Informed consent?

Or is it?

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Abstract— It was investigated to determine how effectively an individual would retain and recall information delivered to them approximately 6 months prior to cataract surgery. This information was delivered as part of the informed consent by the Doctor, and the legal consent was signed just prior to the cataract surgery starting. The questionnaire was given to one group of patients before the surgery, and the same questionnaire was given to another group after the surgery was complete.

Keywords: recall, cataract, informed, legal, consent

INTRODUCTION

The process of informed consent [1[is widely accepted as basic standard of care for any significant medical procedure and is based upon the ethical and legal principle of autonomy. Central to the principle of autonomy is the role of the patient as the key decision-maker. The process of informed consent is one that involves explanation of the procedure and disclosure of potential risks and proposed benefits. It is based on the expectation that patients assimilate and weigh information against their own value structures and health expectations and then decide for or against undergoing the procedure.[2]

Although informed consent is a patient's basic right, it is often taken for granted that most patients are happy to do as their physician advises. Most patients thought the consent form was a legal document and they had to sign it, although most recognized that they could change their mind.[3]

METHODS

Cataract surgery was chosen because of the large number of patients that could respond to this information in a shorter period of time to facilitate a possibly more accurate result, with consideration of p<0.05. Six surgeons signed consent to allow their patients to participate. Patient participation was based on response, as all patients were given a questionnaire in an envelope at the hospital. Based on their completion of it and return to reception/nurse, this was considered their consent to participate in the study. With the envelope, they had the option to not participate and leave the survey blank which was also as per the Ethics Board. The study included two groups. March 1-15, 2012 Group One of 55 patients filled

Annual Worldwide Nursing Conference (WNC 2013) Copyright © GSTF 2013 ISSN: 2315-4330 doi: 10.5176/2315-4330_WNC13.18 Edmonton, Alberta, Canada dkulhawy@xplornet.ca

out a questionnaire prior to their surgery, while on March 16-31, 2012, a second group of 27 filled out a questionnaire post surgery. The average age of group 1 was 73.14, while the average of age of group 2 was 69.88.The gender was similarly equal for both groups.

The ethnicity majority for the groups was 83.33% Caucasian for Group 1, 84.62% of Caucasian for Group 2. The remainder was First Nations/ Inuit 5.56%, Middle Eastern 3.7%, Asian 1.85%, African Canadian/West Indian 5.56 and 1.85% East Indian for Group 1. Group 2's remaining ethnicity is 3.85% Asian, 3.85 African Canadian/West Indian and 7.69% East Indian. Only a small percentage were unable to speak English (1.82%)

Anxiety was also measured using the Visual Analog Scale, although there did not seem to be significant differences between the two groups. (Group 1 1.48/5 and Group 2 1.32/5) [4]

Maintaining the Integrity of the Specifications

It was felt that after the questionnaires were complete that it would have been more effective to have had one consistant nursing staff administer the pre and post-operatively administered questionnaires. As a result of inconsistent staff administering these questionnaires, there was inconsistency in their anxiety grading.

The questionnaire administered for both groups was approved by the Health Research Ethics Board at the University of Alberta and is as follows:

Date: _____

Surgeon: (mark surgeon with an X)

- Dr. Buski ____ Dr. Chan __Dr. D.Climenhaga ___
- Dr. H Climenhaga __Dr. Damji __ Dr. Dorey __
- Dr. Edwards ___ Dr. Hennig ___

Dr. Hodges __ Dr. Johnson __ Dr. Kassiri __

- Dr. Kaye __Dr. Kutzner __ Dr. Lehmann __
- Dr. Macdonald ____ Dr. Mah __ Dr. McCabe ____

Dr. Rudnisky Dr. Weis Other:	Do you feel you have an understanding of what cataracts are? YES NO
Patient Demographics: Age Range:	Information on Cataract Surgery
0-10 11-20 21-30 31-40 41-50 51-60 61-70 71-80 81-90 91-100 >101	Is this laser surgery? YES NO Will there be a blade involved?
Gender: Male Female	
Race:	Will anything be removed from the eye? YES NO
White/ Caucasian	Will anything be placed inside the eye? YES NO How long is the surgery? 0-10 minutes 11-30 minutes 31-60 minutes Have you been told how pain will be controlled during the
- Middle Eastern	surgery? YESNO
	Will you get numbing drops? YESNO
First Language: Second and Other Fluent Languages:	Will you get a general anesthetic? YESNO Do you feel you understand what cataract surgery is? YES NO
Who is filling out this questionnaire?	Risks of Cataract Surgery
Patient Parent/ Guardian Substitute Decision Maker Health Care Provider Information on Cataracts	Were any of the following discussed with you? Retinal detachmentDecreased vision Glaucoma Need for glasses
Where do cataracts occur in the eye?	Bleeding Inflammation
Eyelids Sclera and Conjunctiva (white of the eye)	Infection Resident involvement
Cornea	Will you likely need glasses for distance after surgery?
Lens	YES NO
Retina	Will you likely need glasses for near activities after surgery? YES NO
What are cataracts?	Do you feel the risks and benefits of cataract surgery were told to you? YES NO
	-

I don't know _____

The Consent to participate was as follows:	
Consent form for patients.	Do you understand the benefits and risks involved in taking
Part 1: Title of Project: Cataract Surgery and Patient Comprehension: Assessing Physician Pre-operative Communication. Principal Investigator: Dr. Ian MacDonald Phone Number(s): 780-735-5954 Co-Investigator: Dr. Christopher Hanson	part in this research study? Yes No Have you had an opportunity to ask questions and discuss this study? Yes No □ □ Do you understand that you are free to withdraw from the study at any time until the questionnaire is handed in and this will not in any way affect your surgery or be known to your surgeon or operating room staff? Yes No
Phone Number(s): 780-668-2486 Research Coordinator: Georgie Jarvis Phone Number(s): 780-735-4986	Has the issue of confidentiality been explained to you? Yes No Do you understand who will have access to your records? Yes No
Part 2	Who explained this study to you?
Do you understand that you have been asked to be in a research study? Yes No Have you read and received a copy of the attached Information and agree to participate in this study? Yes	
No	
Comments:	
Signature of Research Subject	I believe that the person signing this form understands what is involved in the study and voluntarily agrees to participate.
(Printed Name)	Signature of Investigator or Designee Date
 Date:	THE INFORMATION SHEET MUST BE ATTACHED TO THIS CONSENT FORM AND A COPY GIVEN TO THE RESEARCH SUBJECT

RESULTS

Interestingly, pre-op results versus post-op results were very similar and were therefore reported together as results in this study.

Lens	51 (63.75%
Cornea	6 (7.50%)
Sclera/Conjuctiva	2 (2.50%)
Retina	2 (2.50%)
I Don't Know	20 (25.00%)

What are Cataracts? (n=80,97.56%)

What are cataracts? $(n=70, 85.37\%)$		
Specific	27 (38.57%)	
Vague	7 (10.00%)	
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 Possible
 5 (7.14%)

 Wrong
 13 (18.57%)

 I Don't Know
 18 (25.71%)

Specific: opacity of lens, film on lens, cloudy lens Vague: blurred vision, blocks eyesight, opaque tissue Possible: build up of medication, lens damage, build up of membrane on lens

Will drops	75	72	0	3
be used?	(91.46%)	(96.00%)	(0.00%)	(4.00%)
Will a	57	28	0	29
needle be	(69.51%)	(49.12%)	(0.00%)	(50.88%)
used?				
Will it be a	59	10	0	49
general	(71.95%)	(16.95%)	(0.00%)	(83.05%)
anesthetic?				
Pain	64	48	0	16
Control	(78.05%)	(75.00%)	(0.00%)	(25.00%)
used?				

Wrong: tissue on eye, growth on eye, floater

	Respondents	Yes	Maybe	No
Laser	61	19	0	42
used?	(74.39%)	(31.15%)	(0.00%)	(68.85%)
Blade	53	30	0	5
used?	(64.63%)	(56.69%)	(0.00%)	(8.06%)
Anything	62	57	0	5
taken out?	(75.61%)	(91.94%)	(0.00%)	(8.06%)
Anything	67	61	0	6
put in?	(81.71%)	(91.04%)	(0.00%)	(8.96%)

	Respondents	Yes	Maybe	No
Is it risk	75	8	0	67
free?	(91.46%)	(10.67%)	(0.00%)	(89.33%)

Will you need glasses for distance?	75 (91.46%)	27 (36.00%)	26 (34.67%)	22 (29.33%)
Will you need glasses for reading?	73 (89.02%)	44 (60.27%)	20 (27.40%)	9 (12.33%)
Were risks discussed?	70 (85.37%)	52 (74.29%)	0 (0.00%)	18 (25.71%)

Surgical Time Respondents Mean (min) Std Dev (min)

66 (80.49%)	19.621 (range 10-	10.6
	60 minutes	

DISCUSSION:

What is the key to consent?

Does the patient need to understand everything?

How much is enough?

What about patient retention?

This study mainly looked at patient's information retention and recall under stressful circumstances

The results:

Of 76 (92.68%) respondents, 59 (77.63%) felt that they understood cataracts. Seventeen (22.37%) felt that they did not.

Regarding understanding surgery, of 70 (85.37%) respondents, 57 (81.43%) felt that they did, 13 (18.57%) felt they did not. Seventy-two (87.80%) responded to understanding the risks, 60 (83.33%) believed that they understood the risks, 12 (16.67%) believed they did not.

The patients themselves as a majority feel that they understand and are content with their knowledge.

CONCLUSION:

Patient's ability to recall information provided during the informed consent process is not as optimal, or at least not what I expected we would find for results in our ophthalmology department/operating room. Clinicians have serious doubts about how much patients understand of what they are told, no matter how carefully this has been done [5].

Ways that we can improve these results in further research would be to have consistent handouts from all surgeon's, videos, surgical consent personnel, and for some, translators. Also the delivery of information 6 months in advance does have a factor in the recall. The recall of information deteriorates from the time it is provided [6].

Since this is a pilot study, we will look to increase surgeon numbers and patient respondents. Follow up studies looking at patient retention vs. patient initial understanding, may improve patient responses.

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