health\)](#)
- [National Primary Care Research Centre and Development Centre \(NPCRDC\)](#)
- [National Research Register](#) - A database of all ongoing or recently completed R&D projects in receipt of funding from the NHS
- [NHS Centre for Reviews and Dissemination \(CRD\)](#)
- [Nuffield Institute of health sciences](#)
- [Intute](#) - Organising Medical Networked Information The UK's gateway to high quality biomedical internet resources

Research

- Applied research - iPRO
- Basic and translational research
- Funding
- Commissioned Research
- Research Excellence Awards
- Research Symposium
- Useful Links**
- Research Ethics
- Ophthalmic and Physiological Optics (OPO)

PubMed Advanced Search Builder

Wolffsohn[Author]

[Edit](#)

Builder

Author

Wolffsohn

AND All Fields

Search

or [Add to history](#)

History

There is no recent history

You are here: NCBI > Literature > PubMed

GETTING STARTED
NCBI Education
NCBI Help Manual

RESOURCES
Chemicals & Bioassays
Data & Software

POPULAR
PubMed
Nucleotide

FEATURED
GenBank
Reference Sequences

Display Settings: Summary, 20 per page, Sorted by Recently Added Send to: [X]

Results: 1 to 20 of 107

<< First Prev Page 1 of 6 Next > Last >>

☐ [Effect of light-emitting diode colour temperature on magnifier reading performance of the visually impaired.](#)

1. **Wolffsohn JS, Palmer E, Rubinstein M, Eperjesi F.**
Clin Exp Optom. 2012 Feb 29. doi: 10.1111/j.1444-0938.2011.00702.x. [Epub ahead of print]
PMID: 22372735 [PubMed - as supplied by publisher]
[Related citations](#)

☐ [Development of a questionnaire to assess the relative subjective benefits of presbyopia correction.](#)

2. Buckhurst PJ, **Wolffsohn JS**, Gupta N, Naroo SA, Davies LN, Shah S.
J Cataract Refract Surg. 2012 Jan;38(1):74-9. Epub 2011 Nov 10.
PMID: 22078121 [PubMed - indexed for MEDLINE]
[Related citations](#)

☐ [How effective is low vision service provision? A systematic review.](#)

3. Binns AM, Bunce C, Dickinson C, Harper R, Tudor-Edwards R, Woodhouse M, Linck P, Suttie A, Jackson J, Lindsay J, **Wolffsohn J**, Hughes L, Margrain TH.
Surv Ophthalmol. 2012 Jan 2;57(1):34-65. Epub 2011 Oct 21. Review.
PMID: 22018676 [PubMed - indexed for MEDLINE]
[Related citations](#)

☐ [A review of non-pharmacological and pharmacological management of seasonal and perennial allergic conjunctivitis.](#)

4. Bilkhu PS, **Wolffsohn JS**, Naroo SA.
Cont Lens Anterior Eye. 2012 Feb;35(1):9-16. Epub 2011 Sep 16.
PMID: 21925924 [PubMed - in process]
[Related citations](#)

Searching the Academic Literature

- Search Engine
 - Journal Website
 - Pub Med
 - Science Direct
 - CCLR Reference Sight <http://cclr.uwaterloo.ca/ReferenceSight/References.htm>
 - Web of Knowledge
 - Authors / repositories



SciVerse | ScienceDirect | Scopus | Applications

[Home](#) |
 [Browse](#) |
 [Search](#) |
 [My settings](#) |
 [My alerts](#) |
 [Shopping cart](#)

All fields

Journal/Book title

Author

Volume

Issue

Page

Search

All fields		Author	
Journal/Book title		Volume	
		Issue	
		Page	
<input type="button" value="Search"/>			

Browse
11,303,343 Articles

Browse by title
A|B|C|D|E|F|G|H|I|J|K|L|M
N|O|P|Q|R|S|T|U|V|W|X|Y|Z|0-9

Browse by subject
☐ Physical Sciences and Engineering

- Chemical Engineering
- Chemistry
- Computer Science
- Earth and Planetary Sciences
- Energy
- Engineering
- Materials Science
- Mathematics
- Physics and Astronomy

☐ Life Sciences

- Agricultural and Biological Sciences
- Biochemistry, Genetics and Molecular Biology
- Environmental Science
- Immunology and Microbiology
- Neuroscience

☐ Health Sciences

- Medicine and Dentistry
- Nursing and Health Professions
- Pharmacology, Toxicology and...

New update!

TOP 25 Hottest Articles
Select your interest

[all subject areas]

Browse TOP 25 archive
Current

Quick Links

Favorite Journals / Books
Manage Favorites

You need to be **logged in** to customize and use Favorite Journals/Books.

Quick Links in ScienceDirect

- Alerts
- Top-25 articles in my subject area
- ScienceDirect Info site

Quick Links on the Web

- Add to my Quick Links
- Submit an article

Browse by title

A|B|C|D|E|F|G|H|I|J|K|L|M
N|O|P|Q|R|S|T|U|V|W|X|Y|Z|0-9

Browse by subject

- Physical Sciences and Engineering
 - Chemical Engineering
 - Chemistry
 - Computer Science
 - Earth and Planetary Sciences
 - Energy
 - Engineering
 - Materials Science
 - Mathematics
 - Physics and Astronomy
- Life Sciences
 - Agricultural and Biological Sciences
 - Biochemistry, Genetics and Molecular Biology
 - Environmental Science
 - Immunology and Microbiology
 - Neuroscience
- Health Sciences
 - Medicine and Dentistry
 - Nursing and Health Professions
 - Pharmacology, Toxicology and

New update!

TOP 25 Hottest Articles
Select your interest

[all subject areas] **Browse TOP 25 archive** Current

Quick Links

Favorite Journals / Books



You need to be **logged in** to customize and use Favorite Journals/Books.

Quick Links in ScienceDirect

- Alerts
- Top-25 articles in my subject area
- ScienceDirect Info site

Quick Links on the Web



-  [Add to my Quick Links](#)
-  [Submit an article](#)

57 articles found for: AUTHORS(Wolffsohn) Save this search Save as search alert

= Full-text available = Abstract only

<div>Search within results</div> <div></div> <div>Search</div>	<div><div> Purchase Export citations Open all previews</div></div>
<div>1 Image Enhancement of Real-Time Television to Benefit the Visually Impaired <small>Original Research Article</small> <i>American Journal of Ophthalmology</i>, Volume 144, Issue 3, September 2007, Pages 436-440 e1 James S. Wolffsohn, Ditipriya Mukhopadhyay, Martin Rubinstein Show preview Related articles Related reference work articles</div>	
<div>2 Chapter 14 - Electronic vision enhancement systems <i>Low Vision Manual</i>, 2007, Pages 257-272 James S. Wolffsohn Show preview Related articles Related reference work articles</div>	
<div>3 Development of a questionnaire to assess the relative subjective benefits of presbyopia correction <small>Original Resea</small> <i>Journal of Cataract & Refractive Surgery</i>, Volume 38, Issue 1, January 2012, Pages 74-79 Phillip J. Buckhurst, James S. Wolffsohn, Navneet Gupta, Shehzad A. Naroo, Leon N. Davies, Sunil Shah Show preview Related articles Related reference work articles</div>	
<div>4 Preface <i>Ophthalmic Imaging</i>, 2008, Page xi James Wolffsohn Show preview Related articles Related reference work articles</div>	

Searching the Academic Literature

- Search Engine
 - Journal Website
 - Pub Med
 - Science Direct
 - CCLR Reference Sight <http://cclr.uwaterloo.ca/ReferenceSight/References.htm>
 - Web of Knowledge
 - Authors / repositories



Reference Search

Search Now

The **Reference Sight** reference database provides free access to a comprehensive database of current references relating to contact lenses, refractive surgery and external ocular disease.

Search #,0. references from 2296 refereed journals and professional periodicals, many of which are not listed by any other database. Full abstracts and links to e-text are included where possible, as well as links to publishers and reprint sites. References are updated daily.

Registration is not required to access this free resource, but provides site visitors with significantly more options.

Basic Features

- [Search the database](#)
- [Cross-reference your search by author, journal and keywords](#)

Search Now

Advanced Features (registration and sign-in required):

- [Personalized reference lists](#)
- [Historical list of previous searches](#)
- [Monitor and receive notification of reference updates](#)
- [Export references for use within documents or bibliographic software](#)

Sign In

Register




Reference Sight
 Publication Database

 NEW REFERENCES
 KEYWORD INDEX
 JOURNAL INDEX

 HELP
 CONTACT US
 SIGN IN

 wolffsohn

Reference List : Contains wolffsohn
 Page : 1 of 6
 References 1 to 10 of 56
 1 NEXT 3 4 5 6

 A review of non-pharmacological and pharmacological management of seasonal and perennial allergic conjunctivitis. Bilkhu, P.S. Wolffsohn, J.S. Naroo, S.A. Contact Lens and Anterior Eye 2012;35(1):9-16	Development of a questionnaire to assess the relative subjective benefits of presbyopia correction. Buckhurst, P.J. Wolffsohn, J.S. Gupta, N. Naroo, S.A. Davies, L.N. Shah, S. Journal Of Cataract And Refractive Surgery 2012;38(1):74-79
 Accommodative amplitude required for sustained near work. Wolffsohn, J.S. Sheppard, A.L. Vakani, S. Davies, L.N. Ophthalmic & Physiological Optics 2011;31(5):480-486	The influence of corneoscleral topography on soft contact lens fit. Hall, L.A. Young, G. Wolffsohn, J.S. Riley, C. Investigative Ophthalmology & Visual Science 2011;52(9):6801-6806
 Role of contact lenses in relieving ocular allergy. Wolffsohn, J.S. Emberlin, J.C. Contact Lens and Anterior Eye 2011;34(4):169-172	A novel, dynamic, in vivo, non-contact method of measuring oxygen depletion rate of the anterior eye. Cardall, M. Naroo, S.A. Wolffsohn, J.S. Contact Lens and Anterior Eye 2011;34(3):121-127
 Clinical evaluation of the Softec HD aberration-free aspheric intraocular lens. Craig, J.P. Shah, S. Wolffsohn, J.S. Clinical & Experimental Ophthalmology 2011;39(3):281-283	

Searching the Academic Literature

- Search Engine
 - Journal Website
 - Pub Med
 - Science Direct
 - CCLR Reference Sight <http://cclr.uwaterloo.ca/ReferenceSight/References.htm>
 - Web of Knowledge
 - Authors / repositories

WEB OF KNOWLEDGESM

DISCOVERY STARTS HERE

Go to mobile site

Sign In | Marked List (0) | My EndNote Web | My ResearcherID

All Databases

Select a Database

Web of Science

Additional Resources

Search

Search History

Compound Marked List (0)

All Databases

Search

<input type="text"/>	in	<input type="text"/>
Example: oil spill* mediterranean		
<input type="text"/>	in	<input type="text"/>
Example: wolffsohn		
<input type="text"/>	in	<input type="text"/>
Example: O'Brian C* OR OBrian C*		
<input type="text"/>	in	<input type="text"/>
Example: Cancer* OR Journal of Cancer Research and Clinical Oncology		

Add Another Field >>

Search

Clear

Searches must be in English

Current Limits: (To save these permanently, sign in or register.)

NOTICE: Your organization does not receive data updates to the following database(s): BIOSIS Previews.
(See the Select a Database tab or help for more information.)

Timespan

All Years

From 1000 to 2017 (default is all years)

All Databases Select a Database Web of Science Additional Resources

Search Search History Compound Marked List (0)

All Databases

Results Author=(wolffsohn)

Timespan=All Years.

Search language=English Lemmatization=On

NOTICE: Your organization does not receive data updates to the following database(s): BIOSIS Previews.
(See the Select a Database tab or help for more information.)

Results: 144

Page 1 of 15 Go

Refine Results

Search within results for

Search

Databases

General Categories

SCIENCE TECHNOLOGY

SOCIAL SCIENCES

ARTS HUMANITIES

Subject Areas

OPHTHALMOLOGY

NEUROSCIENCES NEUROLOGY

GERIATRICS GERONTOLOGY

PSYCHOLOGY

SURGERY

more options / values...

Document Types

Authors

Save to: EndNote Web EndNote ResearcherID more options

- ☐ 1. Title: **A review of non-pharmacological and pharmacological management of seasonal and perenni**
Author(s): Bilkhu Paramdeep S; **Wolffsohn** James S; Naroo Shehzad A
Source: Contact lens & anterior eye : the journal of the British Contact Lens Association Volume: 35 Issue: 1 P
Times Cited: 0 (from All Databases)
Find it @ Aston [View abstract]
- ☐ 2. Title: **How Effective is Low Vision Service Provision? A Systematic Review**
Author(s): Binns Alison M.; Bunce Catey; Dickinson Chris; et al.
Source: SURVEY OF OPHTHALMOLOGY Volume: 57 Issue: 1 Pages: 34-65 DOI: 10.1016/j.survophthal.20
Times Cited: 0 (from All Databases)
Find it @ Aston [View abstract]
- ☐ 3. Title: **Development of a questionnaire to assess the relative subjective benefits of presbyopia cor**
Author(s): Buckhurst Phillip J.; **Wolffsohn** James S.; Gupta Navneet; et al.
Source: JOURNAL OF CATARACT AND REFRACTIVE SURGERY Volume: 38 Issue: 1 Pages: 74-79 DOI: 1
Times Cited: 0 (from All Databases)
Find it @ Aston [View abstract]
- ☐ 4. Title: **Accommodative amplitude required for sustained near work**

A review of non-pharmacological and pharmacological management of seasonal and perennial allergic conjunctivitis

Paramdeep S. Bilkhu, James S. Wolffsohn, Shehzad A. Naroo

Ophthalmic Research Group, School of Life and Health Sciences, Aston University, Aston Triangle, Birmingham B4 7ET, UK

published online 19 September 2011

Abstract Full Text PDF References

Abstract

Allergic eye disease encompasses a group of hypersensitivity disorders which primarily affect the conjunctiva and its prevalence is increasing. It is estimated to affect 8% of patients attending optometric practice but is poorly managed and rarely involves ophthalmic assessment. Seasonal allergic conjunctivitis (SAC) is the most common form of allergic eye disease (90%), followed by perennial allergic conjunctivitis (PAC; 5%). Both are type 1 IgE mediated hypersensitivity reactions where mast cells play an important role in pathophysiology. The signs and symptoms are similar but SAC occurs periodically whereas PAC occurs year round. Despite being a relatively mild condition, the effects on the quality of life can be profound and therefore they demand attention. Primary management of SAC and PAC involves avoidance strategies depending on the responsible allergen(s) to prevent the hypersensitivity reaction. Cooled tear supplements and cold compresses may help bring relief.

Article Tools

- Email Abstract
- Add to My Reading List
- Rights/Permissions
- Request Reprints
- Related Articles
- (0) Cited in Scopus
- Export Citation
- Create Citation Alert

Searching the Academic Literature

- Search Engine
 - Journal Website
 - Pub Med
 - Science Direct
 - CCLR Reference Sight <http://cclr.uwaterloo.ca/ReferenceSight/References.htm>
 - Web of Knowledge
 - Authors / repositories

Search

Wolffsohn, James S W - Outlo...

Welcome to Aston Universit...

ToolsHelp



Aston University
Birmingham



Site A-ZContact usDirections

Search this site

Go

Home

Study at Aston

About Aston

Departments

Birmingham

Research

Business Services

News & Events

Login

Create Account

Search EPrints

Aston University Research Archive
About
Takedown Policy
Browse
What's new
Aston Staff
Visitors
Contact us

Welcome to Aston University Research Archive



Welcome to Aston University Research Archive.

AtomRSS 1.0RSS 2.0

[Latest Additions](#)

View items added to the repository in the past week.

[Search Repository](#)

Search the repository using a full range of fields. Use the search field at the top of the page for a quick search.

[Browse Repository](#)

Browse the items in the repository.

Search this site

Go

Site A-Z

Contact us

Directions

Study at Aston

About Aston

Departments

Birmingham

Research

Business Services

News & Events

Home

Log in

Create Account

Wolffsohn, James S W - Outlo...

Item matches "Wolffsohn" ...

Search EPrints

Aston University
Birmingham



Aston University Research
Archive

About

Takedown Policy

Browse

What's new

Aston Staff

Visitors

Contact us

Item matches "Wolffsohn"

Displaying results 1 to 20 of 24.

Refine search

New search

1

2

Next

Order the results:

by year (most recent first)

Reorder

Export 24 results as

ASCII Citation


Export

RSS 2.0


RSS 1.0

Atom


1. Patel, Hetal (2011). *Biomechanical aspects of the anterior segment in human myopia*. PhD thesis, UNSPECIFIED.




2. Armstrong, Richard A.; Davies, Leon N.; Dunne, Mark C.M. and Gilmartin, Bernard (2011). *Statistical guidelines for clinical studies of human vision. Ophthalmic and Physiological Optics*, 31 (2), pp. 123-136.



3. Sheppard, A.L. (2010). *IN VIVO analysis of ocular morphological changes during phakic accommodation*. PhD thesis, UNSPECIFIED.



4. Nagra, Manbir K. (2010). *Myopia: structural and functional correlates*. PhD thesis, UNSPECIFIED.



Study at Aston

► Undergraduate

► Postgraduate

► Graduate employability

► International applications

► Professional Development



Open Days & visits



Order a prospectus



Student profile

Ola: MA Applied Linguistics
Settling down and making new friends was very easy. Welcome Week helped me see Aston not only as a study and research focused institution, but also a fun place to be.

read more...



Asymmetrical leaders

Services: A manufacturing renaissance?

Postgraduate study opportunities

Placement years at Aston University

Tuition fees for our highly regarded placement year are £1,000...
...and most students are paid a salary

News



► Wilson Review praises Aston University



► The importance of spelling and grammar for graduates



► Weight loss programme tackles obesity in Birmingham



Find an expert



more news ►

Professor James Wolffsohn

Deputy Executive Dean

School of Life and Health Sciences
Aston University
Birmingham B4 7ET
UK

email: j.s.w.wolffsohn@aston.ac.uk
telephone: +44 (0) 121 204 4140
fax: +44 (0) 121 204 4048



[Member of the Undergraduate Optometry Programme](#)

Member of the Ophthalmic Research Group

Member of research strand: 'Development of novel drugs, formulations and tissues to support healthy ageing' - [Aston Research Centre for Healthy Ageing](#)

Life & Health Sciences
Staff directory
A-Z Index
Prof Stephen J Anderson
Dr Richard Armstrong
Dr Eduard Badarau
Dr Raj K. Singh Badhan
Prof Clifford J Bailey
Dr Daniel Baker
Dr Zita Balklava
Dr Dev Banerjee
Dr Gareth Barnes
Dr Hannah Bartlett
Ms Dawn Belcher
Dr Srikanth Bellary
Dr Roslyn M Bill
Dr Alexis Boukouvalas
Dr Luc Boutsen
Dr Julia Y Brown
Dr Joseph Bush
Prof Adrian Burgess
Mrs Amanda Casey

Searching the Academic Literature

- Search Engine
 - Journal Website
 - Pub Med
 - Science Direct
 - CCLR Reference Sight <http://cclr.uwaterloo.ca/ReferenceSight/References.htm>
 - Web of Knowledge
 - Authors / repositories

Search Strategy

- Key words
- Unambiguous
- Wildcard
- Review abstracts
- Select
- More from references cited

Display Settings: Summary, 20 per page, Sorted by Recently Added

Send to:

See [gdf5 \(CONTACT\) growth differentiation factor 5 in the Gene database](#)

Results: 1 to 20 of 11963

<< First < Prev Page 1 of 599 Next > Last >>

☐ [Colored Cosmetic Contact Lenses: An Unsafe Trend in the Younger Generation.](#)

1. Singh S, Satani D, Patel A, Vhankade R. Cornea. 2012 Feb 28. [Epub ahead of print] PMID: 22378117 [PubMed - as supplied by publisher] [Related citations](#)

☐ [Contact Lens Materials, Mucin Fragmentation and Relation to Symptoms.](#)

2. Berry M, Purslow C, Murphy PJ, Pult H. Cornea. 2012 Feb 28. [Epub ahead of print] PMID: 22378108 [PubMed - as supplied by publisher] [Related citations](#)

☐ [Analysis of optical side-effects of fs-laser therapy in human presbyopic lens simulated with modified contact lenses.](#)

3. Peter M, Kammel R, Ackermann R, Schramm S, Seifert BU, Frey K, Blum M, Nolte S, Kunert KS. Graefes Arch Clin Exp Ophthalmol. 2012 Feb 29. [Epub ahead of print] PMID: 22371023 [PubMed - as supplied by publisher] [Related citations](#)

☐ [Fluid-Filled Scleral Contact Lenses in Vernal Keratoconjunctivitis.](#)

4. Rathni VM, Sudharman Mandathara P, Vaddavalli PK, Dumpati S, Chakrabarti T, Sangwan VS. Eye Contact Lens. 2012 Feb 23. [Epub ahead of print]

Display Settings: Summary, 20 per page, Sorted by Recently Added

Send to:

See [gdf5 \(CONTACT\) growth differentiation factor 5 in the Gene database](#)

Results: 1 to 20 of 699

<< First < Prev Page 1 of 35 Next > Last >>

☐ [Corneal changes following short-term rigid contact lens wear.](#)

1. Tyagi G, Collins MJ, Read SA, Davis BA. Cont Lens Anterior Eye. 2012 Feb 21. [Epub ahead of print] PMID: 22361013 [PubMed - as supplied by publisher] [Related citations](#)

☐ [Nidek ConfoScan 4 \(Z-Ring\) Measurements Over Soft Contact Lenses.](#)

2. Chan KY, Cheung SW, Cho P. Eye Contact Lens. 2012 Mar;38(2):80-5. PMID: 22356833 [PubMed - in process] [Related citations](#)

☐ [Composition of incubation solution impacts in vitro protein uptake to silicone hydrogel contact lenses.](#)

3. Jodi S, Heynen M, Luensmann D, Jones L. Mol Vis. 2012;18:337-47. Epub 2012 Feb 4. PMID: 22355245 [PubMed - in process] [Free PMC Article](#) [Related citations](#)

☐ [Drug delivery by contact lens in spontaneously glaucomatous dogs.](#)

4. Peng CC, Ben-Shlomo A, Mackay EO, Plummer CE, Chauhan A. Curr Eye Res. 2012 Mar;37(3):204-11.

PubMed Advanced Search Builder

(contact lenses) AND silicone

Edit

Builder

All Fields

contact lenses

AND

All Fields

silicone

AND

All Fields

Search or Add to history

History

Search	Add to builder	Query
#1	Add	Search Wolffsohn[Author]

PubMed Advanced Search Builder

(contact lenses) AND silicone[Title]

Edit

Builder

All Fields

AND

Title

contact lenses

All Fields

AND

silicone

Search or Add to history

History

Search	Add to builder	Query
#1	Add	Search Wolffsohn[Author]

☐ [Composition of incubation solution impacts in vitro protein uptake to silicone hydrogel contact lenses.](#)

1. Jodi S, Heynen M, Luensmann D, Jones L.
Mol Vis. 2012;18:337-47. Epub 2012 Feb 4.
PMID: 22355245 [PubMed - in process] [Free PMC Article](#)
[Related citations](#)

☐ [Clinical benefits of a new multipurpose disinfecting solution in silicone hydrogel and soft contact lens users.](#)

2. Campbell R, Kame G, Leach N, Paul M, White E, Zigler L.
Eye Contact Lens. 2012 Mar;38(2):93-101.
PMID: 22297841 [PubMed - in process]
[Related citations](#)

☐ [Effect of Prophylactic Antibiotic Drops on Ocular Microbiota and Physiology during Silicone Hydrogel Lens Wear.](#)

3. Ozkan J, Zhu H, Gabriel M, Holden BA, Willcox MD.
Optom Vis Sci. 2012 Mar;89(3):326-35.
PMID: 22246331 [PubMed - in process]
[Related citations](#)

☐ [Comparison of ocular comfort, vision, and SICS during silicone hydrogel contact lens daily wear.](#)

4. Diec J, Evans VE, Tilia D, Naduvilath T, Holden BA, Lazon de la Jara P.
Eye Contact Lens. 2012 Jan;38(1):2-6.
PMID: 22169881 [PubMed - indexed for MEDLINE]
[Related citations](#)

PubMed Advanced Search Builder

((contact lenses) AND silicone) AND dry eye*

Edit

Builder

All Fields

contact lenses

AND

All Fields

silicone

AND

All Fields

dry eye*

AND

All Fields

Search or Add to history

Use up and down arrows to choose an item from the autocomplete.

History

Search	Add to builder	Query
#1	Add	Search Wolffsohn[Author]

Display Settings: [X] Abstract

Send to: [v]

Eye Contact Lens. 2012 Jan;38(1):2-6.

Comparison of ocular comfort, vision, and SICS during silicone hydrogel contact lens daily wear.

Diec J, Evans VE, Tilia D, Naduvilath I, Holden BA, Lazon de la Jara P.

Brien Holden Vision Institute, Sydney, NSW, Australia. j.diec@brienholdenvision.org

Abstract

OBJECTIVES: The aim of this study was to investigate the relationship between solution-induced corneal staining (SICS) and silicone hydrogel contact lens comfort and vision.

METHODS: A retrospective analysis of a series of open-label studies were conducted with 24 groups of approximately 40 participants, each wearing 1 of 6 silicone hydrogel contact lenses with 1 of 4 lens care products bilaterally for 3 months of daily wear. The presence of SICS and subjective ocular ratings were collected at 2 weeks and at 1 and 3 months.

RESULTS: A total of 1,051 participants were enrolled. The participants with SICS rated significantly less favorably than did the participants without SICS for comfort during the day (7.9 ± 1.7 vs. 8.5 ± 1.4 , $P=0.03$), comfort at the end of the day (6.6 ± 2.1 vs. 7.4 ± 1.9 , $P=0.03$), overall dryness (7.4 ± 1.9 vs. 8.0 ± 1.7 , $P=0.04$), dryness at the end of the day (6.7 ± 2.2 vs. 7.5 ± 2.1 , $P=0.01$), feelings of burning and stinging (8.5 ± 2.0 vs. 8.9 ± 1.8 , $P=0.02$), and overall vision (8.2 ± 1.6 vs. 8.7 ± 1.3 , $P<0.001$).

CONCLUSIONS: The participants with SICS had lower subjective comfort and vision compared with those who did not experience SICS.

PMID: 22169881 [PubMed - indexed for MEDLINE]

[+ Publication Types, MeSH Terms, Substances](#)

[+ LinkOut - more resources](#)

Evaluating the Research

- Review
- Quantitative – measuring
- Qualitative – exploring, describing, explaining
- *In vivo* / *In vitro*
- Bilateral / Contralateral
- Sample size
- Population
- Randomised controlled trial
- Masked
- Independence

Evaluating clinical research for your practice



Marketing fluff or scientific stuff? **Jane Veys** and **Dr Cristina Schnider** provide a guide to the essential elements of clinical research and how to critically evaluate study results

As consumers, we're used to marketing claims for all manner of consumer products: the food that 'tights out of 10 owners say their cats prefer' or the beer that 'refreshes the parts other beers can't reach'. But in our professional lives, we expect to see more substantial evidence to back up claims for new healthcare products and treatments. The move towards evidence-based medicine means that healthcare professionals increasingly

Parallel group
Each subject receives only one CI type

Types:

- Group comparison: two test group and control group
- Matched pairs: each subject is matched by stated criteria with another subject. One receives test and the other control

Pros:

- Simple and easy to implement
- Less complicated analysis

Crossover
Each subject receives more than one CI type over different periods

Types:

- Simple crossover: 2 CI, 2 period 2 sequence (A/B or B/A)
- Higher order
- Subject's optimum
- 2 period (A/B, B/A, A/B, B/A)
- Other higher order sum

be 'To see if the addition of a feature influences an aspect of performance in a particular patient group'.

- The hypotheses are the individual questions that the study seeks to answer. These should be carefully selected based on prior research, very clearly defined, stated prior to the start of the study and not changed once the protocol has been finalised. An example of a study hypothesis might be 'That the addition of a feature

Checklist for clinical studies

1	What is the study objective and hypotheses?
2	Is the study design and randomisation appropriate?
3	Have all variables been controlled?
4	Are subjects/investigators unbiased/masked & trained?
5	Has an appropriate number of subjects been used?
6	Has multiple testing occurred and been adjusted for?
7	Are performance differences meaningful?
8	Are the conclusions relevant and accurate based on the results?
9	Are the recommendations appropriate?
10	Have the data been published and where?

Questions

Some thorny practice ‘every-day’ questions

- What is the safest type of contact lenses to wear
- Is a lens which claims a higher oxygen permeability than another worth the extra expense?
- I have hayfever – will this prevent me from wearing contact lenses
- Can I swim/shower in contact lenses
- Which lenses give the best all day comfort?

Questions

Some thorny practice ‘every-day’ questions

- What is the safest type of contact lenses to wear
- Is a lens which claims a higher oxygen permeability than another worth the extra expense?
- I have hayfever – will this prevent me from wearing contact lenses
- Can I swim/shower in contact lenses
- Which lenses give the best all day comfort?

Display Settings: [X] Summary, 20 per page, Sorted by Recently Added

Send to: [X]

See [gdf5 \(CONTACT\) growth differentiation factor 5 in the Gene database](#)

Results: 11

☐ [A survey of UK practitioner attitudes to the fitting of rigid gas permeable lenses.](#)

1. Gill FR, Murphy PJ, Purslow C.
Ophthalmic Physiol Opt. 2010 Nov;30(6):731-9. doi: 10.1111/j.1475-1313.2010.00790.x.
PMID: 21205258 [PubMed - indexed for MEDLINE]
[Related citations](#)

☐ [The role of contact lens type, oxygen transmission, and care-related solutions in mediating epithelial homeostasis and](#)

2. [pseudomonas binding to corneal cells: an overview.](#)
Robertson DM, Petroll WM, Jester JV, Cavanagh HD.
Eye Contact Lens. 2007 Nov;33(6 Pt 2):394-8; discussion 399-400. Review.
PMID: 17975430 [PubMed - indexed for MEDLINE]
[Related citations](#)

☐ [Infectious keratitis: what have we learned?](#)

3. Levy B.
Eye Contact Lens. 2007 Nov;33(6 Pt 2):418-20; discussion 424-5. Review.
PMID: 17975437 [PubMed - indexed for MEDLINE]
[Related citations](#)

☐ [Diagnosis and management of Acanthamoeba keratitis.](#)

4. Hammersmith KM.

Help

☐ [Diagnosis and management of Acanthamoeba keratitis.](#)

4. Hammersmith KM.

Curr Opin Ophthalmol. 2008 Aug;17(4):327-31. Review.

PMID: 18900022 [PubMed - indexed for MEDLINE]

[Related citations](#)

☐ [Eye banking error: report of a donor cornea with a soft contact lens left in place.](#)

5. Ehrenhaus MP, Schanzlin DJ, Weissman L, Grasso C.

Cornea. 2008 Apr;25(3):359-60.

PMID: 18833041 [PubMed - indexed for MEDLINE]

[Related citations](#)

☐ [\[Refractive surgery with excimer laser\].](#)

6. Pérez Galán RJ.

Rev Enferm. 2002 Jul-Aug;25(7-8):58-64. Spanish.

PMID: 14508959 [PubMed - indexed for MEDLINE]

[Related citations](#)

☐ [A survey of contact lens wear among diabetic patients in the United Kingdom.](#)

7. Veys J, Efron N, Boulton A.

Cont Lens Anterior Eye. 1997;20 Suppl 1:S27-33.

PMID: 16303365 [PubMed]

[Related citations](#)

☐ [The correction of high myopia.](#)

8. Choyce DP.

Refract Corneal Surg. 1992 May-Jun;8(3):242-5. Review.

PMID: 1633149 [PubMed - indexed for MEDLINE]

[Related citations](#)

☐ [Intraocular lenses versus extended-wear contact lenses in aphakic rehabilitation. A controlled clinical study.](#)

9. Bernth-Petersen P, Sørensen T.

Acta Ophthalmol (Copenh). 1983 Jun;61(3):382-91.

PMID: 6353842 [PubMed - indexed for MEDLINE]

[Related citations](#)

☐ [Posterior lens capsulectomy during primary cataract surgery in children.](#)

10. Parks MM.

Ophthalmology. 1983 Apr;90(4):344-5.

PMID: 6877769 [PubMed - indexed for MEDLINE]

[Related citations](#)

☐ [Recent advances in cataract operations—phacoemulsification, intraocular lens implantation and prolonged-wear soft contact lenses.](#)

11. Salz JJ.

West J Med. 1981 Apr;134(4):260-5.

PMID: 7245734 [PubMed - indexed for MEDLINE]

Free PMC Article

Search

See more...

Recent activity

(contact lenses) AND safest (11)

Turn Off Clear

PubMed

Comparison of ocular comfort, vision, and SiCS during silicone hydrogel contact

PubMed

((contact lenses) AND silicone) AND dry eye* (37)

PubMed

(contact lenses) AND silicone[Title] (300)

PubMed

(contact lenses) AND silicone (689)

PubMed

See more...

PubMed Advanced Search Builder

((contact lenses) AND risk) AND microbial keratitis

Edit

Builder

All Fields	▼	contact lenses	⊖
AND	▼	All Fields	▼
		risk	⊖
AND	▼	All Fields	▼
		microbial keratitis	⊖
AND	▼	All Fields	▼
			⊖

Search or Add to history

History

Search	Add to builder	Query
#1	Add	Search Wolffsohn[Author]

Display Settings: [X] Summary, 20 per page, Sorted by Recently Added

Send to: [X]

See [gdf5 \(CONTACT\) growth differentiation factor 5 in the Gene database](#)

Results: 1 to 20 of 119

<< First < Prev Page 1 of 6 Next > Last >>

☐ [Contact lens complications in an urgent-care population: the University of California, Los Angeles, contact lens study.](#)

1. Lee SY, Kim YH, Johnson D, Mondino BJ, Weissman BA. Eye Contact Lens. 2012 Jan;38(1):49-52. PMID: 22157395 [PubMed - indexed for MEDLINE] [Related citations](#)

☐ [Contact lens-related microbial keratitis: how have epidemiology and genetics helped us with pathogenesis and prophylaxis.](#)

2. Stapleton F, Carnt N. Eye (Lond). 2012 Feb;26(2):185-93. doi: 10.1038/eye.2011.288. Epub 2011 Dec 2. PMID: 22134592 [PubMed - in process] [Related citations](#)

☐ [An international analysis of contact lens compliance.](#)

3. Morgan PB, Efron N, Toshida H, Nichols JJ. Cont Lens Anterior Eye. 2011 Oct;34(5):223-8. doi: 10.1016/j.clae.2011.08.001. Epub 2011 Aug 24. PMID: 21868279 [PubMed - indexed for MEDLINE] [Related citations](#)

☐ [Impact of lens case hygiene guidelines on contact lens case contamination.](#)

4. Wu YT, Teng YJ, Nicholas M, Harmis N, Zhu H, Willcox MD, Stapleton F. Optom Vis Sci. 2011 Oct;88(10):E1180-7.

PubMed Advanced Search Builder

(((contact lenses) AND risk) AND microbial keratitis) AND RGP

Edit

Builder

All Fields

AND

All Fields

AND

All Fields

AND

All Fields

AND

All Fields

contact lenses

risk

microbial keratitis

RGP

Search or Add to history

History

Search	Add to builder	Query
#1	Add	Search Wolffsohn[Author]

Display Settings: Summary, Sorted by Recently Added

Send to:

See Gene information for contact rgp

contact in [Danio rerio](#) | [1 Gene record](#)

rgp in [Streptococcus gordonii](#) str. Challis substr. CH1 | [Triticum aestivum](#) | [Zea mays](#) | [All 4 Gene records](#)

Results: 2

☐ [Risk factors with contact lens related suppurative keratitis.](#)

1. Stapleton F, Dart JK, Minassian D.

CLAO J. 1993 Oct;19(4):204-10.

PMID: 8261602 [PubMed - indexed for MEDLINE]

[Related citations](#)

☐ [A review of relative risks associated with four types of contact lenses.](#)

2. Bailey CS.

Cornea. 1990;9 Suppl 1:S59-61; discussion S62-3.

PMID: 2347200 [PubMed - indexed for MEDLINE]

[Related citations](#)

Questions

Some thorny practice ‘every-day’ questions

- What is the safest type of contact lenses to wear
- Is a lens which claims a higher oxygen permeability than another worth the extra expense?
- I have hayfever – will this prevent me from wearing contact lenses
- Can I swim/shower in contact lenses
- Which lenses give the best all day comfort?

Display Settings: Summary, 20 per page, Sorted by Recently Added

Send to:

See [gdf5 \(CONTACT\) growth differentiation factor 5 in the Gene database](#)

Results: 1 to 20 of 84

<< First < Prev Page 1 of 5 Next > Last >>

☐ [High Dk piggyback contact lens system for contact lens-intolerant keratoconus patients.](#)

1. Sengor T, Kurna SA, Aki S, Ozkurt Y.
Clin Ophthalmol. 2011;5:331-5. Epub 2011 Mar 3.
PMID: 21468342 [PubMed] [Free PMC Article](#)
[Related citations](#)

☐ [Ocular surface health during 30-day continuous wear: rigid gas-permeable versus silicone hydrogel hyper-O2 transmitted contact lenses.](#)

2. Lin MC, Yeh TN, Graham AD, Truong T, Hsiao C, Wei G, Louie A.
Invest Ophthalmol Vis Sci. 2011 Jun 1;52(6):3530-8. Print 2011 May.
PMID: 21310906 [PubMed - indexed for MEDLINE]
[Related citations](#)

☐ [Synthesis and properties of siloxane-containing hybrid hydrogels: optical transmittance, oxygen permeability and equilibrium water content.](#)

3. Song M, Shin YH, Kwon Y.
J Nanosci Nanotechnol. 2010 Oct;10(10):6934-8.
PMID: 21137828 [PubMed - indexed for MEDLINE]
[Related citations](#)

☐ [Corneal epithelial cell biocompatibility to silicone hydrogel and conventional hydrogel contact lens packaging solutions.](#)

See [gdf5 \(CONTACT\) growth differentiation factor 5 in the Gene database](#)

Results: 14

☐ Central and peripheral **oxygen** transmissibility thresholds to avoid corneal swelling during open eye soft **contact** lens wear.

1. Morgan PB, Brennan NA, Maldonado-Codina C, Quhill W, Rashid K, Efron N.

J Biomed Mater Res B Appl Biomater. 2010 Feb;92(2):361-5.

PMID: 19904816 [PubMed - indexed for MEDLINE]

[Related citations](#)

☐ The impact of **silicone** hydrogel materials on overnight corneal swelling.

2. Steffen RB, Schnider CM.

Eye Contact Lens. 2007 May;33(3):115-20.

PMID: 17502744 [PubMed - indexed for MEDLINE]

[Related citations](#)

☐ A review of the Holden-Mertz criteria for critical **oxygen** transmission.

3. Fonn D, Bruce AS.

Eye Contact Lens. 2005 Nov;31(6):247-51. Review.

PMID: 16284501 [PubMed - indexed for MEDLINE]

[Related citations](#)

☐ Will higher-Dk materials give better corneal refractive therapy results and fewer complications?

4. Sakamoto R, Sugimoto K.

Eye Contact Lens. 2004 Oct;30(4):252-3; discussion 263-4.

Display Settings: Summary, 20 per page, Sorted by Recently Added

Send to:

See [gdf5 \(CONTACT\) growth differentiation factor 5 in the Gene database](#)

Results: 13

☐ [\[The meaning of oxygen permeability in different materials for optimization of contact lenses function\].](#)

1. Grzech A, Misiuk-Hojto M.

Polim Med. 2007;37(3):67-71. Review. Polish.

PMID: 18251206 [PubMed - indexed for MEDLINE]

[Related citations](#)

☐ [Corneal oxygen distribution with contact lens wear.](#)

2. Alvord LA, Hall WJ, Keyes LD, Morgan CF, Winterton LC.

Cornea. 2007 Jul;26(6):654-64.

PMID: 17592312 [PubMed - indexed for MEDLINE]

[Related citations](#)

☐ [Biological oxygen apparent transmissibility of hydrogel contact lenses with and without organosilicon moieties.](#)

3. Compañ V, López-Aleman A, Riande E, Refojo MF.

Biomaterials. 2004 Jan;25(2):359-65.

PMID: 14585724 [PubMed - indexed for MEDLINE]

[Related citations](#)

☐ [A model of oxygen flux through contact lenses.](#)

4. Brennan NA.

Cornea. 2001 Jan;20(1):104-8.

Questions

Some thorny practice ‘every-day’ questions

- What is the safest type of contact lenses to wear
- Is a lens which claims a higher oxygen permeability than another worth the extra expense?
- I have hayfever – will this prevent me from wearing contact lenses
- Can I swim/shower in contact lenses
- Which lenses give the best all day comfort?

Display Settings: [X] Summary, 20 per page, Sorted by Recently Added

Send to: [X]

See [gdf5 \(CONTACT\) growth differentiation factor 5 in the Gene database](#)

Results: 12

☐ [\[Different clinical forms of conjunctival allergy\]](#)

1. Creuzot-Garcher C.
J Fr Ophtalmol. 2007 Mar;30(3):288-91. Review. French.
PMID: 17417156 [PubMed - indexed for MEDLINE] [Free Article](#)
[Related citations](#)

- ☐ [The Dundee University Scottish Keratoconus study: demographics, corneal signs, associated diseases, and eye rubbing.](#)
2. Weed KH, MacEwen CJ, Giles T, Low J, McGhee CN.
Eye (Lond). 2008 Apr;22(4):534-41. Epub 2007 Jan 19.
PMID: 17237755 [PubMed - indexed for MEDLINE]
[Related citations](#)

- ☐ [A review of olopatadine for the treatment of ocular allergy.](#)
3. Abelson MB.
Expert Opin Pharmacother. 2004 Sep;5(9):1979-94. Review.
PMID: 15330735 [PubMed - indexed for MEDLINE]
[Related citations](#)

- ☐ [Allergic eye disease--a clinical challenge.](#)
4. Buckley RJ.
Clin Exp Allergy. 1998 Dec;28 Suppl 6:39-43.

Display Settings: [X] Summary, 20 per page, Sorted by Recently Added

Send to: [X]

See [gdf5 \(CONTACT\) growth differentiation factor 5 in the Gene database](#)

Results: 1 to 20 of 253

<< First < Prev Page 1 of 13 Next > Last >>

☐ [Role of contact lenses in relieving ocular allergy.](#)

1. Wolffsohn JS, Emberlin JC.
Cont Lens Anterior Eye. 2011 Aug;34(4):169-72. Epub 2011 May 6.
PMID: 21530362 [PubMed - in process]
[Related citations](#)

☐ [Persistence of increased Eotaxin-1 \(CCL11\) level in tears of patients wearing contact lenses: a long-term follow-up study.](#)

2. Tran HV, Eperon S, Guex-Crosier Y.
Klin Monbl Augenheilkd. 2011 Apr;228(4):326-9. Epub 2011 Apr 11.
PMID: 21484639 [PubMed - indexed for MEDLINE]
[Related citations](#)

☐ [Patient information. Allergic conjunctivitis.](#)

3. [No authors listed]
Am Fam Physician. 2011 Feb 15;83(4):476. No abstract available.
PMID: 21322526 [PubMed - indexed for MEDLINE]
[Related citations](#)

☐ [A survey of contact lens complications in Singapore.](#)

4. Teo L, Lim L, Tan DT, Chan TK, Jap A, Ming LH.
Eye Contact Lens. 2011 Jan;37(1):16-9.

Questions

Some thorny practice ‘every-day’ questions

- What is the safest type of contact lenses to wear
- Is a lens which claims a higher oxygen permeability than another worth the extra expense?
- I have hayfever – will this prevent me from wearing contact lenses
- Can I swim/shower in contact lenses
- Which lenses give the best all day comfort?

See the search details.

No items found.

See [gdf5 \(CONTACT\) growth differentiation factor 5](#) in the **Gene database**

You are here: NCBI > Literature > PubMed

GETTING STARTED

NCBI Education
NCBI Help Manual
NCBI Handbook
Training & Tutorials

RESOURCES

Chemicals & Bioassays
Data & Software
DNA & RNA
Domains & Structures
Genes & Expression
Genetics & Medicine
Genomes & Maps

POPULAR

PubMed
Nucleotide
BLAST
PubMed Central
Gene
Bookshelf
Protein

FEATURED

GenBank
Reference Sequences
Map Viewer
Genome Projects
Human Genome
Mouse Genome
Influenza Virus

PubMed Advanced Search Builder

(contact lenses) AND swim*

Edit

Builder

All Fields

contact lenses

AND

All Fields

swim*

AND

All Fields

Search or Add to history

History

Search	Add to builder	Query
#1	Add	Search Wolffsohn[Author]

Display Settings: Summary, 20 per page, Sorted by Recently Added Send to:

See [gdf5 \(CONTACT\) growth differentiation factor 5 in the Gene database](#)

Results: 1 to 20 of 47

<< First < Prev Page 1 of 3 Next > Last >>

1. [\[Protocol on Water and Health \(UNECE and WHO\)\]](#)

Funari E.

Epidemiol Prev. 2011 Mar-Apr;35(2):71-2. Italian. No abstract available.

PMID: 21628746 [PubMed - indexed for MEDLINE]

[Related citations](#)

2. [Dynamics of flagellum- and pilus-mediated association of Pseudomonas aeruginosa with contact lens surfaces.](#)

Tran VB, Fleiszig SM, Evans DJ, Radke CJ.

Appl Environ Microbiol. 2011 Jun;77(11):3644-52. Epub 2011 Apr 15.

PMID: 21498762 [PubMed - indexed for MEDLINE] [Free PMC Article](#)

[Related citations](#)

3. [Cornea and contact lenses have our attention.](#)

Adams AJ.

Optom Vis Sci. 2011 Apr;88(4):453. No abstract available.

PMID: 21430500 [PubMed - indexed for MEDLINE]

[Related citations](#)

4. [Protozoa: Structure, Classification, Growth, and Development.](#)

Yaeger RG.

In: Baron S, editor. Medical Microbiology. 4th edition. Galveston (TX): University of Texas Medical Branch at Galveston; 1996. Chapter 77.

Display Settings: Summary, 20 per page, Sorted by Recently Added

Send to: ☒

Results: 9

☐ [Do swimming goggles limit microbial contamination of contact lenses?](#)

1. Wu YT, Tran J, Truong M, Harmis N, Zhu H, Stapleton F.

Optom Vis Sci. 2011 Apr;88(4):456-60.

PMID: 21297511 [PubMed - indexed for MEDLINE]

[Related citations](#)

☐ [Swimming with soft contact lenses: danger of acanthamoeba keratitis.](#)

2. Kaji Y, Hu B, Kawana K, Oshika T.

Lancet Infect Dis. 2005 Jun;5(6):392. No abstract available.

PMID: 15919625 [PubMed - indexed for MEDLINE]

[Related citations](#)

☐ [Bacterial populations on silicone hydrogel and hydrogel contact lenses after swimming in a chlorinated pool.](#)

3. Choo J, Vuu K, Bergenske P, Burnham K, Smythe J, Caroline P.

Optom Vis Sci. 2005 Feb;82(2):134-7.

PMID: 15711460 [PubMed - indexed for MEDLINE]

[Related citations](#)

☐ [Acanthamoeba of the Acanthamoeba species in swimming pools and lakes of the Lublin area and in people using contact lenses.](#)

4. Toczolowski J, Gierzyng H, Gierzyng R, Wróblewska E.

Klin Oczna. 2000;102(3):207-8. Polish.

PMID: 11126179 [PubMed - indexed for MEDLINE]

[Related citations](#)

Display Settings: Abstract

Send to: ☐

Optom Vis Sci. 2011 Apr;88(4):456-60.

Do swimming goggles limit microbial contamination of contact lenses?

Wu YT, Tran J, Truong M, Harmis N, Zhu H, Stapleton F.

Brien Holden Vision Institute, Sydney, New South Wales, Australia. y.wu@brienholdenvision.org.au

Abstract

PURPOSE: Wearing goggles over contact lenses while swimming is often recommended by eye care professionals. Limited data are available to assess this recommendation. The purpose of this study was to examine whether wearing goggles while swimming limits bacterial colonization on contact lenses and whether the type of lens worn affects contamination rates.

METHODS: Twenty-three subjects underwent two swimming sessions at an ocean (salt water) pool (Maroubra beach Rock Pool, Sydney, Australia). Silicone hydrogel (Ciba Focus Night and Day) or hydrogel lenses (Ciba Focus Daily) were inserted into subjects' eyes before 30 min of swimming sessions, and subjects used modified goggles to mimic goggled and non-goggled conditions. At the end of each session, lenses were collected for microbial investigation. Viable bacterial colonies were classified as gram positive and gram negative and enumerated. The level of bacterial colonization on contact lenses between goggled and non-goggled conditions and between the two lens materials were compared.

RESULTS: The range of colony forming units recovered from goggled lenses were 0 to 930 compared with 0 to 1210 on non-goggled lenses. The majority of subjects (16/23) had more microorganisms in the non-goggled condition than when wearing goggles ($p = 0.03$). Gram negative organisms were found in three non-goggled lenses. No significant difference was shown in the number of bacteria isolated from silicone hydrogel and hydrogel lenses ($p > 0.6$) irrespective of wearing goggles. Water samples had consistently higher numbers of bacterial counts than those adhered to the lenses; however, no association was found between the number of bacteria in the water sample and those found on the contact lenses.

CONCLUSIONS: Consistently, fewer bacterial colonies were found on the goggled contact lens, thus suggesting goggles offer some protection against bacterial colonization of contact lenses while swimming. These data would support the recommendation encouraging lens wearers to use goggles while swimming.

PMID: 21297511 [PubMed - indexed for MEDLINE]

+ Publication Types, MeSH Terms, Substances

Questions

Some thorny practice ‘every-day’ questions

- What is the safest type of contact lenses to wear
- Is a lens which claims a higher oxygen permeability than another worth the extra expense?
- I have hayfever – will this prevent me from wearing contact lenses
- Can I swim/shower in contact lenses
- Which lenses give the best all day comfort?

Display Settings: Summary, 20 per page, Sorted by Recently Added

Send to: ☒

See [gdf5 \(CONTACT\) growth differentiation factor 5 in the Gene database](#)

Results: 1 to 20 of 24

<< First < Prev Page 1 of 2 Next > Last >>

☐ Comparison of ocular **comfort**, vision, and SICS during silicone hydrogel **contact** lens daily wear.

1. Diec J, Evans VE, Tilia D, Naduvilath T, Holden BA, Lazon de la Jara P. **Eye Contact Lens**. 2012 Jan;38(1):2-6.

PMID: 22169881 [PubMed - indexed for MEDLINE]

[Related citations](#)

☐ **Comfort** and vision scores at insertion and removal during 1 month of wear of Paragon CRT for corneal reshaping.

2. González-Méjome JM, Carracedo G, González-Pérez J, Peral A, Jorge J, Peixoto-de-Matos SC. **Eye Contact Lens**. 2011 Sep;37(5):302-6.

PMID: 21808197 [PubMed - indexed for MEDLINE]

[Related citations](#)

☐ Randomised controlled study comparing **comfort**-related outcomes between two rigid gas permeable (RGP) **lenses** with different sessile drop **contact** angles.

3. Fortuin MF, Schilperoort J, Evans BJ, Edgar DF, Manon HM, Kiers H. **Ophthalmic Physiol Opt**. 2011 Mar;31(2):190-9. doi: 10.1111/j.1475-1313.2010.00812.x.

PMID: 21309806 [PubMed - indexed for MEDLINE]

[Related citations](#)

☐ Characterizing **contact** lens-related dryness symptoms in a cross-section of UK soft lens wearers.

4. Young G, Chalmers RL, Napier L, Hunt C, Kern J.

Questions

Some thorny practice ‘every-day’ questions

- What is the safest type of contact lenses to wear
- Is a lens which claims a higher oxygen permeability than another worth the extra expense?
- I have hayfever – will this prevent me from wearing contact lenses
- Can I swim/shower in contact lenses
- Which lenses give the best all day comfort?

Developing Research Evaluation Skills

- reading
- short courses
- Masters degree, PhD or professional doctorate
- iPRO

Cycles of Research Question Development

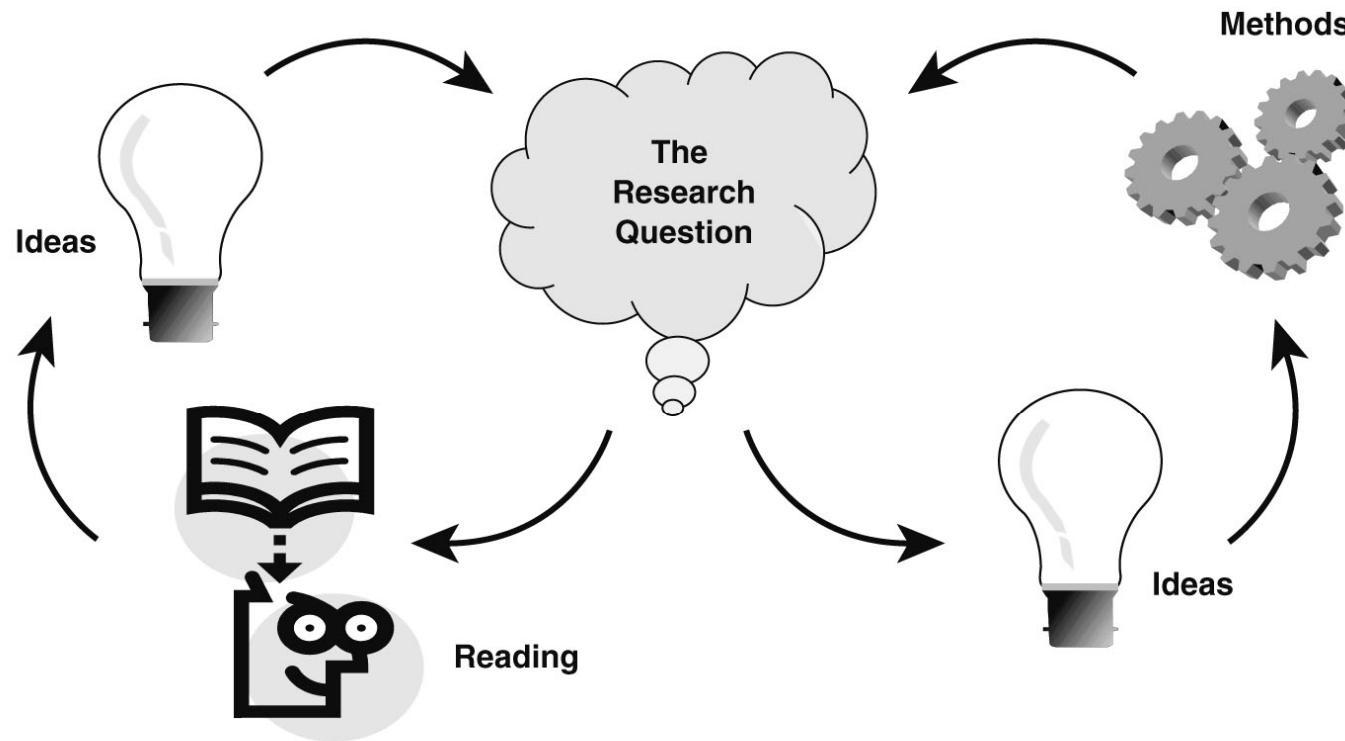


FIGURE 3.4 CYCLES OF RESEARCH QUESTION DEVELOPMENT

O'Leary, Z. (2004) *The Essential Guide to Doing Research*. London: Sage.
Chapter Three

OBJECTIVES

By the end of this workshop you should

- be able to conduct an appropriate history and symptoms to assess individual patient contact lens needs
- be able to perform a search of the research literature with appropriate search terms
- be able to use the information identified by the search to refine their clinical practice to enhance their contact lens management of patients

How to use Research evidence to Source appropriate Contact Lenses for your Patients

Prof James S Wolffsohn

Deputy Dean for Life and Health Sciences

BSc(Hons) PgCertHE PgDipAdvClinOptom MBA PhD MCOptom FHEA FSB FAAO FIACLE FBCLA