Launching of Continuous Quality Improvement for HIV/AIDS Care in Cambodia-Japan Friendship Hospital, BMC Province

July 19, 2011

National Center for HIV/AIDS, Dermatology and STDs





CQI for CoC

What is CQI?

- C = Continuous
- Q= Quality
- I= Improvement

Continuous Quality Improvement

What is CoC?

- C = Continuum
- o= of
- **C= Care**

Continuum of Care

Background

- Before 2003; a few percentage of PLHA received ART mostly from NGOs, there was no National Guideline for ART yet;
- This becomes a concern. In 2003, MoH establish CoC to response to the need for care and treatment for people infected with HIV/AIDS;
- Five years later meaning in 2008; it is estimated that about 90% AIDS patients already received ART;
- What is the quality services provided to patients?
- HIV CQI would play important role in improving the quality services of HIV care

Background (cont.)

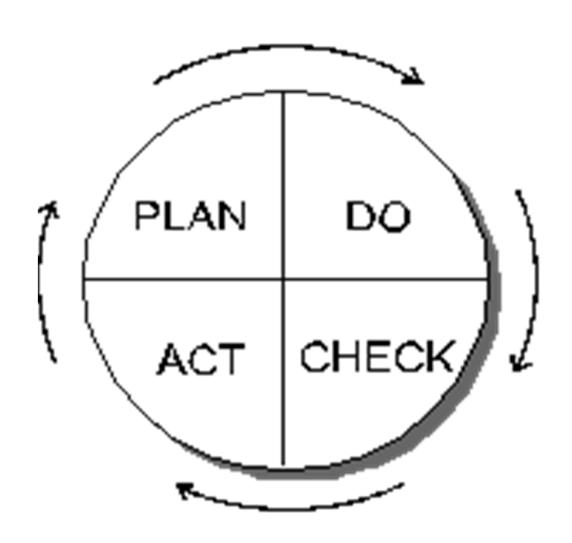
- This becomes another concern about the quality services provided to patients;
- In 2008, NCHADS in collaboration with UNAIDS, WHO, USCDC, and other concerned organizations to develop Standard Operation Procedure for CQI for Continuum of Care for HIV/AIDS in Cambodia in the hope that CQI would play important role in improving the quality services of HIV/AIDS care

Concept of CQI

Deming and his colleague, Shewhart,
 promoted the PDCA cycle – mean that

Plan, Do, Check and Act.

The PDCA Cycle



Overall objective

 To improve the quality of care and treatment services provided to PLHA in Cambodia

Specific objectives

- To create a culture of continuous quality improvement among CoC team
- To improve communication between health care providers, data management team, community support teams and other related organizations in the CoC
- Capacity building for CoC team to manage CQI

Indicators of CQI for CoC

Mortality indicators: consists of 3 key indicators;

 Quality of service indicators: consists of 5 key indicators;

 Case-finding and prevention indicators: consists of 4 indicators

Mortality indicators

Percentage of patients under ART who died;

 Percentage of patients under ART who were lost to follow-up;

 Percentage of patients under OI who died or were lost to follow-up

Quality of service indicators

- Percentage of patients on ART who kept all appointments in the last quarter (post-ART);
- Percentage of patients with CD4<350 (CD4<250 before April 2010) or WHO stage4 who start ART within 60 days (pre-ART);
- Percentage of patients with CD4 counts less than 200 and 100 receiving prophylaxis with CXT and fluconazole respectively

Quality of service indicators (cont.)

 TB screening: Percentage of patients newly registered at the OI/ART site who were screened for TB (pre-ART);

 Percentage of patients on ART who are still on first line regimens after 12 or 24 months (post-ART)

Case-finding and prevention indicators

 Percentage of new OI patients with an initial CD4 count of >350 (CD4<250 before April 2010);

 Percentage of new TB patients who receive HIV testing and counseling (TB)

Case-finding and prevention indicators (cont.)

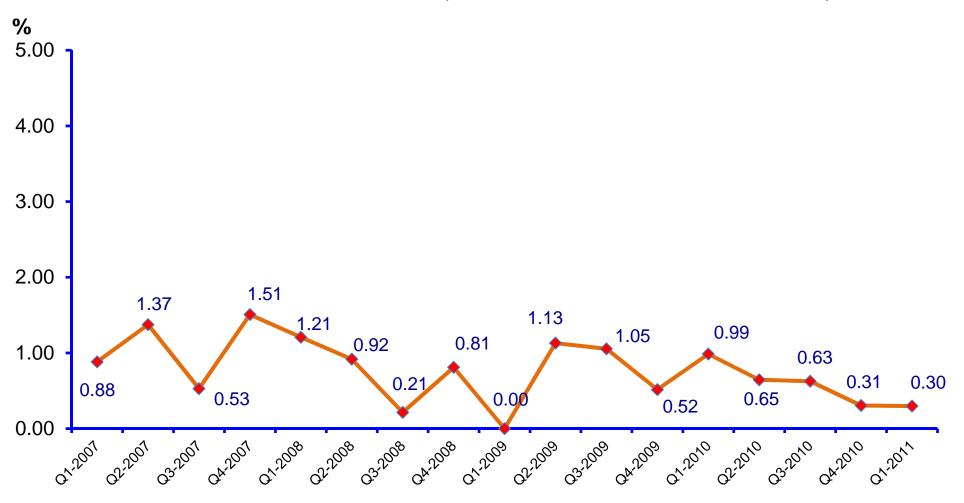
 Percentage of ANC1 patients who received HIV testing and counseling;

 Percentage of known HIV+ pregnant women who received prophylaxis (PMTCT).

FINDINGS

Percentage of adult patients under ART who died by quarter in CJF-RH

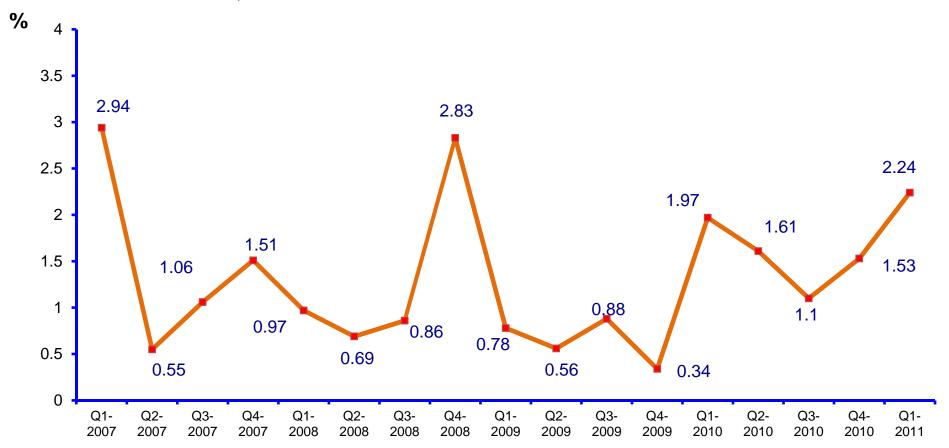
<u>Numerator</u>: Total number of patients known to have died during the quarter <u>Denominator</u>: Total number of active ART patients + total number of ART dead in the quarter



Percentage of adult patients under ART who were lost to follow-up by quarter in CJF-RH, BMC

<u>Numerator</u>: Total number of patients who were lost to follow up during the quarter. "Lost to follow up" is defined in the National ART Guidelines as lost for at least 3 months and not classified as dead, transferred out, or stopped ART.

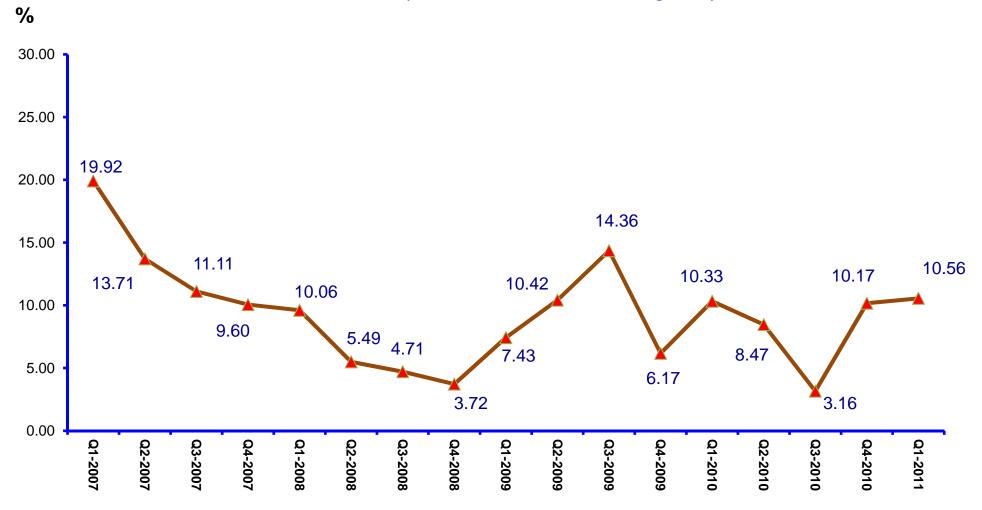
<u>Denominator</u>: Total number of active patients on ART at the end of the quarter + total number of patients who lost to follow up



Percentage of adult patients under OI who were lost to follow-up by quarter in CJF-RH, BMC

<u>Numerator</u>: Total number of OI patients who were lost (whether or not they are known to have died) during the quarter.

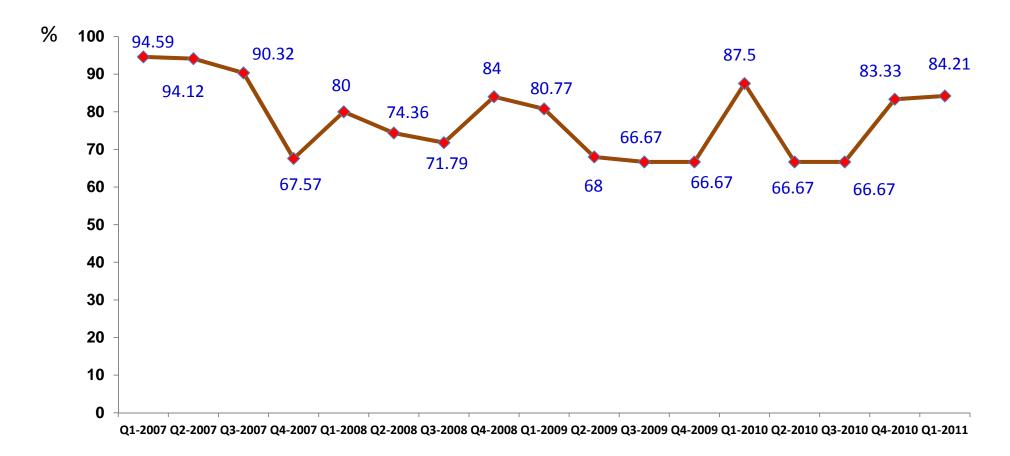
<u>Denominator</u>: Total number of active patients on OI at the end of the selected quarter + total number of OI patients who were lost during the quarter



Percentage of patients whose CD4<350 (CD4<250 before April 2010) or WHO stage 4 who start ART within 60 days after eligible in CJF-RH, BMC

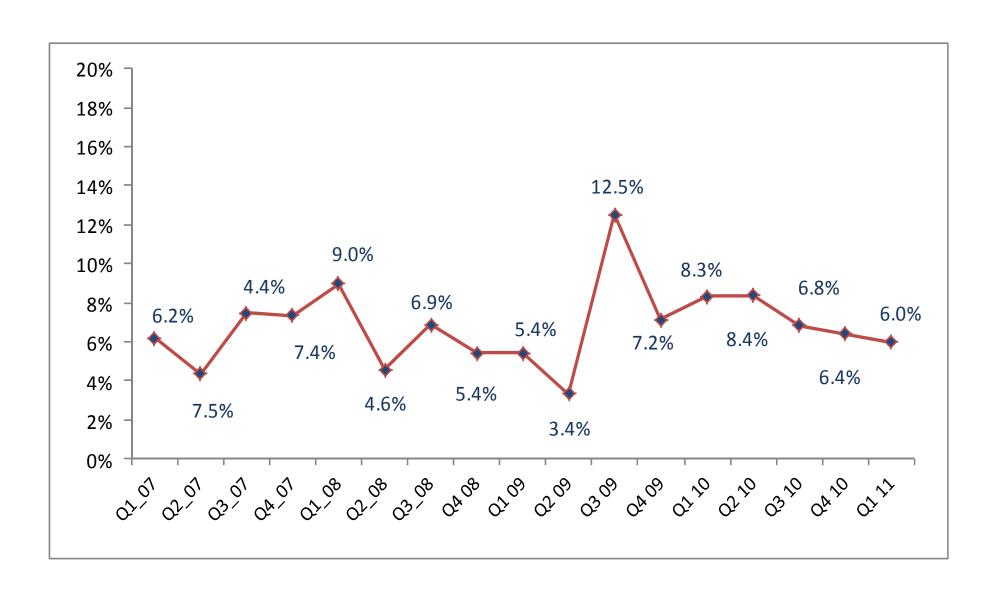
<u>Numerator:</u> Number OI patients with a CD4 count of <250(350) or WHO stage 4 within the first month of the reporting quarter or the two months previous who start ART by 60 days <u>Denominator:</u> Total number of OI patients with a CD4 count of <250(350) or WHO stage 4 within

the first month of the reporting quarter or the two months previous.



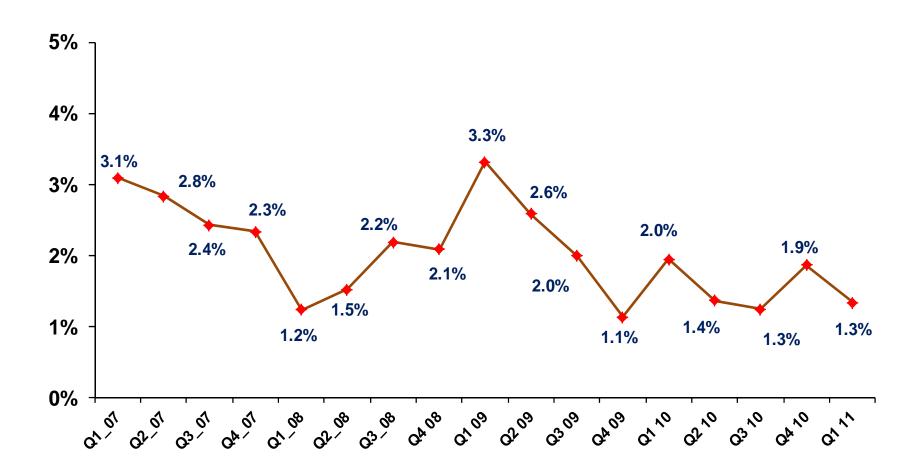
Percentage of late visit beyond buffer by quarter in CJF-RH, BMC

<u>Numerato</u>r = Number of Late Visits Beyond Buffer in the Quarter <u>Denominator</u> = Number of Total Visits in the Quarter



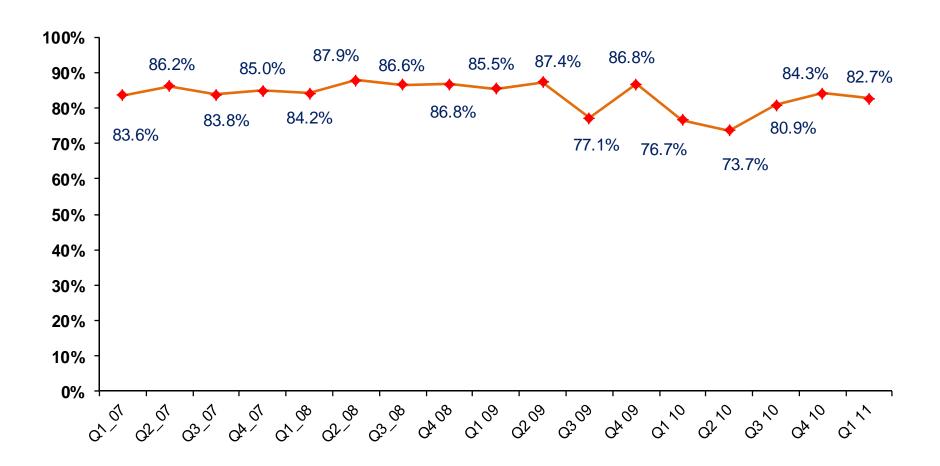
Percentage of late visit within buffer by quarter in CJF-RH, BMC

<u>Numerator</u> = Number of Late Visits in Buffer in the Quarter <u>Denominator</u> = Number of Total Visits in the Quarter



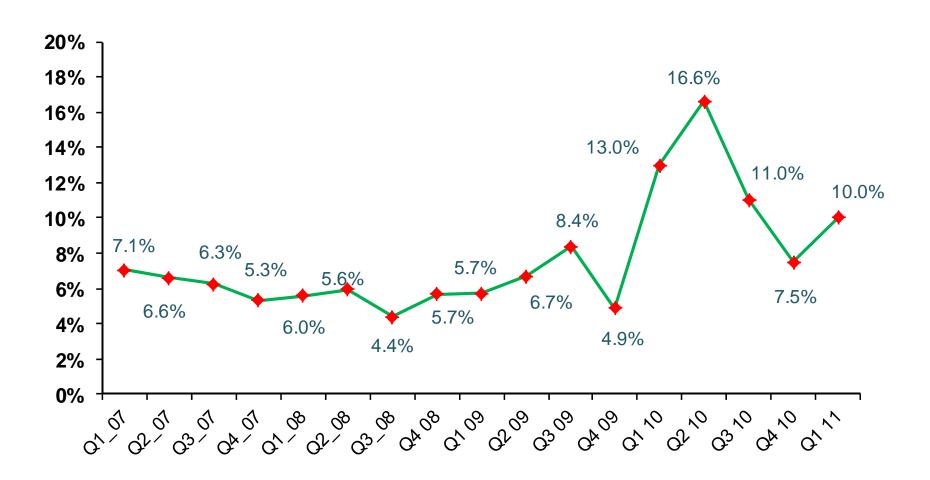
Percentage of visit exactly on schedule by quarter in CJF-RH,BMC

<u>Numerator</u> = Number of Visits Exactly in the Quarter <u>Denominator</u> = Number of Total Visits in the Quarter

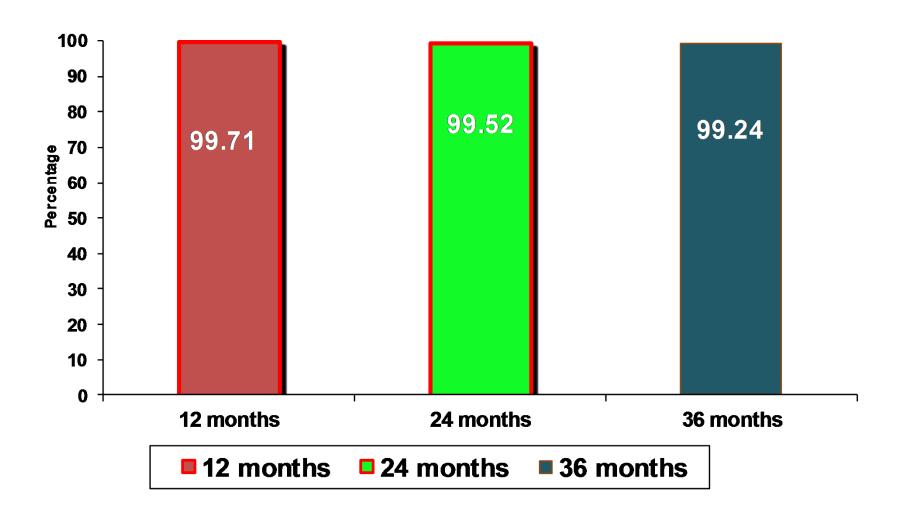


Percentage of early visit by quarter in CJF-RH, BMC

<u>Numerator</u> = Number of Early Visits in the Quarter <u>Denominator</u> = Number of Total Visits in the Quarter



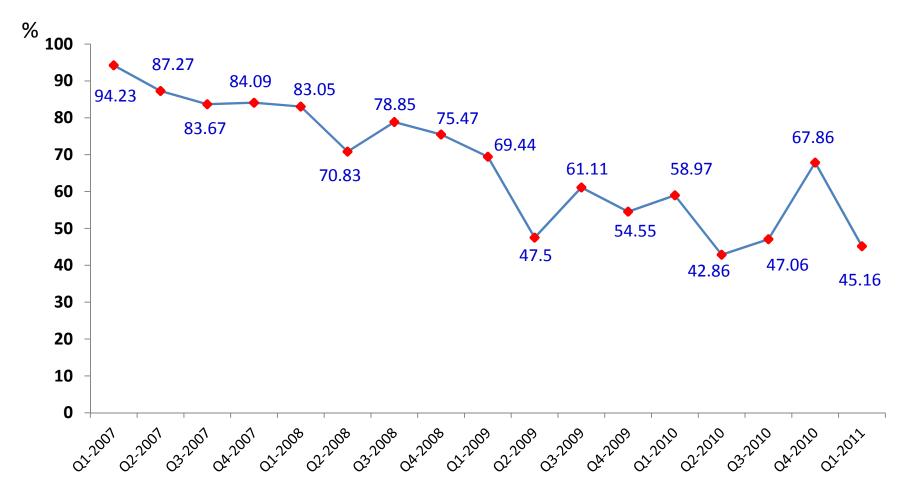
Percentage of patients on ART who are still on first line regimens after 12 months or 24 months or 36 months in CJF-RH, BMC



Percentage of Patients whose CD4<200 and received Cotrimoxazole by quarter in CJF-RH, BMC

<u>Numerator:</u> Number of OI/ART patients with most recent CD4 <200 and who receive a new or ongoing prescription for cotrimoxazole at the appointment following the date of the CD4 test (within the quarter)

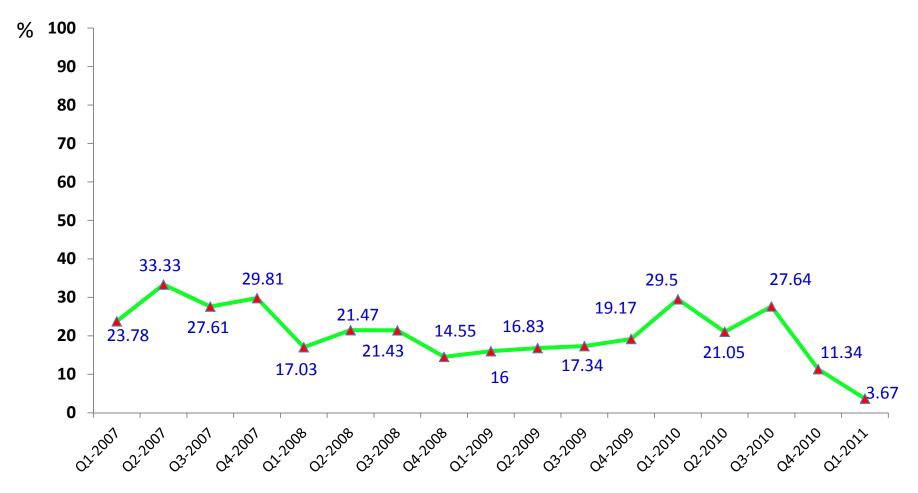
Denominator: All OI/ART patients with CD4 cell counts < 200 (within quarter)



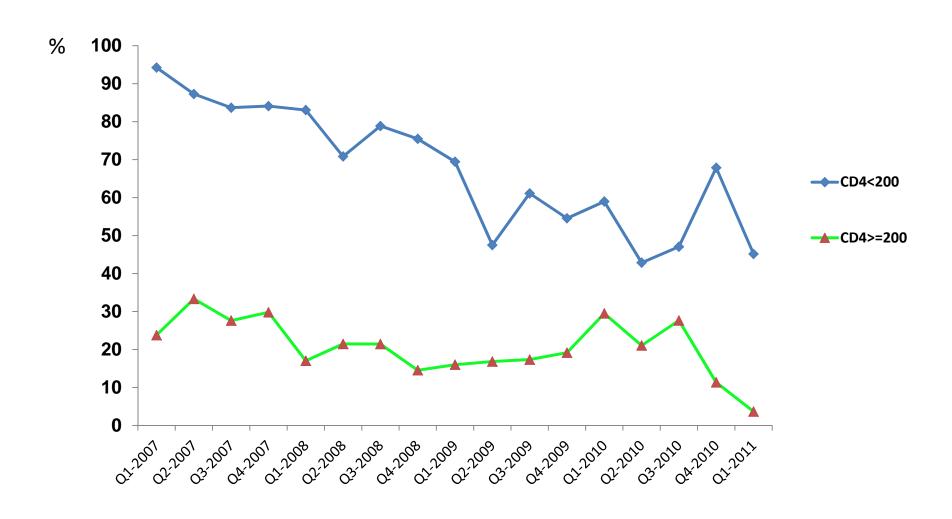
Percentage of Patients whose CD4>=200 and received Cotrimoxazole by quarter in CJF-RH, BMC

<u>Numerator:</u> Number of OI/ART patients with most recent CD4 >=200 and who receive a new or ongoing prescription for cotrimoxazole at the appointment following the date of the CD4 test (within the quarter)

Denominator: All OI/ART patients with CD4 >= 200 (within quarter)



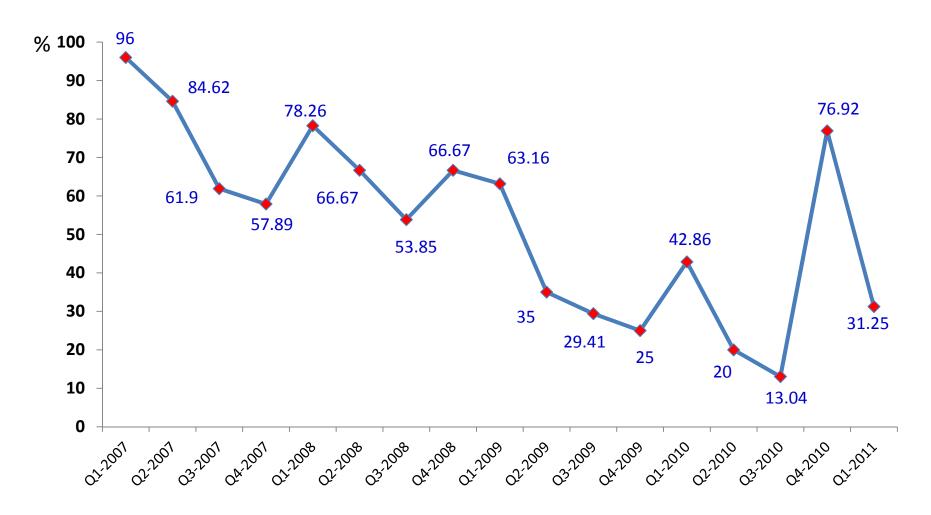
Percentage of Patients whose CD4<200 and CD4>=200 received Cotrimoxazole by quarter in CJF-RH, BMC



Percentage of Patients whose CD4<100 and received Fluconazole by quarter in CJF-RH, BMC

<u>Numerator:</u> Number of OI/ART patients with most recent CD4 <100 and who receive a new or ongoing prescription for Fluconazole at the appointment following the date of the CD4 test (within the quarter)

Denominator: All OI/ART patients with CD4 < 100 (within quarter)



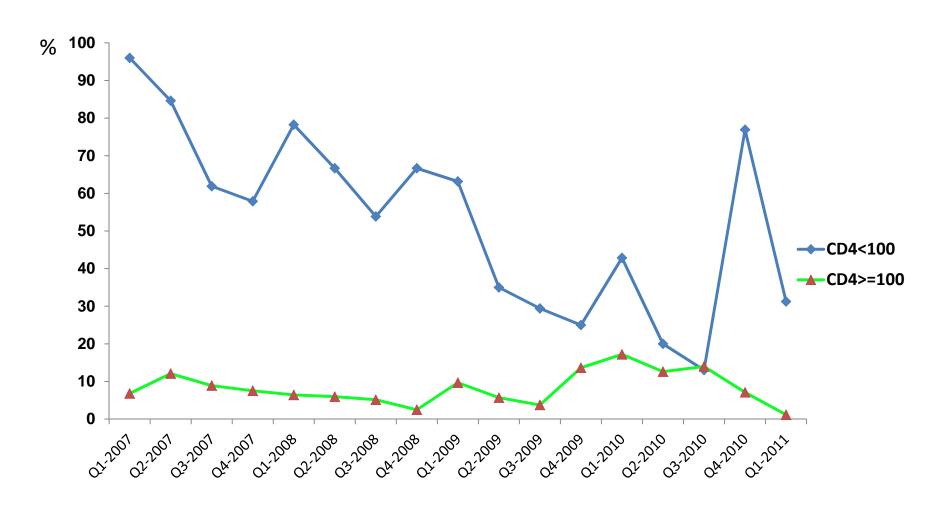
Percentage of Patients whose CD4>=100 and received Fluconazole by quarter in CJF-RH, BMC

<u>Numerator:</u> Number of OI/ART patients with most recent CD4 levels of >=100 and who receive a new or ongoing prescription for Fluconazole at the appointment following the date of the CD4 test (within the quarter)

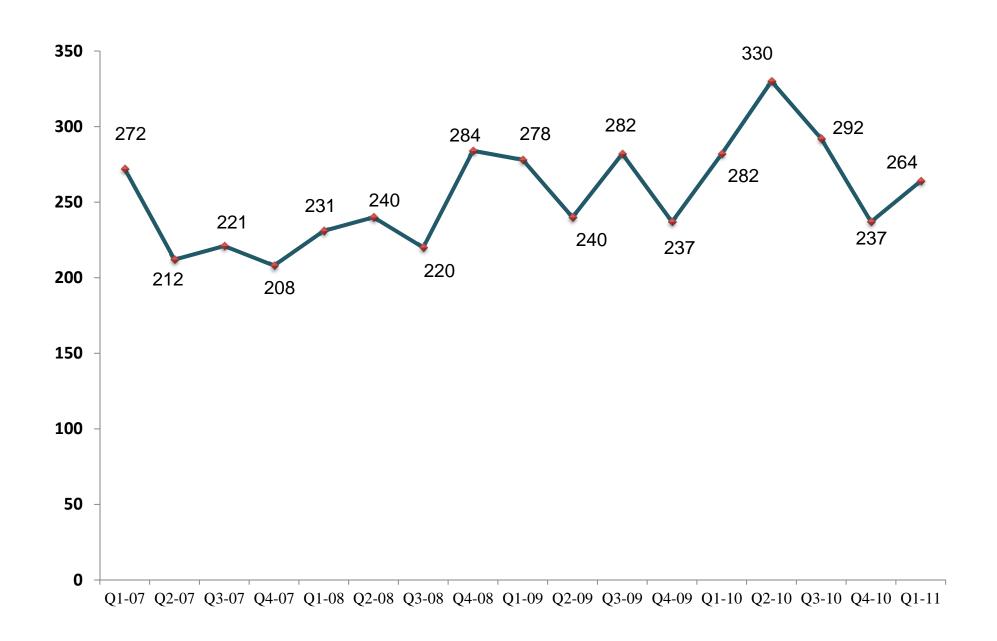
<u>Denominator:</u> All OI/ART patients with CD4 cell counts >= 100 (within quarter)



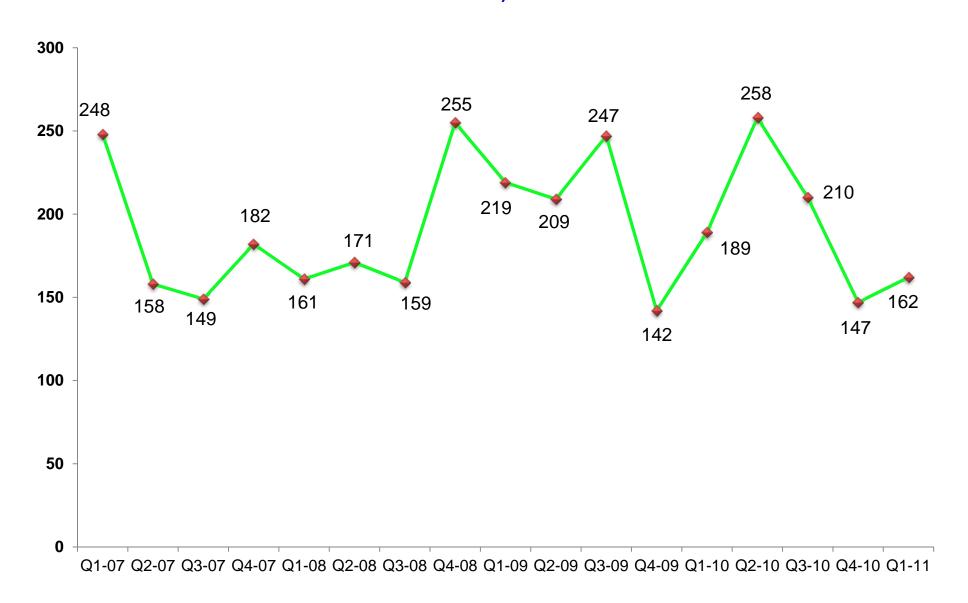
Percentage of Patients whose CD4<100 and CD4>=100 received Fluconazole by quarter in CJF-RH, BMC



Mean of CD4 at initial visit by quarter, in CJF-RH, BMC



Median of CD4 at initial visit by quarter, in CJF-RH, BMC



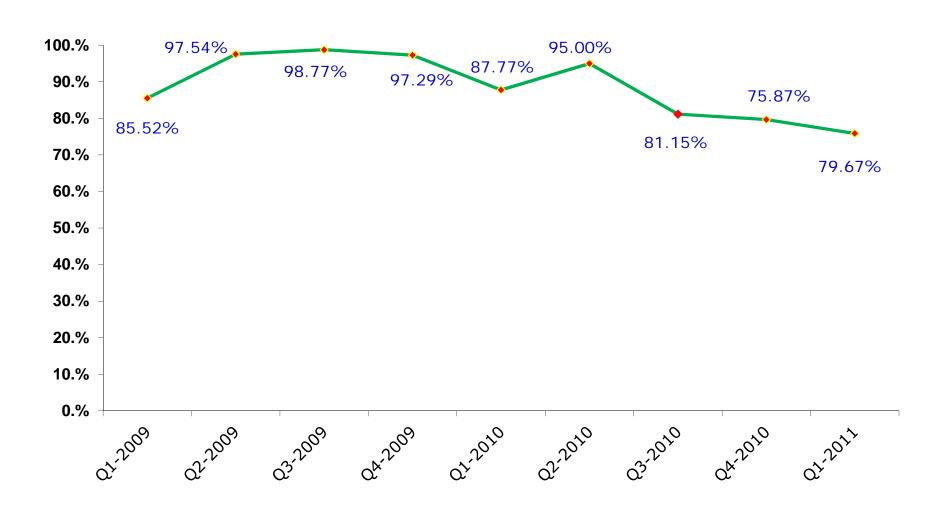
Percentage of patients who has CD4>350 (CD4>250 before April 2010) at initial visit by quarter in CJF-RH,MBC

<u>Numerator:</u> Total number of initial visit patients with CD4> 250 (350) by quarter <u>Denominator:</u> Total number of initial visit patients by quarter



Percentage of HIV Testing among ANC 1 by Quarter in OD Mongkul Borey, BMC

<u>Numerator</u> = number of ANC1 post tested counseled <u>Denominator</u> = total number of ANC first visit



Percentage of delivered women with known HIV status at by Quarter in CJF-RH, BMC

<u>Numerator</u> = Total Number of delivered Women with known HIV status

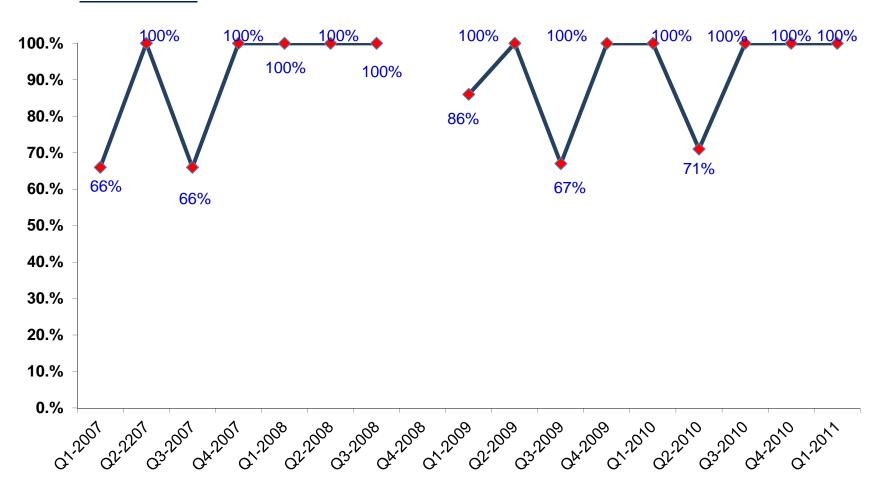
<u>Denominator</u> = Total Number of delivered Women



Percentage of HIV + Women who received any prophylaxis or HAART during Labor by Quarter in CJF-RH, BMC

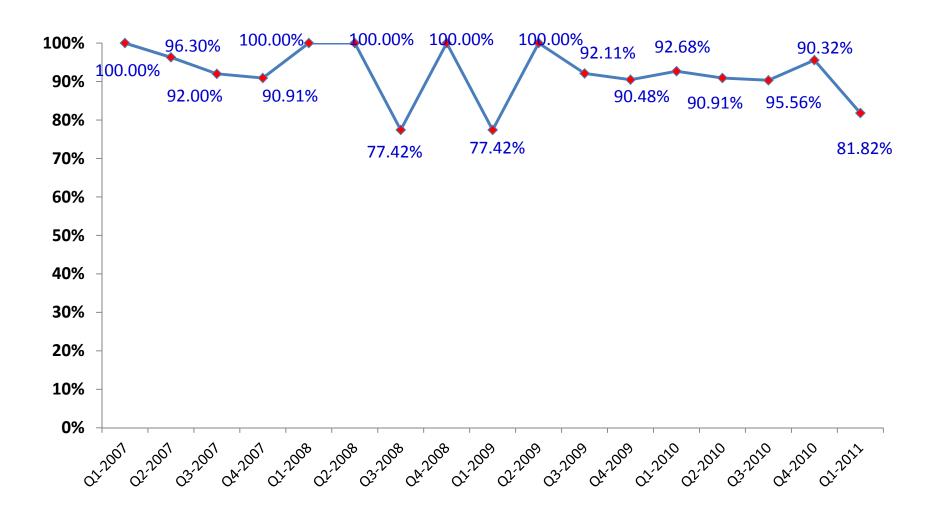
<u>Numerator</u> = Total Number of delivered women who received any prophylaxis or HAART during Labor;

Denominator = Total Number of Women who Delivered with known HIV status +



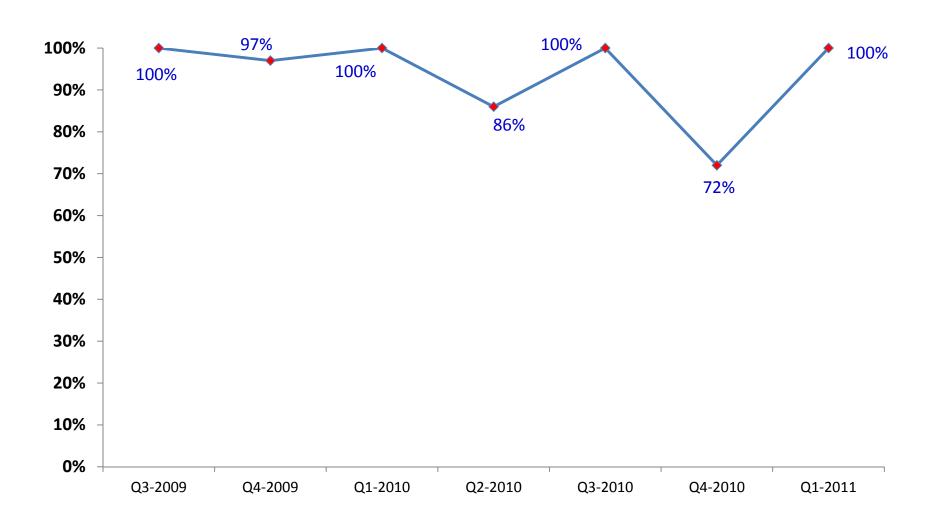
Percentage of new TB Patients who were screened for HIV by quarter in CJF-RH, BMC

<u>Numerator:</u> Total number of new TB patient screened for HIV status at VCCT by quarter <u>Denominator:</u> Total number of new TB patient registered at TB ward by quarter



Percentage of patients newly registered at OI/ART who were screened for TB by quarter in CJF-RH, BMC

<u>Numerator:</u> Total number of new OI patient screened for TB status by quarter <u>Denominator:</u> Total number of new patient registered at OI/ART site by quarter



ទីនាគមញ្ជា ចំណាត់ថ្នាក់មញ្ជា ជំណោះស្រាយ

តិខ តែតំរុទដែនការសភម្មភាព

កម្មវិធីពង្រឹងគុណភាពបត្ត លើសេវាថែទាំបត្ត មន្ទីរពេទ្យបង្អែក ចិត្តភាពកម្ពុជា-ជប៉ុត មង្គលប៉ុរី ខេត្តបត្ថាយមាតជ័យ

១៩ កក្កដា ឆ្នាំ ២០១១

បង្ហាញដោយ លោកវេជ្ជ. តី តាតត្

អតុប្រធាតថ្នៃក OI/ART តិងជាប្រធាតថ្នៃកជំងឺទូទៅ តែមន្ទីរពេទ្យបង្អែកចិត្តភាព កច្ចុជា -ជប៉ុត មង្គលបុរី ខេត្តបត្ថាយចាតជ័យ

ខាត់កា

- កំណត់បញ្ហាជាអាទិភាព
- វិភាគបញ្ហា
- ដោះស្រាយបញ្ហា
- កែតំរូវផែនការសកម្មភាព

តំណត់មញ្ជាបារមានិតាព

- សំខាន់
- បន្ទាន់
- អាចធ្វើទៅបាន

Score and Rank

No.	Indicators	Important	urgent	Feasibility	Total Score	Rank
1	ART die	13	0	0	13	8
2	ART Lost	14	10	14	38	5
3	OI Lost	4	2	1	7	11
4	Eligible CD4<350 or WHO stage 4 (60days)	14	14	15	43	1
5	CD4<200 Cotrim or CD4<100, Fluco	14	13	13	40	3
6	Initial visit with CD4>250 or CD4>350	11	0	0	11	9
7	ANC1, HIV testing	13	13	12	38	5
8	Delivery know HIV	1	1	0	2	12
9	HIV + get prophylaxis	8	1	1	10	10
10	Late beyond buffer (3day)	14	14	15	43	1
11	Keep first line	0	0	0	0	13
12	TB New Screen HIV	14	12	13	39	4
13	OI New screen TB	14	13	11	38	5

គារបន្តីសើស indicators (3/13)

- ភាគរយនៃអ្នកនៃអ្នកជំងឺដែលមាន CD4 តូចជាង២៥០/៣៥០ ឬ WHO stage 4 ដែលបានផ្តល់ថ្នាំ ប្រឆាំងមេរោគអេដស៍ (ក្នុងរយៈពេល ៦០ថ្ងៃ)

 - បន្ទាន់: ១៤/១៦ និង អាចធ្វើបាន: ១៥/១៦
- ភាគរយនៃអ្នកជំងឺមកពិនិត្យយឺត ហើយអស់ថ្នាំបំរុង (លើស ៣ថ្ងៃ)
 - សំខាន់: ๑៤/๑៦
 - បន្ទាន់: ១៤/១៦ និង អាចធ្វើបាន: ១៥/១៦
- ភាគរយនៃអ្នកជំងឺដែលមាន CD4 តូចជាង ២០០/១០០ ទទួលការព្យាបាលដោយឱ្យសថ Cotrimoxazole/Fluconazole
 - សំខាន់: ១៣/១៦
 - បន្ទាន់: ១៣/១៦ និង អាចធ្វើបាន: ១៣/១៦

-មិនសូវមានកាយល់ដឹងពីថ្នាំពន្យា អត់ចេះអក្សរ ក្រីក្ររ អ្នកជំងឺមានអាស្រ័យដ្ឋានមិនច្បាស់លាស់ -ខ្វះមធ្យោបាយធ្វើដំណើរ (គ្រៅអង្គការធមយាត្រា)/ធ្វើដំណើរ /ផ្ទះឆ្ងាយ ផ្លាស់ប្តូរទីលំនៅ ចំណាកស្រុក អ្នកជំងឺ -អ្នកជំងឺមានមិនសុខភាពលួមិនអាចធ្វើដំណើរបាន អ្នកជំងឺមានសុខភាពលួមិនយកថ្នាំ ភាគរយនៃអ្នកជំងឺ -អ្នកជំងឺស្លាប់មុនពេលទទួលថ្នាំ អ្នកជំងឺខ្លះពេលពិនិត្យហើយឈប់មកវិញ ដែលសមស្របនឹងទទួល -មានការភ្លេចការណាត់របស់គ្រូពេទ្យ អ្នកជំងឺមិនចូលក្រុម HBC ក្នុងរយ:ពេល ១០ថ្ងៃ - ខ្វះប្រព័ន្ធសំរាប់ទំនាក់ទំនងជាមួយនឹងអ្នកជំងឺ មានការដាក់ពិន្ទអ្នកជំងឺ - HBC មិនអាចគ្រប់គ្រងបានអស់ដោយសារអ្នកជំងឺនៅក្រៅដំបន់គ្របដណ្តប់ ប្រព័ន្ធ -មិនមានប្រព័ន្ធបញ្ជូនពតិ៍មានជាមួយ HBC, MMM, Data, Counselor Doctor, Lab,... -HBC ថវិកាសំរាប់បញ្ជូនជំងឺនៅមានក៏រិត (ដោយសាអ្នកជំងឺមាន ការកើនឡើងជារ្យេងរាល់ឆ្នាំ ហើយផ្តល់ជូនដែលក្រីក្រតែប៉ុណ្ណេះ) -ការផ្តល់សេវាមានតែពេលល្ងាច -គ្រូពេទ្យ និង nurse មានបន្ទុកច្រើនផ្នែក -ខ្វះប្រាក់លើកទឹកចិត្ត -គ្រូពេទ្យណាត់យូរពេក -ខ្វះគ្រូពេទ្យ ខ្វះ nurse

អ្នកជំងឺ

ភាគរយនៃអ្នកជំងឺមក

ទទួលថ្នាំយឺតដោយ

ហួសថ្នាំបំរុងចំនួន៣ថ្ងៃ

- ចំណាកស្រុក (ទៅរកស៊ីនៅថៃ មកពីស្រុកផ្សេង) ផ្លូវពិបាក ផ្ទះនៅឆ្ងាយ មានជីវភាពក្រីក្រខ្លាំង

-អ្នកជំងឺមើលច្រលំថ្ងៃណាត់ដោយសាមិនចេះអក្សរ អ្នកជំងឺខ្លីថ្នាំគា្នប្រើ អ្នកជំងឺមានជំងឺធន់ពេក

- -ខ្វះថវិកាធ្វើដំណើរ វិមធ្យោបាយធ្វើដំណើរ អ្នកជំងឺជាប់រវល់ផ្ទាល់ខ្លួន មានបញ្ហាផ្លូវចិត្ត
- -អ្នកជំងឺមិនចូលក្រុម HBC អ្នកជំងឺមិនយល់ច្បាស់ពីការប្រើប្រាស់ថ្នាំពន្យា
- អ្នកជំងឺមានទំលាប់មកយីត អោយគេបើកថ្នាំជំនួស អ្នកជំងឺប្តូរលេខទូរស័ព្ទ

ប្រព័ន្ធ

- ខ្វះមធ្យោបាយសំរាប់ទំនាក់ទំនងជាមួយនឹងអ្នកជំងឺ

អ្នកផ្ដល់សេវា

- -គ្រូពេទ្យណាត់ថ្ងៃច្រលំ
- -ការណាត់អ្នកជំងឺមានការខុសគ្នារវាង ស្យេវភៅអ្នកជំងឺ និង ប្រព័ន្ធទិន្នន័យ
- -អ្នកផ្តល់ប្រឹក្សាពន្យល់អ្នកជំងឺនៅមានក៏រិត

អ្នកជំងឺ

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ភាគរយនៃអ្នកជំងឺពេញវ័យ ដែលមាន CD4<200/100 ទទួល ការព្យាបាលដោយ Cotrim/Fluco



- -មិនមានប្រព័ន្ធបញ្ជូនពតិ៍មានជាមួយ HBC, MMM, Data, Counselor Doctor, Lab,...
- -មានការខ្វះខាតសំភារៈការិយាល័យ

អ្នកផ្ដល់សេវា

- -គ្រូពេទ្យតិចការងារច្រើន
- -អ្នកជំងឺបញ្ចូនដេកពេទ្យមិនចាំបាច់សរសេរថ្នាំ
- -គ្រូពេទ្យភ្លេចបំពេញឯកសារ គ្រូពេទ្យសរសេរអក្សរកាត់
- -អ្នកបញ្ចូលទិន្នន័យខ្វះកាទំនាក់ទំនាក់ទំនងជាមួយត្រូពេទ្យ

527:557:55

អ្នកជំងឺ

- អ្នកផ្តល់ប្រឹក្សា MMM, HBC ព្យាយាមផ្តល់ប្រឹក្សាដល់អ្នកជំងឺបន្ថែម
- -ទាក់ទងអាស័យដានអ្នកជំងឺបន្ថែមទៀត តាមរយៈបងប្អូន មិត្តភក្ត័
- -អោយមានអង្គការដៃគូរផ្សេងទៀត
- បង្កើនការផ្តល់ប្រឹក្សាដល់អ្នកជំងឺ

បង្កើនភាគរយនៃអ្នកជំងឺដែលសមស្រប នឹងទទួលARVក្នុងរយៈពេល ៦០ថ្ងៃ ពី ៨៤.២% ទៅ ៩៥% (ក្នុងរយៈ ពេល ១២ខែ)

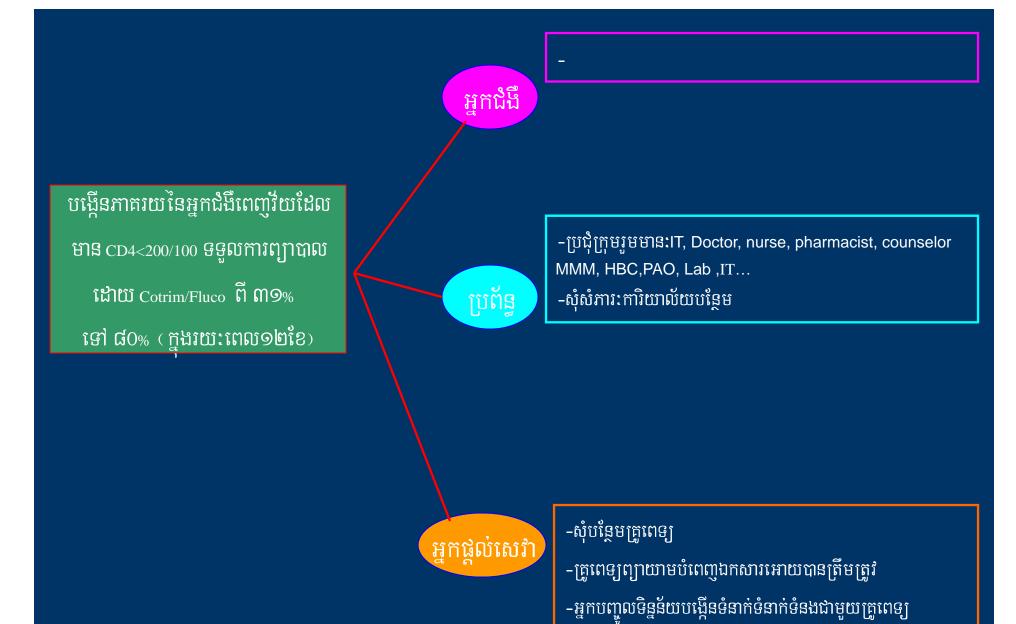
ប្រព័ន្ធ

- -ប្រជុំក្រុមរួមមាន: IT, Doctor, nurse, pharmacist, counselors, MMM, HBC,PAO, Lab ... (2 times per month)
- -ផ្តល់ប្រាក់សំរាប់ភ្ជាប់ទូរស័ព្ទថ្មី និងសេវាប្រចាំខែ
- -រង់ចាំលិខិតណែនាំរបស់មជ្ឈមណ្ឌលពីការដាក់ពិន្ទុ
- -បង្កើនការគ្រប់ដណ្តប់(អង្គការផ្សេងក្រៅពីអង្គការធម៌យាត្រា)

អ្នកផ្ដល់សេវា

- -សុំបន្ថែមអ្នកឱសថចំនួន១រូប
- -សុំបន្ថែមគ្រូពេទ្យចំនួន២រូប
- សុំបន្ថែមអ្នកផ្តល់ប្រឹក្សា/nurse ចំនួន២រូប

- អោយមានអង្គការដៃគូរផ្សេងទៀត អ្នកជំងឺ -បង្កើនការអប់រំដល់អ្នកជំងឺតាមរយៈ អ្នកផ្ដល់ប្រឹក្សា MMM, HBC កាត់បន្ថយអត្រានៃអ្នកជំងឺមកទទូលថ្នាំយឹត ដោយអស់ថ្នាំបំរុងចំនួន ៣ថ្ងៃ -ផ្តល់ប្រាក់សំរាប់ភ្ជាប់ទូរស័ព្ទថ្មី និងសេវាប្រចាំខែ ប្រព័ន្ធ ពី៦.0% មក ៤.0% (ក្នុងរយ:ពេល១២ខែ) -សុំមធ្យោបាយធ្វើដំណើរសំរាប់ទំនាក់ទំនងជាមួយអ្នកជំងឺ (ម៉ូតូ២គ្រឿង) -អ្នកបញ្ចូលទិន្នពង្រឹងបន្ថែម -ស្យេវភៅទិវានុលេខ អ្នកផ្ដល់សេវា -សុំផ្តល់វគ្គបំប៉នមន្ថែមដល់អ្នកផ្តល់ប្រឹក្សា និង គ្រូពេទ្យ



क्रिल्ड क्रिक्ट क्रिक क्रिक्ट क्रिक क्रिक क्रिक्ट क्रिक क्र क्रिक क्रिक क्र क्रिक क्रिक क्र क्रिक क्रिक क्र क्र क्र क्र क्

Action Plan for CQI for CJF-RH, BMC 2011-2012

	Main																
Objective	activities	Detail activities					Pro	oject	Мо	nth							
			1	2	3	4	5	6	7	8	9	10	11	12	Expected/input	Budget	Source
1. Increa	se the perc	entage of patient with CD4 less that	an 3	50 d	or W	/HC	sta	age	4 w	ho s	star	t AF	RT v	vithi	n 60 days betwe	en 84.2%	
and 95%	at the end	of July 2012															
	1. Patient ed	ucation and support															
		Counselors, MMM, HBC team explain the															
		importance of appointment's adherence															
		to the patient	х	Х	Х	Х	Х	Х	Х	Х	х	Х	х	х			
	2. Improve st	affing condition															
		Meeting IT, Doctor, nurse, pharmacist,															
		counselors, MMM, HBC,PAO, Lab,	х	Х	Х	Х	Х	Х	Х	х	х	Х	х	х	25p*5\$*2t*12m	\$3,000.00	
		More incentive 2 nurses	х	х	х	х	х	х	х	х	х	х	х	х	2p*70\$*12m	\$1,680.00	
															_р	+ - /	
		More incentive 2 physicians	х	х	х	х	х	х	V	x	V	V	х	х	2p*100\$*12m	\$2,400.00	
		intore incentive 2 physicians	^	^	^	^	^	^	Х	^	Х	Х	^	^	2p 1003 12iii	32,400.00	
																4	
		More incentive 1 pharmacist	Х	Х	Х	Х	Х	Х	Х	Х	х	Х	Х	Х	1p*100\$*12m	\$1,200.00	
	2 Deguest fo	l r more equipment/materials															
		Phone card	х	Х	х	х	Х	Х	х	х	х	х	х	х	20\$*12m	\$240.00	
		New phone connection fee	X	^	^	^	^	^	^	^		^	^	^	1 set	\$30.00	
		Inew priorie connection ree	Х												1 261	35U.UU	
															Cub Total	Ć0 550 00	

Sub Total

\$8,550.00

11 12 f July 20	Expected/input	Budget	Source
	011		
x x			<u> </u>
x x			
x x			
		\$3,000.00	
++			+
хх			
	2moto*1200\$	\$2,400.00	
	10b*5\$	\$50.00	NCHADS
	Sub- total	\$5,450.00	
	from 3	10b*5\$ Sub- total	10b*5\$ \$50.00

Meeting IT, Doctor, nurse, pharmacist, counselors, MMM, HBC,PAO, Lab	x	X	X	х	х	x	x	x	x	x	х	x			
Salary for 2 contracted clinicians	х	Х	Х	х	х	х	Х	х	Х	Х	х	Х			
2. Request for more equipment/materials															
Office supply	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	50\$*12m	\$600.00	

Sub total \$600.00

Grand Total \$14,600.00