We thank the editors and the reviewers for considering our manuscript and advising changes to further improve it. We have incorporated all the changes as suggested by the reviewers. We hope, you will find it appropriate for publication now. However, we will be happy to make any further changes you may suggest.

No.	Reviewer's comments	Authors reply	Changes
			made
#1	The authors provide a "meta	Thank you for your	No changes
	summary" of liver failure induced	inputs. As this is a meta-	made
	by Dengue. Although a very	summary of case reports	
	common disease in certain parts of	from different authors, it	
	the world, and further spread	may be possible that they	
	anticipated, there is a lack of	might have used	
	information re liver failure and	different definitions of	
	particularly well documented	ALF. However, all the	
	cases. The authors were able to	authors have used	
	identify some 19 cases from	internationally	
	the world literature. They rightly	recognised definitions	
	conclude that frequent severe	(including that described	
	damage is extremely rare.	by O'Grady), and have	
	Estimated of	attributed neurological	
	nominators/denominators are	dysfunction to ALF	
	hard to identify. They discuss	rather than dengue	
	various aspects of	encephalitis.	
	pathophysiology and speculate		
	about multiple factors that could		
	contribute. Not a single evidence		
	based recommendation can be		
	provided. Although this author		
	has very limited expertise with		
	Dengue (mostly practicing in non-		
	endemic areas, a few years Africa),		
	he has considerable experience		
	with liver transplant and liver		
	failure,. My reflections and		
	questions: 1. When discussing liver		
	failure, too often not too stringent		
	criteria are in use What were the		
	criteria the authors applied or		
	were able to extract from their		
	search? I would suggest a more		
	critically review and or delineation		
	of the evidence of acute liver		
	failure as an entity with multi-		
	organ failure # liver failure (often		
	more functional than anatomical)		

vs a disease affecting multiple		
organs and causing damage Acute		
liver failure is associated with		
multi organ failure but it tends to		
have often a particular pattern I		
nave often a particular pattern. I		
refer the authors to the landmark		
article by O'Grady at all (Lancet		
1981) re hyperacute, acute and		
subacute liver failure. In the		
limited documented series they are		
able to report, the onset of		
symptoms was so early (4.5 days		
median) with relatively low		
bilirubin values and INRs. (Or do		
we speculate a longer prodromal		
phase?) The question comes up: Is		
the encephalopathy here		
portosystemic # liver failure or are		
we for dealing with acute brain		
damage # dengue encephalitis.		
This postulate could have major		
impact on diagnosis and treatment		
(transplant even less likely to		
help). There may indeed be acute		
cytopathic damage to various		
organs (as also suggested in some		
case of acute hepatitis A as well)		
and explaining early damage and		
response.		
Is there a role for acute anti-	As discussed in our	No changes
inflammatory agents like steroids?	discussion section, even	made
Will we ever be able to tests if so	though steroids have	
rare?	been shown to improve	
	outcomes in severe	
	dengue, the role of	
	steroids have not been	
	studied in dengue	
	associated ALF. Further,	
	we agree with the	
	reviewer that it may	
	difficult to tests their	
	utility in these patients	
	because of rarity of this	
	problem. That is why we	
	need such meta-	

	summaries of case	
	reports.	
This brings me to another point	We agree with the	No changes
that may deserve further	reviewer that it is many	made
highlighting, namely the	times difficult to	
recognition of liver failure vs	recognise liver failure in	
significantly abnormal liver tests	such a clinical scenario.	
in the context of various infectious	That could be one of the	
diseases not being viral hepatitis	reasons of under-	
Leptospirosis is an interesting	reporting of ALF	
example with high bilirubins with	secondary to dengue	
lower transaminases and usually	infection. We feel it will	
not very prolonged INR etc. So the	be an interesting review	
recognition of acute liver failure	article "Recognition of	
with laboratory data consistent	the rare occurrence of	
with that is relevant (INR runs off,	serious Dengue	
creatinine increases etc.). As	associated liver failure:	
another example: Acetaminophen	common sense should	
toxicity and acute ischemic	guide us by lack of any	
damage (shock liver) can be	evidence based data?"	
accompanied by high	but it would not be	
transaminases (5-10.000 or higher)	possible to conduct a	
but the pattern and evolution and	meta-summary on this	
association with INR and	title.	
creatinine matter for disease		
outcome etc.) The Dengue pattern		
would be consistent with acute		
ischemic damage and/or viral		
cytopathic damage. Unfortunately,		
the extreme rarity, the limited		
numbers prevent any firm		
recommendations and liver failure		
as such is an extremely unusual		
event that speculation that liver		
transplant may help has -based on		
the current data - no merits. This		
brings me to the question as to for		
whom or with what purpose the		
article is written. Should it be		
more: Recognition of the rare		
occurrence of serious Dengue		
associated liver failure: common		
sense should guide us by lack of		
any evidence based data?		

#2	The article entitled "Dengue	Thank you for your	3 rd table
	induced acute hepatic failure: A	inputs. As per the	added
	meta summary of case reports" has	suggestion, we have	(table no. 1)
	an interesting approach to this	added a new table.	
	complication of infection caused		
	by dengue. It is a well-written		
	work, with clarity in its general		
	objective. In fact, I was unable to		
	do so and have never seen any		
	work that compiled case reports,		
	clinical approaches and prognoses		
	of patients with this complication.		
	Understanding that this work can		
	be important for updating and		
	alerting health professionals who		
	work in emergencies and intensive		
	care units to think about the		
	profile of the patient suffering		
	from this complication. As there		
	are 19 cases included in the study,		
	I suggest that the authors include a		
	table with the 19 studies,		
	describing the author, publication		
	data, title, which diagnostic		
	method was used and how many		
	patients were included in each		
	study. It is important for the		
	reader to have an overview of the		
	work carried out.	x47 1 1 .1	NT
	Regarding figure 2, I suggest using	We have made the	Necessary
	authorial figures, the DENV figure	suggested changes in the	changes
	can be better represented in an	figure	made in
	illustrative way, the liver and		figure 2.
	hypoxia/ischemia as well. Kedraw		
	figure 2 and center the sentences.		TT 1
#3	NAC has been the drug of choice	I nank you for your	Have made
	for the treatment of	inputs. As dengue	the
	acetaniinopnen related liver failure	induced ALF is rare, the	necessary
	since the 1970s. NAC neips	data regarding utility of	changes in
	roplonishes autoplasmic and	NAC has been	discussion
	mitochondrial dutathiono stores	extrapolated from	section
	hu acting as a glutathione	studies in acetaminophen	section.
	by acting as a grutatione	and non-acetaminophen	
	with reactive metabolisms. It	induced ALF. Earlier	
	serves as a source of sulfate thus	reports suggested that	
#3	reader to have an overview of the work carried out. Regarding figure 2, I suggest using authorial figures, the DENV figure can be better represented in an illustrative way, the liver and hypoxia/ischemia as well. Redraw figure 2 and center the sentences. NAC has been the drug of choice for the treatment of acetaminophen related liver failure since the 1970s. NAC helps neutralize free oxygen radicals and replenishes cytoplasmic and mitochondrial glutathione stores by acting as a glutathione substitute and directly combing with reactive metabolisms. It serves as a source of sulfate, thus	We have made the suggested changes in the figure Thank you for your inputs. As dengue induced ALF is rare, the data regarding utility of NAC has been extrapolated from studies in acetaminophen and non-acetaminophen induced ALF. Earlier reports suggested that	Necessary changes made in figure 2. Have made the necessary changes in the discussion section.

enhancing non-toxic sulfate conjugation and preventing hepatic damage. I ask some questions to author. Please let me know from what day and for how many days NAC should be administered after liver failure occurs.	NAC may be more useful in preventing rather than treating hepatic injury and hence it was recommended to start NAC early (within 8-12 hours) of acetaminophen overdose (doi: 10.1136/bmj.2.6198.1097). However, it is difficult to determine the exact time of hepatic insult in patients with non- acetaminophen induced liver failure and hence, it is recommended to initiate NAC in patients with significant acute liver injury as soon as ALF is detected. (Pulley JM, Jerome R. Acetylcysteine (N- acetylcysteine, NAC) for	
	acetaminophen-induced acute liver failure.)	
What is the PT value to start NAC after acute liver failure?	The cut-off for PT has not been defined. In patients with non-paracetamol ALF, NAC is generally initiated at INR>1.5 (<u>10.20524/aog.2021.0571</u>). However, such values have not been defined for dengue induced ALF and hence, we cannot recommend any specific cut-off based on this meta-summary.	No changes made

Please tell me the etiology of liver	The exact	No changes
failure due to dengue fever.	pathophysiology of liver	made
	failure due to dengue	
	fever remains unknown.	
	However, several	
	mechanisms have been	
	described but in most of	
	the cases the cause may	
	be multifactorial. Details	
	have been mentioned in	
	the 2 nd paragraph of the	
	discussion section.	