

# **Pattern of T Lymphocytes Function in Healthy versus Septic Preterm**

## **Thesis**

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in pediatrics

by

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## **Abstract**

This study was done to detect the difference in T-cell function between healthy preterms and normal full terms and the effect of sepsis on T-cell function in preterms using the difference in response of these cells to P.H.A stimulation.

We found that there is no difference in T-cell function between healthy preterms and full terms and there is no effect for variations in gestational age and birth weight on the function of these cells. but there is marked reduction in the function of these cells associated with sepsis and the reduction increases as sepsis severity increases.

## **Key words:**

T-lymphocytes, phytohemagglutinin(PHA) and neonatal sepsis.

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## List of Abbreviations

<b>Abbreviation</b>	<b>Scientific name</b>
ADA	Adenosine deaminase
AGA	Appropriate for gestational age
APCs	Antigen presenting cells
BcR	B-cell receptor
BDG	(1-3) $\beta$ -D-glucan
BSIs	Blood stream infections
C3	Complement (factor 3)
C. albicans	Candida.albicans
CBC	Complete blood Count
CD	Cluster of differentiation
C/EDP $\alpha$	CCAAT/enhancer binding protein alpha
CFU-S	Colony forming unit -spleen
CFU-T	Colony forming unit -Thymus
C. glabrata	Candida. glabrata
CIC	Circulating immune complexes
CIE	Counterimmunoelectrophoresis
CMI	Cell mediated immunity
CMV	Cytomegalovirus
CNS	Central nervous system
ConA	Concanavalin A
C. parapsilosis	Candida. parapsilosis
CSF	Cerebro spinal fluid
CRP	C-reactive protein