

Literacy levels in Prostate Cancer Patients: the Relationship between Health Literacy Level, Understanding of Cancer Information and Decision-Making -Results from Phase 1

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Overview

- Background
 - Health Literacy
 - Prostate Cancer
- Study outline
- Phase 1
 - Methods and Results







1	WHO (1998)	"The cognitive and social skills which determine the motivation and ability of individual understand and use information in ways which promote and maintain good health" [3:	
2	American Medical Association's (1999)	"The constellation of skills, including the ability to perform basic reading and numeral to function in the healthcare environment" [12]	asks required to
3	Nutbeam	focus on one's ability to	in access to,
4	Institute (focus on one's ability to	d services needed
5	Kickbusch obta	ain, process and understand	the community, at
	hea	Ith information and services	tical empowerment on and their ability
6	Zarcadoo (2003, 20) necess	ary to make appropriate health	end, evaluate and increase quality of
7	Paasche-C	decisions	neans that health complished. The
8	EU (2007)	"The ability to read, filter and understand health information in order to form sound jud	dgments" [30]
9	Pavlekovic (2008)	"The capacity to obtain, interpret and understand basic health information and services and the competence to use such information to enhance health" [41]	
10	Rootman & Gordon-Elbihbety (2008)		
11	Ishibawa & Vano (2008)	"The knowledge chille and shilities that nortain to interactions with the healthcare system	m" [14]
12	Ma	Considered as a	rehension, and kills, strategies,
13	Au: (20	quality of	es such as I, emergencies,
14	Yo!	the individual	orint material, nd perform
15	but also	the interaction of the individual	or digital
_	_	the society in which they live.	kills to
17	Freedman et al. (2009)	The degree to which individuals and groups can obtain process, understand, evaluate,	and act upon

17 Freedman et al. (2009)

"The degree to which individuals and groups can obtain process, understand, evaluate, and act upon information needed to make public health decisions that benefit the community" [35] Sørensen et al., 2012

Factors that Influence HL level

Personal Factors

- General literacy levels
- Cognitive skills
- Motivation
- Physical and emotional health
- Experience with health care
- Specific health condition
- Beliefs about health
- Socioeconomic status
- Social Supports

System Factors

- HCP 's communication skills
- Complexity of health information
- Characteristics of healthcare setting
- System demands and expectations upon patients
- Time pressures upon health care professionals





Health Literacy and Cancer

- Research in HL
 - Has focused on general population and other areas within medicine rather than oncology.
 - Prevention: Attendance for screening programmes
 - Research on HL in the cancer population is "suboptimal, using less robust measurement tools"

Koay et al . 2012







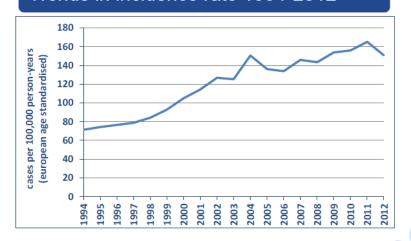
Cancer Factsheet

Prostate

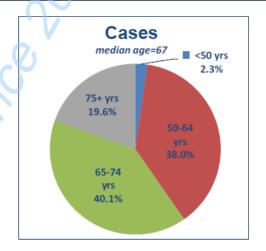
Key facts 1 in 8 men in	reland		
	Females	Males	Total
Number of new cases per year	-	3,384	-
Incidence rate (cases per 100,000 per year)	-	157.3	-
Cumulative lifetime risk of diagnosis (to age 74)	-	13.8%	-
Percentage of all invasive cancers	-	31.5	-
Ranking amongst most common cancers diagnosed*	-	1st	-
Number of deaths per year	-	519	-
Mortality rate (deaths per 100,000 per year)	-	22.9	-
Cumulative lifetime risk of death (to age 74)	-	0.9%	-
Percentage of all cancer deaths	-	11.1	-
Ranking amongst most common invasive cancer deat	hs -	3rd	-
Number of people with this cancer still alive in 2012	-	26,358	-
Number alive per 100,000	-	1,161	-

^{*} invasive cancers only, excluding non-melanoma skin cancer

Trends in incidence rate 1994-2012



Age profile at Diagnosis



5 year net survival

Years	Net Survival	95% confidence
	(age standardised)	intervals
1994-1999	69.4%	(67.5 - 71.4%)
2000-2005	86.1%	(85.0 - 87.2%)
2006-2011	90.8%	(89.8 - 91.9%)
2008-2012*	91.0%	(90.0 - 92.0%)

Treatment

- Treatment options
 - Surgery
 - Radiotherapy
 - External Beam
 - Brachytherapy
 - Hormone Therapy
 - Active surveillance

Treatment Outcome

- Overall Survival
- Side effects
- Possible Side Effects
 - Urinary Dysfunction
 - Sexual Dysfunction
 - Bowel Dysfunction







Prostate Cancer

ostate Erectile-dysfunction Grade & Rate & Rate Survical Tumour Implants Stage Impotence







Study Aims

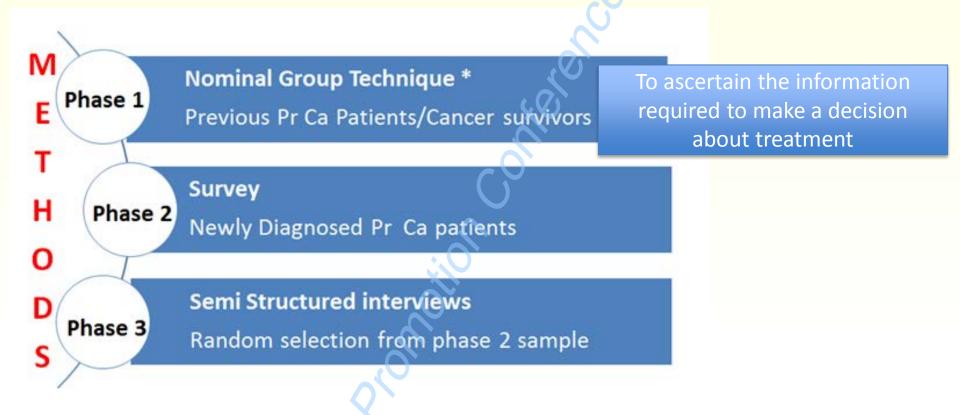
- 1. Evaluate the impact health literacy level has on cancer knowledge
- 2. Ascertain if patients involved in decisionmaking are knowledgeable about their options







Methodology



*Delbecq, A. L., Van de Ven, A. H., & Gustafson, D. H. (1975)







Phase 1-Nominal Group Technique (NGT)

Structure of Nominal Group Technique		
Step 1: Introduction	Welcome, purpose and procedure. Consent and Demographics	
Step 2: Generating Ideas	Question given to participants. Participants -silently write down any ideas that come to mind.	
Step 3: Sharing Ideas	Share the ideas Round robin style feedback session No debate A written record is made of all the ideas generated	
Step 4: Group Discussion	Participants can ask for clarity on any of the ideas generated.	
Step 5: Voting and Ranking	Prioritising of ideas generated from the original question. The meeting concludes after reaching a specific outcome e.g. The top ten ideas from the discussion.	



Phase 1- NGT

"Based on your experience,

what do you think men diagnosed with prostate cancer should know before deciding on their treatment?"

N=7

Age range: 60-75 yrs

Recruitment: Previous Prostate Cancer Pts, Irish Cancer Society

Treatment included: (alone or combination)

Surgery, Hormone Therapy,

Radiotherapy: photons, brachytherapy, protons.







Phase 1-NGT Results

"pull down the shutters"

"How to weed out the information" "health warning"

Words like "active surveillance and watchful wait"???





	Item	Step 3 "sharing of ideas"
		step 4 "discussion round"
	1	Pros and cons of each treatment
	2	Urgency of condition->decision (timeframe to make a decision)
	3	Best practice on current treatments available (consultants to advise)
	4 (o Involve wife/family
)	5	Side effects (short-term)
	6	 How to research + evaluate treatment available (worldwide)
)	7	Supports
	8	Explanation of own condition
	9	Life expectancy (before/after treatment)
	10	Cancer society/talk to Peers
	11	How to deal with situation after Diagnosis
	12	Costs and availability
	13	Long term effects/afterwards
	14	Treatment sequence +consequences
$\left(\ \ \right)$)15()	Non-medical language
	16	Duration of treatments
	17	Possible pathways at initial diagnosis
?	18	Alternative options/2 nd opinion
	19	When to know when to change treatment path
	20	Quality of information -> open, honest

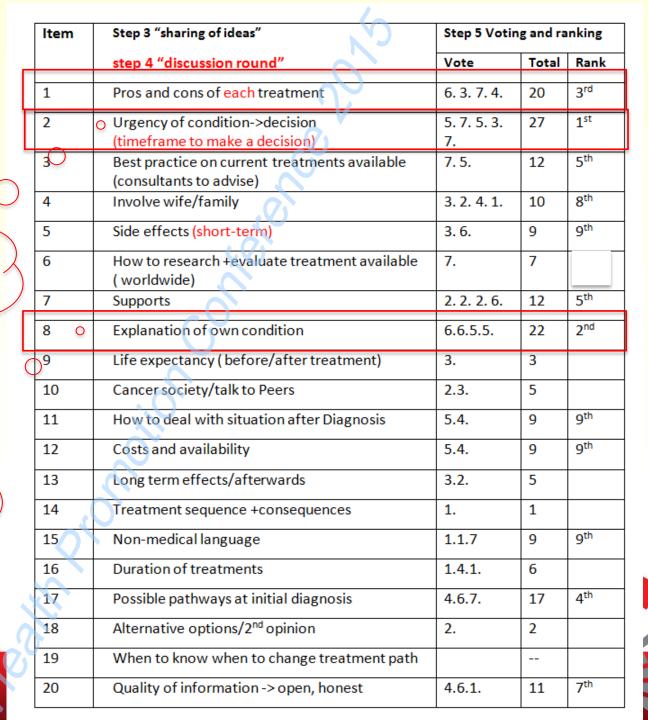


Phase 1-NGT Results

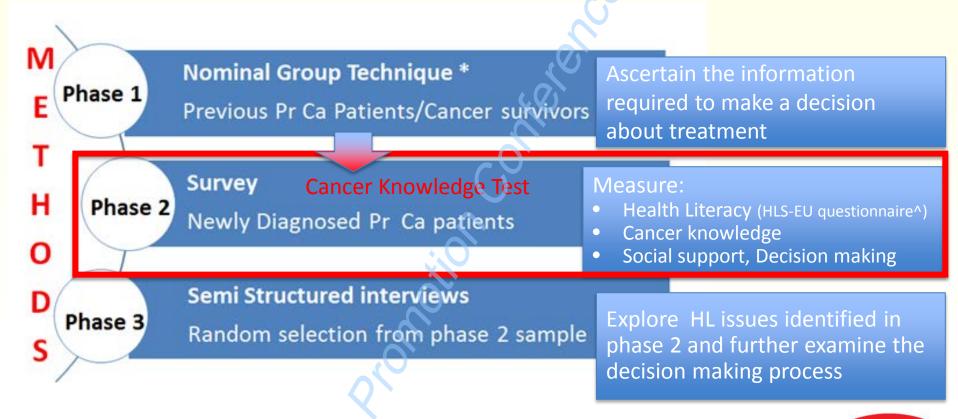
Cancer is slow growing...? "weeks/months"

"everyone's cancer and circumstances are different"





Next Step



^{*}Delbecq, A. L., Van de Ven, A. H., & Gustafson, D. H. (1975)

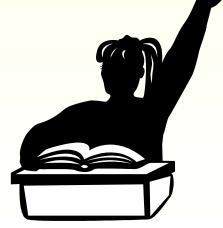
http://www.healthliteracy.ie/academics/eu-health-literacy-survey











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