

Evaluation of the Module Pilot Test

The two-lesson risk communication demo module was pilot tested in the classroom in ten local area schools on March 11, 2019. Pre- and post-surveys were administered at the beginning and end of the module. This evaluation consists of comparing post- versus pre-survey responses to three questions, which are as follows.

- Q1. What is a storm surge? (0 = incorrect, 1 = correct).
- Q2. Where on the map is it most risky? (0 = incorrect, 1 = correct)
- Q3. Level of confidence in communicating risk? (likert scale of 0 to 7).

The results are shown in Table 1, below. A paired sample t-test was conducted.

Question	Mean for Pre-Survey	Mean for Post-Survey	Change in Response (Post minus Pre)	Statistical Significance (p)
Q1	0.53	0.61	0.08	< 0.01
Q2	0.40	0.58	0.18	< 0.01
Q3	4.03	4.61	0.58	< 0.01

Table 1. Comparing Pre- and Post-Survey Results (n = 285)

It is seen that significant improvements in responses to the three questions resulted from the two-part lesson. Teachers can, if they wish, use or modify the same questionnaire for assessment when teaching the risk communication module.

Questions regarding the lesson plans and evaluation can be addressed to Raul Lejano (lejano@nyu.edu).

The complete survey questions (Q1, Q2, and Q3) are shown below.

1. Answer the following question by selecting one of the items below.

What is a storm surge?

- (a) flooding due to water from the mountains
- (b) a sudden gust of strong wind like a tornado
- (c) a large wave caused by strong winds
- (d) typhoon traveling at high velocity
- (e) none of the above

2. A storm surge is most dangerous for people living:

- (a) in mountainous areas
- (b) along the coast
- (c) in valleys and other low-lying areas
- (d) new tall trees
- (e) none of the above

3. On a scale of 1 to 7 where 1 = low level of confidence, 4 = average level of confidence, and 7 = very high level of confidence, give a number that reflects your best answer to the following question.

If you see a bulletin in school from PAGASA warning residents of your barangay of a coming storm surge, how confident are you that you can communicate the warning to your parents and neighbors?

Answer: _____ (select a number between 1 and 7).