# Extending Prescribing Beyond Doctors in Uganda Opportunities and Challenges

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### **Anatomy of the Talk**

### Challenges:

- Huge Demand for HIV care and Treatment
- Training Demands Generated by changing guidelines/practices
- Lack of Supportive Policies

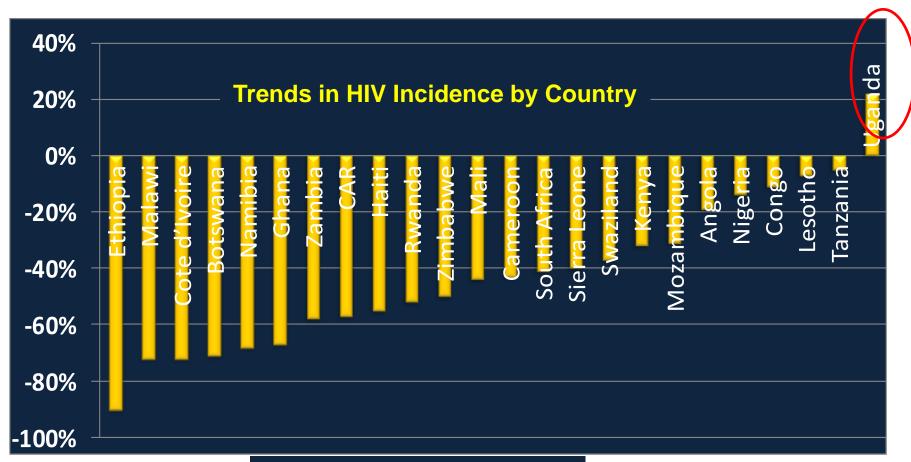
#### Opportunities:

- Limited Doctors Numbers
- Change in ART Treatment guidelines for Earlier Initiation
- Increase in higher level training for nurses and allied health care worker

#### Current Efforts:

- Generating evidence: The SHARE Project
- IT Tools to Support prescribing: The ICEA Experience at IDI

### The HIV/AIDS Epidemic In Uganda Requires a More Vigorous Response



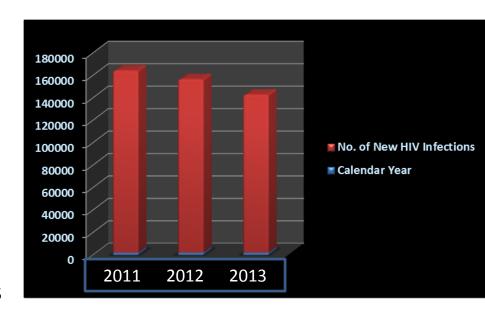
Data source: UNAIDS Global Report 2012

### **New Infections Still High**

Over 130K new infections in 2013

#### **Drivers Include:**

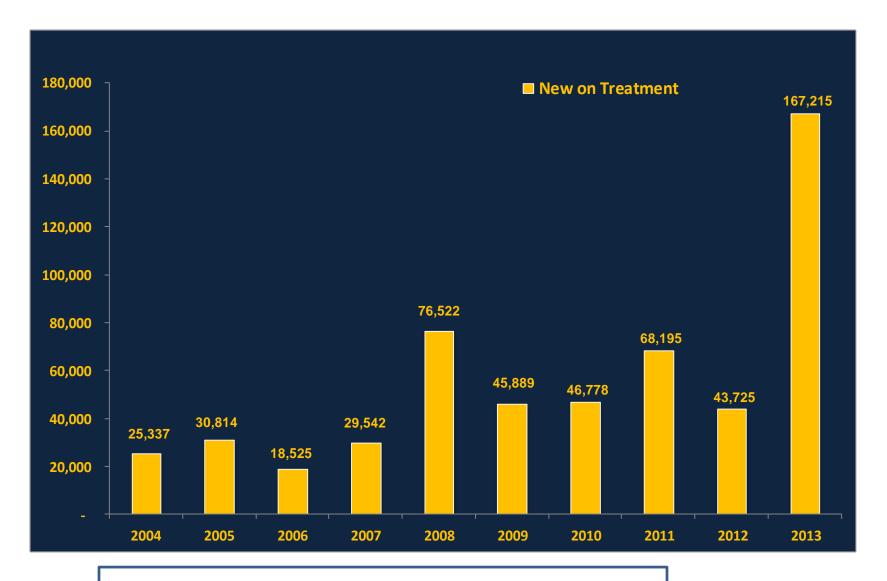
- High-risk Groups
  - Fisher Folks (>40% prevalence)
  - CSWs and partners
  - MSM (13% prevalence)
  - \* 35% of new infections in selfreported monogamous relationships



- Low ART Coverage (41%)
  - Adolescents
  - PMCTC (Option B+)

SOURCE: Mid-Term Review of 2011/12-2014/2015 Uganda NSP Draft Report 2014

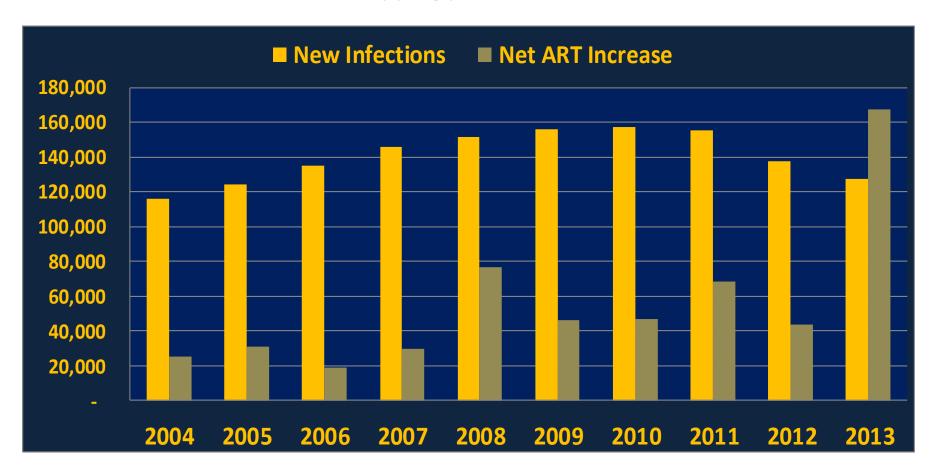
### Uganda New PLWHA on ART, 2003 - 2013



SOURCE: Uganda National AIDS Control Program Report 2013

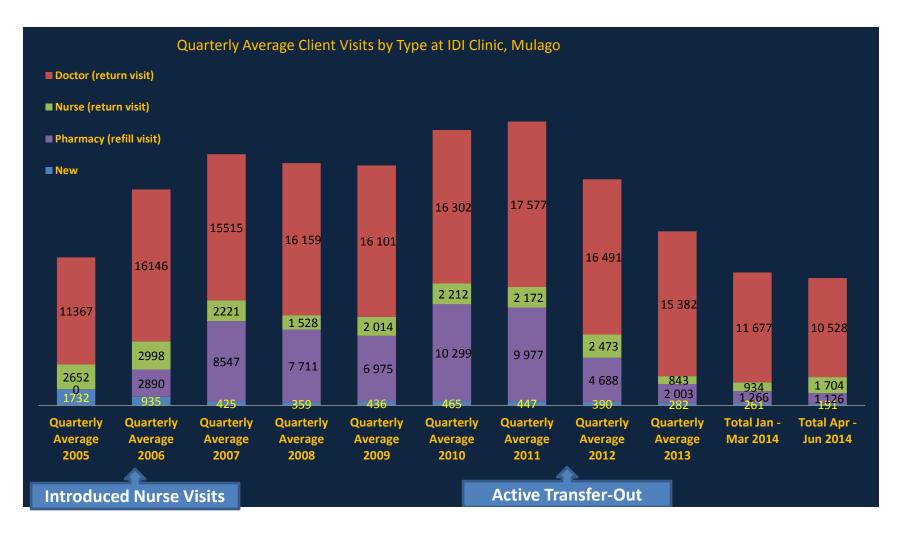
### **Programmatic Tipping Point**

Ratio of new infections / net increase in ART Tipping point: ≤1.0



SOURCE: Uganda National AIDS Control Program Report 2013

### Nurse Contribution to Demand Management at IDI



### Only Half of the Health Care Worker Positions are Filled!

Baine and Kasangaki *BMC Health Services Research* 2014, **14**:184 http://www.biomedcentral.com/1472-6963/14/184

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Table 1 Approved and filled positions by trained personnel in the public health sector, October 2010

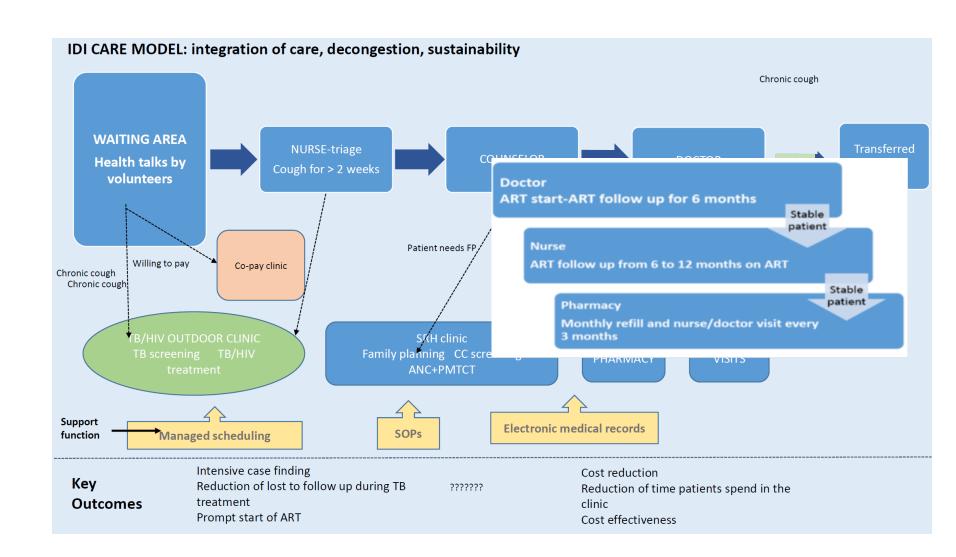
Cadre of staff	Mulago Hospital		Butabika Hospital		Regional Referral Hospitals		District Health Offices		District		Total	Total	%
									Health Units		Norms	filled	filled
	Norms	Filled	Norms	Filled	Norms	Filled	Norms	Filled	Norms	Filled			
Doctors	241	203	26	15	520	204	80	63	824	306	1,691	791	52%
Clinical officers	45	56	12	14	395	261	0	5	2,598	1,678	3,050	2,014	66%
Nurses	940	846	154	127	1,371	1,102	80	10	9,098	4,721	11643	6,806	58%
Midwives	121	95	0	0	701	477	0	0	4,536	3,002	5,358	3,574	67%
Pharmacists	8	4	2	2	36	13	0	2	40	3	86	24	28%
Dispensers	34	26	5	5	80	36	0	0	244	78	363	145	40%
Lab. scientists	63	55	6	6	180	108	0	1	2,236	958	2,485	1,128	45%
Radiographers	33	28	2	3	53	35	0	0	80	22	168	88	52%
Health assistants	0	0	0	0	0	0	0	0	2,573	1,570	2,573	1,570	61%
Other health related staff	252	168	87	92	356	173	320	210	4,951	1,816	5,966	2,459	41%
Grand total	1,737	1,481	294	264	3,692	2,409	480	291	27,180	14,154	33,383	18,599	56%

Source: Ministry of Health (March, 2011).

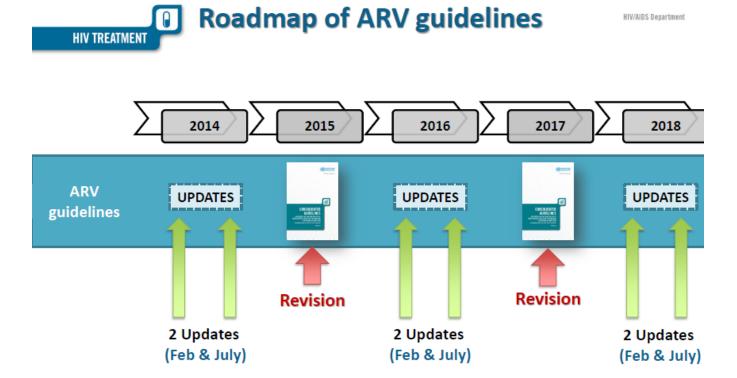


### The Expanded Role out would not have been possibly without Task-Shifting/Sharing





### HIV Medicine is a Rapidly Changing Field with Regular Revision and Updating of Guidelines: One Consequence is the Training Needs

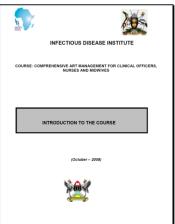


SOURCE: Doherty M et al, WHO 2014



### Regular Refresher Training is the Reality





### Population: Doctor Ratio: Global Picture

#### NUMBER OF INHABITANTS PER DOCTOR 2301 2301 2301 2301 2301 2301 2301 230-1 230-1 230-1 230-1 230-1 230-1 230-1 230-1 230-1 230-1 230-1 230-1 230-1 230-1 230-1 230-1 3901 3901 4701 4701 4701 4701 4701 4701 470.1 470.1 470.1 470.1 4701 4701 4703 4703 4703 4703 4703 3901 3901 3901 3901 4701 4701 3901 3901 3901 3901 3901 3901 3901 2801 2801 2801 9501 9501 9501 3801 3801 9501 2301 3901 3901 3901 3901 3901 3901 3901 3901 3901 3901 3901 3901 390.1 390.1 390.1 390.1 390.1 390.1 2.200:1 5.300:1 950:1 950:1 950:1 950:1 950:1 3901 3901 3901 3901 3901 500.1 500.1 390.1 390.1 390.1 2.000:1 900:1 750:1 1.900:1 490:1 2.200:1 1.400:1 5001 5001 3901 750:1 900:1 1.400:1 1.700:1 20.000:1 950:1 950:1 950:1 500-1 500-1 1,700:1 3,800:1 950:1 950:1 1,700:1 1,700:1 2,800:1 1,900:1 1.200:1 4.000:1 2,700:1 1.700:1 1.800:1 7501 5001 750:1 2.200:1 1.400:1 650:1 900:1 900:1 900:1 7.700:1 7.700:1 900:1 900:1 900:1 900:1 900:1 900:1 900:1 900:1 20.000:1 9001 9001 9001 9001 8001 9001 9001 9001 850.1 800.1 900.1 900.1 900.1 850:1 800:1 800:1 900:1 900:1 4001 4001 4001 4001 900:1 900:1 900:1 900:1 900:1 900:1 900:1 4007 4001 4001 4001 4001 4001 4001 4001 4001 4001 3301 3301 9001 4001 4001 4001 4001 4001 330/1 330/1 900/1 900:1 3301 270:1 4001 4001 4001 4001 4001 3301 2701 4001 4001-3301 300.1









## "Impact of task Shifting Type II for ART Delivery on Patient and Process Outcomes in Uganda" SHARE PHE: Overview and Update

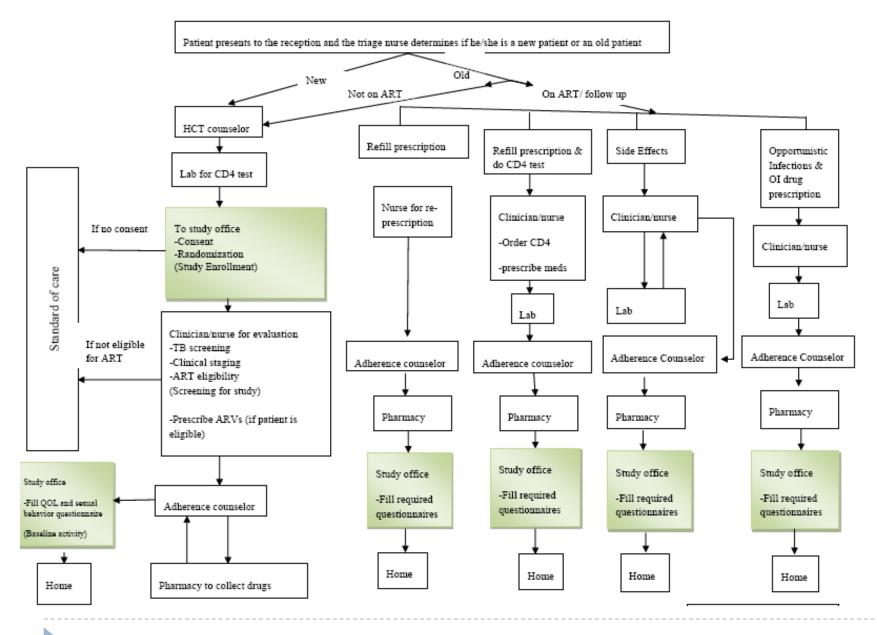
Damazo T. Kadengye, PhD (PI, CDC) Andrew Kambugu, M.MED, FRCP (PI, IDI)

August 11, 2014





### **SHARE Study: Screening/Enrolment/Follow-up**

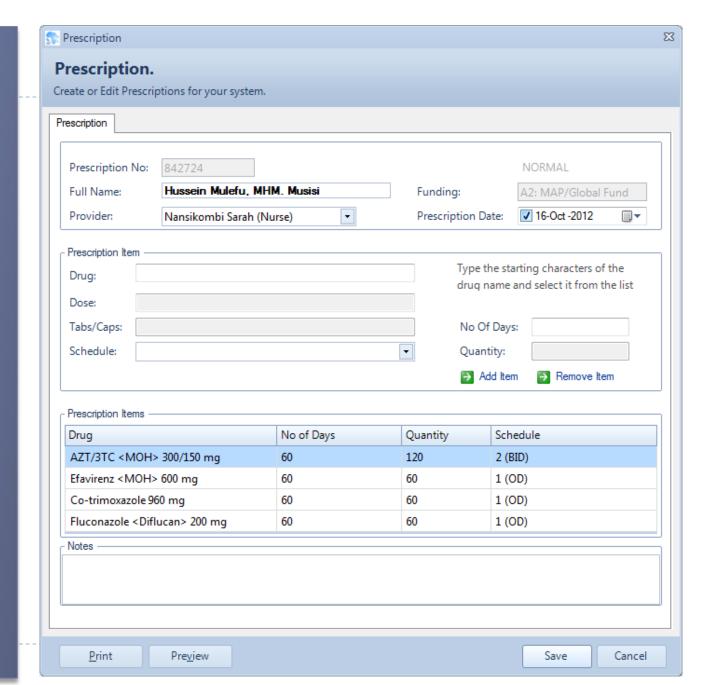


### **Summary of Study Design**

- A randomized field intervention PHE at 8 Regional Referral Hosp.
- 2 study Arms: A clinican Arm (Doctor or clinical Officer) and Nurse Arm
- The task-shifting model will include nurse initiation
- Primary end point is VL suppression and Immunological response

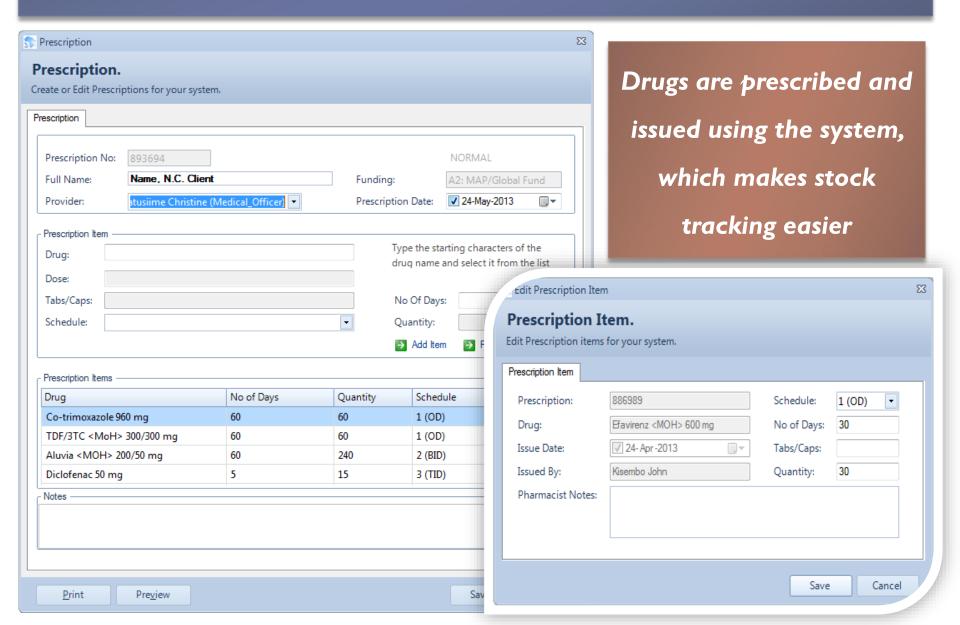




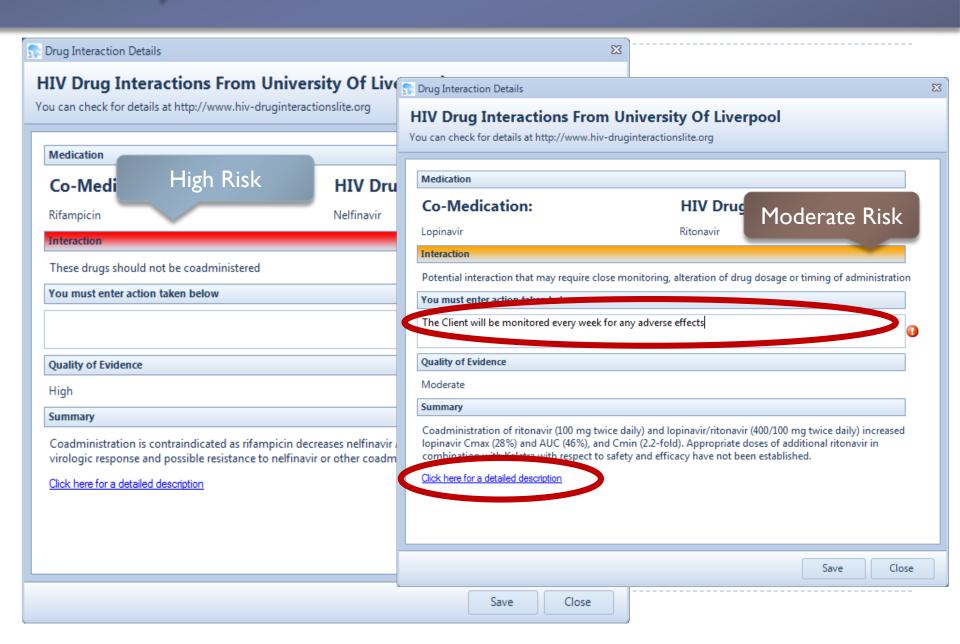


Prescription

### In-built Drug Prescriptions



### Severity of Interaction color coded



### Acknowledgements

The IDC Management and Staff at IDI

The SHARE Project Team