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END OF LIFE PHYSICAL PROBLEMS OF PATIENTS

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Abstract

Background

India, with a population of over a billion people, is a country of varying social, cultural and geographic characteristics. There are real problems in meeting the health care needs of such a large population, particularly, the poor in rural areas. Managing their end of life issues would be a difficult task, especially in the case of chronic, debilitating illness like chronic obstructive pulmonary disease. The available data show that patients are still receiving inadequate end-of-life care.Palliative Care represents an important resource in the completion of good medical care which can help to take the best care of patients and their families. The availability of palliative care is very limited in much of the world.

Aim

The current study has been undertaken to know the End of Life Physical Problems of Patients in Chottanikkara Panchayt,Keralabefore and last one year of their death.

Materials and Methods

For the purpose of study,50 respondents were selected as samples by adopting convenience sampling method. Analysis was done via statistical software 17.0. using statistical tool ,viz. One Way ANOVA(Post Hoc Test Tukey HSD).

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Resultse study revealed that 36% of the patients were suffering from the problems of old age and disability and34% of them were suffering from cancer. There was no significant difference in the physical problem, viz. bed sore, Agitation, Dehydration, Constipation, Cachexia, Loss of function, Dyspnea(except cancer patients and patients suffering from Problems of Old Age and Disability) suffered by the patients suffering from different types of diseases before one year to last 2 weeks of their death. There was no significant difference in the physical problem- Nausea suffered by the Cancer patients and patients with Spinal injuries and Dyspnea suffered by the cancer patients and patients suffering from Problems of Old Age and Disability and Vomiting suffered by the Cancer patients and patients with Chronic Liver Disease before one year to last two weeks of their death.There was a significant difference in the physical problem- Nausea' suffered by the cancer patients when compared to patients suffering from Problems of old age and Disability and Chronic Kidney Disease and Vomiting suffered by cancer patients and patients suffering from Problems of Old Age and Disability Chronic Kidney Disease, before one year to last 2 weeks of their death.

Conclusion

There was a significant difference in the physical problem- Nausea' suffered by the cancer patients when compared to patients suffering from Problems of old age and Disability and Chronic Kidney Disease and Vomiting suffered by cancer patients and patients suffering from Problems of Old Age and Disability Chronic Kidney Disease, before one year to last 2 weeks of their death.

Key words: Palliative Care, Analysis of Variance, Chronic Kidney Disease, Dyspnea, Nausea.

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Introduction

Pain and Palliative care is a wonderful social movement which is gaining momentum across the villages of Kerala. This movement has only limited coverage in India as well as in Kerala. Even across the world, palliative care is not much developed and no comparative data relating to the distribution of services is available. The Marie Curie Memorial Foundation (1952)[1]published a

survey report on end-of-life care of patients in U.K. in revealed appalling conditions of suffering and deprivation among many patients dying of cancer at home. Eduardo Bruera (2004)[2], made a review of the outcomes of the first 344 admissions to thePalliative Care Inpatient Service (PCIS) at their comprehensivecancer center.The main cancer diagnoseswere thoracic or head and neck (44%), gastrointestinal (25%),and hematologic malignancy (8%). The main referral symptomswere pain (44%), nausea (41%), fatigue (39%), and dyspnea (38%).The median length of stay in the PCIS was 7 days (range, 1 to58 days). Ruth Lagman, ,Nilo Rivera,Declan Walsh, Susan LeGrand, Mellar P.Davis,(2007)[3] studied the clinical characteristics and medical interventions of the100 consecutive cancer admissions to the acute care inpatientpalliative medicine unit at the Cleveland Clinic for two months. They found out that most admissions were referredby hematology-oncology and had prior antineoplastic therapy.Reasons for admission were symptom control and cancer-relatedcomplications. Patients underwent invasive diagnostic and therapeuticprocedures, hydration, transfusions, radiation, or chemotherapy,or a combination, during their admission. Most were dischargedhome with hospice care or had outpatient clinic follow-up. Themortality rate was 20 per cent. An acute inpatient palliative medicine unit within a tertiarylevel medical center has a definable and important role in comprehensivecancer care.Sheila Payne (1998)[4] made an attempt to identify the prevalence of depression in patients who require palliative care. It was argued that it was possible to differentiate between three categories of depression. These were transitory feelings of sadness, long-term adjustments to loss, and persistent severe depression.

Significance of the study

India is country which is characterized by increasing number of aging population and prevalence of advanced cancer. There is the immense and immediate need of palliative care in India. Palliative Care, a developing Specialty in India especially in Kerala need to be highlighted to the general public who are unaware of it. The present study tries to draw a clear cut spread on the need of pain and palliative care for patients under acute suffering and to draw a clear foot prints of patients' sufferings during different time frame of diseases keeping the study to the context of physical frame work. In this context the study titled "End of life physical problems of patients" assumes greater significance.

Objective of the study

The study tries to draw a framework on the End of Life Physical Problems of PatientsinChottanikkara Panchayat, Kerala to the context of physical problems of the deceased patients before one year of their death.

Hypothesis of the study

H_{o1} There is no significant difference in the nature of physical problems suffered by the deceased patients before and last one year before their death.

Selection of the sample

The analysis was made on the basis of the perceptions of the family members of the deceased patients. The list of deceased patients was prepared from the data base maintained by the public health dept of Chottanikkara Panchayat, Ernakulum District. A sample of 50 deceased Patients in Ward IX of Chottanikkara Panchayat whose death took place in 2014 was selected by adopting Convenience sampling method.

Collection of data

The data for the study were collected from both primary and secondary sources. The primary data were collected from the family members of the deceased patients based on structured questionnaires. The secondary data were collected from reports, books and web sites.

Tools of analysis

For the purpose of analysis, statistical tools like average, percentage and Freidman test were used. To study the need for palliative care relevant questionnaire was developed with 5 point scale. The analysis was made by using statistical techniques viz. Friedman repeated measures analysis of variance on ranks and percentages. The Friedman test is the non-parametric alternative to the one-way ANOVA (Post Hoc Test Tukey HSD). **Tukey's HSD (honest significant difference) test** or the **Tukey–Kramer method**, is a single-step multiple comparison procedure and statistical test. It can be used on raw data or in conjunction with an ANOVA (Post-hoc analysis) to find means that are significantly different from each other. Named after John Tukey, it compares all possible pairs of means, and is based on a *studentized range*

distribution (*q*). Tukey's test compares the means of every treatment to the means of every other treatment; that is, it applies simultaneously to the set of all pair wise comparisons and identifies any difference between two means that is greater than the expected standard error. It was used to compare the effect of a series of different experimental treatments on different groups.

Period of Study

The survey was conducted during the period October 2014 to January 2015.

End of Life Physical Problems of Patients -Analysis

Table 1 Age of Death of the Deceased Patients

Age	Frequency	Percent
30-40	5	10
40-50	4	8
50-60	8	16
60 years and Above	33	66
Total	50	100.0

Source: primary data.

66 % of patients died at the age of 60 years and above. 16% died at the age of 50 to 60 years and 17 % died at the age of 30 to 50 years (Table 1).

Table 2 Gender of the Deceased Patients

Gender	Frequency	Percent
Male	34	68
Female	16	32
Total	50	100.0

Source: primary data

Gender composition of deceased patients comprised of 68% males and 32 % females (Table 2).

Table 3 Type of Disease Suffered by the Deceased Patients Causing Death

Type of Disease	Frequency	percent
Cancer	17	34.0
Spinal Injuries	2	4.0
Problems of Old Age and Disability	18	36.0
Chronic Kidney Disease	5	10.0
Chronic Heart Disease	3	6.0
Chronic Liver Disease	5	10.0
Total	50	100.0

Source: primary data.

36% of the patients were suffering from the problems of old age and disability and 34% of them were cancer patients (Table 3).

Spinal Injuries -SI,Problems of Old Age and Disability-POD, Chronic Kidney Disease-CKD,Chronic Heart Disease-CHD,Chronic Liver Disease-CLD.

Table 4Bed sore and Type of disease of the deceased patients (Post Hoc Test Tukey HSD)

Type of Disease	Type of Disease	Before 1 Year		Before 6 Months		Before 3 Months		Before 2 Weeks		Last 2 Weeks	
		Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value
Cancer	SI	-.706	.940	-.706	.940	-1.765	.530	-2.118	.518	-2.118	.579
	POD	-.484	.733	-.484	.733	-1.320	.998	-1.229	.248	-.784	.761
	CKD	-.706	.757	-.706	.757	-1.765	1.000	-2.118	.133	-2.118	.177
	CHD	-.706	.881	-.706	.881	-1.765	1.000	1.882	.452	-2.118	.384
	CLD	-.706	.757	-.706	.757	-1.765	1.000	-2.118	.133	-2.118	.177

SI	Cancer	.706	.940	.706	.940	1.765	.071	2.118	.518	2.118	.579
	POD	.222	1.000	.222	1.000	.444	.998	.889	.977	1.333	.904
	CKD	.000	1.000	.000	1.000	.000	.987	.000	1.000	.000	1.000
	CHD	.000	1.000	.000	1.000	.000	.995	4.000	.100	.000	1.000
	CLD	.000	1.000	.000	1.000	.000	.987	.000	1.000	.000	1.000
POD	Cancer	.484	.733	.484	.733	1.320	.141	1.229	.248	.784	.761
	SI	-.222	1.000	-.222	1.000	-.444	1.000	-.889	.977	-1.333	.904
	CKD	-.222	.998	-.222	.998	-.444	.987	-.889	.888	-1.333	.651
	CHD	-.222	.999	-.222	.999	-.444	1.000	3.111	.042	-1.333	.817
	CLD	-.222	.998	-.222	.998	-.444	1.000	-.889	.888	-1.333	.651
CKD	Cancer	.706	.757	.706	.757	1.765	.334	2.118	.133	2.118	.177
	SI	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	POD	.222	.998	.222	.998	.444	.995	.889	.888	1.333	.651
	CHD	.000	1.000	.000	1.000	.000	1.000	4.000	.019	.000	1.000
	CLD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
CHD	Cancer	.706	.881	.706	.881	1.765	.141	-1.882	.452	2.118	.384
	SI	.000	1.000	.000	1.000	.000	1.000	-4.000	.100	.000	1.000
	POD	.222	.999	.222	.999	.444	.987	-3.111	.042	1.333	.817
	CKD	.000	1.000	.000	1.000	.000	1.000	-4.000	.019	.000	1.000
	CLD	.000	1.000	.000	1.000	.000	1.000	-4.000	.019	.000	1.000
CLD	Cancer	.706	.757	.706	.757	1.765	.530	2.118	.133	2.118	.177
	SI	.000	1.000	.000	1.000	.000	.998	.000	1.000	.000	1.000
	POD	.222	.998	.222	.998	.444	1.000	.889	.888	1.333	.651

	CKD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CHD	.000	1.000	.000	1.000	.000	1.000	4.000	.019	.000	1.000

Source: Primary data.

*. The mean difference is significant at the 0.01 level

Table 4 shows whether there is any significant difference in the physical problem- bed sore suffered by the patients suffering from different types of diseases before one year to last 2 weeks of their death . One-way ANOVA Post Hoc Test Tukey HSD was applied. The test result revealed that there was no significant difference in the physical problem- bed sore suffered by the patients suffering from different types of diseases before one year to last 2 weeks of their death, since p values are above 0.01.

Table 5Loss of Mobility/ Dependency and Type of disease of the deceased patients(Post Hoc Test Tukey HSD)

Type of Disease	Type of Disease	Before 1 Year		Before 6 Months		Before 3 Months		Before 2 Weeks		Last 2 Weeks	
		Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value
Cancer	SI	-1.412	.788	-1.412	.788	-2.471	.178	-2.412	.319	-3.294	.014
	POD	-.745	.662	-.745	.662	.752	.593	.810	.640	-.072	1.000
	CKD	-1.412	.417	-1.412	.417	-2.471	.012	-2.412	.042	**-3.294***	.000
	CHD	-1.412	.640	-1.412	.640	-2.471	.065	-2.412	.153	**-3.294***	.002
	CLD	-1.412	.417	-1.412	.417	-2.471	.012	-.012	1.000	.706	.881
SI	Cancer	1.412	.788	1.412	.788	2.471	.178	2.412	.319	3.294	.014
	POD	.667	.990	.667	.990	3.222	.033	3.222	.080	3.222	.016
	CKD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CHD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CLD	.000	1.00	.000	1.00	.000	1.000	2.400	.449	**4.000***	.006

			0		0						
POD	Cancer	.745	.662	.745	.662	-.752	.593	-.810	.640	.072	1.000
	SI	-.667	.990	-.667	.990	-3.222	.033	-3.222	.080	-3.222	.016
	CKD	-.667	.944	-.667	.944	**-3.222***	.000	**-3.222***	.002	**-3.222***	.000
	CHD	-.667	.977	-.667	.977	**-3.222***	.006	-3.222	.021	**-3.222***	.002
	CLD	-.667	.944	-.667	.944	**-3.222***	.000	-.822	.900	.778	.828
CKD	Cancer	1.412	.417	1.412	.417	2.471	.012	2.412	.042	**3.294***	.000
	SI	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	POD	.667	.944	.667	.944	**3.222***	.000	**3.222***	.002	**3.222***	.000
	CHD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CLD	.000	1.000	.000	1.000	.000	1.000	2.400	.165	**4.000***	.000
CHD	Cancer	1.412	.640	1.412	.640	2.471	.065	2.412	.153	**3.294***	.002
	SI	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	POD	.667	.977	.667	.977	**3.222***	.006	3.222	.021	**3.222***	.002
	CKD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CLD	.000	1.000	.000	1.000	.000	1.000	2.400	.300	**4.000***	.001
CLD	Cancer	1.412	.417	1.412	.417	2.471	.012	.012	1.000	-.706	.881
	SI	.000	1.000	.000	1.000	.000	1.000	-2.400	.449	**-4.000***	.006
	POD	.667	.944	.667	.944	**3.222***	.000	.822	.900	-.778	.828
	CKD	.000	1.000	.000	1.000	.000	1.000	-2.400	.165	**-4.000***	.000
	CHD	.000	1.000	.000	1.000	.000	1.000	-2.400	.300	**-4.000***	.001

Source: Primary data.

*. The mean difference is significant at the 0.01 level.

Table 5 shows whether there is any significant difference in the physical problem- Loss of Mobility/ Dependency suffered by the patients suffering from different types of diseases before

one year to last 2 weeks of their death. The test result revealed that there was no significant difference in the physical problem- Loss of Mobility/ Dependency suffered by the patients suffering from different types of diseases before one year to 6 months before their death, since p values are above 0.01.But it is revealed that there was a significant difference in the physical problem- Loss of Mobility/ Dependency suffered by the cancer patients and patients suffering from Chronic Kidney Disease and Chronic Heart Diseaseand betweenpatients with Spinal Injury and Chronic Liver Disease during last 2 weeks before their death.Similarly,there was a significant difference in the physical problem- Loss of Mobility/ Dependency between patients having Problems of Old Age and Disability and Chronic Kidney Disease before 3 months tolast 2 weeks of their death.A significant difference in this aspect was also revealed in the case of patients having Problems of Old Age and Disability and Chronic Heart Disease during the period 3 months to last 2 weeks and in the case of patients havingProblems of Old Age and Disability andChronic Liver Disease before 3 months of their death since p values are less than 0.01.

Table 6 Fungating Wounds and Type of disease of the deceased patients ((Post Hoc Test Tukey HSD)

Type of Disease	Type of Disease	Before 1 Year		Before 6 Months		Before 3 Months		Before 2 Weeks		Last 2 Weeks	
		Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value
Cancer	SI	.000	1.000	.000	1.000	-1.765	.706	-1.941	.632	-2.118	.586
	POD	.889	.155	.889	.155	-.431	.970	.059	1.000	-.007	1.000
	CKD	.000	1.000	.000	1.000	-1.765	.302	-1.941	.223	-2.118	.182
	CHD	.000	1.000	.000	1.000	-1.765	.531	-1.941	.443	-2.118	.392
	CLD	.000	1.000	.000	1.000	-1.765	.302	-1.941	.223	-2.118	.182
SI	Cancer	.000	1.000	.000	1.000	1.765	.706	1.941	.632	2.118	.586
	POD	.889	.870	.889	.870	1.333	.884	2.000	.600	2.111	.586
	CKD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000

	CHD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CLD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
POD	Cancer	-.889	.155	-.889	.155	.431	.970	-.059	1.000	.007	1.000
	SI	-.889	.870	-.889	.870	-1.333	.884	-2.000	.600	-2.111	.586
	CKD	-.889	.569	-.889	.569	-1.333	.601	-2.000	.190	-2.111	.180
	CHD	-.889	.761	-.889	.761	-1.333	.784	-2.000	.405	-2.111	.391
	CLD	-.889	.569	-.889	.569	-1.333	.601	-2.000	.190	-2.111	.180
CKD	Cancer	.000	1.000	.000	1.000	1.765	.302	1.941	.223	2.118	.182
	SI	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	POD	.889	.569	.889	.569	1.333	.601	2.000	.190	2.111	.180
	CHD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CLD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
CHD	Cancer	.000	1.000	.000	1.000	1.765	.531	1.941	.443	2.118	.392
	SI	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	POD	.889	.761	.889	.761	1.333	.784	2.000	.405	2.111	.391
	CKD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CLD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
CLD	Cancer	.000	1.000	.000	1.000	1.765	.302	1.941	.223	2.118	.182
	SI	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	POD	.889	.569	.889	.569	1.333	.601	2.000	.190	2.111	.180
	CKD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CHD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000

Source: Primary data.

*. The mean difference is significant at the 0.01 level.

Table 6 shows whether there is any significant difference in the physical problem- bed 'fungating wounds' suffered by the patients suffering from different types of diseases before one year tolast 2 weeks of their death. The test result revealed that there was no significant difference in the physical problem- fungating wounds' suffered by the patients suffering from different types of diseases before one year to last2 weeks of their death, since p values are above 0.01.

Table 7 Agitation and Type of disease of the deceased patients ((Post Hoc Test Tukey HSD)

Type of Disease	Type of Disease	Before 1 Year		Before 6 Months		Before 3 Months		Before 2 Weeks		Last 2 Weeks	
		Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value
Cancer	SI	.000	1.000	.000	1.000	-1.765	.706	-1.941	.632	-2.118	.579
	POD	.444	.581	.444	.581	-.431	.970	-.608	.889	-.784	.761
	CKD	.000	1.000	.000	1.000	-1.765	.302	-1.941	.223	-2.118	.177
	CHD	.000	1.000	.000	1.000	-1.765	.531	-1.941	.443	-2.118	.384
	CLD	.000	1.000	.000	1.000	-1.765	.302	-1.941	.223	-2.118	.177
SI	Cancer	.000	1.000	.000	1.000	1.765	.706	1.941	.632	2.118	.579
	POD	.444	.975	.444	.975	1.333	.884	1.333	.890	1.333	.904
	CKD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CHD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CLD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
POD	Cancer	-.444	.581	-.444	.581	.431	.970	.608	.889	.784	.761
	SI	-.444	.975	-.444	.975	-1.333	.884	-1.333	.890	-1.333	.904
	CKD	-.444	.881	-.444	.881	-1.333	.601	-1.333	.617	-1.333	.651
	CHD	-.444	.948	-.444	.948	-1.333	.784	-1.333	.795	-1.333	.817
	CLD	-.444	.881	-.444	.881	-1.333	.601	-1.333	.617	-1.333	.651
CKD	Cancer	.000	1.000	.000	1.000	1.765	.302	1.941	.223	2.118	.177
	SI	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	POD	.444	.881	.444	.881	1.333	.601	1.333	.617	1.333	.651
	CHD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CLD	.000	1.00	.000	1.00	.000	1.00	.000	1.00	.000	1.00

			0		0		0		0		0
CHD	Cancer	.000	1.000	.000	1.000	1.765	.531	1.941	.443	2.118	.384
	SI	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	POD	.444	.948	.444	.948	1.333	.784	1.333	.795	1.333	.817
	CKD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CLD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
CLD	Cancer	.000	1.000	.000	1.000	1.765	.302	1.941	.223	2.118	.177
	SI	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	POD	.444	.881	.444	.881	1.333	.601	1.333	.617	1.333	.651
	CKD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CHD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000

Source: Primary data.

*. The mean difference is significant at the 0.01 level.

Table 7 shows whether there is any significant difference in the physical problem- 'Agitation' suffered by the patients suffering from different types of diseases before one year to last 2 weeks of their death . The test result revealed that there was no significant difference in the physical problem- Agitation' suffered by the patients suffering from different types of diseases before one year to last 2 weeks of their death, since p values are above 0.01.

Table 8 Pain and Type of disease of the deceased patients ((Post Hoc Test Tukey HSD)

Type of Disease	Type of Disease	Before 1 Year		Before 6 Months		Before 3 Months		Before 2 Weeks		Last 2 Weeks	
		Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value
Cancer	SI	**-4.000***	.000	**-3.882***	.000	**-3.765***	.006	-3.647	.022	-3.529	.102
	POD	**-3.333***	.000	**-3.216***	.000	**-2.320***	.000	**-2.092***	.002	-1.307	.265
	CKD	**-4.000***	.000	**-2.282***	.002	**-2.165**	.030	-2.047	.089	-1.929	.285
	CHD	.000	1.000	.118	1.00	.235	1.000	.353	.999	.471	.998

					0						
	CLD	-**4.000***	.000	-**3.882***	.000	**-3.765***	.000	-**3.647***	.000	-1.929	.285
SI	Cancer	**4.000***	.000	**3.882***	.000	**3.765***	.006	3.647	.022	3.529	.102
	POD	.667	.898	.667	.963	1.444	.697	1.556	.717	2.222	.549
	CKD	.000	1.000	1.600	.512	1.600	.709	1.600	.785	1.600	.886
	CHD	**4.000***	.000	**4.000***	.003	4.000	.024	4.000	.051	4.000	.153
	CLD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	1.600	.886
POD	Cancer	**3.333***	.000	**3.216***	.000	**2.320***	.000	**2.092***	.002	1.307	.265
	SI	-.667	.898	-.667	.963	-1.444	.697	-1.556	.717	-2.222	.549
	CKD	-.667	.637	.933	.550	.156	1.000	.044	1.000	-.622	.981
	CHD	**3.333***	.000	**3.333***	.000	2.556	.041	2.444	.104	1.778	.596
	CLD	-.667	.637	-.667	.834	-1.444	.288	-1.556	.312	-.622	.981
CKD	Cancer	**4.000***	.000	**2.282***	.002	2.165	.030	2.047	.089	1.929	.285
	SI	.000	1.000	-1.600	.512	-1.600	.709	-1.600	.785	-1.600	.886
	POD	.667	.637	-.933	.550	-.156	1.000	-.044	1.000	.622	.981
	CHD	**4.000***	.000	2.400	.048	2.400	.159	2.400	.245	2.400	.441
	CLD	.000	1.000	-1.600	.214	-1.600	.421	-1.600	.528	.000	1.000
CHD	Cancer	.000	1.000	-.118	1.000	-.235	1.000	-.353	.999	-.471	.998
	SI	-**4.000***	.000	-**4.000***	.003	-4.000	.024	-4.000	.051	-4.000	.153
	POD	-**3.333***	.000	-**3.333***	.000	-2.556	.041	-2.444	.104	-1.778	.596
	CKD	-**4.000***	.000	-2.400	.048	-2.400	.159	-2.400	.245	-2.400	.441
	CLD	-**4.000***	.000	-**4.000***	.000	**-4.000***	.002	-**4.000***	.007	-2.400	.441
CLD	Cancer	**4.000***	.000	**3.882***	.000	**3.765***	.000	**3.647***	.000	1.929	.285
	SI	.000	1.000	.000	1.000	.000	1.000	.000	1.000	-1.600	.886
	POD	.667	.637	.667	.834	1.444	.288	1.556	.312	.622	.981
	CKD	.000	1.000	1.600	.214	1.600	.421	1.600	.528	.000	1.000
	CHD	**4.000***	.000	**4.000***	.000	**4.000***	.002	**4.000***	.007	2.400	.441

Source: Primary data.

*. The mean difference is significant at the 0.01 level.

Table 8 shows whether there is any significant difference in the physical problem- pain of the patients sufferingfrom different types of diseases before one year to last 2 weeks of their death.The test result revealed that there was no significant difference in the physical problem-pain' suffered by the patients having different types of diseases during last 2 weeks of their death, since p values are above 0.01.However,the test result revealed that there was a significant difference in the intensity of Painsuffered by the cancer patients when compared to patients suffering from Spinal injuries and Chronic Kidney Disease and Chronic Liver Diseasebefore one year to 3 months before their death and there wasa significant difference in the intensity of Painsuffered by the cancer patients when compared to patients suffering from Problems of old age before 3 months of their death. Therewas a significant difference in the intensity of Painsuffered by the cancer patients when compared to patients suffering from Problems of old age and Disability and Chronic Liver Disease two weeks before their death.

Similarly therewas a significant difference in the physical problem- Pain suffered by the patients with spinal injuries when compared to patients suffering from Chronic Heart Diseasebefore one year and 6 months before their death.A significant difference in this aspect was also revealed in the case of patients with Problems of Old Age and Disability and Chronic Heart Disease during the same period and in the case of patients with Chronic Kidney Diseaseand Chronic Heart Diseasebefore one year of their death and in the case of patients with Chronic Liver Disease and Chronic Heart Diseasebefore one year to two weeks before their death since p values are less than 0.01.

Table 9 Breathlessness and Type of disease of the deceased patients (Post Hoc Test Tukey HSD)

Type of Disease	Type of Disease	Before 1 Year		Before 6 Months		Before 3 Months		Before 2 Weeks		Last 2 Weeks	
		Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value
	SI	-3.294	.047	-3.176	.079	-3.059	.089	-2.941	.000	-2.824	.230

Cancer	POD	**-2.072***	.002	-1.510	.057	-1.170	.212	-.830	1.000	-.712	.803
	CKD	**-3.294***	.001	**-3.176***	.002	**-3.059***	.003	**-2.941***	.043	-2.824	.020
	CHD	.706	.971	.824	.954	.941	.914	1.059	.093	1.176	.867
	CLD	**-3.294***	.001	**-3.176***	.002	**-3.059***	.003	**-2.941***	.001	-2.824	.020
SI	Cancer	3.294	.047	3.176	.079	3.059	.089	2.941	.159	2.824	.230
	POD	1.222	.871	1.667	.688	1.889	.544	2.111	.645	2.111	.540
	CKD	.000	1.000	.000	1.000	.000	1.000	.000	.009	.000	1.000
	CHD	4.000	.049	4.000	.065	4.000	.057	4.000	.896	4.000	.112
	CLD	.000	1.000	.000	1.000	.000	1.000	.000	.009	.000	1.000
POD	Cancer	**2.072***	.002	1.510	.057	1.170	.212	.830	.159	.712	.803
	SI	-1.222	.871	-1.667	.688	-1.889	.544	-2.111	.495	-2.111	.540
	CKD	-1.222	.572	-1.667	.277	-1.889	.148	-2.111	1.000	-2.111	.145
	CHD	2.778	.043	2.333	.161	2.111	.232	1.889	.088	1.889	.466
	CLD	-1.222	.572	-1.667	.277	-1.889	.148	-2.111	1.000	-2.111	.145
CKD	Cancer	**3.294***	.001	**3.176***	.002	**3.059***	.003	**2.941***	.645	2.824	.020
	SI	.000	1.000	.000	1.000	.000	1.000	.000	.495	.000	1.000
	POD	1.222	.572	1.667	.277	1.889	.148	2.111	.116	2.111	.145
	CHD	**4.000***	.007	4.000	.010	**4.000***	.008	4.000	.420	4.000	.023
	CLD	.000	1.000	.000	1.000	.000	1.000	.000	.116	.000	1.000
CHD	Cancer	-.706	.971	-.824	.954	-.941	.914	-1.059	.009	-1.176	.867
	SI	-4.000	.049	-4.000	.065	-4.000	.057	-4.000	1.000	-4.000	.112
	POD	-2.778	.043	-2.333	.161	-2.111	.232	-1.889	.116	-1.889	.466
	CKD	**-4.000***	.007	-4.000	.010	**-4.000***	.008	-4.000	.016	-4.000	.023
	CLD	**-4.000***	.007	-4.000	.010	**-4.000***	.008	-4.000	1.000	-4.000	.023
	Cancer	**3.294***	.001	**3.176***	.002	**3.059***	.003	**2.941**	.896	2.824	.020

CLD								*			
	SI	.000	1.000	.000	1.000	.000	1.000	.000	.088	.000	1.000
	POD	1.222	.572	1.667	.277	1.889	.148	2.111	.420	2.111	.145
	CKD	.000	1.000	.000	1.000	.000	1.000	.000	.016	.000	1.000
	CHD	**4.000***	.007	4.000	.010	**4.000***	.008	4.0000	.016	4.000	.023

Source: Primary data.

*. The mean difference is significant at the 0.01 level.

Table 9 shows whether there is any significant difference in the physical problem- Breathlessness of the patients before one year to last2 weeks of their death. The test result revealed that there was no significant difference in the physical problem- Breathlessness suffered by the patients having different types of diseases during last 2 weeks of their death, since p values are above 0.01.

However, the test result revealed that there was a significant difference in the problem of Breathlessness suffered by the cancer patients when compared to patients suffering from Problems of old age and Disability before one year of their death and the Cancer patients and patients with Chronic Liver Diseaseand Chronic Kidney Diseasebefore one year to 2 weeks before their death.

There was a significant difference in the problem of Breathlessness suffered by the Chronic Kidney Disease patients when compared to patients suffering from Chronic Heart Disease before one year and before 3 months of their death and similar difference is visible in the case of Chronic Heart Diseasepatients andChronic Liver Disease.

Table 10 Fatigue and Type of disease of the deceased patients (Post Hoc Test Tukey HSD)

Type of Disease	Type of Disease	Before 1 Year		Before 6 Months		Before 3 Months		Before 2 Weeks		Last 2 Weeks	
		Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value
	SI	**-4.000***	.000	**-3.882***	.004	-3.765	.026	-	.053	-3.529	.091

Cancer								3.647			
	POD	**-3.111***	.000	**-2.771***	.000	**-2.209***	.002	-1.536	.086	-1.418	.173
	CKD	**-4.000***	.000	-2.282	.018	-2.165	.087	-2.047	.166	-1.929	.265
	CHD	.000	1.000	.118	1.000	.235	1.000	.353	.999	.471	.998
	CLD	-1.600	.065	-1.482	.263	-1.365	.521	-1.247	.676	-1.129	.794
SI	Cancer	**4.000***	.000	**3.882***	.004	3.765	.026	3.647	.053	3.529	.091
	POD	.889	.884	1.111	.870	1.556	.758	2.111	.530	2.111	.582
	CKD	.000	1.000	1.600	.705	1.600	.818	1.600	.854	1.600	.878
	CHD	**4.000***	.003	4.000	.023	4.000	.072	4.000	.106	4.000	.139
	CLD	2.400	.115	2.400	.279	2.400	.446	2.400	.516	2.400	.569
POD	Cancer	**3.111***	.000	**2.771***	.000	**2.209***	.002	1.536	.086	1.418	.173
	SI	-.889	.884	-1.111	.870	-1.556	.758	-2.111	.530	-2.111	.582
	CKD	-.889	.601	.489	.978	.044	1.000	-.511	.990	-.511	.992
	CHD	**3.111***	.001	2.889	.014	2.444	.139	1.889	.456	1.889	.510
	CLD	1.511	.091	1.289	.407	.844	.888	.289	.999	.289	.999
CKD	Cancer	**4.000***	.000	2.282	.018	2.165	.087	2.047	.166	1.929	.265
	SI	.000	1.000	-1.600	.705	-1.600	.818	-1.600	.854	-1.600	.878
	POD	.889	.601	-.489	.978	-.044	1.000	.511	.990	.511	.992
	CHD	**4.000***	.000	2.400	.156	2.400	.297	2.400	.365	2.400	.419
	CLD	2.400	.014	.800	.931	.800	.963	.800	.972	.800	.977
CHD	Cancer	.000	1.000	-.118	1.000	-.235	1.000	-.353	.999	-.471	.998
	SI	**-4.000***	.003	-4.000	.023	-4.000	.072	-4.000	.106	-4.000	.139
	POD	**-3.111***	.001	-2.889	.014	-2.444	.139	-1.889	.456	-1.889	.510
	CKD	**-4.000***	.000	-2.400	.156	-2.400	.297	-2.400	.365	-2.400	.419
	CLD	-1.600	.361	-1.600	.573	-1.600	.720	-1.600	.769	-1.600	.803
CLD	Cancer	1.600	.065	1.482	.263	1.365	.521	1.247	.676	1.129	.794
	SI	-2.400	.115	-2.400	.279	-2.400	.446	-2.400	.516	-2.400	.569
	POD	-1.511	.091	-1.289	.407	-.844	.888	-.289	.999	-.289	.999
	CKD	-2.400	.014	-.800	.931	-.800	.963	-.800	.972	-.800	.977
	CHD	1.600	.361	1.600	.573	1.600	.720	1.600	.769	1.600	.803

Source: Primary data.

*. The mean difference is significant at the 0.01 level.

Table 10 shows whether there is any significant difference in the physical problem- Fatigue of the patients before one year to last 2 weeks of their death. The test result revealed that there was no significant difference in the physical problem- Fatigue suffered by the patients having different types of diseases before two weeks and during last 2 weeks before their death, since p values are above 0.01.However, the test result revealed that there was a significant difference in the problem of Fatigue suffered by the cancer patients when compared to patients suffering from Chronic Kidney Disease before one year of their death and the Cancer patients and patients with Spinal injuries before one year and 6monthsbefore their death and the Cancer patients and patientsProblems of Old Age and Disabilitybefore one year to 3 months before their death.

There wasa significant difference in the physical problem- Fatigue suffered by the cancer patients and patients suffering fromChronic Kidney Diseaseand Chronic Heart Disease , and patientssuffering from Problems of Old Age and Disability and patients with Chronic Heart Diseaseone year before their death.

Table 11 Drowsiness and Type of disease of the deceased patients (Post Hoc Test Tukey HSD)

Type of Disease	Type of Disease	Before 1 Year		Before 6 Months		Before 3 Months		Before 2 Weeks		Last 2 Weeks	
		Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value
Cancer	SI	**-3.765***	.006	-3.765	.012	-3.765	.018	-3.765	.018	-3.765	.018
	POD	**-2.876***	.000	**-2.098***	.001	**-1.987***	.004	**-1.987***	.004	-1.542	.040
	CKD	-1.365	.359	.235	.999	.235	1.000	.235	1.000	.235	1.000
	CHD	.235	1.000	.235	1.000	.235	1.000	.235	1.000	.235	1.000
	CLD	-1.365	.359	-1.365	.432	-1.365	.474	-1.365	.474	-1.365	.474
	Cance	**3.765***	.006	3.765	.012	3.765	.018	3.765	.018	3.765	.018

SI	r										
	POD	.889	.947	1.667	.628	1.778	.601	1.778	.601	2.222	.356
	CKD	2.400	.288	4.000	.020	4.000	.028	4.000	.028	4.000	.028
	CHD	4.000	.024	4.000	.041	4.000	.054	4.000	.054	4.000	.054
	CLD	2.400	.288	2.400	.357	2.400	.399	2.400	.399	2.400	.399
POD	Cancer	**2.876***	.000	**2.098***	.001	**1.987***	.004	**1.987***	.004	1.542	.040
	SI	-.889	.947	-1.667	.628	-1.778	.601	-1.778	.601	-2.222	.356
	CKD	1.511	.246	2.333	.027	2.222	.053	2.222	.053	1.778	.191
	CHD	**3.111***	.007	2.333	.116	2.222	.180	2.222	.180	1.778	.406
	CLD	1.511	.246	.733	.911	.622	.961	.622	.961	.178	1.000
CKD	Cancer	1.365	.359	-.235	.999	-.235	1.000	-.235	1.000	-.235	1.000
	SI	-2.400	.288	-4.000	.020	-4.000	.028	-4.000	.028	-4.000	.028
	POD	-1.511	.246	-2.333	.027	-2.222	.053	-2.222	.053	-1.778	.191
	CHD	1.600	.582	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CLD	.000	1.000	-1.600	.497	-1.600	.539	-1.600	.539	-1.600	.539
CHD	Cancer	-.235	1.000	-.235	1.000	-.235	1.000	-.235	1.000	-.235	1.000
	SI	-4.000	.024	-4.000	.041	-4.000	.054	-4.000	.054	-4.000	.054
	POD	**-3.111***	.007	-2.333	.116	-2.222	.180	-2.222	.180	-1.778	.406
	CKD	-1.600	.582	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CLD	-1.600	.582	-1.600	.647	-1.600	.683	-1.600	.683	-1.600	.683
CLD	Cancer	1.365	.359	1.365	.432	1.365	.474	1.365	.474	1.365	.474
	SI	-2.400	.288	-2.400	.357	-2.400	.399	-2.400	.399	-2.400	.399
	POD	-1.511	.246	-.733	.911	-.622	.961	-.622	.961	-.178	1.000
	CKD	.000	1.000	1.600	.497	1.600	.539	1.600	.539	1.600	.539
	CHD	1.600	.582	1.600	.647	1.600	.683	1.600	.683	1.600	.683

Source: Primary data.

*. The mean difference is significant at the 0.01 level.

Table 11 shows whether there is any significant difference in the physical problem- Drowsiness of the patients before one year to last 2 weeks of their death. The test result revealed that there is no significant difference in the physical problem- Drowsiness suffered by the patients having

different types of diseases before two weeks and during last 2 weeks before their death, since p values are above 0.01.

There was a significant difference in the physical problem- Drowsiness suffered by the cancer patients and patients suffering fromSpinal injuriesone year before their death.

and between cancer patients and patients suffering from Problems of Old Age and Disabilitybefore one year totwo weeks before their death.

There was a significant difference in the physical problem- Drowsiness suffered by the patients suffering fromChronic Heart Disease and patients suffering from Problems of Old Age and Disability one year before their death.

Table 12 Insomnia and Type of disease of the deceased patients (Post Hoc Test Tukey HSD)

Type of Disease	Type of Disease	Before 1 Year		Before 6 Months		Before 3 Months		Before 2 Weeks		Last 2 Weeks	
		Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value
Cancer	SI	-2.824	.242	1.176	.926	1.176	.931	1.882	.694	.941	.968
	POD	-1.935	.018	-1.379	.146	-1.157	.323	-.451	.971	-1.281	.188
	CKD	-.424	.996	1.176	.716	1.176	.728	1.882	.287	.941	.853
	CHD	1.176	.874	1.176	.856	1.176	.864	1.882	.516	.941	.933
	CLD	-2.824	.023	-2.824	.017	-2.824	.019	-2.118	.177	**-3.059***	.006
SI	Cancer	2.824	.242	-1.176	.926	-1.176	.931	-1.882	.694	-.941	.968
	POD	.889	.980	-2.556	.304	-2.333	.421	-2.333	.471	-2.222	.435
	CKD	2.400	.540	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CHD	4.000	.120	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CLD	.000	1.000	-4.000	.056	-4.000	.062	-4.000	.083	-4.000	.048
POD	Cancer	1.935	.018	1.379	.146	1.157	.323	.451	.971	1.281	.188
	SI	-.889	.980	2.556	.304	2.333	.421	2.333	.471	2.222	.435
	CKD	1.511	.495	2.556	.037	2.333	.078	2.333	.103	2.222	.085
	CHD	3.111	.053	2.556	.142	2.333	.232	2.333	.276	2.222	.244

	CLD	-.889	.901	-1.444	.506	-1.667	.363	-1.667	.413	-1.778	.257
CKD	Cancer	.424	.996	-1.176	.716	-1.176	.728	-1.882	.287	-.941	.853
	SI	-2.400	.540	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	POD	-1.511	.495	-2.556	.037	-2.333	.078	-2.333	.103	-2.222	.085
	CHD	1.600	.785	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CLD	-2.400	.238	**-4.000***	.004	**-4.000***	.005	**-4.000***	.008	**-4.000***	.003
CHD	Cancer	-1.176	.874	-1.176	.856	-1.176	.864	-1.882	.516	-.941	.933
	SI	-4.000	.120	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	POD	-3.111	.053	-2.556	.142	-2.333	.232	-2.333	.276	-2.222	.244
	CKD	-1.600	.785	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CLD	-4.000	.026	-4.000	.019	-4.000	.022	-4.000	.031	-4.000	.016
CLD	Cancer	2.824	.023	2.824	.017	2.824	.019	2.118	.177	**3.059***	.006
	SI	.000	1.000	4.000	.056	4.000	.062	4.000	.083	4.000	.048
	POD	.889	.901	1.444	.506	1.667	.363	1.667	.413	1.778	.257
	CKD	2.400	.238	**4.000***	.004	**4.000***	.005	**4.000***	.008	**4.000***	.003
	CHD	4.000	.026	4.000	.019	4.000	.022	4.000	.031	4.000	.016

Source: Primary data.

*. The mean difference is significant at the 0.01 level.

Table 12 shows whether there is any significant difference in the physical problem- Insomnia of the patients before one year to last 2 weeks of their death. The test result revealed that there is no significant difference in the physical problem- Insomnia suffered by the patients having different types of diseases before one year to last two weeks of their death except between cancer patients and patients suffering fromChronic Liver Disease in the last two weeks and also betweenpatients suffering fromChronic Kidney Disease and patients suffering fromChronic Liver Disease before 6 months to last two weeks of their death, since p values are above 0.01.

Table 13 Dyspnea and Type of disease of the deceased patients (Post Hoc Test Tukey HSD)

Type of Disease	Type of Disease	Before 1 Year		Before 6 Months		Before 3 Months		Before 2 Weeks		Last 2 Weeks	
		Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value
Cancer	SI	-2.118	.223	-2.118	.223	-2.118	.223	-2.118	.223	-2.118	.999
	POD	**-2.118***	.000	**-2.118***	.000	**-2.118***	.000	**-2.118***	.000	**-2.118***	.177
	CKD	-2.118	.019	-2.118	.019	-2.118	.019	-2.118	.019	.282	.052
	CHD	-2.118	.090	-2.118	.090	-2.118	.090	-2.118	.090	-2.118	.351
	CLD	-2.118	.019	-2.118	.019	-2.118	.019	-2.118	.019	-2.118	1.000
SI	Cancer	2.118	.223	2.118	.223	2.118	.223	2.118	.223	2.118	.337
	POD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CKD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	2.400	1.000
	CHD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	.001
	CLD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
POD	Cancer	**2.118***	.000	**2.118***	.000	**2.118***	.000	**2.118***	.000	**2.118***	.018
	SI	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CKD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	2.400	1.000
	CHD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	.999
	CLD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	.337
CKD	Cancer	2.118	.019	2.118	.019	2.118	.019	2.118	.019	-.282	.018
	SI	.000	1.000	.000	1.000	.000	1.000	.000	1.000	-2.400	.201
	POD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	-2.400	.096
	CHD	.000	1.00	.000	1.00	.000	1.000	.000	1.00	-2.400	.177

			0		0				0		
	CLD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	-2.400	1.000
CHD	Cancer	2.118	.090	2.118	.090	2.118	.090	2.118	.090	2.118	1.000
	SI	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	.201
	POD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CKD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	2.400	.052
	CLD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
CLD	Cancer	2.118	.019	2.118	.019	2.118	.019	2.118	.019	2.118	1.000
	SI	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	.096
	POD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CKD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	2.400	.999
	CHD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	.177

Source: Primary data.

*. The mean difference is significant at the 0.01 level.

Table 13 shows whether there is any significant difference in the physical problem- Dyspnea suffered by the patients before one year to last 2 weeks of their death. The test result revealed that there was no significant difference in the physical problem- Dyspnea suffered by the patients having different types of diseases before one year to last two weeks of their death except between cancer patients and patients suffering fromProblems of Old Age and Disability, since p values are above 0.01.

Table 14Dehydration and Type of disease of the deceased patients (Post Hoc Test Tukey HSD)

Type of Disease	Type of Disease	Before 1 Year		6 months		3 Months		1.5 months		2 weeks	
		Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value
	SI	-1.412	.774	-1.412	.845	-1.412	.837	-1.941	.559	.000	.837

Cancer	POD	-.967	.362	-.745	.743	-.967	.470	-1.497	.069	-1.412	.470
	CKD	-1.412	.396	.188	1.000	.188	1.000	-.341	.998	-.967	1.000
	CHD	-1.412	.621	-1.412	.724	-1.412	.710	-1.941	.363	.188	.710
	CLD	-1.412	.396	-1.412	.521	-1.412	.503	-1.941	.161	-1.412	.503
SI	Cancer	1.412	.774	1.412	.845	1.412	.837	1.941	.559	-1.412	.837
	POD	.444	.998	.667	.993	.444	.999	.444	.999	1.412	.999
	CKD	.000	1.000	1.600	.838	1.600	.829	1.600	.820	.444	.829
	CHD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	1.600	1.000
	CLD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
POD	Cancer	.967	.362	.745	.743	.967	.470	1.497	.069	.000	.470
	SI	-.444	.998	-.667	.993	-.444	.999	-.444	.999	.967	.999
	CKD	-.444	.990	.933	.857	1.156	.698	1.156	.685	-.444	.698
	CHD	-.444	.996	-.667	.985	-.444	.997	-.444	.997	1.156	.997
	CLD	-.444	.990	-.667	.962	-.444	.993	-.444	.993	-.444	.993
CKD	Cancer	1.412	.396	-.188	1.000	-.188	1.000	.341	.998	-.444	1.000
	SI	.000	1.000	-1.600	.838	-1.600	.829	-1.600	.820	-.188	.829
	POD	.444	.990	-.933	.857	-1.156	.698	-1.156	.685	-1.600	.698
	CHD	.000	1.000	-1.600	.747	-1.600	.734	-1.600	.722	-1.156	.734
	CLD	.000	1.000	-1.600	.618	-1.600	.602	-1.600	.587	-1.600	.602
CHD	Cancer	1.412	.621	1.412	.724	1.412	.710	1.941	.363	-1.600	.710
	SI	.000	1.000	.000	1.000	.000	1.000	.000	1.000	1.412	1.000
	POD	.444	.996	.667	.985	.444	.997	.444	.997	.000	.997
	CKD	.000	1.000	1.600	.747	1.600	.734	1.600	.722	.444	.734
	CLD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	1.600	1.000
CLD	Cancer	1.412	.396	1.412	.521	1.412	.503	1.941	.161	.000	.503
	SI	.000	1.000	.000	1.000	.000	1.000	.000	1.000	1.412	1.000
	POD	.444	.990	.667	.962	.444	.993	.444	.993	.000	.993

	CKD	.000	1.000	1.600	.618	1.600	.602	1.600	.587	.444	.602
	CHD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	1.600	1.000

Source: Primary data.

*. The mean difference is significant at the 0.01 level.

Table 14 shows whether there is any significant difference in the physical problem-Dehydration suffered by the patients suffering from different types of diseases before one year to last 2 weeks of their death. One-way ANOVA Post Hoc Test Tukey HSD was applied. The test result revealed that there is no significant difference in the physical problem-Dehydrationsuffered by the patients suffering from different types of diseases during last one year to last 2 weeks of their death, since p values are above 0.01.

Table 15 Constipation and Type of disease of the deceased patients(Post Hoc Test Tukey HSD)

Type of Disease	Type of Disease	Before 1 Year		Before 6 Months		Before 3 Months		Before 2 Weeks		Last 2 Weeks	
		Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value
Cancer	SI	-.353	.994	-1.588	.745	-1.765	.605	-2.118	.542	-2.588	.296
	POD	.203	.981	-.699	.765	-.765	.648	-.895	.613	-1.366	.154
	CKD	-.353	.964	-1.588	.352	-1.365	.468	-2.118	.149	-2.588	.036
	CHD	-.353	.986	-1.588	.581	-1.765	.413	-2.118	.346	-2.588	.137
	CLD	-.353	.964	-1.588	.352	-1.765	.198	-2.118	.149	-2.588	.036
SI	Cancer	.353	.994	1.588	.745	1.765	.605	2.118	.542	2.588	.296
	POD	.556	.952	.889	.971	1.000	.943	1.222	.921	1.222	.914
	CKD	.000	1.000	.000	1.000	.400	.999	.000	1.000	.000	1.000
	CHD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CLD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
POD	Cancer	-.203	.981	.699	.765	.765	.648	.895	.613	1.366	.154

	SI	-.556	.952	-.889	.971	-1.000	.943	-1.222	.921	-1.222	.914
	CKD	-.556	.793	-.889	.865	-.600	.966	-1.222	.699	-1.222	.678
	CHD	-.556	.902	-.889	.940	-1.000	.885	-1.222	.847	-1.222	.834
	CLD	-.556	.793	-.889	.865	-1.000	.763	-1.222	.699	-1.222	.678
CKD	Cancer	.353	.964	1.588	.352	1.365	.468	2.118	.149	2.588	.036
	SI	.000	1.000	.000	1.000	-.400	.999	.000	1.000	.000	1.000
	POD	.556	.793	.889	.865	.600	.966	1.222	.699	1.222	.678
	CHD	.000	1.000	.000	1.000	-.400	.999	.000	1.000	.000	1.000
	CLD	.000	1.000	.000	1.000	-.400	.998	.000	1.000	.000	1.000
CHD	Cancer	.353	.986	1.588	.581	1.765	.413	2.118	.346	2.588	.137
	SI	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	POD	.556	.902	.889	.940	1.000	.885	1.222	.847	1.222	.834
	CKD	.000	1.000	.000	1.000	.400	.999	.000	1.000	.000	1.000
	CLD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
CLD	Cancer	.353	.964	1.588	.352	1.765	.198	2.118	.149	2.588	.036
	SI	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	POD	.556	.793	.889	.865	1.000	.763	1.222	.699	1.222	.678
	CKD	.000	1.000	.000	1.000	.400	.998	.000	1.000	.000	1.000
	CHD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000

Source: Primary data.

*. The mean difference is significant at the 0.01 level.

Table 15 shows whether there is any significant difference in the physical problem- Constipationsuffered by the patients suffering from different types of diseases before one year to last 2 weeks of their death. One-way ANOVA Post Hoc Test Tukey HSD was applied. The test result revealed that there is no significant difference in the physical problem- Constipation suffered by the patients suffering from different types of diseases during last one year to last 2 weeks of their death, since p values are above 0.01.

Table 16 Anorexia and Type of disease of the deceased patients(Post Hoc Test Tukey HSD)

Type of Disease	Type of Disease	Before 1 Year		Before 6 Months		Before 3 Months		Before 2 Weeks		Last 2 Weeks	
		Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value
Cancer	SI	-2.118	.407	-2.118	.434	-2.118	.618	**-4.000***	.004	-2.588	.413
	POD	-1.673	.020	-1.673	.024	-.895	.682	**-2.667***	.000	-1.255	.336
	CKD	-2.118	.074	-1.318	.533	-.518	.993	**-2.400**	.016	-.988	.891
	CHD	-2.118	.221	-2.118	.244	-2.118	.426	**-4.000***	.000	-2.588	.226
	CLD	-2.118	.074	-2.118	.086	-2.118	.209	**-4.000***	.000	-2.588	.076
SI	Cancer	2.118	.407	2.118	.434	2.118	.618	**4.000***	.004	2.588	.413
	POD	.444	.999	.444	.999	1.222	.941	1.333	.783	1.333	.921
	CKD	.000	1.000	.800	.988	1.600	.893	1.600	.732	1.600	.897
	CHD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CLD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
POD	Cancer	1.673	.020	1.673	.024	.895	.682	**2.667***	.000	1.255	.336
	SI	-.444	.999	-.444	.999	-1.222	.941	-1.333	.783	-1.333	.921
	CKD	-.444	.991	.356	.997	.378	.998	.267	.999	.267	1.000
	CHD	-.444	.997	-.444	.997	-1.222	.882	-1.333	.632	-1.333	.846
	CLD	-.444	.991	-.444	.992	-1.222	.758	-1.333	.405	-1.333	.696
CKD	Cancer	2.118	.074	1.318	.533	.518	.993	2.400	.016	.988	.891
	SI	.000	1.000	-.800	.988	-1.600	.893	-1.600	.732	-1.600	.897

	POD	.444	.991	-.356	.997	-.378	.998	-.267	.999	-.267	1.000
	CHD	.000	1.000	-.800	.978	-1.600	.825	-1.600	.607	-1.600	.832
	CLD	.000	1.000	-.800	.959	-1.600	.722	-1.600	.452	-1.600	.731
CHD	Cancer	2.118	.221	2.118	.244	2.118	.426	**4.000***	.000	2.588	.226
	SI	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	POD	.444	.997	.444	.997	1.222	.882	1.333	.632	1.333	.846
	CKD	.000	1.000	.800	.978	1.600	.825	1.600	.607	1.600	.832
	CLD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
CLD	Cancer	2.118	.074	2.118	.086	2.118	.209	**4.000***	.000	2.588	.076
	SI	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	POD	.444	.991	.444	.992	1.222	.758	1.333	.405	1.333	.696
	CKD	.000	1.000	.800	.959	1.600	.722	1.600	.452	1.600	.731
	CHD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000

Source: Primary data.

*. The mean difference is significant at the 0.01 level.

Table 16 shows whether there is any significant difference in the physical problem- Anorexiasuffered by the patients suffering from different types of diseases before one year to last 2 weeks of their death. The test result revealed that there is no significant difference in the physical problem- Anorexia suffered by the patients suffering from different types of diseases before one year,6 months, 3 months and last 2 weeksof their death, since p values are above 0.01.However, there was a significant difference in the physical problem- Anorexiasuffered by the cancer patients and patients suffering fromSpinal Injuries,Problems of Old Age and Disability, Chronic Kidney Disease,Chronic Heart Disease,Chronic Liver Disease twoweeks before their death.

Table 17 Nausea and Type of disease of the deceased patients (Post Hoc Test Tukey HSD)

Type of Disease	Type of Disease	Before 1 Year		Before 6 Months		Before 3 Months		Before 2 Weeks		Last 2 Weeks	
		Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value
Cancer	SI	-2.647	.069	-3.000	.080	-3.529	.011	-3.353	.018	-3.529	.025
	POD	**-2.203***	.000	**-2.111***	.001	**-2.641***	.000	**-2.464***	.000	**-2.196***	.001
	CKD	**-2.647***	.002	**-3.000***	.002	**-3.529***	.000	**-3.353***	.000	**-3.529***	.000
	CHD	**-2.647**	.017	-3.000	.021	**-3.529***	.002	**-3.353***	.003	**-3.529***	.004
	CLD	**-2.647***	.002	-3.000*	.002	**-3.529***	.000	**-3.353***	.000	**-3.529***	.000
SI	Cancer	2.647	.069	3.000	.080	3.529	.011	3.353	.018	3.529	.025
	POD	.444	.997	.889	.961	.889	.946	.889	.945	1.333	.817
	CKD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CHD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CLD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
POD	Cancer	**2.203***	.000	**2.111***	.001	**2.641***	.000	**2.464***	.000	**2.196***	.001
	SI	-.444	.997	-.889	.961	-.889	.946	-.889	.945	-1.333	.817
	CKD	-.444	.980	-.889	.826	-.889	.772	-.889	.771	-1.333	.463
	CHD	-.444	.992	-.889	.920	-.889	.890	-.889	.889	-1.333	.680
	CLD	-.444	.980	-.889	.826	-.889	.772	-.889	.771	-1.333	.463
CKD	Cancer	**2.647***	.002	**3.000***	.002	**3.529***	.000	**3.353***	.000	**3.529***	.000
	SI	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	POD	.444	.980	.889	.826	.889	.772	.889	.771	1.333	.463
	CHD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CLD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
CHD	Cancer	2.647	.017	3.000	.021	**3.529***	.002	**3.353***	.003	**3.529***	.004
	SI	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	POD	.444	.992	.889	.920	.889	.890	.889	.889	1.333	.680
	CKD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000

	CLD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
CLD	Cancer	**2.647***	.002	**3.000***	.002	**3.529***	.000	**3.353***	.000	**3.529***	.000
	SI	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	POD	.444	.980	.889	.826	.889	.772	.889	.771	1.333	.463
	CKD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CHD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000

Source: Primary data.

*. The mean difference is significant at the 0.01 level.

Table 17 shows whether there is any significant difference in the physical problem- Nausea suffered by the patients suffering from different types of diseases before one year to last2 weeks of their death. The test result revealed that there was no significant difference in the physical problem- Nausea suffered by the Cancer patients and patients with Spinal injuries before one year to last two weeks of their death.

The test result revealed that there wasa significant difference in the physical problem- Nausea' suffered by the cancerpatients when compared to patients suffering from Problems of old age and Disability andChronic Kidney Disease throughout the period of study and betweencancer patients and patients with Chronic Heart Disease,and Chronic Liver Diseasebefore one year,3 months,2 weeks and last 2 weeks of their death, since p values are less than0.01.

Table 18 Vomiting and Type of disease of the deceased patients (Post Hoc Test Tukey HSD)

Type of Disease	Type of Disease	Before 1 Year		Before 6 Months		Before 3 Months		Before 2 Weeks		Last 2 Weeks	
		Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value
Cancer	SI	-2.647	.143	-2.471	.336	-3.529	.031	-2.118	.599	**-3.529***	.010
	POD	**-2.092***	.001	-1.582	.062	**-2.641***	.000	-1.229	.326	**-3.085***	.000
	CKD	**-2.647***	.008	-2.471	.047	**-3.529***	.000	-	.192	**-3.529***	.000

								2.118			
	CHD	-2.647	.048	-2.471	.166	**-3.529***	.006	-2.118	.405	**-3.529***	.001
	CLD	-.247	.999	-.071	1.000	-1.129	.670	.282	1.000	-1.129	.545
SI	Cancer	2.647	.143	2.471	.336	3.529	.031	2.118	.599	**3.529***	.010
	POD	.556	.995	.889	.976	.889	.966	.889	.984	.444	.997
	CKD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CHD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CLD	2.400	.340	2.400	.493	2.400	.398	2.400	.586	2.400	.266
POD	Cancer	**2.092***	.001	1.582	.062	**2.641***	.000	1.229	.326	**3.085***	.000
	SI	-.556	.995	-.889	.976	-.889	.966	-.889	.984	-.444	.997
	CKD	-.556	.970	-.889	.884	-.889	.843	-.889	.916	-.444	.984
	CHD	-.556	.988	-.889	.949	-.889	.928	-.889	.964	-.444	.994
	CLD	1.844	.122	1.511	.447	1.511	.353	1.511	.542	1.956	.054
CKD	Cancer	**2.647***	.008	2.471	.047	**3.529***	.000	2.118	.192	**3.529***	.000
	SI	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	POD	.556	.970	.889	.884	.889	.843	.889	.916	.444	.984
	CHD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CLD	2.400	.098	2.400	.198	2.400	.131	2.400	.280	2.400	.062
CHD	Cancer	2.647	.048	2.471	.166	**3.529***	.006	2.118	.405	**3.529***	.001
	SI	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	POD	.556	.988	.889	.949	.889	.928	.889	.964	.444	.994
	CKD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CLD	2.400	.204	2.400	.342	2.400	.254	2.400	.437	2.400	.146
CLD	Cancer	.247	.999	.071	1.000	1.129	.670	-.282	1.000	1.129	.545
	SI	-2.400	.340	-2.400	.493	-2.400	.398	-2.400	.586	-2.400	.266
	POD	-1.844	.122	-1.511	.447	-1.511	.353	-1.511	.542	-1.956	.054
	CKD	-2.400	.098	-2.400	.198	-2.400	.131	-2.400	.280	-2.400	.062
	CHD	-2.400	.204	-2.400	.342	-2.400	.254	-2.400	.437	-2.400	.146

Source: Primary data.

*. The mean difference is significant at the 0.01 level.

Table 18 shows whether there is any significant difference in the physical problem- Vomiting suffered by the patients before one year to last 2 weeks of their death. The test result revealed that there was no significant difference in the physical problem- Vomiting suffered by the Cancer patients and patients with Chronic Liver Disease before one year to last two weeks of their death. However, there was a significant difference between cancer patients and patients suffering fromProblems of Old Age and DisabilityChronic Kidney Disease, before one year to last 2 weeks of their deathand betweenCancer patients and patients with spinal Injuries during the last two weeks of their death and between cancer patients and patients with Chronic Heart Disease before 3 months to last 2 weeks of their death since p values are less than 0.01.

Table 19 Disfigurement and Type of disease of the deceased patients(Post Hoc Test Tukey HSD)

Type of Disease	Type of Disease	Before 1 Year		Before 6 Months		Before 3 Months		Before 2 Weeks		Last 2 Weeks	
		Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value
Cancer	SI	-2.294	.367	-2.647	.227	-2.471	.354	-2.824	.315	-1.412	.908
	POD	-1.850	.012	**-2.203***	.002	**-2.026***	.009	-1.935	.032	-.523	.959
	CKD	-2.294	.058	-1.047	.772	-.871	.902	-1.224	.769	.188	1.000
	CHD	-2.294	.189	-2.647	.093	-2.471	.179	-2.824	.150	-1.412	.825
	CLD	.106	1.000	-.247	1.000	-.071	1.000	-.424	.997	.988	.898
SI	Cancer	2.294	.367	2.647	.227	2.471	.354	2.824	.315	1.412	.908
	POD	.444	.999	.444	.999	.444	.999	.889	.986	.889	.987
	CKD	.000	1.000	1.600	.821	1.600	.852	1.600	.896	1.600	.904
	CHD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CLD	2.400	.442	2.400	.451	2.400	.511	2.400	.614	2.400	.633
POD	Cancer	1.850	.012	**2.203***	.002	**2.026***	.009	1.935	.032	.523	.959
	SI	-.444	.999	-.444	.999	-.444	.999	-.889	.986	-.889	.987
	CKD	-.444	.993	1.156	.686	1.156	.733	.711	.970	.711	.973
	CHD	-.444	.997	-.444	.997	-.444	.998	-.889	.968	-.889	.971
	CLD	1.956	.146	1.956	.151	1.956	.196	1.511	.572	1.511	.592
	Cancer	2.294	.058	1.047	.772	.871	.902	1.224	.769	-.188	1.000
	SI	.000	1.00	-1.600	.821	-1.600	.852	-1.600	.896	-1.600	.904

CKD			0								
	POD	.444	.993	-1.156	.686	-1.156	.733	-.711	.970	-.711	.973
	CHD	.000	1.000	-1.600	.723	-1.600	.766	-1.600	.830	-1.600	.841
	CLD	2.400	.160	.800	.964	.800	.971	.800	.981	.800	.983
CHD	Cancer	2.294	.189	2.647	.093	2.471	.179	2.824	.150	1.412	.825
	SI	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	POD	.444	.997	.444	.997	.444	.998	.889	.968	.889	.971
	CKD	.000	1.000	1.600	.723	1.600	.766	1.600	.830	1.600	.841
	CLD	2.400	.293	2.400	.301	2.400	.360	2.400	.469	2.400	.490
CLD	Cancer	-.106	1.000	.247	1.000	.071	1.000	.424	.997	-.988	.898
	SI	-2.400	.442	-2.400	.451	-2.400	.511	-2.400	.614	-2.400	.633
	POD	-1.956	.146	-1.956	.151	-1.956	.196	-1.511	.572	-1.511	.592
	CKD	-2.400	.160	-.800	.964	-.800	.971	-.800	.981	-.800	.983
	CHD	-2.400	.293	-2.400	.301	-2.400	.360	-2.400	.469	-2.400	.490

Source: Primary data.

*. The mean difference is significant at the 0.01 level.

Table 19 shows whether there is any significant difference in the physical problem- Disfigurement suffered by the patients before one year to last 2 weeks of their death. The test result revealed that there was no significant difference in the physical problem- Disfigurement suffered by the patients suffering from different types of disease before one year to last two weeks of their death. However, there was a significant difference in the in the physical problem- Disfigurement suffered by the cancer patients and patients suffering fromProblems of Old Age and Disabilitybefore 6 months and 3 monthsof their deathsince p values are less than 0.01.

Table 20 Cachexia and Type of disease of the deceased patients(Post Hoc Test Tukey HSD)

Type of Disease	Type of Disease	Before 1 Year		Before 6 Months		Before 3 Months		Before 2 Weeks		Last 2 Weeks	
		Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value
	SI	-.353	.999	.000	1.000	.000	1.000	.000	1.000	-2.118	.407

Cancer	POD	-1.020	.205	.444	.581	.556	.336	.500	.503	-1.673	.020
	CKD	-.353	.994	.000	1.000	.000	1.000	.000	1.000	-2.118	.074
	CHD	-.353	.998	.000	1.000	.000	1.000	.000	1.000	-2.118	.221
	CLD	-.353	.994	.000	1.000	.000	1.000	.000	1.000	-2.118	.074
SI	Cancer	.353	.999	.000	1.000	.000	1.000	.000	1.000	2.118	.407
	POD	-.667	.982	.444	.975	.556	.937	.500	.963	.444	.999
	CKD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CHD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CLD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
POD	Cancer	1.020	.205	-.444	.581	-.556	.336	-.500	.503	1.673	.020
	SI	.667	.982	-.444	.975	-.556	.937	-.500	.963	-.444	.999
	CKD	.667	.910	-.444	.881	-.556	.746	-.500	.837	-.444	.991
	CHD	.667	.961	-.444	.948	-.556	.875	-.500	.924	-.444	.997
	CLD	.667	.910	-.444	.881	-.556	.746	-.500	.837	-.444	.991
CKD	Cancer	.353	.994	.000	1.000	.000	1.000	.000	1.000	2.118	.074
	SI	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	POD	-.667	.910	.444	.881	.556	.746	.500	.837	.444	.991
	CHD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CLD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
CHD	Cancer	.353	.998	.000	1.000	.000	1.000	.000	1.000	2.118	.221
	SI	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	POD	-.667	.961	.444	.948	.556	.875	.500	.924	.444	.997
	CKD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CLD	2.400	.293	.000	1.000	.000	1.000	.000	1.000	.000	1.000
CLD	Cancer	-.106	1.000	.000	1.000	.000	1.000	.000	1.000	2.118	.074
	SI	-2.400	.442	.000	1.000	.000	1.000	.000	1.000	.000	1.000

	POD	-1.956	.146	.444	.881	.556	.746	.500	.837	.444	.991
	CKD	-2.400	.160	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CHD	-2.400	.293	.000	1.000	.000	1.000	.000	1.000	.000	1.000

Source: Primary data.

*. The mean difference is significant at the 0.01 level.

Table 20 shows whether there is any significant difference in the physical problem- Cachexiasuffered by the patients suffering from different types of diseases before one year to last 2 weeks of their death. One-way ANOVA Post Hoc Test Tukey HSD was applied. The test result revealed that there is no significant difference in the physical problem- Cachexiasuffered by the patients suffering from different types of diseases during last one year to last 2 weeks of their death, since p values are above 0.01.

Table 21 Incontinence and Type of disease of the deceased patients (Post Hoc Test Tukey HSD)

Type of Disease	Type of Disease	Before 1 Year		Before 6 Months		Before 3 Months		Before 2 Weeks		Last 2 Weeks	
		Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value
Cancer	SI	.000	1.000	-.353	.996	-1.941	.559	-2.647	.001	-2.118	.599
	POD	.444	.581	.092	1.000	-1.386	.111	**-2.203***	.745	-1.229	.326
	CKD	.000	1.000	-.353	.975	-.341	.998	-1.047	.074	-.518	.992
	CHD	.000	1.000	-.353	.990	-1.941	.363	-2.647	.014	-2.118	.405
	CLD	.000	1.000	-.353	.975	-1.941	.161	-2.647	.195	-2.118	.192
SI	Cancer	.000	1.000	.353	.996	1.941	.559	2.647	.999	2.118	.599
	POD	.444	.975	.444	.987	.556	.997	.444	.799	.889	.984
	CKD	.000	1.000	.000	1.000	1.600	.820	1.600	1.000	1.600	.885

	CHD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CLD	.000	1.000	.000	1.000	.000	1.000	.000	.001	.000	1.000
POD	Cancer	-.444	.581	-.092	1.000	1.386	.111	**2.203***	.999	1.229	.326
	SI	-.444	.975	-.444	.987	-.556	.997	-.444	.654	-.889	.984
	CKD	-.444	.881	-.444	.933	1.044	.768	1.156	.997	.711	.966
	CHD	-.444	.948	-.444	.972	-.556	.992	-.444	.992	-.889	.964
	CLD	-.444	.881	-.444	.933	-.556	.980	-.444	.745	-.889	.916
CKD	Cancer	.000	1.000	.353	.975	.341	.998	1.047	.799	.518	.992
	SI	.000	1.000	.000	1.000	-1.600	.820	-1.600	.654	-1.600	.885
	POD	.444	.881	.444	.933	-1.044	.768	-1.156	.693	-.711	.966
	CHD	.000	1.000	.000	1.000	-1.600	.722	-1.600	.551	-1.600	.813
	CLD	.000	1.000	.000	1.000	-1.600	.587	-1.600	.074	-1.600	.706
CHD	Cancer	.000	1.000	.353	.990	1.941	.363	2.647	1.000	2.118	.405
	SI	.000	1.000	.000	1.000	.000	1.000	.000	.997	.000	1.000
	POD	.444	.948	.444	.972	.556	.992	.444	.693	.889	.964
	CKD	.000	1.000	.000	1.000	1.600	.722	1.600	1.000	1.600	.813
	CLD	.000	1.000	.000	1.000	.000	1.000	.000	.014	.000	1.000
CLD	Cancer	.000	1.000	.353	.975	1.941	.161	2.647	1.000	2.118	.192
	SI	.000	1.000	.000	1.000	.000	1.000	.000	.992	.000	1.000
	POD	.444	.881	.444	.933	.556	.980	.444	.551	.889	.916
	CKD	.000	1.000	.000	1.000	1.600	.587	1.600	1.000	1.600	.706
	CHD	.000	1.000	.000	1.000	.000	1.000	.000	.001	.000	1.000

Source: Primary data.

*. The mean difference is significant at the 0.01 level.

Table 21 shows whether there is any significant difference in the physical problem- Incontinence suffered by the patients before one year to last 2 weeks of their death. The test result revealed

that there was no significant difference in the physical problem- Incontinence suffered by the patients suffering from different types of disease before one year to last two weeks of their death. However, there was a significant difference in the in the physical problem- Incontinence suffered by the cancer patients and patients suffering fromProblems of Old Age and Disability2 weeks before their deathsince p values are less than 0.01.

Table 22 Edema and Type of disease of the deceased patients(Post Hoc Test Tukey HSD)

Type of Disease	Type of Disease	Before 1 Year		Before 6 Months		Before 3 Months		Before 2 Weeks		Last 2 Weeks	
		Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value
Cancer	SI	-.706	.917	-1.353	.816	-2.000	.539	-2.941	.166	-3.294	.128
	POD	-.706	.257	-.131	1.000	-.111	1.000	-.386	.980	-1.072	.449
	CKD	-.706	.688	-1.353	.465	-2.000	.147	-2.941	.010	**-3.294***	.006
	CHD	**3.294***	.000	2.647	.062	2.000	.343	-2.941	.059	.706	.986
	CLD	-.706	.688	1.047	.723	.400	.996	-.541	.985	-.894	.908
SI	Cancer	.706	.917	1.353	.816	2.000	.539	2.941	.166	3.294	.128
	POD	.000	1.000	1.222	.870	1.889	.596	2.556	.294	2.222	.517
	CKD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CHD	**4.000***	.000	4.000	.048	4.000	.079	.000	1.000	4.000	.132
	CLD	.000	1.000	2.400	.381	2.400	.462	2.400	.490	2.400	.558
POD	Cancer	.706	.257	.131	1.000	.111	1.000	.386	.980	1.072	.449
	SI	.000	1.000	-1.222	.870	-1.889	.596	-2.556	.294	-2.222	.517
	CKD	.000	1.000	-1.222	.569	-1.889	.188	-2.556	.034	-2.222	.130
	CHD	**4.000***	.000	2.778	.043	2.111	.281	-2.556	.135	1.778	.565
	CLD	.000	1.00	1.178	.608	.511	.987	-.156	1.00	.178	1.000

			0						0		
CKD	Cancer	.706	.688	1.353	.465	2.000	.147	2.941	.010	**3.294***	.006
	SI	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	POD	.000	1.000	1.222	.569	1.889	.188	2.556	.034	2.222	.130
	CHD	**4.000***	.000	**4.000***	.007	4.000	.014	.000	1.000	4.000	.030
	CLD	.000	1.000	2.400	.120	2.400	.175	2.400	.196	2.400	.254
CHD	Cancer	**-3.294***	.000	-2.647	.062	-2.000	.343	2.941	.059	-.706	.986
	SI	**-4.000***	.000	-4.000	.048	-4.000	.079	.000	1.000	-4.000	.132
	POD	**-4.000***	.000	-2.778	.043	-2.111	.281	2.556	.135	-1.778	.565
	CKD	**-4.000***	.000	-4.000*	.007	-4.000	.014	.000	1.000	-4.000	.030
	CLD	**-4.000***	.000	-1.600	.668	-1.600	.731	2.400	.339	-1.600	.797
CLD	Cancer	.706	.688	-1.047	.723	-.400	.996	.541	.985	.894	.908
	SI	.000	1.000	-2.400	.381	-2.400	.462	-2.400	.490	-2.400	.558
	POD	.000	1.000	-1.178	.608	-.511	.987	.156	1.000	-.178	1.000
	CKD	.000	1.000	-2.400	.120	-2.400	.175	-2.400	.196	-2.400	.254
	CHD	**4.000***	.000	1.600	.668	1.600	.731	-2.400	.339	1.600	.797

Source: Primary data.

*. The mean difference is significant at the 0.01 level.

Table 22 shows whether there is any significant difference in the physical problem- Edema suffered by the patients before one year to 2 weeks before their death. The test result revealed that there was a significant difference in the in the physical problem- Edema suffered by the Cancer patients and patients suffering fromChronic Kidney Diseaseduring the last 2 weeks of their deathand between patients suffering fromChronic Heart Disease and patient suffering from cancer, Spinal Injuries,Problems of Old Age and Disability, Chronic Kidney Diseaseand Chronic Liver Disease before one year of their deathsince p values are less than 0.01

Table 23 Loss of function and Type of disease of the deceased patients (Post Hoc Test Tukey HSD)

Type of Disease	Type of Disease	Before 1 Year		Before 6 Months		Before 3 Months		Before 2 Weeks		Last 2 Weeks	
		Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value
Cancer	SI	.000	1.000	-1.235	.859	-1.765	.472	-2.471	.275	-2.824	.194
	POD	.667	.211	.320	.986	.569	.790	-.026	1.000	-.379	.981
	CKD	.000	1.000	-1.235	.549	-1.765	.105	-2.471	.030	-2.824	.014
	CHD	.000	1.000	-1.235	.745	-1.765	.278	1.529	.604	-2.824	.074
	CLD	.000	1.000	-1.235	.549	-1.765	.105	-2.471	.030	-2.824	.014
SI	Cancer	.000	1.000	1.235	.859	1.765	.472	2.471	.275	2.824	.194
	POD	.667	.898	1.556	.699	2.333	.180	2.444	.283	2.444	.333
	CKD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CHD	.000	1.000	.000	1.000	.000	1.000	4.000	.065	.000	1.000
	CLD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
POD	Cancer	-.667	.211	-.320	.986	-.569	.790	.026	1.000	.379	.981
	SI	-.667	.898	-1.556	.699	-2.333	.180	-2.444	.283	-2.444	.333
	CKD	-.667	.637	-1.556	.289	-2.333	.012	-2.444	.031	-2.444	.045
	CHD	-.667	.808	-1.556	.520	-2.333	.066	1.556	.582	-2.444	.163
	CLD	-.667	.637	-1.556	.289	-2.333	.012	-2.444	.031	-2.444	.045
CKD	Cancer	.000	1.000	1.235	.549	1.765	.105	2.471	.030	2.824	.014
	SI	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	POD	.667	.637	1.556	.289	2.333	.012	2.444	.031	2.444	.045
	CHD	.000	1.000	.000	1.000	.000	1.000	4.000	.010	.000	1.000

	CLD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
CHD	Cancer	.000	1.000	1.235	.745	1.765	.278	-1.529	.604	2.824	.074
	SI	.000	1.000	.000	1.000	.000	1.000	-4.000	.065	.000	1.000
	POD	.667	.808	1.556	.520	2.333	.066	-1.556	.582	2.444	.163
	CKD	.000	1.000	.000	1.000	.000	1.000	-4.000	.010	.000	1.000
	CLD	.000	1.000	.000	1.000	.000	1.000	-4.000	.010	.000	1.000
CLD	Cancer	.000	1.000	1.235	.549	1.765	.105	2.471	.030	2.824	.014
	SI	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	POD	.667	.637	1.556	.289	2.333	.012	2.444	.031	2.444	.045
	CKD	.000	1.000	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CHD	.000	1.000	.000	1.000	.000	1.000	4.000	.010	.000	1.000

Source: Primary data.

*. The mean difference is significant at the 0.01 level.

Table 23 shows whether there is any significant difference in the physical problem- Loss of function suffered by the patients suffering from different types of diseases before one year to last 2 weeks of their death . One-way ANOVA Post Hoc Test Tukey HSD was applied. The test result revealed that there is no significant difference in the physical problem- Loss of function suffered by the patients suffering from different types of diseases during last one year to last 2 weeks of their death, since p values are above 0.01.

Table 24 Sleep Deprivation and Type of disease of the deceased patients (Post Hoc Test Tukey HSD)

Type of Disease	Type of Disease	Before 1 Year		Before 6 Months		Before 3 Months		Before 2 Weeks		Last 2 Weeks	
		Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value	Mean Difference	P value
	SI	-.706	.983	1.529	.809	.471	.999	.647	.965	.471	.997

Cancer	POD	-.484	.906	-1.137	.328	-1.085	.332	.314	.954	-.085	1.000
	CKD	1.694	.180	1.529	.452	.471	.991	.647	.844	.471	.980
	CHD	**3.294***	.006	1.529	.669	.471	.997	**-3.353***	.000	.471	.992
	CLD	1.694	.180	-.071	1.000	-1.129	.716	-.953	.515	-1.129	.545
SI	Cancer	.706	.983	-1.529	.809	-.471	.999	-.647	.965	-.471	.997
	POD	.222	1.000	-2.667	.263	-1.556	.765	-.333	.998	-.556	.993
	CKD	2.400	.325	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	CHD	4.000	.033	.000	1.000	.000	1.000	**-4.000***	.003	.000	1.000
	CLD	2.400	.325	-1.600	.848	-1.600	.824	-1.600	.492	-1.600	.693
POD	Cancer	.484	.906	1.137	.328	1.085	.332	-.314	.954	.085	1.000
	SI	-.222	1.000	2.667	.263	1.556	.765	.333	.998	.556	.993
	CKD	2.178	.037	2.667	.027	1.556	.378	.333	.990	.556	.959
	CHD	**3.778***	.001	2.667	.114	1.556	.607	**-3.667***	.000	.556	.983
	CLD	2.178	.037	1.067	.788	-.044	1.000	-1.267	.206	-1.044	.620
CKD	Cancer	-1.694	.180	-1.529	.452	-.471	.991	-.647	.844	-.471	.980
	SI	-2.400	.325	.000	1.000	.000	1.000	.000	1.000	.000	1.000
	POD	-2.178	.037	-2.667	.027	-1.556	.378	-.333	.990	-.556	.959
	CHD	1.600	.618	.000	1.000	.000	1.000	**-4.000***	.000	.000	1.000
	CLD	.000	1.000	-1.600	.636	-1.600	.593	-1.600	.197	-1.600	.400
CHD	Cancer	**-3.294***	.006	-1.529	.669	-.471	.997	**3.353***	.000	-.471	.992
	SI	-4.000	.033	.000	1.000	.000	1.000	**4.000***	.003	.000	1.000
	POD	**-3.778***	.001	-2.667	.114	-1.556	.60	**3.667***	.000	-.556	.983

							7				
	CKD	-1.600	.618	.000	1.000	.000	1.000	**4.000***	.000	.000	1.000
	CLD	-1.600	.618	-1.600	.761	-1.600	.727	2.400	.042	-1.600	.559
CLD	Cancer	-1.694	.180	.071	1.000	1.129	.716	.953	.515	1.129	.545
	SI	-2.400	.325	1.600	.848	1.600	.824	1.600	.492	1.600	.693
	POD	-2.178	.037	-1.067	.788	.044	1.000	1.267	.206	1.044	.620
	CKD	.000	1.000	1.600	.636	1.600	.593	1.600	.197	1.600	.400
	CHD	1.600	.618	1.600	.761	1.600	.727	-2.400	.042	1.600	.559

Source: Primary data.

*. The mean difference is significant at the 0.01 level.

Table 24 shows whether there is any significant difference in the physical problem- Sleep Deprivation suffered by the patients before one year to last2 weeks of their death. The test result revealed that there was a significant difference in the physical problem- Sleep Deprivation suffered by the Cancer patients and patients with Chronic Heart Disease and between patients suffering fromProblems of Old Age and Disability and patients suffering fromChronic Heart Disease before one year and before 2 weeks of their death.Similarly, there was a there was a significant difference between patients suffering fromChronic Heart Disease and patients suffering fromChronic Kidney Disease and between patients suffering fromChronic Heart Disease and patients suffering fromSpinal Injuries before 2 weeks of their deathsince p values are less than 0.01.

The hypothesis of the study was that there is no significant difference in the nature of physical problems suffered by the deceased patients for the last one year before their death.One-way ANOVA Post Hoc Test Tukey HSD was applied. The test result revealed that there was a significant difference in most of the variables considered under study. Therefore, the null hypothesis**H_{o1} stating that there is no significant difference in the nature of physical**

problems suffered by the deceased patients for the last one year before their death is rejected.

Conclusion

There was no significant difference in the physical problem, viz. bed sore,Agitation,Dehydration, Constipation,Cachexia,Loss of function,Dyspneasuffered by the patients suffering from different types of diseases (exceptcancer patients and patients suffering fromProblems of Old Age and Disability) before one year to last 2 weeks of their death.There was no significant difference in the physical problem- pain' suffered by the patients having different types of diseases during last 2 weeks of their death.

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