Cancer Awareness and Knowledge among Black South Africans

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Abstract |

INTRODUCTION

In the wake of the HIV/AIDS scourge, cancer, with its poor prognosis has emerged as another common and most dreaded disease. The late presentation of sufferers for diagnosis is cause for concern as the disease is curable if diagnosed early. The study was undertaken to explore the awareness and knowledge that black people have about cancer in view of their reported delay in presenting themselves for proper diagnosis and treatment and the high incidence of defaulting even when the diagnosis is made.

METHODOLOGY

An exploratory descriptive survey was done in selected black areas whereupon a systematic random sampling of households was done and interviews with household heads from the selected households conducted.

RESULTS

The majority (88.55%) of black people were reported to be aware of cancer, but very few (31.74%) knew about cancer.

CONCLUSION

Based on the results of the study it was concluded that more campaigns need to be staged to promote the knowledge about cancer building on the existing awareness.

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Introduction

Parallel to HIV/AIDS, the myth about cancer, its extent and poor prognosis continue to make it the most dreaded and stress evoking disease, especially among black South Africans, who, in not knowing what cancer is, tend to perceive it as terminal. The diagnosis of cancer produces high levels of anxiety not only in the patients, but also in their relatives as it brings to mind images of mutilation amidst great pain. Cancer also requires expensive and extensive treatment, which is often painful.

Worldwide the illness has been observed to be on the increase. It is reported that in 1996 more than 10

million people developed cancer and 57% of these were in the developing countries. In South Africa in 1989, 48 477 new histologically confirmed cases were reported compared to 51 517 in 1992 and the lifetime risk of developing cancer was reported as I for every 7.8 black males and I for every 8.8 black females³. Specific cancers are also on the increase as evidenced by the registry report (1992). According to this report 1034 males and 1025 females in South Africa are diagnosed with bowel cancer and 519 (males and females) with oral cancer².

The number of economically productive people affected by cancer is also

increasing as reportedly 39.5% of all cancers in females and 31.3% in males occur between the ages of 15 to 543. Cancer of the liver has been found to affect mainly men younger than 30 years of age and the average length of survival is reported as eleven (11) weeks from the onset of symptoms3. The statistics may indicate an awareness or a genuine appearance of the disease based on increasing life expectancy with increasing chronicity of diseases, a change in behavioural pattern in relation to smoking, alcohol consumption, work, eating habits, sexual practices and improved diagnostic and reporting methods in cancer registries.

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Issues related _____

More than any other disease, the diagnosis of cancer often arouses fear and anxiety which may be followed by a variety of reactions including grief, panic, hopelessness, depression, withsometimes anger drawal, hostility4. The reactions are associated with overwhelming fear of loss of loved ones as the belief about cancer is that it kills. In some instances cancer is regarded as a stigma, something shameful, even punishment. The people who hold such views often keep the diagnosis to themselves. In Egypt, for example cancer is stigmatized and physicians avoid the mention of the word, refering to it as a growth, tumuor or flesh⁵. In these communities cancer sufferers tend to be outcasts that are best forgotten. It is this prevailing perception about cancer that is cause for concern as it leads to late presentation for diagnosis.

In South Africa there is a tendency, especially among the black people, for the diagnosis to be made late or if made early, there tends to be noncompliance with the proposed management including follow up'. Many traditional black South Africans when diagnosed with cancer seek the cause of such a disease within the framework of their indigenous traditional beliefs such as supernatural powers, life hereafter, importance of ancestors and performance of rituals to appease these ancestors and spirits believed to have an impact especially on causation6. In line with the World Health Organization, the majority of black South Africans conceive good health as consisting of a healthy body in a conducive social, emotional and spiritual milieu7. The understanding of illness therefore is a result of an imbalance between the individual and the community, the physical environment or the spiritual world.

On the basis of cultural beliefs, a study conducted by Hacking, Gudgeon and Lubelwana (1988) in the Western Cape revealed that black

Xhosa women often presented with advanced breast cancer, having first sought assistance from traditional healers who would in turn have offered herbal remedies or performed cultural rituals deemed necessary to address the problem^{6,7}. The multiple investigations undertaken in western institutions prior to making a diagnosis only serve to strengthen the trend to consult traditional healers, who, very often have a diagnosis available on the first visit. There is also the problem of being vague in informing the patient of the diagnosis. In one instance a patient was told that she had a "touch of cancer" This is usually an attempt to make the condition as trivial as is possible regardless of the patient's concern.

In a study conducted in Mamelodi, a black residential township outside Pretoria, South Africa, 41% of the respondents did not know anything about cancer; 32% knew about cancer because they knew of a person who had died from cancer; 24% indicated that cancer was a dangerous incurable disease, and 13% stated cancer as contagious⁷. In the same study 61% could not indicate a single warning sign for cancer. In relation to the causes of cancer 54% of the respondents mentioned smoking, and 19% alcohol as contributing factors.

The purpose of this study was to explore the awareness and knowledge that black people in South Africa have about cancer.

Methodology -

A descriptive survey was conducted in selected black areas that represented all settings (i.e. urban, periurban and rural) in the Northern Province, Gauteng, North West, and Mpumalanga provinces. A sample of this descriptive survey consisted of 1500 households with 3000 household heads as respondents. To avoid bias and logistical problems the sample size was determined by the number of cancer-case referrals to Garankuwa Hospital and population density in the provinces as indicated

in the Census data on population in 1996. According to the data the largest populations are in Gauteng and Mpumalanga Provinces and the smallest in the North West Province. Consequently 500 households were selected each from the Mpumalanga and Gauteng Provinces, 300 from the Northern Province and 200 from the North West Province making up a of 1500 households. Respondents consisted of household heads (i.e mother and father or their representatives) in each household who were not suffering from cancer and who were willing to participate.

A random systematic sample of households was drawn from the selected areas in each province whereupon, in the urban and periurban areas a township map/design was obtained and the first household was selected randomly9. From this starting point every twentieth household was selected as part of the sample. In the rural areas a household list was compiled and, similarly, the first household was selected randomly and thereafter followed by every twentieth household. No power analyses were done to determine the size of the sample. However, the investigator was sensitive to the need to obtain a sample large enough to avoid error when testing the hypothesis.

Data was collected through interviews conducted by trained field workers residing in the selected areas. A significance level of 0.05 was set for tests of significance.

Results -

From the 1500 households a total of 2426 questionnaires were received and analysed. Table I shows the socio-demographic layout of the sample¹⁰. Non-response to particular questions means that the frequency total for that question will be less than 2426. Some questionnaires did not indicate province and/or resident status, others were rejected completely based on the non-response to pertinent questions on knowledge.

Parameter	Value	Frequency	(%)	95% conf limits		Multiplicative
naribedom/addown	th Istrioniclom as			LCL	UCL	Constant
Province n = 2180	Gauteng Mpumalanga Northern Pr North West	786 762 436 196	36.06% 34.95% 20.00% 8.99%	33.29% 32.21% 17.70% 7.34%	38.82% 37.70% 22.30% 10.64%	2.80
Residence n = 2399	Urban Rural Peri-urban	1074 389 936	44.77% 16.22% 39.02%	42.26% 14.36% 36.56%	47.27% 18.07% 41.47%	2.45
Sex n = 2402	Males Females	987 1415	41.09% 58.91%	39.11% 56.93%	43.07% 60.89%	1.96
Education n = 2373	No school Grade I – 4 Grade 5 – 8 Grade 9 – 12	249 152 392 1076	10.49% 6.41% 16.52% 45.34%	8.55% 4.86% 14.17% 42.19%	12.43% 7.96% 18.87% 48.50%	3.08
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21.24%

45.67%

54.33%

18.65%

43.67%

52.32%

23.83%

47.68%

56.33%

1.96

Awareness about Cancer

Employment

n = 2369

Age n = 2390

Black people use different names for cancer. These names depend on the I

kankere as cited by 37.70%, mdlavuza by 31.67% while the rest (32.10%) stated other names including sesipidi, mofetshe and idliso. To elicit aware-

504

1082

1287

37

13.9

language and residential area. In this study the commonest names were

ness, the question "have you heard about cancer"? was asked. Almost all the respondents (88.55%) indicated that they had heard about cancer. The sources of information were mainly radio and television as 1990 respondents had access to radio and 1394 to television. The result about health personnel being the source of information was disappointing as only 24.39% cited doctors, 21.55% nurses and 5.89% other health workers.

To explore the awareness even further, the question "do you know someone with cancer"? was asked. 761 respondents knew someone with cancer; but even among the 1665 respondents who did not know someone with cancer, 84.71% of these had heard about cancer.

Knowledge about Cancer

To explore knowledge, the question "would you know if you had cancer?" was used. There was a total of 2391 responses to this question whereupon (761) 31.83% responded positively and (1630) 68.17% negatively.

Table 11:	Presentation of People with Cancer (n=	761)
usuuu untoo	DZIS Z IBQKQXVBIL DIIS T	

Tertiary

Mean

Employed

unemployed

Std. Deviation

Presentation	Frequency	n=761	95% con	f limits	Multiplicative	
	N	(%)	LCL	UCL	Constant	
Thin	356	46.78%	42.39%	51.17%	4.278671	
Pain	245	32.19%	28.08%	36.31%	dying. CPIE	
Unable to swallow	170	22.34%	18.67%	26.00%	a kasanin	
Unable to eat	227	29.83%	25.80%	33.85%		
Unable to pass stool	156	20.50%	16.95%	24.05%	-5.22094 Q4	
Unable to pass urine	142	18.66%	15.23%	22.09%	de ton/ - The	
Bleeding	144	18.92%	15.48%	22.37%	20 7 7 88 84	
Unhealing sore	160	21.02%	17.44%	24.61%	LU 00.C-	
Hoarse voice	144	18.92%	15.48%	22.37%	ed The poster	
Lump on breast	193	25.36%	21.53%	29.19%		
Other signs	88	11.56%	8.75%	14.38%	O LAOSILLIA	

SA Fam Pract 2002, 25(2) 13 From those who responded positively the knowledge of the warning signs was not so good as 25.36% mentioned a lump, especially in the breast, 21.02% a sore that does not heal, 18.92% unusual discharge including bleeding from body openings like the vagina, rectum or urethra. A large number, 46.78%, mentioned loss of weight.

The respondents were further asked about the presentation of people with cancer, that is "how did these people with cancer look like, what did they complain of, what did they have"?. Here again loss of weight was indicated by many as one of the signs, with pain being second. Inability to eat correlated with loss of weight (see table II)10 (in this table the cell

percentages do not form a multinomial distribution because a single person may fall into more than one category and thus the cell percentages do not sum to 100, as they should in the multinomial distribution. However, the multinomial confidence limits have nonetheless still been applied).

Causes of Cancer

The knowledge relating to the causes of cancer was fair. A variety of aspects were indicated by 68.93% as the possible causes of cancer (see table III)¹⁰ (similarly the cell percentages do not form a multinomial distribution because a single person may fall into more than one category and thus the cell percentages do not sum to 100, as they should in the multinomial distribution. However, the multinomial confidence limits have nonetheless still been applied).

From the responses in table III, smoking and alcohol were rated high with the sun, sexual intercourse, genetics and chemicals also being indicated as significant causes. The percentage of those believing that cancer is caused by witchcraft although low, is a concern because it is this aspect that promotes consultation with traditional healers, thereby delaying the commencement of treatment. The knowledge of someone with cancer together with access to radio, magazines and newspapers also contributed to the improvement of knowledge of causes of cancer as outlined in the multivariate logistic regression model in table IV. Those with no access to radio or television or newsprint were less likely to know the causes of can-

It was the perception of many, (75.52%), especially from the periurban area (80.45%) that cancer is a very serious or fatal condition. At the same time more than half (57.33%), reported that the disease is curable if treated early.

Discussion of the Results

The results from the study showed that there was a need to enhance

Causes	Frequency N	n=2366 (%)	95% confi. limits LCL UCL		Multiplicative Constant	
Smoking	1409	59.55%	54.64%	64.47%	4.87	
Alcohol	839	35.46%	30.67%	40.25%	0.00	
Certain foods	261	11.03%	7.89%	14.17%	ii avgi	
Trauma	117	4.95%	2.77%	7.12%	100	
Sun	368	15.55%	11.93%	19.18%	1287	
Chemicals	319	13.48%	10.06%	16.90%	- VI	
x-ray	78	3.30%	1.51%	5.08%	24	
Radiation	105	4.44%	2.38%	6.50%		
Sex	369	15.60%	11.96%	19.23%	eam bas asku	
Cultural practices	80	3.38%	1.57%	5.19%	representation	
Genetics	341	14.41%	10.90%	17.93%	alidw XVX 17	
Age related	198	8.37%	5.60%	11.14%	ed odner name	
Witchcraft	139	5.87%	3.52%	8.23%	How have sales	
God	45	1.90%	0.53%	3.27%		
Other	139	5.87%	3.52%	8.23%	Cancer (n=76	

Table IV: Multi Cand	District Control of the Control	. Regi essio	ii iiiode	rior the	causes of
Parameter	Odds Ratio	Std. Err	Z	P>Z	95% conf. Interval
Knowledge of someone with ca	espondents				EE 3708 E
No vs Yes	0.45	0.10	-5.22	0.000	(0.33, 0.60)
Source of information	lise on Manual				
No radio vs radio	0.47	0.10	-3.89	0.000	(0.32, 0.69)
No Tv vs Tv	0.50	0.10	-5.68	0.000	(0.40, 0.63)
No magazine vs magazine	1.00	0.17	-0.13	0.897	(0.70, 1.36)
No newspaper vs newspaper	0.63	0.10	-3.06	0.002	(0.45, 0.85)

knowledge about cancer in black communities. People who have heard about cancer do not necessarily have knowledge about it. Whereas 88.55% were aware of cancer only 31.83% would know if a person had cancer. These results are supported by the findings in a study conducted in Mamelodi, Pretoria where only 32% of the respondents knew about cancer7. This is not satisfactory, especially in relation to the incidence and prevalence of cancer. Whereas the knowledge of the warning signs was not so good it is important to bear in mind that these were the responses of the 31,83% who had stated that they knew about cancer and even these people did not regard it important to act on the warning signs. The reaction of many was to go the long route of traditional healers first before consulting western physicians. More than half, 68.93%, had knowledge of the possible causes of cancer.

Smoking and alcohol were rated high as causes, 59.55% and 35.46% respectively. Certain foods, 11.03% and sexual intercourse 15.60%, were also cited as causes. The admission of the aforementioned aspects as causes of cancer correlates with those reports that relate cancer to lifestyle, stating that 40% of all adult male cancers and 15% of all female adult cancers are

associated with tobacco smoking^{3,11,12}. The reports also support the issue of diet as a cause of cancer as the authors view dietary lifestyle as an indication of the socio-economic status as well as the culture of the people. In this regard certain foods like those that do not have adequate fibre or have a high content of fat or spice have been related to specific cancers like colorectal, breast and prostate cancers respectively^{3,11,12,13,14}.

Conclusion =

From the literature reviewed and the findings of the study it can be concluded that the awareness about cancer is substantial. However, the knowledge about cancer, its causes and presentation is low among black people in South Africa as only 31.83% would know if a person had cancer. This finding relating to low knowledge about cancer however, compares with that of Conradie et al $(1995)^7$ where only 32% of the respondents had knowledge about cancer. Many more people need to know the warning signs, how to identify these, the action to take should the signs be identified and the benefit of such action. It is important too to provide information relating healthy lifestyle as most forms of cancer can be reduced or prevented by; not smoking, consuming reasonable amounts of alcohol, eating food high in fibre and low in fat and engaging in moderate exercise^{12,15}.

The stigma that is associated with cancer needs to be removed so that those diagnosed with cancer can talk about it and share their coping skills with others and take away the mystery that usually engulfs the disease. Although the exact causes of cancer are still not known, some predisposing factors have been identified. Of importance is the lifestyle that people lead, which results in unhealthy practices as well as an environment that is not conducive to health that results in a variety of cancers. Knowledge of this information could help towards changing people's mind-set especially in relation to dietary habits, exercise, alcohol consumption and cigarette smoking.

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