### S1 Appendix.





# PRO-FORMA of MALAYSIAN CLINICAL PRACTICE GUIDELINE (CPG) ADHERENCE TO MANAGEMENT of DENGUE INFECTION IN ADULTS

<u>INSTRUCTION</u>: This questionnaire is divided into six (6) sections;

Part 1: Baseline

Part 2: Outpatient Department Part 3: Emergency Department

Part 4: Medical Team
Part 5: Intensive Care Unit
Part 6: Overall outcome

Read the instruction carefully and please make sure all sections are filled with the right information. Thank you for your contribution in this project. Your contribution is highly appreciated.

ationt ID :
tient ID :

### Dengue CPG Adherence Pro-forma

Part I: Baseline data			
1. Patient's Research ID	1		
2. Date of Birth (DOB)			
3. IC number / Passport No.			
4. Hospital Number/ RN			
5. Name of hospital			
6. Where was patient first seen? (Please circle) 1- Available 2- Not available 7. Date first seen at Health Facilities	1. He 2. ED	ealth Clini )	ase circle)  t-patient department (OPD)
8. Date of Admission (dd/mm/yyyy)			
9. Date of Discharge (dd/mm/yyyy)			
10. Previous history of visit to private institution			Private clinic Private hospital
11. Gender	female	(1) / mal	e (2)
12. Body weight			-
13. Height			cm
Co-morbidities	Yes	No	Remarks
14.Patients with co-morbidity			
a. Diabetes			
b. Hypertension			
c. Ischaemic Heart Disease			
d. Coagulopathies			
e. Morbid Obesity			
f. Renal Failure			
g. Chronic Liver disease			
h. COPD			
i. Others (please specify)			
15. Previous history of dengue			
16. Elderly (more than 65 years old)			
17. Pregnancy			
18. Social factors that limit follow-up e.g. a. living far from health facility			
b. no transport			
c. patient living alone			
19 Body Mass Index (BMI) kg/m <sup>2</sup>			

20. Dengue Confirmatory test

20. Dengue Communatory test						
	Done (Y=1,N=2,NA=8)		+ve result (Y=1,N=2,NA=8)			
	Yes	No	N/A	Yes	No	N/A
a. Dengue Ig G (if high titre,						
please specify)						
b. Dengue Ig M						
c. NS1 Ag						

OLIT	PATIF	NIT F	JED A	DTM	ENIT

Part II: Stepwise Approach on	OUT PATI	FNT Manage	ement of Dengue Infection
VISIT: DATE: TIME:	OUI-FAII	IENT Manage	ement of Dengue Infection
A. History			
		nented	Please specify:
	Y=1	N=2	
Date of onset of fever			
a. Days of fever/illness			
2. Oral intake			
3. Diarrhea			
4. Bleeding			
5. Change in mental state/seizure/dizziness			
6. Urine output			
a. Frequency b. Volume			
c. Time of last voiding			
d. Others			
B. Assess for warning signs			
		mented	Please specify
	Y=1	N=2	
1. Abdominal pain or tenderness			
2. Persistent vomiting			
3. Clinical fluid accumulation (pleural effusion, ascites)			
1. Mucosal bleed			
2. Restlessness or lethargy			
3. Tender enlarged liver			
7. Laboratory: Increase in HCT concurrent with rapid decrease in platelet * if any FBC available, considered yes			

Patient ID:

### **OUT PATIENT DEPARTMENT**

### C. Other important relevant histories

		Docur	nented	Please specify
		Y=1	N=2	
1.	Family or neighborhood history of			
	dengue			
2.	Jungle trekking and swimming in			
	waterfall (consider leptospirosis,			
	typhus, malaria)			
3.	Recent travel			
4.	Recent unprotected sexual or drug			
	use behavior (consider acute HIV			
	seroconversion illness)			

### D. Physical examination

	•	Docum	nented	Please specify
		Y=1	N=2	
1.	Assess mental state and Glasgow			
	Coma Scale (GCS) score			
2.	Assess hydration status			
3.	Look out for tachypnea/ acidotic			
	breathing			
4.	Look out for pleural effusion			
5.	Examine for bleeding manifestation			
6.	Check for abdominal tenderness			
7.	Check for hepatomegaly			
8.	Check for ascites			

## E. Assess haemodynamic status

	Assess machine status			
		Documented		Record value (if available)
		Y=1	N=2	
1.	Skin color			
2.	Cold/ warm extremities			
3.	Capillary filling time (normal <2			
	seconds)			
4.	Pulse rate			
5.	Pulse volume			
6.	Blood pressure			
7.	Pulse pressure			

### F. Investigations

	THI COUNTY			
		Documented		Blood result
		Y=1	N=2	
1.	FBC			WBC:
				HB:
				PLT:
2.	HCT			
3.	Dengue serology/Dengue			
	rapid test			

### **OUT PATIENT DEPARTMENT**

G. Diagnosis/Notification

	Diagnosis/Notification		
		Tick $()$ where appropriate	Please specify
1.	Phase of illness		
	a. Febrile		
	b. Deferversence / critical		
	c. Recovery		
2.	Dengue without warning sign		
3.	Dengue with warning sign		
4.	Severe dengue		
	a. Severe plasma leakage		
	b. Severe bleeding		
	c. Severe organ impairment		
5.	Notification within 24 hours		
	from diagnosis		
6.	Outcome		
	<ol> <li>Referral to hospital</li> </ol>		
	b. Outpatient follow up		

### H. Interval visit before admission.

1.Number of daily review	days
2.Home Care Advice Leaflet for Dengue Patients given	Y = 1, N=2, NA=8

### I. Prerequisites for transfer

	Documented		Please specify:		
	Y=1	N=2			
1. Patient was *optimized					
pretransfer					
2. ED/Medical was					
informed pretransfer					
<ol><li>Adequate</li></ol>			Appr	ropriate	Remarks
Information includes			Y=1	N=2	
fluid chart,					
monitoring chart and					
investigation					
Results given					

<sup>\*</sup> optimize: complete resuscitation (stable VS)

### **OUT PATIENT DEPARTMENT**

### J. Referral from primary care providers to hospital

- REFERRAL LETTER:

   a. Available= 1
   b. Not available= 2 (proceed to Part III if letter not available)

		Docui	mented	Please specify
		Y=1	N=2	
2.	Symptoms :			
	a.Presence of 1 or more warning			
	sign			
	*refer to section B			
	b. Bleeding manifestations			
	c. Inability to tolerate oral fluids			
	d. Reduced urine output			
	e. Seizure			
3.	Signs:			
	a. Dehydration			
	b. Shock			
	c. Compensated shock			
	d. Bleeding			
	e. Any organ failure			
4.	Special Situations :			
	a. Patients with any of co-			
	morbidity list :			
	i. Diabetes			
	ii. Hypertension			
	iii. Ischaemic Heart Disease			
	iv. Coagulopathies			
	v. Morbid Obesity			
	vi. Renal Failure			
	vii. Chronic Liver disease			
	viii. COPD			
	b. Elderly (more than 65 years			
	old)			
	c. Pregnancy			
	d. Social factors that limit follow-			
	up e.g. living far from health			
	facility, no transport, patient			
	living alone, etc			
5.	Laboratory Criteria:			
	a. Rising HCT with reducing			
	platelet count *			
	(* minimum 1 result of FBC)			

Patient ID:		

# Part III: ON ARRIVAL to hospital / EMERGENCY DEPARTMENT (data- admitting unit)

VISIT:	
DATE:	
TIME:	
ZONE:	

### A. History

		Doc	umented	Please specify
				riease specify
		Y=1	N=2	
1.	Date of onset of fever/			
	illness			
2.	Oral intake			
3.	Diarrhoea			
4.	Bleeding			
5.	Change in mental			
	state/seizure/dizziness			
6.	Urine output			
	a. Frequency			
	b. Volume			
	c. Time of last voiding			

## B. Assess for warning sign

		Documented		Please specify
		Y=1	N=2	
1.	Abdominal pain or			
	tenderness			
2.	Persistent vomiting			
3.	Clinical fluid			
	accumulation (pleural			
	effusion, ascites)			
4.	Mucosal bleed			
5.	Restlessness or lethargy			
6.	Tender enlarged liver			
7.	Laboratory : Increase in			
	HCT concurrent with			
	rapid decrease in platelet			

### **EMERGENCY DEPARTMENT**

### C. Physical examination

	Thysical Cammutton	Docu	mented	Please specify
		Y=1	N=2	
1.	Assess mental state and			
	Glasgow Coma Scale			
	(GCS) score			
2.	Assess hydration status			
3.	Look out for tachypnoea			
4.	Look out acidotic			
	breathing			
5.	Look out for pleural			
	effusion			
6.	Examine for bleeding			
	manifestation			
7.	Check for abdominal			
	tenderness			
8.	Check for hepatomegaly			
9.	Check for ascites			

### D. Assess haemodynamic status

		D	one	Value	Remarks
		Y=1	N=2		
1.	Skin color				
2.	Cold/ warm extremities				
3.	Capillary filling time				
	(normal <2 seconds)				
4.	Pulse rate				
5.	Pulse volume				
6.	Blood pressure				
7.	Pulse pressure				

### E. Diagnosis /Notification

		Docum	ented	Please specify
		Y=1	N=2	
1.	Phase of illness			
	a. Febrile			
	b. Deferversence			
	c. recovery			
2.	Dengue without warning			
	sign			
3.	Dengue with warning sign			
4.	Severe dengue			
	a. severe plasma leakage			
	b. severe bleeding			
	c. severe organ			
	impairment			
5.	Notification within 24			
	hours from diagnosis			

### **EMERGENCY DEPARTMENT**

F. Initial management ED (follow Table 8 from CPG) – Please tick at Table 8 whenever appropriate

	арргоргіате						
		Documented					
				(Y=1,N=2)			
		Feb	rile	Crit	ical	Recovery	
1.		Yes	No	Yes	No	Yes	No
	Investigation						
	a. FBC & HCT						
	b. Dengue Serology						
2.	Monitoring						
	a. Pink/ cyanosis						
	b. Extremities (cold/warm)						
	c. Capillary refill time						
	d. Pulse volume						
	e. Pulse rate						
	f. Blood pressure						
	g. Pulse pressure						
	h. Respiratory rate						
	i.SpO2						
	j. warning sign assessment						
	k. urine output						
3.	Fluid management						
	a. Bolus 20ml/kg						
	b. Half bolus 10ml/kg						
	c. 7 ml/kg regime						
	d. 5 ml/kg regime						
	e. 3 ml/kg regime						
	f. 2 ml/kg regime						
	g. Blood transfusion						
	+ -					-	•

G. Follow through plan in ED

	onon through plan in ED		
		Tick $()$ where	Please specify
		appropriate	
1.	Discharge without follow up		
2.	Discharge with follow up		
3.	Direct Admission		
4.	Medical referral		
	a. Discharge		
	b. Admit		
5.	ICU referral		
6.	Death		
1.	Complication		

Table 8 : Parameters and Frequency of Monitoring According to Different Phases of Dengue Illness

Parameters for monitoring	Frequency of monitoring				
Parameters for monitoring	Febrile phase	Critical phase	Recovery phase		
Clinical Parameters	]		1		
General well being Appetite/ oral intake Warning signs Symptoms of bleeding Neurological/ mental state	Daily or more frequently towards late febrile phase	At least twice a day and more frequently as indicated	Daily or more frequently as indicated		
Haemodynamic status  Pink/ cyanosis  Extremities (cold/warm)  Capillary refill time  Pulse volume  PR  BP  Pulse pressure  Respiratory status  RR  SpO <sub>2</sub>	4-6 hourly depending on clinical status	2-4 hourly depending on clinical status In shock Every 15-30 minutes till stable then 1-2 hourly	4-6 hourly		
Signs of bleeding, abdominal tenderness, ascites and pleural effusion	Daily or more frequently towards late febrile phase	At least twice a day and more frequently as indicated	Daily or more frequently as indicated		
Urine output	4 hourly 2-4 hourly In shock Hourly		4-6 hourly		
Parameters for monitoring	Fre	ng			
•	Febrile phase	Critical phase	Recovery phase		
Clinical Parameters					
FBC + HCT	Daily or more frequently if indicated	4-12 hourly depending on clinical status In shock Repeated before and after each attempt of fluid resuscitation and as indicated	Daily		
BUSE/ Creatinine LFT RBS Coagulation profile HCO <sub>3</sub> / TCO <sub>2</sub> / Lactate	As indicated	At least daily or more frequently as indicated In shock Crucial to monitor acid- base balance/ ABG closely	As indicated		

Adapted from 2, Level 9; 65, Level 9

Patient ID:		MEDICAL TEAM

# Part IV: IN-PATIENT Management of Dengue infection (MEDICAL TEAM) DATE:

### A. History (FIRST REVIEW)

		Documented		Please specify
		Y=1	N=2	
1.	Date of onset of fever/			
	illness			
2.	Oral intake			
3.	Diarrhea			
4.	Bleeding			
5.	Change in mental			
	state/seizure/dizziness			
6.	Urine output (frequency,			
	volume and time of last			
	voiding)			

B. Assess for warning sign (FIRST REVIEW)

	gg	Documented		Please specify
		Y=1	N=2	
1.	Abdominal pain or			
	tenderness			
2.	Persistent vomiting			
3.	Clinical fluid			
	accumulation (pleural			
	effusion, ascites)			
4.	Mucosal bleed			
5.	Restlessness or lethargy			
6.	Tender enlarged liver			
7.	Laboratory : Increase in			
	HCT concurrent with			
	rapid decrease in platelet			

C. Physical examination (FIRST REVIEW)

		Documented		Please specify	
		Y=1	N=2		
1.	Assess mental state and				
	Glasgow Coma Scale				
	(GCS) score				
2.	Assess hydration status				
3.	Look out for tachypnea/RR				
	/ Look out acidotic				
	breathing				
4.	Look out for pleural				
	effusion				
5.	Examine for bleeding				
	manifestation				
6.	Check for abdominal				
	tenderness				
7.	Check for hepatomegaly				
8.	Check for ascites				

### D. Assess haemodynamic status (FIRST REVIEW)

		Documented		Value	Remarks
		Y=1	N=2		
1.	Skin color				
2.	Cold/ warm extremities				
3.	Capillary filling time				
	(normal <2 seconds)				
4.	Pulse rate				
5.	Pulse volume				
6.	Blood pressure				
7.	Pulse pressure				

E. Diagnosis / Notification (FIRST REVIEW)

<u> </u>	Diagnosis / Notification (Tites Tite / IE /	,		
		D	one	Please specify:
		Y=1	N=2	
1.	Phase of illness			
	a. Febrile			
	b. Deferversence			
	c. recovery			
2.	Dengue without warning sign			
3.	Dengue with warning sign			
4.	Severe dengue			
	a. Severe plasma leakage			
	b. Severe bleeding			
	c. Severe organ impairment			
5.	Notification done within 24 hours			

### F. Ward management (follow Table 8)

		Documented (Y=1,N=2)					
		Fel	orile	Cri	tical	Reco	very
1.		Yes	No	Yes	No	Yes	No
	Investigation						
	a. FBC & HCT						
	b. Dengue serology						
2.	Monitoring						
	a. Pink/ cyanosis						
	b. Extremities (cold/warm)						
	c. Capillary refill time						
	d. Pulse volume						
	e. PR						
	f. BP						
	g. Pulse pressure						
	h. RR						
	i. SpO2						
	j. Warning sign assessment						
	k. Urine output						

Table 8 : Parameters and Frequency of Monitoring According to Different Phases of Dengue Illness

	Frequency of monitoring					
Parameters for monitoring	Febrile phase	Critical phase	Recovery phase			
Clinical Parameters						
General well being Appetite/ oral intake Warning signs Symptoms of bleeding Neurological/ mental state	Daily or more frequently towards late febrile phase	At least twice a day and more frequently as indicated	Daily or more frequently as indicated			
Haemodynamic status  Pink/ cyanosis  Extremities (cold/warm)  Capillary refill time  Pulse volume  PR  BP  Pulse pressure  Respiratory status  RR  SpO <sub>2</sub>	4-6 hourly depending on clinical status	2-4 hourly depending on clinical status In shock Every 15-30 minutes till stable then 1-2 hourly	4-6 hourly			
Signs of bleeding, abdominal tenderness, ascites and pleural effusion	Daily or more frequently towards late febrile phase	At least twice a day and more frequently as indicated	Daily or more frequently as indicated			
Urine output	4 hourly	2-4 hourly In shock Hourly	4-6 hourly			
Parameters for monitoring	Frequency of monitoring					
Farameters for monitoring	Febrile phase	Critical phase	Recovery phase			
Clinical Parameters						
FBC + HCT	Daily or more frequently if indicated	4-12 hourly depending on clinical status In shock Repeated before and after each attempt of fluid resuscitation and as indicated	Daily			
BUSE/ Creatinine LFT RBS Coagulation profile HCO <sub>3</sub> / TCO <sub>2</sub> / Lactate	As indicated	At least daily or more frequently as indicated In shock Crucial to monitor acid- base balance/ ABG closely	As indicated			

Adapted from 2, Level 9; 65, Level 9

G. Overall fluid management (Tick where appropriate)

		DF +	DF + WS	DF	DF	
		w/out WS		Compensated	Decompensated	Severe Dengue
				Shock	Shock	
a.	bolus 20ml/kg					
b.	half bolus 10ml/kg					
c.	7 ml/kg regime					
d.	5 ml/kg regime					
e.	3 ml/kg regime					
f.	2 ml/kg regime					
g.	mantainence					
h.	blood transfusion					
i.	other regime					

H. Follow through plan by Medical Team

	ii. Tolow through plan by Medical Team							
		Tick (√) where appropriate	Please specify					
1.	Discharge without follow up							
2.	Discharge with follow up							
4.	Transfer to ICU (Please complete part I )							
5.	Care by medical team							
6.	Death							
7.	Complication:							
	a. Thrombophlebitis							
	b. Fluid overload							
	c. Hospital Acquired							
	Pneumonia							
	d. Other							

### I. PRE TRANSFER TO INTENSIVE CARE UNIT ASSESSMENT( when applicable)

(i) History (PRE ICU TRANSFER)

	Insiery (TRE Tee Ties		nented	Please specify
		Y=1	N=2	
1.	Date of onset of fever/			
	illness			
2.	Oral intake			
3.	Diarrhea			
4.	Bleeding			
5.	Change in mental			
	state/seizure/dizziness			
6.	Urine output (frequency,			
	volume and time of last			
	voiding)			

### (ii) Assess for warning sign (PRE ICU TRANSFER)

		Documented		Please specify
		Y=1	N=2	
1.	Abdominal pain or			
	tenderness			
2.	Persistent vomiting			
3.	Clinical fluid accumulation			
	(pleural effusion, ascites)			
4.	Mucosal bleed			
5.	Restlessness or lethargy			
6.	Tender enlarged liver			
7.	Laboratory : Increase in			
	HCT concurrent with rapid			
	decrease in platelet			

(iii) Physical examination (PRE ICU TRANSFER)

	•	Documented		Please specify	
		Y=1	N=2		
1.	Assess mental state and				
	Glasgow Coma Scale				
	(GCS) score				
2.	Assess hydration status				
3.	Look out for				
	tachypnea/RR / Look out				
	acidotic breathing				
4.	Look out for pleural				
	effusion				
5.	Examine for bleeding				
	manifestation				
6.	Check for abdominal				
	tenderness				
7.	Check for hepatomegaly				
8.	Check for ascites				

### (iv) Assess haemodynamic status (PRE ICU TRANSFER)

		Docus	mented	Value
		Y=1	N=2	
1.	Skin color			
2.	Cold/ warm extremities			
3.	Capillary filling time			
	(normal <2 seconds)			
4.	Pulse rate			
5.	Pulse volume			
6.	Blood pressure			
7.	Pulse pressure			

### (v) Diagnosis (PRE ICU TRANSFER)

			Done	Please specify:
		Y=1	N=2	
1.	Phase of illness			
	a. Febrile			
	b. Deferversence			
	c. Recovery			
2.	Dengue without warning			
	sign			
3.	Dengue with warning sign			
4.	Severe dengue			
	a. severe plasma leakage			
	b. severe bleeding			
	c. severe organ impairment			
5.	Notification done within 24			
	hours			

### (vi) PRE ICU TRANSFER management (follow Table 8)

			Documented (Y=1,N=2)					
		Febrile		Crit	ical	Rec	overy	
1.		Yes	No	Yes	No	Yes No		
	Investigation							
	a. FBC & HCT							
	b. Dengue serology							
2.	Monitoring							
	a. Pink/ cyanosis							
	b. Extremities (cold/warm)							
	c. Capillary refill time							
	d. Pulse volume							
	e.PR							
	f. BP							
	g. Pulse pressure							
	h. RR							
	i.SpO2							
	j. warning sign assessment							
	k. urine output							

### (vii) Overall fluid management (PRE ICU) (Tick where appropriate)

		DF + w/out WS	DF + WS	DF compensated Shock	DF decompensated shock	Severe Dengue
a.	bolus 20ml/kg					
b.	half bolus					
	10ml/kg					
c.	7 ml/kg regime					
d.	5 ml/kg regime					
e.	3 ml/kg regime					
f.	2 ml/kg regime					
g.	mantainence					
h.	blood transfusion					
i.	other regime					

Table 8 : Parameters and Frequency of Monitoring According to Different Phases of Dengue Illness

D	Frequency of monitoring					
Parameters for monitoring	Febrile phase	Critical phase	Recovery phase			
Clinical Parameters						
General well being Appetite/ oral intake Warning signs Symptoms of bleeding Neurological/ mental state	Daily or more frequently towards late febrile phase	At least twice a day and more frequently as indicated	Daily or more frequently as indicated			
Haemodynamic status  Pink/ cyanosis  Extremities (cold/warm)  Capillary refill time  Pulse volume  PR  BP  Pulse pressure  Respiratory status  RR  SpO <sub>2</sub>	4-6 hourly depending on clinical status	2-4 hourly depending on clinical status In shock Every 15-30 minutes till stable then 1-2 hourly	4-6 hourly			
Signs of bleeding, abdominal tenderness, ascites and pleural effusion	Daily or more frequently towards late febrile phase	At least twice a day and more frequently as indicated	Daily or more frequently as indicated			
Urine output	4 hourly	2-4 hourly In shock Hourly	4-6 hourly			
Parameters for monitoring	Frequency of monitoring					
	Febrile phase	Critical phase	Recovery phase			
Clinical Parameters  FBC + HCT	Daily or more frequently if indicated	4-12 hourly depending on clinical status In shock Repeated before and after each attempt of fluid resuscitation and as indicated	Daily			
BUSE/ Creatinine LFT RBS Coagulation profile HCO <sub>3</sub> / TCO <sub>2</sub> / Lactate  Adapted from <sup>2</sup> , Level 9; 65, Level 9	As indicated	At least daily or more frequently as indicated In shock Crucial to monitor acid- base balance/ ABG closely	As indicated			

Adapted from 2, Level 9; 65, Level 9

Patient ID:		

# Part V: IN-PATIENT Management of Dengue infection by ICU TEAM (when applicable)

### DATE:

### A. History (FIRST REVIEW)

	mistory (FIRST REVIEW)			
		Docu	imented	Please specify
		Y=1	N=2	
1.	Date of onset of fever/			
	illness			
2.	Oral intake			
3.	Diarrhea			
4.	Bleeding			
5.	Change in mental			
	state/seizure/dizziness			
6.	Urine output (frequency,			
	volume and time of last			
	voiding)			

B. Assess for warning sign (FIRST REVIEW)

			umented	Please specify
		Y=1	N=2	
1.	Abdominal pain or			
	tenderness			
2.	Persistent vomiting			
3.	Clinical fluid			
	accumulation (pleural			
	effusion, ascites)			
4.	Mucosal bleed			
5.	Restlessness or lethargy			
6.	Tender enlarged liver			
7.	Laboratory : Increase in			
	HCT concurrent with			
	rapid decrease in platelet			

### C. Physical examination (FIRST REVIEW)

		Docu	mented	Please specify
		Y=1	N=2	
1.	Assess mental state and Glasgow			
	Coma Scale (GCS) score			
2.	Assess hydration status			
3.	Look out for tachypnea/RR / Look			
	out acidotic breathing			
4.	Look out for pleural effusion			
5.	Examine for bleeding			
	manifestation			
6.	Check for abdominal tenderness			
7.	Check for hepatomegaly			
8.	Check for ascites			

D. Assess haemodynamic status (FIRST REVIEW)

υ.	Assess natinouynamic stati	is (TIKST KEV)	LE VV)	
		Docun	nented	Value
		Y=1	N=2	
1.	Skin color			
2.	Cold/ warm extremities			
3.	Capillary filling time			
	(normal <2 seconds)			
4.	Pulse rate			
5.	Pulse volume			
6.	Blood pressure			
7.	Pulse pressure			

E. Diagnosis / Notification (FIRST REVIEW)

	Diagnosis / Total Carlot (Fire Fire V)					
		Done		Please specify		
		Y=1	N=2			
1.	Phase of illness					
	a. Febrile					
	b. Deferversence					
	c. recovery					
2.	Dengue without warning sign					
3.	Dengue with warning sign					
4.	Severe dengue					
	a. severe plasma leakage					
	b. severe bleeding					
	c. severe organ impairment					
5.	Notification done within 24					
	hours					

### F. Ward management (follow Table 8)

		Documented (Y=1,N=2)						
		Fel	orile	Cri	tical	Reco	very	
1.		Yes	No	Yes	No	Yes	No	
	Investigation							
	a. FBC & HCT							
	b. Dengue serology							
2.	Monitoring							
	a. Pink/ cyanosis							
	b. Extremities							
	(cold/warm)							
	<ul> <li>c. Capillary refill time</li> </ul>							
	d. Pulse volume							
	e. PR							
	f. BP							
	g. Pulse pressure							
	h. RR							
	i. SpO2							
	j. warning sign							
	assessment							
	k. urine output							

G. Overall fluid management (Tick where appropriate)

w/out	DF + WS	DF compensated	DF decompensated	Severe Dengue
WS		Shock	shock	

H. Follow through plan by ICU Team

		Tick (√) where appropriate	Please specify
4.	Transfer to Medical team	** *	
	(please complete part I )		
5.	Transfer to other team		
6.	Death		
7.	Complication:		
	a. Thrombophlebitis		
	b. Fluid overload		
	c. Hospital Acquired		
	Pneumonia		
	d. Other		

Table 8 : Parameters and Frequency of Monitoring According to Different Phases of Dengue Illness

Danamatana fan manitanian	Frequency of monitoring				
Parameters for monitoring	Febrile phase	Critical phase	Recovery phase		
Clinical Parameters					
General well being Appetite/ oral intake Warning signs Symptoms of bleeding Neurological/ mental state	Daily or more frequently towards late febrile phase	At least twice a day and more frequently as indicated	Daily or more frequently as indicated		
Haemodynamic status  Pink/ cyanosis  Extremities (cold/warm)  Capillary refill time  Pulse volume  PR  BP  Pulse pressure  Respiratory status  RR  SpO <sub>2</sub>	4-6 hourly depending on clinical status	2-4 hourly depending on clinical status In shock Every 15-30 minutes till stable then 1-2 hourly	4-6 hourly		
Signs of bleeding, abdominal tenderness, ascites and pleural effusion	Daily or more frequently towards late febrile phase	At least twice a day and more frequently as indicated	Daily or more frequently as indicated		
Urine output	4 hourly	2-4 hourly In shock Hourly	4-6 hourly		
Parameters for monitoring		quency of monitori			
Ť	Febrile phase	Critical phase	Recovery phase		
Clinical Parameters  FBC + HCT	Daily or more frequently if indicated	4-12 hourly depending on clinical status In shock Repeated before and after each attempt of fluid resuscitation and as indicated	Daily		
BUSE/ Creatinine LFT RBS Coagulation profile HCO <sub>3</sub> / TCO <sub>2</sub> / Lactate	As indicated	At least daily or more frequently as indicated In shock Crucial to monitor acid- base balance/ ABG closely	As indicated		

Adapted from 2, Level 9; 65, Level 9

### I. PRE TRANSFER BACK TO MEDICAL WARD

(i) History (PRE TRANSFER BACK TO MEDICAL)

(1)	(i) History (I RE TRANSPER BACK TO MEDICAL)								
		Documented		Please specify					
		Y=1	N=2						
1.	Date of onset of fever/								
	illness								
2.	Oral intake								
3.	Diarrhea								
4.	Bleeding								
5.	Change in mental								
	state/seizure/dizziness								
6.	Urine output (frequency,								
	volume and time of last								
	voiding)								

(ii) Assess for warning sign(PRE TRANSFER BACK TO MEDICAL)

		Docus	mented	Please specify
		Y=1	N=2	
1.	Abdominal pain or tenderness			
2.	Persistent vomiting			
3.	Clinical fluid accumulation			
	(pleural effusion, ascites)			
4.	Mucosal bleed			
5.	Restlessness or lethargy			
6.	Tender enlarged liver			
7.	Laboratory : Increase in HCT			
	concurrent with rapid decrease			
	in platelet			

(iii) Physical examination(PRE TRANSFER BACK TO MEDICAL)

		Documented		Please specify		
		Y=1	N=2			
1.	Assess mental state and					
	Glasgow Coma Scale					
	(GCS) score					
2.	Assess hydration status					
3.	Look out for					
	tachypnea/RR / Look out					
	acidotic breathing					
4.	Look out for pleural					
	effusion					
5.	Examine for bleeding					
	manifestation					
6.	Check for abdominal					
	tenderness					
7.	Check for hepatomegaly					
8.	Check for ascites					

(iv) Assess haemodynamic status(PRE TRANSFER BACK TO MEDICAL)

(21)	, Assess nationally name status (TRE TIEN ISTER BITCH TO MEDICIE)						
		Documented		Value			
		Y=1	N=2				
1.	Skin colour						
2.	Cold/ warm extremities						
3.	Capillary filling time						
	(normal <2 seconds)						
4.	Pulse rate						
5.	Pulse volume						
6.	Blood pressure						
7.	Pulse pressure						

(v) Diagnosis(PRE TRANSFER BACK TO MEDICAL)

	3 \	Do	ne	Please specify:
		Y=1	N=2	
1.	Phase of illness			
	a. Febrile			
	b. Deferversence			
	c. recovery			
2.	Dengue without warning sign			
3.	Dengue with warning sign			
4.	Severe dengue			
	a. severe plasma leakage			
	b. severe bleeding			
	c. severe organ impairment			
5.	Notification done within 24 hours			

(vi) PRE TRANSFER BACK TO MEDICAL management (follow Table 8)

				Do	cumented		
				(Y	=1,N=2)		
		Fe	Febrile Critical		ritical	Recovery	
1.		Yes	No	Yes	No	Yes	No
	Investigation						
	a. FBC & HCT						
	b. Dengue serology						
2.	Monitoring						
	a. Pink/ cyanosis						
	b. Extremities (cold/warm)						
	c. Capillary refill time						
	d. Pulse volume						
	e. PR						
	f. BP						
	g. Pulse pressure						
	h. RR						
	i. SpO2						
	j. warning sign assessment						
	k. urine output						

Table 8 : Parameters and Frequency of Monitoring According to Different Phases of Dengue Illness

D	Frequency of monitoring					
Parameters for monitoring	Febrile phase	Critical phase	Recovery phase			
Clinical Parameters						
General well being Appetite/ oral intake Warning signs Symptoms of bleeding Neurological/ mental state	Daily or more frequently towards late febrile phase	At least twice a day and more frequently as indicated	Daily or more frequently as indicated			
Haemodynamic status  Pink/ cyanosis  Extremities (cold/warm)  Capillary refill time  Pulse volume  PR  BP  Pulse pressure  Respiratory status  RR  SpO <sub>2</sub>	4-6 hourly depending on clinical status	2-4 hourly depending on clinical status In shock Every 15-30 minutes till stable then 1-2 hourly	4-6 hourly			
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Urine output	4 hourly	2-4 hourly In shock Hourly	4-6 hourly			
Parameters for monitoring		quency of monitori				
Clinical Parameters	Febrile phase	Critical phase	Recovery phase			
FBC + HCT	Daily or more frequently if indicated	4-12 hourly depending on clinical status In shock Repeated before and after each attempt of fluid resuscitation and as indicated	Daily			
BUSE/ Creatinine LFT RBS Coagulation profile HCO <sub>3</sub> / TCO <sub>2</sub> / Lactate	As indicated	At least daily or more frequently as indicated In shock Crucial to monitor acid- base balance/	As indicated			

Adapted from 2, Level 9; 65, Level 9

(vii) Overall fluid management (PRE TRANSFER BACK TO MEDICAL)

	DF + w/out WS	DF + WS	DF compensated Shock	DF decompensated shock	Severe Dengue
a. bolus 20ml/kg					
b. half bolus					
10ml/kg					
c. 7 ml/kg regime					
d. 5 ml/kg regime					
e.3 ml/kg regime					
f. 2 ml/kg regime					
g. mantainence					
h. blood					
transfusion					
i.other regime					

Patient ID:			
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# Part VI: Overall outcome of this dengue episode

### A. Patient outcome

		Tick $()$ where appropriate
1.	Discharge without follow up	
2.	Discharge with follow up	
3.	ICU referral	
	a. Admit	
	b. Non-invasive Ventilation	
	c. Invasive Ventilation	
4.	Complication	
	a. Thrombophlebitis	
	b. Fluid overload	
	<ul> <li>c. Hospital Acquired Pneumonia</li> </ul>	
	d. Other	
5.	Death	
6.	Total length of hospital stay	day/s

B. Discharge Criteria:

Criteria	Documented		Please specify
	Y=1	N=2	
Afebrile for 48H			
Improved general condition			
Improved appetite			
Stable haematocrit			
Rising platelet count			
No dyspnea or respiratory			
distress			
Resolved bleeding episodes			
Resolutions/recovery of			
organ dysfunction			