

## Relationship between nutritional and leptin status with the disease severity among new diagnosed pulmonary tuberculosis patients in selected districts of East Nusa Tenggara Province, Indonesia

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### Abstrak

TB is still major problem even though number of TB cases had been decline steadily due to discovery and continuing research of TB drugs since 1940 and also increasing of funding and attention to global TB problem. Indonesia is the third country in descending order of TB case numbers. It is considered as the third main cause of death after cardiovascular and respiratory diseases in this country. Several years ago, East Nusa Tenggara province had the highest incidence of sputum smear positive compared with other provinces in Indonesia. TB creates certain burdens in the community, initially in health and nutrition aspect, and then followed by other human aspects including economy and social. It is, therefore, eradicating TB in an effective and efficient way becomes a very emerging issue on TB treatment strategy. Since TB is an immune-related disease, hence, enhancing the immune system might be considered as an important strategy to be considered on TB treatment. Zinc, vitamin A and a new discovered protein, leptin, take a part on that issue. A cross sectional study was conducted with a main objective of investigating the relationship between nutritional and leptin status of new diagnosed pulmonary TB disease with the disease severity in selected districts of East Nusa Tenggara province, Indonesia. This research report is divided into three parts. Part 1 includes comprehensive reviews on the background of the study, literature review, problem statement and rationale, objective, hypotheses, conceptual framework and variable indicator matrix. Part 2 wraps up the manuscript for publication, entitled "Micronutrients and Leptin status Are Associated with the Radiological Features Among New Diagnosed Pulmonary Tuberculosis Patients." It is written and formatted based on author's guideline of the Journal of Nutrition. Part 3 covers the supporting documents including detailed methodology and other result, author's guideline of the journal, questionnaire, ethical approval, informed consent, official permit letter, references and curriculum vitae. It is expected that the results of this study may contribute to the body of knowledge about the severity of TB that reflects the specific profile of nutritional status (body fat, BMI, MUAC and micronutrient status) and plasma leptin. Furthermore, it will serve as reference data for further investigations, better interventions and treatments on active pulmonary TB patients.