RECOGNITION AND DIAGNOSIS OF HIV AMONG ADOLESCENTS

Jo-Anne A. de Castro, MD, FPPS, FPIDSP



Outline

- Burden of Disease
- Clinical Manifestations
- Diagnosis
- Treatment Hubs
- What's New
- Summary



Number of Newly Diagnosed with HIV per day







Quick Facts

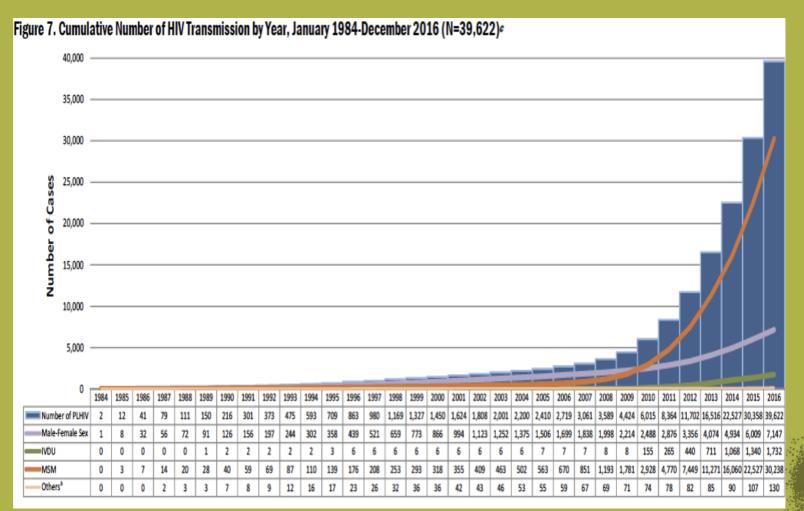
Table 1. Quick Facts

Demographic Data	Dec 2016	Jan-Dec 2016	Jan 2011 - Dec 2016	Cumulative Jan 1984 - Dec 2016
Total Reported Cases	750	9,264	33,607	39,622
Asymptomatic Cases	678	8,151	30,814	35,957
AIDS Cases	72	1,113	2,793	3,665
Male	721	8,874	32,104	36,801*
Female	29	390	1,503	2,810a
Age Range (Median)	16-73 (28)	1-75 (28)	1-82 (28)	1-82 (28)
Less than 15 y/o	0	22	56	111b
15-24 y/o	221	2,625	9,507	10,720b
25-34 y/o	412	4,921	17,762	20,386b
35-49 y/o	97	1,510	5,520	7,240b
50 y/o & above	20	186	762	1,091
Pregnant WLHIV	3	63	149	
Newly Started on ART	524			
Total PLHIV on ART				17,940
Reported Deaths	37	439		1,969



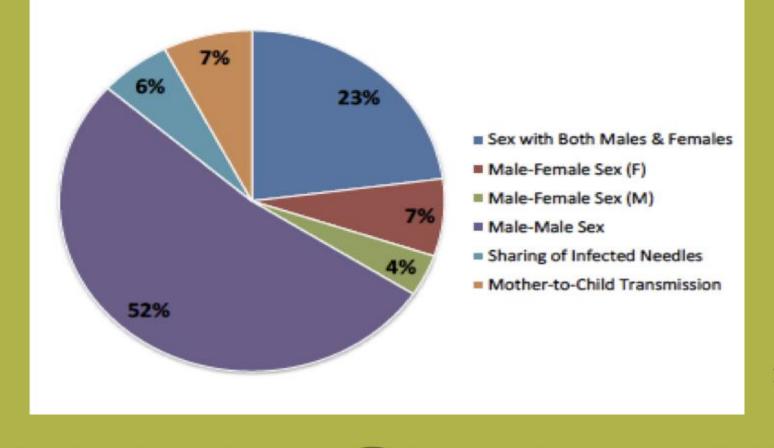


Modes of Transmission



Modes of Transmission among of the dren and Adolescents

Figure 8. Modes of Transmission Among Children and Adolescents, Jan 1984—Dec 2016 (N=1,429)*



Regions with the most number eported cases

Table 2. Percentage of HIV Cases per Region

Region	Dec 2016 (N=750)	Jan-Dec 2016 (N=9,264)	Jan 2011 - Dec 2016 (N=33,607) ^a	Cumulative Jan 1984— Dec 2016 (N=39,622) ^b
NCR	267 (36%)	3,744 (40%)	14,452 (43%)	16,899 (43%)
4A	136 (18%)	1,426 (15%)	4,946 (15%)	5,555 (14%)
7	59 (8%)	955 (10%)	3,216 (10%)	3,595 (9%)
3	74 (10%)	828 (9%)	2,785 (8%)	3,328 (8%)
11	46 (6%)	568 (6%)	2,123 (6%)	2,345 (6%)
ROTC	168 (22%)	1,743 (19%)	6,026 (18%)	6,754 (17%)

^aFrom January 2011 – December 2016, no particular region were reported for 59 cases ^bFrom January 1984-December 2016, no particular region were reported for 1,146 cases



Clinical manifestations

- Adolescents: 1° infection syndrome
- 30-70%: 2-6 weeks after HIV infection
- Sore throat, fever, myalgia, adenopathy, macular/maculopapular rash, fatigue

Children -Adolescents (6-21 yrs)

 1° s/sx of HIV infection candida pneumonia, esophagitis or vaginitis, varicella zoster, CMV retinitis, HIV wasting, MAI, cryptosporidiosis, severe herpes simplex recurrenc

es,

parotitis



N: 32; 17 (53%) male aged 8–19 years

Variable	No. (%) of patients
Baseline CD4 cell count, cells/µL	
<50	10 (31)
50–200	14 (44)
>200	8 (25)
Z scores	
Weight-for-age less than −2	16 (52)
Height-for-age less than −2	18 (62)
Diagnoses at or preceding HIV test	
Recurrent sinusitis/upper respiratory tract infection	21 (66)
Chronic diarrhea	20 (63)
Tuberculosis	19 (59)
Chronic skin conditions	18 (56)
Oral candidiasis	13 (41)
Shingles	10 (31)
Oesophageal candidiasis	6 (19)
Recurrent pneumonia	5 (16)
Other AIDS-defining diagnoses ^a	7 (22)
Chronic HIV-related conditions ^b	8 (25)



Rashida A. Ferrand et al Clin Infect Dis (2007) 44 (6): 874-878.



Clinical, Immunological and Demographic Profile of Children Living with HIV in the Philippine Setting (0-18 yo Jan 1996-July 2012): A Retrospective, Multi - Center Study

N: 28

Adolescents : 12 (27%)

MOT:

10 : Adolescents (MSM)

2: MTCT

Co-morbid conditions:

TB: 47%

oral candidiasis

chronic ear infection





Clinical Manifestations

Feature	# of cases N: 28	% of study population
Cough	26	92
Weight loss	11	39
Diarrhea	5	18
Skin lesions	21	75
Chronic diarrhea	4	14
Oral thrush	8	29



Clinical manifestations

PE Findings	# of cases N: 44	% of study population
Fever (T > 38 C)	6	14
Cervical lymphadenopathy	20	45
Ear discharge	4	9
Oral plaques	9	20
Harsh breath sounds	11	25
hepatomegaly	1	2
pallor	2	5
rashes	18	41



Prevalence of HIV thru clinically directed selective HIV screening in Pediatric Patients in PGH

Jan 2011 - Jan 2016

N: 126 M: 62 F: 53 MSM: 11

13-18 yrs old : 2 (+) HIV

6 selected clinical features:

Tuberculosis (Disseminated, Extrapulmonary or Miliary)

Severe Malnutrition

Chronic Diarrhea

Severe Recurrent Respiratory Tract Infection

Invasive pyogenic infection

Oral candidiasis





Prevalence of HIV thru clinically directed selective HIV screening in Pediatric Patients in PGH

(+) HIV: N: 2 TB disseminated oral candidiasis

Risky behavior: smoking

Drinking

IV drug user

Prohibited drug use Unprotected sexual contact

> 10 sexual partners

Prevalence: 1.6%





Epidemiology

	18years and bel	low	
Male	8	77	
female		7	
	Age		
Male	Range	0-18 y/o	
Male	Median	18	
Female	Range	2-18y/o	
remaie	Median	17	
	Exposure Categ	ory	
Male	Child born to an HIV infected mother Homosexual with multiple sex partners Bisexual Homosexual partner of an HIV infected individual Others: Perinatal		
Female	Child born to an Hi Heterosexual with	V infected mother multiple sex partners	
	CD4 at baselin	ie	
Range	1 5	7-2768	
Median	8	293	
	Clinical presentation a	t baseline	
Symptomati	c	19	
Asymptomat	tic	65	





Clinical Manifestations

CD4 at baseline			
Range		7-2768	
Median		293	
Clinic	cal presentation	on at baseline	
Symptomatic		19	
Asymptomatic		65	
Clinical condition at l	baseline (AIDS	defining among symptomatic)	
Tubercolosis Pulmonary 11			
Tubercolosis E	xtrapulmonary	1	
Pneumocystis Carinii Pneumonia		1	
Candiasis Oropharyngeal		3	
PPE		3	
Wasting Syndrome		1	
Oral Thrus	h (Candidiasis)	1	
Urinary Tract	Infection (UTI)	2	
Candidiasis of Trachea Bronchi/Lungs		1	
Outcome			
Male		Female	
Alive	51	2	
Died 3		3	
lost to ff up/unknown	23	2	





Clinical manifestations



Oral hairy leukoplakia



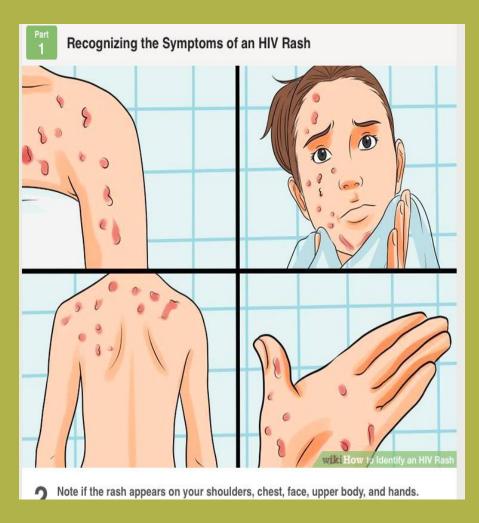
White plaques are present on the tongue.

Pruritic papular eruption: right lower extremity





Clinical Manifestations



Pay attention to other symptoms that may occur when you have HIV rash. These include:^[6]

- Nausea and vomiting
- Mouth sores
- Fever
- Diarrhea
- Muscle pain
- Cramps and body aches
- Enlargement of your glands
- Blurred or hazy vision
- Loss of appetite
- Joint pain



HIV Rash on Back

Clinical Manifestations





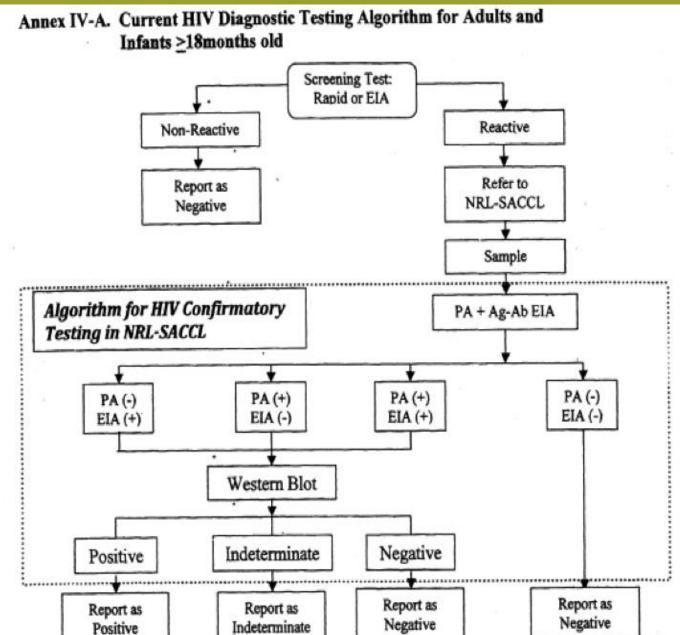




Diagnostic Tests

HIV Test	What do they test for ?	What is th e Window period	How long for the results?	Reliability
3 rd generation antibody tests	HIV antibodies	3 mos	Between 1-7 days	high
4 th generation antibody/ antigen tests	HIV antibodies and p24 viral proteins (antigens)	11 days – 1 month	Between a few days and a few weeks	high
Rapid tests	HIV antibodies	3 months	Within 20 mins	Satisfactory For uncomplicated infection





Baseline screening

- RPR
- CBC
- Hep B
- Chest X -ray
- DSSM-Gene expert
- CD4



Treatment Hubs

Regions	Treatment Hubs	Address	Contact Information
1	llocos Training and Regional Medical Center	Parian, San Fernando City, La Union	(072) 607-6418/ (072) 607-9912
2	Cagayan Valley Medical Center	Dalan na Pagayaya, Carig Sur, Tuguegarao, Cagayan	(078) 304-1410 / (078) 304-1810
	Bataan General Hospital (Bataan HAVEN)	Manahan St., Tenejero, Balanga City, Bataan	(047) 237-1274 / (047) 237-1275 Loc. 102/103
3	Jose B. Lingad Memorial Regional Hospital / Bahay LInGAD	Brgy. San Dolores, San Fernando, Pampanga	(045) 435-6801 / (045) 961-3544 09336215028
	James L. Gordon Memorial Hospital / L.E.A.D. Shelter	#1 Perimeter Rd., New Asinan, Olongapo City	(047) 602-3436
	Premiere Medical Center (TAHANAN sa Premiere)	Maharlika Highway, Daan Sarile, Cabanatuan City, Nueva Ecija	(044) 463-7845 loc. 2073 09322128175 / 09052944300
	Batangas Medical Center	Kumintang Ibaba, Batangas City	(043) 723-0165
4A	Laguna Medical Center	J. De Leon St, Santa Cruz, Laguna	(049) 543-3351 09178465901
4B	Ospital ng Palawan	220 Malvas St. Puerto Princesa City	(048) 434-6864 / (048) 434-2148
5	Bicol Regional Training and Teaching Hospital	Rizal St., Legazpi City	(052) 483-0017 loc. 4227
6	Western Visayas Medical Center	Q. Abeto St., Mandurriao, Iloilo City	(033) 321-1631
7	Vicente Sotto Memorial Medical Center	B. Rodriguez St., Cebu City	(032) 254-4155 / (032) 253-9891 to 96 Loc. 102
	Gov. Celestino Gallares Memorial Hospital	M. Parras St., Tagbilaran City	(038) 411-4868
8	Eastern Visayas Regional Medical Center	Magsaysay Boulevard, Tacloban City	(053) 321-3121 / (053) 321-3363
9	Zamboanga City Medical Center	Dr. Evangelista St., Sta. Catalina, Zamboanga City	(062) 991-2934
10	Northern Mindanao Medical Center	Provincial Capitol Compound Cagayan de Oro City	(082) 856-4147
11	Southern Philippines Medical Center	J. P. Laurel St., Bajada, Davao City	(082) 227-2731 loc. 5140 (082) 321-7061
CAR	Baguio General Hospital and Medical Center	Gov. Pack Rd., Baguio City	(074) 442-4216 loc 381 09155816480
CARAGA	CARAGA Regional Hospital	Rizal St. National Road, Surigao City	(086) 826-0568 / 09173068186
CAITAGA	Butuan Medical Center	Km 5 Baan, Butuan City	09173208799
	San Lazaro Hospital	Quiricada St., Sta. Cruz, Manila	(02) 310-3128
	Philippine General Hospital	Taft Ave., Manila	(02) 554-8400 loc. 3249
NCR	Research Institute for Tropical Medicine	Filinvest Corporate City, Alabang, Muntinlupa City	(02) 807-2628 loc. 332
	The Medical City / I-REACT Clinic	Ortigas Ave., Pasig City	(02) 988-1000 loc. 6765
	Makati Medical Center	#2 Amorsolo St., Legaspi Village, Makati City	(02) 888-8999 loc. 2134 (CTTM) / 09178014314
NIR	Corazon Locsin Montelibano Memorial Regional Hospital	HACT office 2nd flr. OPD bldg. CLMMRH Cor. Burgos, Lacson St. Bacolod City	(034)707-2280





Satellite Treatment Hubs

Regions	Satellite Treatment Hubs	Address	Contact Information
2	Veterans Regional Hospital	Magsaysay, Bayombong, Nueva Vizcaya	(078) 805-3561 loc. 1225
	Ospital ng Lungsod ng San Jose del Monte	Sapang Palay, San Jose Del Monte, Bulacan	09324735561/ 09157260311
3	Angeles City HIV Satellite Treatment Hub ("Bale Angeleño") C. Surla St., Balibago, Angeles City		09152990647 (HACT Nurse)
4A	Dasmariñas City Health Office I (SHC)	Zone 2, Manggubat St., City Health Office I, Dasmariñas, Cavite	(046) 416-0279 / 09177902168
6	Dr. Rafael Tumbokon Memorial Hospital—Kalibo, Aklan	Mabini St, Kalibo, Aklan	(036) 268-6299
7	Cebu Social Hygiene Clinic	General Maxilom Ave., Ext., Carreta, Cebu City	(032) 233-0987 / 09255591663
12	General Santos Social Hygiene Clinic	City Health Office, Fernandez St., Lagao, General Santos City	(083) 302-8115
	Pasig Treatment Hub (PATH)	CHAMP Bldg, Caruncho Ave, Pasig City	(02) 798-2572
	Klinika Bemardo	Ermin Garcia St., Brgy. Pinagkaisahan, Quezon City	09324033412
NCR	Manila Social Hygiene Clinic	208 Quiricada St., Sta. Cruz, Manila	(02) 711-6942
	Marikina City Satellite Treatment Hub	Shoe Ave., Sto. Niño, Marikina City	(02) 948-8925 / 09175631722





Other Facilities

OTHER FACILITIES PROVIDING HIV CARE

Regions	Facility	Address	Contact Information
3	Tarlac Provincial Hospital	San Vicente, Tarlac City	(045) 982-1872
7.	Antipolo Social Hygiene Clinic	M. Santos St., Brgy. San Roque, Antipolo City	(02) 696-4097
4A	Bacoor Social Hygiene Clinic	Floraville Subdivision, Panapaan 1, Bacoor City	09086144183
	Bernardo Social Hygiene Clinic	Ermin Garcia St., Brgy. Pinagkaisahan, Quezon City	09193635919
	Klinika Project 7	39 Bansalangin St., Veterans Village, Project 7, Quezon City	09178561158
	Las Piñas Social Hygiene Clinic	Barrio Hall, Alabang-Zapote Road, Almansa, Las Piñas City	(02) 800-6406
	Mandaluyong Social Hygiene Clinic	20 M. Lerma St. cor. Vicencio St, Mandaluyong City	(02) 546-7799
NCR	Muntinlupa Social Hygiene Clinic	2nd Floor, Putatan Health Center, National Rd, Putatan, Muntinlupa City	(02) 834-5997
	Pasig Social Hygiene Clinic	Rm. 5, 5/F City Hall Bldg., Caruncho Ave., San Nicolas, Pasig City	(02) 643-1111 loc. 393
	RITM Satellite Clinic - Mandaluyong (Love Yourself Anglo)	715-A 3/F Anglo Bldg., Rm. 5, Shaw Blvd., Mandaluyong City	09153665683
	Taguig Social Hygiene Clinic	3/F Goldilocks Bidg., Gen. Luna St., Taguig City	(02) 642-1262 / 09267542917
	Valenzuela Social Hygiene Clinic	Valenzuela City Hall, Poblacion II, Malinta, Valenzuela City	(02) 352-6000
11	Davao Reproductive Health and Wellness Center	Jacinto St., Davao City	(082) 222-4187
12	South Cotabato Provincial Hospital	Aguinaldo St., Koronadal City, South Cotabato	(083) 228-4571







What's New

- Pilot study : 3 Public Schools (Culiat, Commonwealth, Batasan)
- HIV Education incorporated in the
- K12 Curriculum
- MAPEH: 1st quarter: Grade 8





Online Social networking

Online social networking contributes to the rise in HIV/AIDS cases

N: 180 MSM respondents

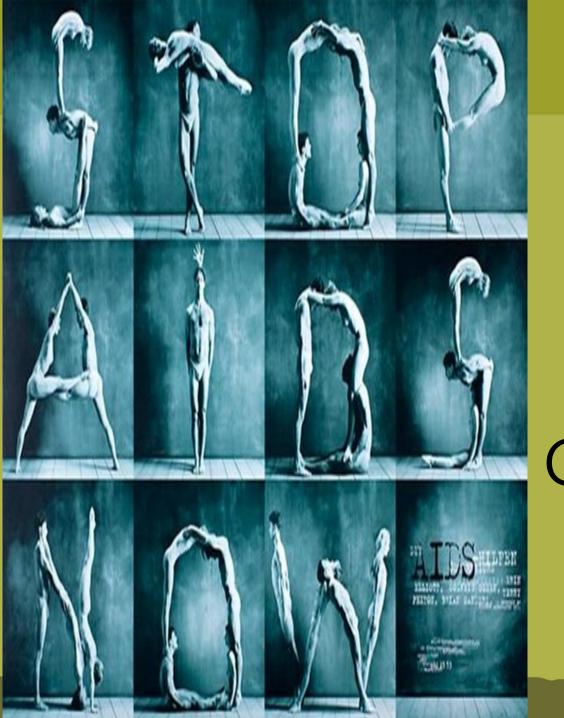
124 : use online network sites for dating and sex

133: had sex with people they contacted through o

nline network sites

Those who engaged in sex: 14-36 yrs old can meet without fear of negative social consequences Internet: increase rates of risky behavior (not using condoms, multiple sex partners, MSM, IDU)

DOH, Oct



Thank you and Good Day !!!

