

CONTENTS

Preface

Acknowledgements

Chapter 1	Dengue: overview and epidemiology	1
	• Dengue: an overview T Tantawichien, U Thisyakorn	2
	• A short history of dengue and Mahidol dengue vaccine S Yoksan	20
	• Prospective study of dengue in Bangkok during 2015-2016 W Liulak, P Saichaer, W Waidab, A Pungjitprapai, S Buranakitsin, B Suntorn-opas, S Utensute, A Lakhakul, N Kittikool, E Wanitcharoenkul, T Laohasurayotin, P Potidang, W Wonglak, M Chatameteekul, U Thisyakorn	33
	• Epidemiology of dengue at Thammasat University Hospital during 2006- 2015 A Tangsathapornpong, C Puriburt, P Bunjoungmanee	39
	• Changing epidemiology of dengue patients at Vachira Phuket Hospital, Thailand W Lawtongkum, U Thisyakorn, C Thisyakorn	47
Chapter 2	Dengue pathogenesis	52
	• Pathogenesis of dengue viral diseases N Sittisombut	53
	• Hematologic changes in dengue D Sosothikul, U Thisyakorn, C Thisyakorn	60
	• Cytokine-related gene expression in peripheral blood leukocytes and dengue infection severity O Prommalikit, W Waidab, K Suphapeetiporn, U Thisyakorn	62
Chapter 3	Diagnosis of dengue virus infection	67
	• WHO 2009 guidelines and case classification: an update and short report O Horstick, S Runge-Ranzinger	68
	• Comparison of the 1997 and 2009 WHO classifications for determining dengue severity in Thai patients A Tangsathapornpong, P Bunjoungmanee, P Pengpris, T Khawcharoenporn	75
	• Laboratory diagnosis of dengue virus infections A Nisalak	83
Chapter 4	Clinical features and management of dengue patients	105
	• Childhood dengue diseases: a twenty years prospective study U Thisyakorn, C Thisyakorn	106
	• Dengue: pitfalls in diagnosis and management U Thisyakorn, C Thisyakorn	112

Chapter 4	Clinical features and management of dengue patients (<i>Continued</i>)	
	• Role of tourniquet test in dengue patients	
	..... N Srisawat, K Pongpirul, T Choonchuachan, S Peerapornratana, N Lumlertgul, A Lauruengthana, R Phahonthep, T Tantawichien, U Thisyakorn	117
	• Manifestations of dengue in age groups of Thai children and adults: a cross sectional study.....	
	..... A Tiawilai, T Tiawilai, U Thisyakorn	122
	• Risk factors for severe dengue.....	
	..... K Laoprasopwattana, A Geater	128
	• Dengue in pregnancy.....	
	..... S Chaithongwongwatthana	134
	• Maternal and fetal outcomes of dengue infection during pregnancy.....	
	.....A Tiawilai, S Trongkamolchai, K Khamim, U Thisyakorn	139
	• Dengue and the cardiovascular system	
	.....C Thisyakorn, U Thisyakorn	143
	• Current management of liver complications in adult dengue infection	
	..... S Treeprasertsuk, P Wilairatana	152
	• Renal dysfunction in dengue virus infection	
	..... P Puapatanakul, N Lumlertgul, N Srisawat	160
	• Critical care in dengue management	
	..... N Srisawat, N Lumlertgul, P Laoveerawat, S Peerapornratana	171
Chapter 5	Dengue prevention and control	180
	• Dengue vector control: assessing what works?.....	
	..... O Horstick, R Boyce, S Runge-Ranzinger	181
	• Prospects for the development of a dengue vaccine	
	.....U Thisyakorn, C Thisyakorn	196
	• The estimated impact and cost-effectiveness of dengue vaccination.....	
	..... P Rattanaumpawan	202
Chapter 6	Adult dengue cases	206
	• Hemophagocytic lymphohistiocytosis and acute kidney injury with severe nephrotic syndrome in dengue patients: a case report.....	
	.....P Puapatanakul, N Srisawat	207
Annex I	• 1 st ASIAN dengue summit (ADS): Are we ready for the new vaccine era?..	
	.....R Velayudhan, I-K Yoon, DJ Gubler, TJ Hladish, CAB Pearson, IM Longini, J Hombach, SN Buang, R Jahis, LL Suy, W Liulak, IN Kandun	212
Annex II	• Name list of participants	225