

## **Faculty/Presenter Disclosure**

- Faculty: Melanie Murray
- Relationships with commercial interests:
  - Grants/Research Support:

Bristol-Meyers-Squibb, Gilead Sciences

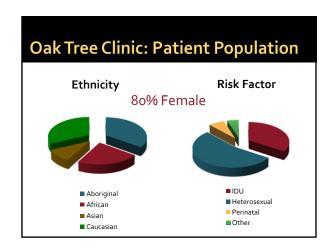
Speakers Bureau/Honoraria:

Bristol-Meyers-Squibb, Gilead Sciences, Merck

- Consulting Fees: N/A
- Other

Telus (Has provided in-kind phone support)









# **Pilot Study**

#### 6 months, 25 participants

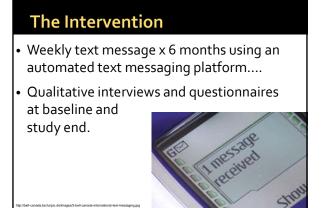
#### 5 X 5 Groups:

- Youth' 5 participants aged 14-24 years of age.

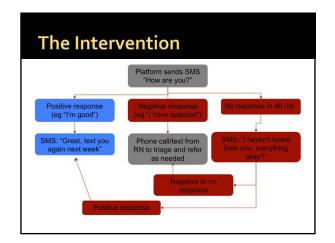
  'Mature' 5 participants 50 years of age and older.

  'ESL' 5 participants who are immigrants to Canada, defined as having been born outside of Canada, with English as a second language (ESL).

  'Remote' 5 participants identified as having
- 'Remote' 5 participants identified as having remote residence defined as requiring more than 3 hours travel time to reach clinic.
- 'Non-suppressed' 5 participants whose HIV therapy is failing defined as CD4 count less than 200 and viral load >250 on two consecutive occasions.







# Participant Identified BENEFITS

- Improved psycho-social health
- Improved adherence
- Perceived improvement in general health
- Better engagement in care
- Perceived improved in quality of care
- Learning / improved ability to text

## **Improved Adherence**

"I've learned to take my meds every day in the last six months...! wasn't taking them daily, or I wasn't actually taking them at all...And it's a lot to do with being able to talk about it, through the texting...they let me know that it would be you know, the symptoms would go away, or they, just to hang in there and, keep on trying, and take them so that, you know, there's just somebody else there for me... In writing that you see it, and, and it feels a hell of a lot better to know that."

— Participant #15, Low CD4

## **Engagement in care**

"Having this text stuff with my doctor was great...If I hadn't had it, I probably wouldn't have went in the hospital. I knew I was getting sick when I couldn't even drink water and that day I was just like wondering, 'what am I gonna do, what am I gonna do?' and then my phone beeped and low and behold, it was the hospital. 'Hey, how are you?' Like, 'uh, not great...' So when I said 'not good,' they immediately contacted [name]...By the time I got over there, it was all set up for me...I didn't have nothing to worry about. "— Participant #27, Distance

#### **Improved Care of Self**

Interviewer: "What would you say are the greatest benefits that you received from being able to send and receive text messages with your healthcare provider?" Participant: "The greatest thing I got out of that was really learning how to love myself and take care of myself, and value and appreciate myself and my life."

Interviewer: "And that was through the texting?"
Participant: "Yes it was. It was a very valuable
experience for me."

#### **Study Identified CHALLENGES**

- · Participants' learning how to text
- Assistance required to text
- Language related for ESL group
- Participants' changing phone numbers
- · No or limited mobile phone reception
- Lost phones
- Technical glitches with platform
- Service provider issues

#### WelTel OAKTREE: Repeated Measures study of efficacy

- 85 highly vulnerable patients, uncontrolled HIV
  1 year of intervention
  Primary Endpoint:
- - Change in Viral load
  - Number undetectable VL's at end study
- Secondary Endpoints:
  - Adherence to medications
  - Attendance at appointments
  - CD<sub>4</sub> counts
- Quality of LifeCost effectiveness analysis

#### How the Program has been Adopted and Adapted....

- · Participants text with problems of all kinds...
  - When ill
  - Requests for appointment times or changes
  - Med refills & dealing with side effects
  - Morale support/counseling
  - To share that they are doing well....

#### The Intervention

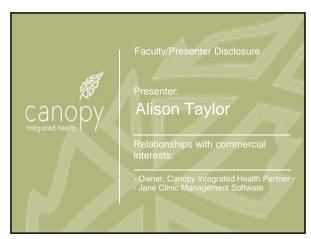
- Weekly text message x 12 months using our automated text messaging platform....
- If no cell phone one is provided



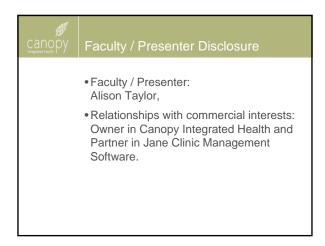
## How the Program has been Adopted and Adapted....

- · Doctors and nurses use the system to...
  - Reach out to participants otherwise hard to reach for check ins
  - Convey concerns re: test results
  - Arrange meetings / test
- The system has become an integral part of the clinic....it is a methodical, consistent service which acts to organize outreach efforts....and may improve outcomes while saving time.





Alison Taylor Canopy Integrated Health





#### Overview

- Opened an Integrated Health Clinic in January of 2011
- Commissioned Online Booking/EMR software from Thought Shop
- Needed to work with a variety of disciplines and be patient friendly



# canopy

#### Overview

- Used privately for a year
- Partnered with Thought Shop to expand the software into a full Clinic Management System

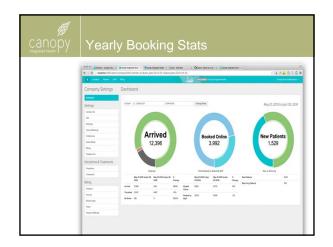






























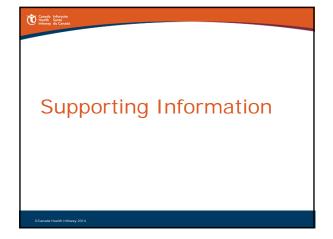






# The Pilot Study

- Study design:
- Prospective pilot study involving two phases to be conducted over a period of 6 months.
- No control arm.
- Enrolled participants: study intervention + standard of care at Oak Tree.
- Timeline:
- January-December 2012



## **Inclusion Criteria**

- Sample Size: We enrolled 25 patients and 5 health care providers.
- **Patient Inclusion Criteria:**
- ≥14 years.HIV+.

- Qualify to be selected for one of the 5 X 5 groups. Currently on antiretroviral therapy, or initiating therapy on day of enrollment.

  Able to communicate (read and speak) in English or has and anticipates continued availability of an interpreter for the duration of the study.

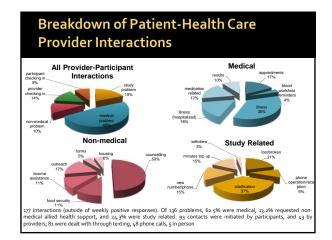
#### The Intervention

- If patients have no cell phone....
  - They are provided with a basic phone and unlimited texting for the duration of the study.
  - They are taught to use the phone/text as required.
- If patients have a cell phone with limited texting...
- Their plan is upgraded to include unlimited texting.
- They are taught to use the phone/text as required.
- If patients have a cell phone with unlimited texting....
- They are taught to use the phone/text as required.

#### **Inclusion Criteria**

- Attended Oak Tree Clinic for ≥ 1 year prior to study entry to permit historical comparison analysis.
- 1) Age ≥14 years.
- 2) CD4 count ≤500 cells/mm3 or previous prescription for antiretroviral therapy (other than for pregnancy) prior to the control year, (indicating clinical indication for HIV therapy).
- 3) Any detectable viral load (≥200 copies/mL) in the control year.

AND....



# **Inclusion Criteria**

consensus by the clinical team that patient is high risk (i.e. poor engagement in care, difficult to contact, poor or non-adherence to ARV therapy, advanced HIV infection/AIDS, unstable housing situation, recent/active problem substance use, intimate partner violence, mental health factors).

OR

5) Release from a correctional facility.

