Supplementary File 1

Semi-structured interview transcript

Please follow the instructions and the script.

I. Informed consent

Interviewer:

1. Hi! Good morning. I am/My name is______. I'm a researcher studying the knowledge, attitudes and practices regarding dengue fever among patients with dengue.

2. I'd like to invite you/your child to join our study. Your/your child's participation in this study is entirely voluntary and you can leave or stop any time you want. This will only take 10 to 15 minutes of your time.

3. If you agree to join, I will just ask you some questions about you and your family, then I will give you a survey questionnaire about knowledge, attitude and practices regarding dengue for you to answer.

-Pause and let the patient and/or parent decide to join or not.

-If yes, ask about the patient's age.

Interviewer:

4. Before we start, can I ask your age, please?

NOTE: verbal assent: ages 7-12 years with informed consent of parent, LAR or caregiver assent form: ages 12-15 years informed consent: age 15 and above (for patients under 18 years old, parents, LAR or caregiver co-sign the informed consent)

-Prepare the informed consent and/or assent form (two copies each)

NOTE: Please follow the script in the Informed consent or Assent form (highlight the foreseeable **risk**, **incentives**, **benefits and confidentiality management**, **and contact numbers for grievance and complaints**).

-Once finished, ask the patient, parent, LAR or guardian if they have questions, then address them.

-Then, ask them to write their name, affix their signature and write the date in the informed consent or assent form in their appropriate sections.

-If the patient cannot read or write, ask for a witness to sign.

-After they've signed, write your name and affix your signature and date today.

II. Profile sheet: Don't force the patient to answer all the questions.

-Write the hospital, room and bed number, attending physician, and date of interview in the Profile

sheet.

5. When is your birthday?

6. Are you single or married? (only for adult patients)

- encircle his/her gender.

7. Are you studying? (If yes, proceed to #9; if no, proceed to number #11)

8. What is your grade level? (proceed to # 10)

9. What is the name of your school/company? Where is it located?

10. Are you working? (If yes, go back to #10)

11. Are you living with your family? (If no, ask probing questions if necessary)

12. How many are you in your family?

13. How much is your family's monthly income? (for children, ask their parents, LAR or guardian) (Probe by letting him/her choose among the options: below 10,000 pesos, etc.)

14. May I ask about your diagnosis? (What was your doctor's diagnosis?)

15. When were you admitted here?

16. How long have you been admitted here in the hospital?

17. Is this your first time to have dengue? (If no, probe by asking date, diagnosis and frequency)

18. Is there someone in your family who has dengue now? (If yes, probe by asking hospital information [whether hospitalized or not], admission diagnosis, relationship with him/her, etc.)

19. Is there someone in your family who had dengue before? (If yes, probe by asking hospital information [whether hospitalized or not], admission diagnosis, relationship with him/her, etc.)

20. How do you feel right now? Do you feel feverish? or cold? (if yes, ask for temperature)

21. Do you feel any pain anywhere in your body? (probe by asking each symptom and ask the severity of pain)

NOTE: (Mild (or Grade 1): Transient or mild symptoms; no limitation in activity; no intervention required;]Moderate (or Grade 2): Symptom results in mild to moderate limitation in activity; no or minimal intervention required; Severe (or Grade 3): Symptom results in significant limitation in activity; medical intervention may be required.)

22. What is your recent platelet count? (check the medical charts for confirmation)

23. What medicines do you take? (probe by asking treatment interventions like antibiotics, blood transfusion, etc.It may also give clue to other diagnosis)

III. KAP Questionnaire: Please follow this script.

Interviewer:

24. Here is the questionnaire about your knowledge, attitude and practices regarding dengue fever.

25. This questionnaire has 3 parts: 29-item knowledge (dengue symptoms, modes of transmission, preventive practices and disease management), 3-item attitudes (seriousness,

risk and

prevention) and 12-item practices (mosquito-man contact and eliminating breeding sites).

26. Please put your answer by checking in the appropriate column. Some parts are "yes" or questions, if you don't know the answer, check I don't know column.

27. Other parts are in a scale of 1 to 5 (Strongly agree, agree, not sure, disagree, strongly disagree) and scale of 1 to 4 (Never, sometimes, always or never).

28. Do you have questions? (If none, please tell the patient to start)

29. If you have questions about the items, please don't hesitate to ask me.

NOTE: If the patient cannot write, ask his/her parent, guardian or LAR to write (only) his/her answers.

-Once finished, check if all items were answered. If there are missed items, ask the patients to answer it.

-Give the dengue pamphlet to the patient and discuss the information in it.

-Ask the patient if they want to receive a copy of the output of this study. If yes, ask for their email address.

- Give a copy of the informed consent to the patient.

-Lastly, give incentives to the patient.

30. Thank you for joining in our study!

NOTE: Do not leave any form with the patient's identifiable information

Supplementary File 2

STROBE Statement – checklist of items that should be included in reports of observational studies

	Item		Subheading of
	No	Recommendation	article
Title and	1	(a) Indicate the study's design with a commonly used term in the title or the abstract	Abstract
abstract		The design, case-control study was mentioned in the abstract	
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	Abstract
		A structured abstract that includes background, method, results and conclusion parts which contain balanced and informative	
		summary	
Introduction			
Backgroun	2	Explain the scientific background and rationale for the investigation being reported	Background
d/rationale		We explained in the background that assessing knowledge, attitude and practices (KAP) is deemed necessary, yet, at present, to the	
		best of our knowledge, no study has been done to assess the KAP regarding DF in Metro Manila. We also stated that most of KAP	
		studies have included only community-based samples and investigation on samples with clinical or serologically-confirmed DF	
		diagnosis remains inadequate. To our knowledge, only two community-based case-control studies have been done, however, the	
		methods had limitations, collection procedure and self-report bias. Thus, we tried to address these limitations by doing a hospital-	
		based face-to-face interview surveillance among patients with DF through the use of a questionnaire. This would also allow us to	
		capture patients' knowledge and attitude and their family's/household's practices against DF during the onset of the infection. We	
		assumed that during this time, they haven't acquired knowledge on DF and changed their attitude or behaviour toward DF.	
		Moreover, studying this group will provide important benchmark information on identifying and confirming which of the three KAP	
		domains plays a vital role in the presence and spread of disease which, in turn, would help structure more targeted and proactive	
		community-wide disease prevention and control programs.	
Objectives	3	State specific objectives, including any prespecified hypotheses	Background
		This study aimed to assess and compare the KAP of patients with DF and controls, identify the predictors of KAP domains, analyse	
		the relationship among them, and identify protective factors against DF. The results will be used as springboard in identifying and	
		recommending structure for more targeted and proactive community-wide DF prevention and control programs.	
		We hypothesized that patients with DF would have lower levels of KAP than the controls. Clinical variables would be significant	
		predictors of KAP among the paediatric and adult patients with DF. We also hypothesized that patients' knowledge and attitude on	
		DF would not have significant positive relationship with their practices against DF, compared with that of the controls which would	
		imply that low practice levels exposed the patients to the infection.	

Methods

Study	4	Present key elements of study design early in the paper	Study and Sampling
design		We mentioned "This case-control study involved clinically or serologically confirmed patients (paediatrics $n = 233$; adults $n = 17$)	Design
0		and community-based controls (paediatrics $n = 233$; adults $n = 17$)" in the first sentence of the study and sampling design.	0
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure (N/A), follow-up (N/A),	Study and Sampling
0		and data collection	Design
		Patients with DF were admitted in 3 public tertiary (>100 beds) hospitals in Metro Manila, Philippines: San Lazaro Hospital, a	0
		referral facility for Infectious/ Communicable Diseases, Quezon City General Hospital and; Pasay City General Hospital while the	
		controls were community (adults) and school (paediatrics) based samples. Community-based adult controls were compared with	
		adult patients with DF while paediatric patients with DF were compared with school-based Grade 3 to Grade 12 students (8 to 18	
		years old). The collection was done during the rainy season from 26 th July to 26 th November 2017 in Metro Manila, Philippines.	
Participant	6	(a) Cohort study—Give the eligibility criteria, and the sources and methods of selection of participants. Describe methods	Participant Inclusion
S		of follow-up	and Exclusion Criteria
		<i>Case-control study</i> —Give the eligibility criteria, and the sources and methods of case ascertainment and control selection.	
		Give the rationale for the choice of cases and controls	
		Paediatric (18 years old and below) and adult in-patients (19 years old and above) had serology-confirmed or clinically diagnosed	
		DF, who were conscious and able to read and write. Excluded were those who were not able to comply with consent procedures, or	
		with life-threatening comorbidities. Controls were sampled individuals who had no signs and clinical symptoms of DF and who had	
		no family member hospitalized for or diagnosed with DF at the time of interview.	
		Cross-sectional study—Give the eligibility criteria, and the sources and methods of selection of participants	
		(b) Cohort study—For matched studies, give matching criteria and number of exposed and unexposed	Study and Sampling
		Case-control study—For matched studies, give matching criteria and the number of controls per case	Design
		We used the 1:1 ratio (one case patient/ one control) with an assumed odds-ratio of \geq 2, power (1- β) of 0.80, 0.05 significance level,	
		Z_{lpha} =1.96. Community-based adult controls were compared with adult patients with DF while paediatric patients with DF were	
		compared with school-based Grade 3 to Grade 12 students (8 to 18 years old). However, we failed to control potential confounders by	
		matching them in terms of age, gender, grade level because availability and participation rates among the controls were low.	
Variables	7	Clearly define all outcomes, exposures (N/A), predictors, potential confounders (N/A), and effect modifiers(N/A). Give	Explanatory variables
		diagnostic criteria, if applicable	and Response variables
		Outcome or Response variables are: knowledge (dengue symptoms, modes of transmission, preventive practices and disease	
		management), attitudes (perceived seriousness, risk and prevention) and practices (mosquito-man contact and eliminating breeding	
		sites). Explanatory variables or predictors: age, civil status, gender, educational attainment or employment status, family monthly	
		income and family, self DF history, admitting diagnosis, serologic test results (NS1Ag and BLOT: IgG and IgM), platelet count, DF	
		phase (acute: febrile to critical and recovery phase) and clinical symptoms.	
Data	8*	For each variable of interest, give sources of data and details of methods of assessment (measurement). Describe	Ethical considerations
sources/		comparability of assessment methods if there is more than one group	and data collection
			procedures

measureme		We used consistent pre-determined instructions and questions using structured forms and pre-tested self-report questionnaire for	
nt		both the patients and controls.	
Bias	9	Describe any efforts to address potential sources of bias	Ethical considerations
		To avoid bias, interviews were done with a consistent pre-determined instructions and questions using structured forms and pre-	and data collection
		tested self-report questionnaire. This was done to expect a fairly consistent data from one participant to another.	procedures
Study size	10	Explain how the study size was arrived at	
		All the patients in the three hospitals during the data collection period (July to November) were recruited in the study based from the	
		inclusion criteria.	
Quantitativ	11	11 Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen	
e variables		and why	Analysis
		Explanatory variables or predictors were divided into three categories: socio-demographic profile, clinical parameters and clinical	
		data. Each of the variable was divided into categories. For linear regression analysis, the categorical variables were transformed to	
		dummy variables [i.e., 0 or 1]to identify the predictors of KAP domains which are continuous data. Outcome or Response variables,	
		knowledge, attitude and practice were measured by mean score.	
Statistical	12	(a) Describe all statistical methods, including those used to control for confounding	Statistical and Data
methods		Multiple linear regression analysis was done by inputting all explanatory variables in the model using a stepwise method in	Analysis
		backward selection to identify significant ($P < 0.05$) predictors of KAP among patients with DF.	
		(b) Describe any methods used to examine subgroups and interactions	Statistical and Data
		We compared the groups: paediatric patients and paediatric controls, and adult patients and adult controls by their mean scores in	Analysis
		each KAP domain using independent samples t-test.	
		(c) Explain how missing data were addressed	Statistical and Data
		Data from participants with incomplete or missing responses were not included in the final analysis.	Analysis
		(d) Cohort study—If applicable, explain how loss to follow-up was addressed	Study and Sampling
		Case-control study—If applicable, explain how matching of cases and controls was addressed	Design
		We matched the patients with controls according to the total number of patients in the two age-groups (pediatric and adults) but we	
		failed to match them by the frequency in each age category, gender, grade level, etc.	
		<i>Cross-sectional study</i> —If applicable, describe analytical methods taking account of sampling strategy	
		(<u>e</u>) Describe any sensitivity analyses	
		We did not do any sensitivity analyses in this study. However, we did expert validation and measured the internal consistency of the	
		KAP domains using Cronbach's alpha.	
D 1/			
Kesults			
Participants	1	3^* (a) Report numbers of individuals at each stage of study – eg numbers potentially eligible, examined for Socio-a	emographic Profile,
		eligibility, confirmed eligible, included in the study, completing follow-up, and analysed <i>clinical</i>	parameters and

symptoms

		Initially, there were 350 patients with DF participated in the study. However, we have excluded those who had incomplete responses ($n = 15, 4.3\%$) and those whose responses came from a family member instead of the patient himself ($n = 85, 24.3\%$).	
		(b) Give reasons for non-participation at each stage We have excluded those who had incomplete responses and those whose responses came from a family member instead of the patient himself	Socio-demographic Profile, clinical parameters and symptoms
		(c) Consider use of a flow diagram	
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	Socio-demographic Profile, clinical parameters and
		Please see Table 1. Socio-demographic profile, clinical parameters and clinical symptoms among paediatric and adult patients with DF and paediatric and adult controls	symptoms
		(b) Indicate number of participants with missing data for each variable of interest We included participants who provided complete responses. We have the same number of participants in all response or outcome variables.	Socio-demographic Profile, clinical parameters and symptoms
		(c) Cohort study—Summarise follow-up time (eg, average and total amount)	· ·
Outcome data	15*	Cohort study—Report numbers of outcome events or summary measures over time	
		Case-control study—Report numbers in each exposure category, or summary measures of exposure We just reported the mean scores obtained by each participant subgroup in all the KAP domains. Please see Table 2 Results of independent t-test for the difference of KAP mean scores between patients and controls	Mean score difference of knowledge, attitude and practice between patients and controls
		Cross-sectional study—Report numbers of outcome events or summary measures	
Main results	16	(<i>a</i>) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and their precision (eg, 95% confidence interval). Make clear which confounders were adjusted for and why they were included <i>We did not include unadjusted estimates and confounder-adjusted estimates with precision in our study.</i>	
		(<i>b</i>) Report category boundaries when continuous variables were categorized <i>We did not categorize the outcome variables.</i>	
		(<i>c</i>) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period <i>We did not estimate relative risk or absolute risk in the study.</i>	
Other analyses	17	Report other analyses done —eg analyses of subgroups and interactions, and sensitivity analyses Multiple linear regression analysis found significant regression equations in all KAP domains among paediatric patients with DF	Predictors of knowledge, attitude and practice Correlation among
		Spearman rank correlation to measure the correlation values among the KAP domains All preventive practices were used in a logistic regression analysis to identify protective factors against DF	knowledge, attitudes and practices Protective factors against DF

Discussion			
Key results	18	Summarise key results with reference to study objectives	Discussion
		The first paragraph of the discussion summarizes the key results	
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss both	Discussion
		direction and magnitude of any potential bias	
		We mentioned the limitations in the last paragraph of the discussion. We mentioned small sample size of adult patients	
		with DF; failure to match patients with controls; confounding effect of economic status and hospitalization, and; false	
		positive responses as threats to external validity of the study findings.	
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses,	Discussion
		results from similar studies, and other relevant evidence	
		These are our interpretation sin the key results of our study:	
		1. Being diagnosed with DF, increased their awareness regarding DF and multiple encounters with different health	
		care providers or other patients might have increased their knowledge about DF.	
		2. The significantly high score obtained by controls in practice domain implies that they had good practice against DF	
		compared with patients with DF which may explain why controls, in general, did not have DF.	
		3. Both knowledge and attitude did not correlate with the practices against DF of patients with DF which clearly	
		signifies that the translation of knowledge and attitude to practice among patients was poor and this might have	
		exposed them to higher risk of contracting the disease.	
Generalisability	21	Discuss the generalisability (external validity) of the study results	Discussion
		Some generalisabilities of the results from this study were discussed especially in the larger context like patients with	
		DF in general, pediatric patients with DF.	
Other informatio	n		
Funding	22	Give the source of funding and the role of the funders for the present study and, if applicable, for the	Funding
0		original study on which the present article is based	
		This study was supported by the Japan Society for the Promotion of Science (ISPS) Grant-in-Aid for Scientific	
		Research (17H01624_19H01144) ISPS Core-to-Core Program B. Asia-Africa Science Platforms and Endowed	
		Chair Program of the Sumitomo Electric Industries Croup Corporate Social Responsibility Foundation, which	
		had no role in the design data collection statistical analysis and writing of this manuscript	
		nue no role in the design, data concertor, statistical analysis, and writing of this inditascript.	

*Give information separately for cases and controls in case-control studies and, if applicable, for exposed and unexposed groups in cohort and cross-sectional studies.

Note: An Explanation and Elaboration article discusses each checklist item and gives methodological background and published examples of transparent reporting. The STROBE checklist is best used in conjunction with this article (freely available on the Web sites of PLoS Medicine at http://www.plosmedicine.org/, Annals of Internal Medicine at http://www.annals.org/, and Epidemiology at http://www.epidem.com/). Information on the STROBE Initiative is available at www.strobe-statement.org.