

## INTISARI

### ***BETA PRODUCT CONFIDENCE PROCEDURE (BPCP) UNTUK PENENTUAN INTERVAL KONFIDENSI POINTWISE PADA DISTRIBUSI SURVIVAL***

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*Beta Product Confidence Interval (BPCP)* merupakan prosedur perhitungan interval konfidensi non-parametrik untuk data tersensor kanan dengan asumsi sensor independen. Penentuan interval konfidensi dengan metode BPCP setara atau dapat membandingi penentuan interval konfidensi metode Kaplan-Meier. Dalam hal cakupan (*coverage*), metode BPCP lebih unggul dibandingkan metode Kaplan-Meier.

Pembuktian keunggulan metode BPCP dibandingkan metode Kaplan-Meier dalam hal cakupan (*coverage*) ditunjukkan dengan simulasi. Metode BPCP akan diaplikasikan pada tiga buah data yaitu waktu kematian wanita yang mengidap kanker payudara dari *The Ohio State University Hospitals Cancer Registry*, data pasien *systemic sclerosis* dari *severe systemic sclerosis pilot trial*, dan data *death time of psychiatric patient* dari *University of Iowa Hospitals* dan dibandingkan dengan metode Kaplan-Meier melalui plot. Interval konfidensi metode BPCP setara atau dapat membandingi interval konfidensi dengan metode Kaplan-Meier.

Kata kunci : *Beta Product Confidence Interval (BPCP)* , Kaplan-Meier, interval konfidensi, cakupan (*coverage*).

## **ABSTRACT**

### ***BETA PRODUCT CONFIDENCE PROCEDURE (BPCP) FOR DETERMINING POINTWISE CONFIDENCE INTERVALS IN THE SURVIVAL DISTRIBUTION***

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*Beta Product Confidence Interval* (BPCP) is a non-parametric confidence interval calculation procedure for right-censored with data assuming independent censoring. The determination of confidence interval using BPCP method is equivalent or proportional to Kaplan-Meier method. The coverage of BPCP method is better than that of Kaplan-Meier method

The simulation is to show how the coverage of BPCP method better than that of Kaplan-Meier method. The method of BPCP will be applied to three data. They are the data about death period of woman who are suffering from breast cancer from The Ohio State University Hospitals Cancer Registry, the data about systemic sclerosis patients from severe systemic sclerosis pilot trial, and the data about death period of psychiatric patient from University of Iowa Hospitals and will be compared with Kaplan-Meier method using a plot. Confidence interval of BPCP method equivalent with confidence interval of Kaplan-Meier method.

Keyword : *Beta Product Confidence Interval* (BPCP) , Kaplan-Meier, confidence interval, coverage.