# **Trends In Malignancies Involving Different Part of the Body From 2000 To 2017 Based on Survey In 18 Areas In United States**

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## Introduction

Malignancies are a major cause of morbidity and mortality in the United States. Analysis of trends in various malignancies involving different sites over several years and between different ethnic groups can help us identify the contribution of the genetic and environmental factors.

### Methods

In this study, we took the data from the SEER (Surveillance, Epidemiology and End Result Program) database. The information of the delay adjusted cancer incidence of 23 different organs of the human body published in SEER was collected.

Average annual percent change (AAPC) in prevalence was calculated over the years for malignancy at each site. Results are represented as forest plot as shown in figure with 95 % CI of the AAPC to detect the trends in the disease prevalence. The disease prevalence was also calculated and compared for different racial group. It was compared using ANOVA and diseases with significant racial differences were identified.

#### Trend

- Larynx
- ----Prostate
- ---Colon an
- Lung and
- Ovary
- -Cervix -Stomac
- Esophag
- Urinary
- -All Sites
- Hodgkir
- Breast
- -Brain an
- -Oral Cav
- -Leukemi
- ---Testis
- Pancrea
- -Corpus —Myelon
- ----Melanor
- -Kidney a
- Liver an
- -Thyroid

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Fig 1. Average annual change in prevalence	
ds In Malignancy Involving Different Body Parts	Based on the analysis the the malignancies as show that the cancers of laryny bronchus, ovary and cerv the years. While the malignancies of pelvis, liver and intraheps trend.
in Lymphoma	
and Other Nervous System lodgkin Lymphoma avity and Pharynx mia eas s and Uterus NOS ma loma of the Skin y and Renal Pelvis	Through this we would line malignancies have an inclusion significantly decreasing to trends were noticed amon identify the environment or decreasing trends performed a particular organ and also prevalence noted based of
d	
-6.00% -4.00% -2.00% 0.00% 2.00% 4.00% 6.00% 8.00% AAPC → — Increasing trends — Decreasing trends	SEER Research Data - Prelin https://seer.cancer.gov/stati

# Results

nere were increasing and decreasing trends of wn in the forest plot in the figure. It was noted ix, prostate, colon and rectum, lung and vix had a significant decreasing trend over

of testis, pancreas, thyroid, kidney and renal patic anduterus had a significant increasing

# Conclusion

like to emphasize the fact that certain creasing trend while certain others have a trend. Also, significant changes in disease ong different races. This opens the platform to ntal vs genetic factors influencing the increasing rtaining to the particular malignancy involving Iso genetic factors affecting the differences in on ethnicity.

# References

iminary Cancer Incidence Rates and Trends, 2000-2017 tistics/preliminary-estimates