

Informatics Technology Helping Integration within the International Ophthalmology Communication In Developing Country Over 2 Decades.

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Abstract

I Objective: *To outline the effectiveness of informatics technology in integration within international medical communication in 2 fields:*

- *Publication of research papers of ophthalmology in the foreign medical journals*
- *Participate in the presenting ophthalmic research at the international specialist conferences.*

II. Methods :

• *The author reports the steps taken in using informatics technology in particular via the internet in the publication of the reviews, the researches of ophthalmology to medical journals, and participation of ophthalmic conferences around the world.*

- *Duration: From 2001 to 2020.*

III Results: *Before 2000 and 2001-2020: [1] [2] [3]*

- *11 research papers were presented in the international ophthalmology conferences in Geneva, Sydney, Barcelona, Las Vegas, Seoul, Tokyo, Taiwan, Singapore, Guangzhou and Hong Kong.*
- *39 research articles were published in the many journals in over the world.*

IV Discussion and conclusion:

The achievements of Informatics technology revolution or 4.0 revolutions have quickly helped all the people 'around the world sharing the information in the shortest time as well as lowest fee. From this reason, many medical researchers in developing countries have opportunities in inter-grating with the rest world in order to decrease the scientific technology gap gradually. This paper reported the author 'some results in published ophthalmic papers and participated in ophthalmic conferences in the world.

Keywords: *International ophthalmology conferences, international medical journals, using informatics technology, inter-grating global ophthalmic communication.*

I. Introduction:

- From the informatics technology industry was born, it can be said that the development boom on a global scale. It is called 4.0 revolutions. Many industries have been applied the results of this revolution to have evolved by leaps and bounds.
- Informatics technology has been used in medicine field such as diagnostic-treatment, prevention, scientific research, education, international cooperation, mentoring and management of hospital.
- Global integration in the field of science and technology is a government policy to contribute for sustainable development in the industrialization and modernization of the Vietnam country.

Through this article, by comparing before and after internet using, the effectiveness of informatics technology in medical integration –special in ophthalmology for publishing articles in the international medical journal and for presenting researches at the international ophthalmic conferences would be likely raised over 2 decades in developing country.

II. Methods :

The steps using informatics technology in particular via the Internet in the publication of the review, the research papers to journals and in the presentation of researches at the ophthalmic conferences around the world are reported. At first step of the beginning (before 2000) research papers after publication in our country journal are translated into English and have been sent to international journal for publication. The second step (2001-

2020) many research posters are presented to international conferences with contributed colleagues' opinion. These researches are revised after and sent to journal for publication. Presentation and publication research papers had been done parallel because they are inter-grated with each other for developing quickly rely on internet connection since early 2001. The network address (web-site) in the ophthalmic field were chosen especially from the developed countries as the United States, Canada, Europe, Asia ... and we get free information on these issues related to their application locally. In this paper some outcomes are reported herein.

III. Results:

At the beginning of internet connection from 2001 to 2010: Three articles were published in the journal Medical Progress published in Hong Kong (in Table I) and 5 research posters were reported in 5 international specialist conferences in Geneva, Sydney, Barcelona, Las Vegas and Seoul, (in Table II) are shown below: (in Table II)

TABLE I: MEDICAL JOURNALS

Year/Issue/number/page	Journal name/Publisher	Paper name
6/2001 28/6/26-28	Medical Progress/ Hong Kong	Upper eyelid reconstruction
7/2002 29/7/23-26	Medical Progress/ Hong Kong	Strabismus and surgical correction
3/2003 30/3/33-37	Medical Progress/ Hong Kong	Ptosis- A report of two cases

TABLE II: INTERNATIONAL OPHTHALMOLOGIC CONFERENCES

Year	Name/Place/ Country/Website	Researches Name
2002	ICER/Geneva/ Switzerland The XV international congress of eye research, Geneva, Switzerland, Oct 6-10/2002. www.kenes.com	Classification of vitreous opacity and the relationship of vitreous opacities in cataract. Final program book page 38
2003	IGS/ Barcelona/ Spain 4 th International Glaucoma Symposium-I.G.S Barcelona, Spain, March 19-22, 2003. _	Phacolytic glaucoma: diagnosis and management www.kenes.com/glaucoma
2004	ICER/Sydney/Australia-The XVI International Congress of Eye Research-29 August – 3 September 2004 Sydney Convention and Exhibition Centre, Australia www.tourhosts.com.au/icer2004	Blood glucose and blood pressure in age-related cataract: a cross-sectional population-based case-control study. Final program book page 149
2006	AAO meetings/ Las Vegas/ USA 11-14 Nov 2006 http://www.aao.org/meetings .	A new procedure for ptosis surgery Final program book page 265
2008	SEAGIG/ Seoul-Korea –Oct 2008 http://www.asianjo.com/ci/v10n4p303.pdf	Zona Glaucoma: diagnosis and management. Final program book page 316

From 2010 to 2020 there are 6 research posters are presented at Tokyo, Singapore, Guangzhou, Taiwan and Hong Kong. (In Table III) After that these researches are revised and sent to Special Journal for publication. There are 35 papers have been published in this period (In Table IV)

Table III INTERNATIONAL OPHTHALMOLOGIC CONFERENCES

2014	WOC/APAO/JOS 18th Tokyo-Japan-April 2014 http://www.myschedule.jp/woc2014/detail.php?session unique id=PO006&sess id=2837&strong=1	Six Cases of Endophthalmitis Phacoanaphylactic Glaucoma Due to Rupture Crystalline Capsule Were Diagnosed and Treatment-Final program book page 334.
2014	5thAseanOptometricConference-Singapore: Nov 13-14 th 2014. http://www.aseanoptometricconference.com.sg/	A curriculum for Dispensing optician : a case study of Vietnam- Final program book page 38
2015	APAO Asia -Pacific Academy of Ophthalmology Congress - Guangzhou-China 1-4 April 2015. http://duongdieumd.blogspot.com/2014/12/replaced-loss-of-upper-eyelid-by_20.html	Replaced loss of upper eyelid by frontal skin graft. Final program book page 210 http://2015.apaophth.org/
2016	The 31st APAO in Taipei, Taiwan, Mars 23-27: 2016, http://duongdieumd.blogspot.com/2015/05/socialized-task-of-cataract-operation.html	Socialized task of cataract operation Angiang province, Vietnam: What have we done an increasing of output and outcome? Final Program Book: p=135: Mars 23-

		24: 2016
2017	The 32nd APAO in Singapore - Mars 1-5: 2017., Published: http://duongdieumd.blogspot.com/2017/03/eye-injury-due-to-landmine.html	Eye Injury Due To Landmine, Final Program Book: p=146-166-167, presented day: Mars 4-5 /2017
2018	Presented as poster at 33rd Asia-Pacific Academy of Ophthalmology Congress (APAO 2018) Hong Kong from 7 Feb-11 Feb 2018.	The plant foreign body into orbit: Diagnosis and Treatment. http://2018.apaophth.org/

Table IV INTERNATIONAL MEDICAL JOURNALS

2015	1. Classification of Vitreous Opacity And The Relationship Of Vitreous Opacity In Cataract, Southeast-Asian J. of Sciences, (Thailand) Vol. 4, No.1 (2015) pp. 51-56. Available at: http://duongdieumd.blogspot.com/2016/07/southeast-asian-j-of.html
2016	1. A curriculum for Dispensing Optician: a case study of Vietnam. International Journal of Scientific & Technology Research (IJSTR) Volume 5 - Issue 10, November 2016 Edition - ISSN 2277-8616. Published: http://www.ijstr.org/research-paper-publishing.php?month=nov2016 2. Socialized task of cataract operation in Angiang province, Vietnam: Developing in output and outcome for over 2 decades. International Journal of Scientific & Engineering Research (IJSER), Volume 7, Issue 9, September-2016 pp: 1455-1457. Published: http://www.ijser.org/research-paper-publishing-september-2016_page6.aspx or http://duongdieumd.blogspot.com/2016/10/ijserorg.html 3. The Effectiveness of Mobile Cataract Surgery Camps in Communities of Angiang Province-Vietnam. Imperial Journal of Interdisciplinary Research (IJIR) Vol-2, Issue-11, 2016. Published: http://www.onlinejournal.in http://www.imperialjournals.com/index.php/IJIR/article/view/2712 http://duongdieumd.blogspot.com/2016/10/the-effectiveness-of-mobile.html
2017	1. An alternative-formula for recessing-resecting muscles in correction of exotropic and esotropic strabismus. International Journal of Current Research. (India) V 9, Issue 1: pp.44741-44744, Jan 2017. Published: http://www.journalcra.com/article/alternative-formula-recessing-resecting-muscles-correction-exotropic-and-esotropic or http://duongdieumd.blogspot.com/2017/01/an-alternative-formula-for-recessing.htm 2. Herpes Zoster Ophthalmicus and medical treatment. World Wide Journal of Multidisciplinary Research and Development (WWJMRD) 2017; 3(6): 62-66. Published: https://wwjmr.com/archive/2017/6 and available at: https://wwjmr.com/archive/2017/6/222/hepes-zoster-ophthalmicus-and-medical-treatment or http://duongdieumd.blogspot.com/2017/06/hepes-zoster-ophthalmicus-and-medical.html 3. Age-related cataract: a cross-sectional population-based case-control study of blood glucose and blood pressure. International Journal of Current Medical and Pharmaceutical Research (India) Vol. 3, Issue, 08, pp.2162-2165, August, 2017. Published: http://journalcmpr.com/sites/default/files/issue-files/0824-A-2017.pdf http://journalcmpr.com/issues/age-related-cataract-cross-sectional-population-based-case-control-study-blood-glucose-and DOI: http://dx.doi.org/10.24327/23956429.ijcmpr20170187 4. Replaced loss of upper eyelid by frontal skin graft. International Journal of Surgery and Research. SciDoc Publishers, USA. 2017; 4(4): 85-87. Published: https://scidoc.org/IJSR-2379-156X-04-402.php https://scidoc.org/articlepdfs/IJSR/IJSR-2379-156X-04-402.pdf 5. The Relationship of Blood Glucose and Blood Pressure In Age-Related Cataracts. Biomed Journal Science & Technology Research- (USA) 1(6)-2017. BJSTR. MS.ID.000498. Published at page 6 in: http://biomedres.us/volume1-issue6.php
2018	1. A new technics in sutures for surgical ptosis correction. International Journal of Medicine Research. (India) Volume 3; Issue 1; January 2018; Page No. 53-55. Published: www.medicinesjournal.com 2. The Plant Foreign Body Into Orbit: Diagnosis and Treatment. International Journal of Research Publication. (UK) Volume: 3, Issue: 1, April 2018. Published: http://ijrp.org/paper_detail/89 3. Surgical Treatment For Bell's Paralysis. International Journal of Research Publications (UK). Volume 6 – Issue. 1, pp= 5-7, June 2018. Published: http://ijrp.org/paper_detail/220 4. Case Report: Retinoblastoma. International Journal of Case Studies (Canada) (ISSN Online 2305-509X) IJCS Volume 7-Issue 7-July 2018. pp=17-19. Published: http://www.casestudiesjournal.com/volume-7-issue-7/ http://www.casestudiesjournal.com/Volume%207%20Issue%207%20Paper%203.pdf 5. A New Classification Of Vitreous Opacities By Ultrasonography. International Journal of Research Publications (UK). Volume 8 – Issue. 1, July 2018. Published: http://www.ijrp.org/paper_detail/271 https://drive.google.com/file/d/1PCZ14ggvjiKO80QOx5ba2Bj38KCMsxc/view?usp=sharing 6. Results of 32 Patients' Ptosis Surgery With A New Sutures Technics. International Journal of Medicine

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Noted INTERNATIONAL OPHTHALMOLOGIC CONFERENCES:

- International Congress of Ophthalmology (ICER): The conference gathered ophthalmologists around the world held every two years once; Starting 1st 1968 in the UK ...; 2000 in the USA, 2002 in Switzerland (www.kenes.com), in 2004 in Australia (www.tourhosts.com.au/icer2004)
- Symposium on glaucoma every 2 years; 2003 in Barcelona, Spain (IGS 4th International Glaucoma Symposium, Barcelona, Spain, March 19-22, 2003 (www.kenes.com/glaucoma))
- Meeting of American Academy of Ophthalmology (AAO) annually, 2006 in Las Vegas. 11-14 / 11/2006 (www.aao.org)
- World Ophthalmology Congress (WOC) in 2008 Seoul- Korea, Zona Glaucoma: Diagnosis and treatment; SEAGIG-Korea, Asian J. Ophthalmology, 2008, vol 10, n4, supplement 2: 316. <http://www.asianjo.com/ci/v10n4p303.pdf>.
- * World Ophthalmology Congress (WOC) every 2 years held, combined 29th Asia Pacific Academy of Ophthalmology Congress (APAO) and the Japan Society of Ophthalmology 18th (JOS) organized in Tokyo 2014
- * 5th Asia Optometric Conference -Singapore 13-14 Nov 2014
- * 30th Asia -Pacific Academy of Ophthalmology Congress – APAO Guangzhou-China 2015
- 31th Asia -Pacific Academy of Ophthalmology Congress – APAO Taiwan 2016
- 32th Asia -Pacific Academy of Ophthalmology Congress – APAO Singapore 2017
- 33th Asia -Pacific Academy of Ophthalmology Congress – APAO Hong Kong 2018

IV. Discussion:

4.1 Before the internet (2000): We have a paper that was published in the Ophthalmic Practice journal in Canada (Reference: Duong Dieu. Surgical correction of esotropia and exotropia, Ophthalmic Practice, Canada edition 1998,16(2): 84-86. <http://duongdieumd.blogspot.com/2014/10/surgical-correction-of-exotropic-and.html>): The process was carried nearly a year contact by postal mail as follows:

- * Our paper was posted the editorial journal in early 1997. After 2 months, I have received a letter from editorial journal with the answer that within 8 weeks will consider all by 2 experts (peer-review). If they would agree this paper will be published if either would not agree to talk to each other in decision, if both not agree, the article will not be published.
- * After more than 4 months for my mailing editorial letter that is approved and I had to sign a commitment under the terms of the license sent to the editorial journal.
- * More than 6 months latter: A letter from editorial board said my article will be published in their journal in April 1998. I had received a sum of these articles about 150-200USD.

4.2 From the Internet (2001):

4.2.1 For the journals:

We search the address in the fields as we like to access the journal ophthalmology with free articles, summaries ...from the United States, Canada, Europe...

Next we see all the rules to be published by the journal. After reviewing the rules we choose the journal only allowed to send via e-mail. Email has the following advantages:

This is the least expensive means of cost: more expensive postal mailed.

At most time consuming. This can perform during the night, suitable for our work. Information quickly, easily performed the required exchange of reviewers, easily corrected. It can be said that one way to learn with great specialists around the world. From evident-based in medicine from the lowest to the highest category, they will help the overall look of our research.

According to personal experience with three fundamental issues necessary for integration:

Firstly there is the scientific research method to grasp firmly.

Second is the translation our researches into English. The use of English or American English style was initially meant to be interpreted by copying whole passages, sentences, from the idea of articles published in English and later into our own. However, there are still difficulties in the language. For example of a modified surgical procedure that we cannot be copy. Therefore we have to use the words correctly. In this case we contact to the specialist who will help overcome this in order to have a reasonable choice. By the way, to have a full text of an author you have to email the author and ask for the author sent to you via email without any fee. But if you get an internet access journal, the usual cost to about \$ 5-15 USD /1 paper. If the article is published you will be received a sum of \$ 100-200 USD/1 paper. This depends on journal. From around 2010s when your article is published you have to paid article processing charge a sum of \$ 50-4000 USD/1 paper according to value of journal that are assessed by impact factors....

The gold open access publication fee for American Journal of Ophthalmology is USD 3600, excluding taxes.

Third, requiring knowledge about your field of researches is outside the school curriculum or text book. You have always to update on the information network. The information is endless, it should be important to get appropriate information. "The limitations of understanding that are known but the ignorance is unlimited". If they are more common references for your topics, but to know the balance of this document in its research meant to raise the previous studies. References also a certain percentage of content and readership research will assess preliminary research themes through theses references. If our research is rarely know so the references have to evolve around the center of this research.

4.2.2 For the conferences:

We consider the annual conference as well as the rules to be presented during the conference topics. We chose the conference closely related topics to post our researches. In 2003 I was recognized as a full member of The International Society for Eye Research (ISCER). The ISCER in addition to membership dues require a 3 paper-published to become full members.

* International Conference on Research Icer Eye Shadow First XV at Geneva 2002

* International Conference on Research XVI th ICER- Sydney 2004

* International Symposium on Glaucoma 4 th IGS- Barcelona 2003

* Conference American Academy of Ophthalmology AAO- Las Vegas 2006

* Glaucoma SEAGIG specialized conference in Seoul-South Korea 2008.

*World Ophthalmology Congress WOC - April Tokyo 2014

* Asia Optometric Conference -Singapore 13-14 Nov 2014

* Asia-Pacific Academy of Ophthalmology Congress – APAO from 2013 to 2019

Conclusion:

The achievements of Informatics technology revolution or 4.0 revolutions have quickly helped all the people around the world sharing the information with the shortest time as well as lowest fee. The developing countries

have also applied certain achievements brought by this technology. This proved to gradually narrow the gap between developed and developing countries in the field of medicine including ophthalmology as well as to do this opportunity better.

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- iii. <https://duongdieumd.blogspot.com/p/cong-trinh-nghien-cuu-khoa-hoc-nganh.html>



Duong Dieu received MD (1978) and PhD (2003). He was chief of Ophthalmology Department for over 30 years with clinician/surgeon. From 2010 to now 2021 he is senior lecturer of Faculty of Medicine of Nguyen Tat Thanh University in HCM city- Vietnam