



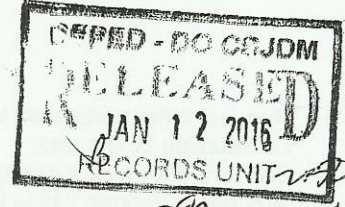
Republic of the Philippines
DEPARTMENT OF EDUCATION
Region III
DIVISION OF CITY SCHOOLS
City of San Jose del Monte



website: www.depedcsjdm.webs.com / e-mail: deped_csjdm@yahoo.com / telefax: (044) 815-2815

12 January 2016

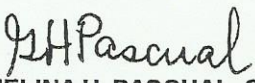

DIVISION MEMORANDUM
No. 06, s. 2016



To: Public Elementary School Heads

**IMPLEMENTATION OF VECTOR CONTROL USING THE
LONG LASTING INSECTICIDE-TREATED NET (LLIN)**

1. Per DOH Memorandum No. 2015-0348 "Strengthening Dengue Prevention and Control Through Brigada Kalinisan Para sa Kalusugan/Aksyon Barangay Kontra Dengue (ABKD) Pagtibayin" this Office reiterates compliance with requirements by the thirty four (34) public elementary school heads for the allocation of Long Lasting Insecticide Treated Curtain (LLITC).
2. Attached are the following:
 - a. Enclosure No. 1- Requirements for the Schools Requesting LLITC
 - b. Enclosure No. 2- Form 1: LLITC Baseline Survey Form
 - c. Enclosure No. 3- Guidelines in the Implementation
 - d. Enclosure No. 4- LLITC School Beneficiaries
3. School heads may seek assistance from the City Health Office in accomplishing the form.
4. Enclosure Nos. 1 and 2 are due to this Office (ATTENTION: NURSE ETHEL JOY A. QUERIDO) on or before January 15, 2016.
5. Appropriate action is immediately expected.


GERMELINA H. PASCUAL, CESO V,
Schools Division Superintendent 



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Inclosure No. 1 to Division Memorandum No. _____, s. 2016

REQUIREMENTS FOR THE SCHOOLS

1. Request letter addressed to Dir. Leonita P. Gorgolon duly signed by the principal and noted by CHO Dr. Betzaida B. Banaag.
2. School's floor plan showing where they need to put up curtains.
3. Number of dengue cases for 2015 in the barangay where the school is located.
4. Number of dengue cases for 2015 in the school.
5. Baseline dengue vector surveillance within the school before installation, 6 months after installation, and every after the installation.
6. Dengue vector surveillance in the barangay where the school is located before installation, 6 months after installation, and every after the installation.



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Inclosure No. 2 to Division Memorandum No. _____, s. 2016

Establishing Dengue-Free School Initiative in Central Luzon Phase 3
 Form 1: LLITC Baseline Survey Form

I. School Profile

- a. Name of School _____
- b. Name of Principal _____
- c. Address: _____
- d. Total No. Of Rooms: _____
- e. Total No. Of enrollees for the current school year: _____
- f. Total No. Of dengue cases for the past 3 years in school:
 (2012) _____ (2013) _____ (2014) _____
- g. Total No. Of dengue cases for the past 3 years in Brgy.:
 (2012) _____ (2013) _____ (2014) _____

II. Entomological Survey (OvilarvaeIndex)

- a. Date conducted: _____
- b. Total Number of rooms surveyed: _____

Room No.	Name of Teacher	No. Of Children	No. Of ovitraps installed		No. Of positive traps for egg/larva	
			Indoor	Outdoor	Indoor	Outdoor

III. Installation Site Survey

Room No.	Name of Teacher	No. Of Children	No. Of Windows	Measurement of each window (L x W in cm.)	No. Of doors	Measurement of each door (L x W in cm.)

IV. Program-related activities survey

- a. Is there an active dengue school brigade? () Yes () No
- b. Is the school conducting clean up drives? () Yes () No
 If yes, how often? _____
- c. Is the school practicing the 4 o'clock habit? () Yes () No
 If yes, how often? _____
- d. Is the school has an established dengue surveillance system? () Yes () No
- e. Is dengue discussed or integrated in any subjects? () Yes () No
- f. Other program-related activities conducted (if any) _____

Prepared by:

 School Health Coordinator

Noted by:

 School Head

 City Dengue Coordinator

DR. BETZAIDA B. BANAAG
 City Health Officer



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- Teamwork

KP Strategic Thrust:

1. Improve Financial Risk Protection
2. Improve Quality In and Out-patient care
3. MDG/Max



DEPARTMENT OF HEALTH - REGIONAL OFFICE III (DOH-RO III) GUIDELINES IN THE IMPLEMENTATION OF VECTOR CONTROL USING THE LONG LASTING INSECTICIDE TREATED NET (LLIN) MATERIAL (as window curtain, doorway curtain, and or screen)

I. RATIONALE

The principal objective of vector control is the reduction of dengue morbidity and mortality by reducing the level of transmission through the reduction of vector population. In the prevention and control of vector-borne disease like dengue, disease management is always complemented with vector control such as the use of long lasting insecticide treated net (LLIN material), anti-larval measures and source reduction to eliminate breeding sites to reduce infective adult vector population preventing the transmission of the dengue virus to the susceptible host (e.g. children in schools). Aside from epidemiological basis of vector control maximum effectiveness can be achieved through the appropriate use of LLIN material combined with the search and destroy breeding sites strategy.

II. OBJECTIVES

These guidelines shall set the region-wide implementation of vector control using the long lasting insecticide treated net material (LLIN material) to prevent dengue transmission and procedures in the allocation of the LLIN material to priority areas and to dengue high risk/ sensitive areas.

III. SCOPE AND COVERAGE

The set guidelines shall apply to all healthcare officials in the provinces, municipalities/cities, barangays, and to the Department of Education (DepEd) within Central Luzon whose functions and activities contribute to support the adoption of Integrated Vector Management (IVM) including the use of LLIN material as vector control measure in the region. It will include barangay day care centers and both public elementary and secondary schools.

IV. DEFINITION OF TERMS

The following definition of terms shall be considered:

- a. Integrated vector management (IVM) is a rational decision-making process to optimize the use of resources for vector control. IVM aims to improve the efficacy, cost-effectiveness, ecological soundness and sustainability of vector control. It is based on evidence and integrated management, promoting the use of a range of interventions - alone or in combination - selected on the basis of local knowledge about the vectors, disease and disease determinants. IVM approach addresses several diseases concurrently, because some vectors can



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transmit several diseases and some interventions are effective against several vectors.

- b. Long-Lasting Insecticide Treated Net material (LLIN material) roll - fibers are made of polyethylene, a very strong material, much more tear-resistant and wash-proof than polyester fibers. Insecticide is embedded in the fibers and its effectivity last for 3-5 years.
- c. Barangay Day Care Center - mainly established to help in the values formation and socialization of children up to 6 years old. The facility is intended for parents to prepare their children for grade school. It also provides support programs to ensure total development and protection of children. It is utilized to assist in the care of children and provide consultative services for medical, educational, and other needs of the children.
- d. Public Elementary School - encompasses grades 1-6 and students learn basic skills in areas such as reading, writing, and mathematics.
- e. Public Secondary School - a school which provides secondary education between elementary school and college.
- f. Vector is any organism responsible for the transmission of the diseases from one person to another by inoculation into the skin or mucous membrane by biting; or by deposit of infective materials on the skin or food or any biological reproduction within the organism such as *Anopheles* species for malaria, *Aedes*, *Mansonia* and *Culex* species for filariasis and *Aedes* species for dengue.
- g. Vector-borne diseases (VBD) are infectious diseases where part of its life cycle is completed within the vector.
- h. Vector control is measure directed against the vector of diseases.
 - i. Dengue priority areas - localities where outbreak of dengue occurs
 - j. Dengue high risk / sensitive areas - localities with high larval / pupal indices

The following acronyms will be used:

1. LLIN material - Long Lasting Insecticide Treated Net material
2. DOH - Department of Health
3. DepEd - Department of Education
4. RITM - Research Institute for Tropical Medicine
5. IVM - Integrated Vector Management
6. DVS - Dengue Vector Surveillance
7. VBD - Vector-borne diseases
8. LGU - Local Government Unit
9. LCE - Local Chief Executive
10. PHO - Provincial Health Officer
11. MHO - Municipal Health Officer
12. CHO - City Health Officer
13. RSI - Rural Sanitary Inspector
14. RHM - Rural Health Midwife
15. PHN - Public Health Nurse
16. HI - House Index
17. CI - Container Index



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19. BI – Breteau Index

V. GENERAL GUIDELINES

The following general considerations shall be implemented:

Control of mosquitoes using the principles of IVM includes: environmental modification and personal protection (i.e. use of LLIN material), biological control and chemical control supported by legislation. Non-chemical methods are always considered first, but if a chemical pesticide is required, then it will be the one with the lowest toxicity and least persistent pesticide that is efficacious on mosquitoes, for both larval and adult stages. Insecticide resistance monitoring currently being conducted by the Research Institute for Tropical Medicine (RITM) will provide evidence for rational resistance management policy and effective dengue vector control.

VI. SPECIFIC GUIDELINES

The following procedures will be applied:

A. Allocation of the commodity – LLIN material.

1. LLIN material shall be allocated to day care center/public elementary school/secondary school located within the priority areas or in dengue high risk / sensitive areas.
2. The beneficiary school is required to submit the following documents to the Department of Health – Regional Office 3 (DOH-RO3) Regional Dengue Prevention and Control Program:
 - a. Letter of intent addressed to the DOH – RO3 Regional Director and duly signed by the school's principal and MHO / PHO
 - b. Completely accomplished Form 1: LLIN material Baseline Survey Form
 - c. "School's spot map" (showing classrooms' location where LLIN material will be installed)
 - d. Baseline Dengue Vector Surveillance (DVS) within the school and/or within the barangay where the school is located.

B. Conduct of Dengue Vector Surveillance (at the barangay where the school is located and within the school) prior to the installation of the LLIN material (i.e. considered a baseline survey), then to be conducted again six (6) months after installation and every year thereafter for the next five (5) years.

1. Larval/Pupal Surveys: (*AO on DVS)

For practical reasons, the most common survey methodologies employ larval and pupal sampling procedures rather than egg or adult collections. The basic sampling unit is the house or premise, which is systematically searched for water-storage containers. Containers are

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The pupal density approximates adult production from different habitats to identify epidemiologically the most important container classes (NCDPC-DOH, WHO, 2009).

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- i. Prepare all entomological materials and supplies needed for the survey. Provide a set of materials per team, i.e. plastic pipette, dipper, flashlight/headlamp, plastic bags, labelling materials, carrying containers (pails or cooler box), larval sweep net, dengue entomological survey forms.
- ii. Organize the entomological surveillance team. Create 4 or more teams with at least 3 persons per team. A team leader shall brief/orient the team members about the activities to be conducted.
- iii. Inform the area to be surveyed of the upcoming entomological survey activities. Select at random 100 houses to be surveyed per barangay where the day care center or elementary or secondary public school is located.
- iv. Search and inspect all artificial or man-made containers for mosquito larvae and/or pupae inside and within the perimeter of the house such as drum, pails, basins, used automobile tires, fresh water plant vase, tin cans and other containers that accumulate water.
- v. Search and inspect all natural containers such as leaf axis of plants, empty coconut shells, bamboo stumps, tree holes, wells and other temporary or semi-permanent bodies of water found in the area.
- vi. Collect all larvae, pupae in all positive containers using plastic pipette, plastic dipper or sweep net, whichever is applicable.
- vii. Transfer larvae and pupae to plastic transport bag (i.e. ice plastic) using a plastic pipette.
- viii. Segregate larval/pupal collections per container from each house and label the plastic bag with the following information: house number, homeowner, container number, container type, and estimate number of larvae, actual number of pupae, name of collector and date of collection.
- ix. Record all collection information in the **Dengue Form 5** (National Dengue Prevention and Control Program: Dengue Entomological Survey Questionnaire).
- x. Place all collections in carrying container (pails/cooler box).
- xi. Bring collected specimen to the laboratory (or in the office of the trained health care worker trained on dengue vector surveillance) for identification.
- xii. Kill larvae and pupae collected in hot water (60°C) for identification.
- xiii. Count all larvae and/or pupae collected. Transfer individually the larvae and/or pupae using a plastic pipette onto a glass slide for identification under a microscope.
- xiv. Identify "ALL" the 3rd and 4th instar larvae and pupae collected; record the number of identified *Ae. aegypti* and *Ae. albopictus*
- xv. Compute, analyze, and interpret the vector indices: House Index (HI), Container Index (CI), Pupal Productivity Index (PPI), and Breteau



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 2. Improve Quality of Care and Patient Care
 3. MDG 4



Index (BI) using the Dengue Form 2 (National Dengue Prevention and Control Program: Aedes Larval/Pupal Summary Form).

- xvi. Prepare and submit report to the local chief executive and/or local health officer for distribution to appropriate offices. (Furnish the Regional Dengue Prevention and Control Program team of the report for analysis and appropriate action).

VII. ROLES AND RESPONSIBILITIES

Department of Health Regional Office III - Communicable Disease Cluster shall:

1. Set implementing guidelines in the region-wide implementation of vector control using the long lasting insecticide treated net (LLIN) material (used as window curtains, doorway curtains and/or screens)
2. Allocate budget for procurement of LLIN material.
3. Provide technical assistance.
4. Conduct Monitoring and Evaluation.
5. Receives/Consolidates data from the Provincial Offices.
6. Prepares analysis of the consolidated report.

Department of Health Regional Office III Health Education and Promotion Office shall:

- (In coordination with the Provincial Health Promotion Officers)
1. Provide advocacy materials for school and community awareness and do advocacy campaigns.
 2. Conduct Knowledge, Attitudes, Practices (KAP) survey.

The Provincial Health Offices shall:

1. Advocate for passing of local ordinance on dengue vector control.
2. Organize Provincial DVS team: PHO, SI, PHN, and RHM.
3. Conduct stratification of dengue sensitive areas and dengue high risk areas.
4. Adopt the policy of the organization of DVS team.
5. Provide technical assistance (training) to municipal staff on DVS.
6. Provide Logistic support to municipal/barangay DVS.
7. Summarize reports from municipalities DVS team.
8. Provide analysis and recommendation to implementing municipalities.
9. Approves the Final Provincial Report and provides feedback to the Provincial Governor with supplemental recommendation.
10. Monitors and evaluates the implementation of vector control using the LLIN material as window curtains, doorway curtains, and / or screens.
11. Provincial Dengue coordinator/point person submits report to the DOH - Regional Office 3 after all the requirements were reviewed for completeness and accurateness duly signed by the PHO.



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 3. MDG 4



The Municipal Health Office/City Health Office shall:

1. Adhere with the guidelines in the implementation of vector control using the LLIN material (as window curtains, doorway curtains, and / or screens).
2. Advocate to the municipal/barangay council for ordinance/resolutions for community to undertake vector control.
3. Coordinate with the barangay council in the conduct of community participated DVS.
4. Implement the DVS
5. Municipal/City Ordinance adapting the Provincial Policies.
6. Adopt the policy of the organization of DVS team and monitoring team.
7. Organize Municipal DVS team: MHO, SI, PHN, and RHM.
8. Municipal/City Dengue Coordinators validates/consolidates reports coming from high risk Barangays, presents the validated and consolidated DVS report to MHO and provides analysis and recommendation to implementing barangays.
9. MHO approves consolidated reports from the barangays, conducts feedback to the Municipal/City Mayor and provides supplemental recommendation.
10. Municipal/City Dengue Coordinators submits validated report to PHO

The Beneficiary Barangay Day Care Center/ Public Elementary School/Secondary School shall:

1. Submit all requirements for the allocation of the commodity (LLIN material) to MHO/CHO.
2. Coordinate with the MHO/CHO for DVS.
3. Install the LLIN material (as window curtains, doorway curtains, and / or screens) within one month upon receipt.
4. Adopt the Dengue 4 o'clock strategy (to compliment the implementation of vector control using the LLIN material (as window curtains, doorway curtains, and / or screens)

The Department of Education (DepEd) shall:

1. Monitor the implementation of the Dengue 4 o'clock strategy (to compliment the implementation of vector control using the LLIN material (as window curtains, doorway curtains, and / or screens) in all beneficiary schools within their jurisdiction.
2. Shall submit report of monitoring conducted to the DOH-RO3.
3. Coordinate with the local health office in monitoring the occurrence of dengue among the student population especially among the target group supposedly covered by the intervention.
4. Coordinate with the sanitary inspector of the local health systems in the regular conduct of the vector surveillance activities.
5. Facilitate coordination with the Parents-Teachers Community Association (PTCA) in the proper maintenance of curtains/screens.



VIII. REPEALING CLAUSE

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Xp Strategic Thrust:
*Improve Financial Protection
 Improve Quality and Outcomes*

WDO: Max



Provisions from previous and related issuances inconsistent or contrary with the provisions of these guidelines are hereby revised, modified and repealed accordingly. All other provisions of existing issuances which are not affected by these guidelines shall remain valid and in effect.

WHEREFORE, based on the aforementioned provisions, guidelines in the implementation of vector control using LLIN material as window curtain, doorway curtain, and for as screens in school community shall take effect immediately upon approval.

Signed this 16th day of September, 2015 at the DOH - Regional Office III, Maimpis, City of San Fernando, Pampanga.

Prepared by:

[Signature]
RHODORA S. CRUZ, MD, MPH
 Regional Dengue Prevention and Control Program Coordinator

Noted by:

[Signature]
LOUELLA H. ESTEMBER, MD, MCH, CESE
 Director III

Approved by:

[Signature]
LEONITA P. GORGOLON, MD, MHA, MCHM, CEO VI
 Director IV

LLITC SCHOOL BENEFICIARIES
 City of San Jose del Monte, Bulacan

NO.	NAME OF SCHOOL	TOTAL # OF CLASSROOMS	TOTAL # OF NEEDED LLITC (ROLLS)
1	Bagong Buhay A Elementary School		15
2	Bagong Buhay B Elementary School	30	23
3	Bagong Buhay E Elementary School	45	29
4	Bagong Buhay F Elementary School	58	18
5	Bagong Buhay G-Elementary School	36	22
6	Bagong Buhay I Elementary School (Lawang Pari)	43	22
7	Benito Nieto Elementary School (Muzon Elementary School)	44	15
8	Dulong Bayan Elementary School	29	7
9	Francisco Homes Elementary School	13	22
10	Gaya-Gaya Elementary School	43	15
11	Golden Ville Elementary School	30	11
12	Graceville Elementary School	21	15
13	Gumaok Elementary School	29	15
14	Kakawate Elementary School	23	12
15	Kaypian Elementary School	6	3
16	Marangal Elementary School	26	13
17	Minuyan Elementary School	34	17
18	Muzon (Pabahay 2000) Elementary School	34	17
19	Paradise Farms Community School	77	39
20	Partida Elementary School	20	10
21	Ricafort Elementary School	16	8
22	S. Palay Proper Elementary School	4	2
23	San Isidro Elementary School	22	11
24	San Jose Del Monte Central School	18	9
25	San Manuel Elementary School	31	16
26	San Martin Elementary School (BBC)	14	7
27	San Rafael Elementary School (BBH)	26	13
28	San Roque Elementary School	70	35
29	Sta. Cruz Elementary School (BBD)	10	5
30	Sto. Cristo Elementary School	18	9
31	Towerville Elementary School	27	14
32	Tungkong Mangga Elementary School	42	21
33	Heroesville Elementary School	57	29
34	San Jose del Monte Heights Elementary School	15	8
TOTAL		1041	527