

# Using Patient Tablets to Support a Data-Driven, Sustainable Shared Care Group Approach to Mental Health

Presented by:

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**Hamilton FHT**

# Presenter Disclosure



- **Presenters:**
  - Jesse Lamothe
  - Brad Laforme
  
- **Relationships with commercial interests:**
  - **none**

# Disclosure of Commercial Support



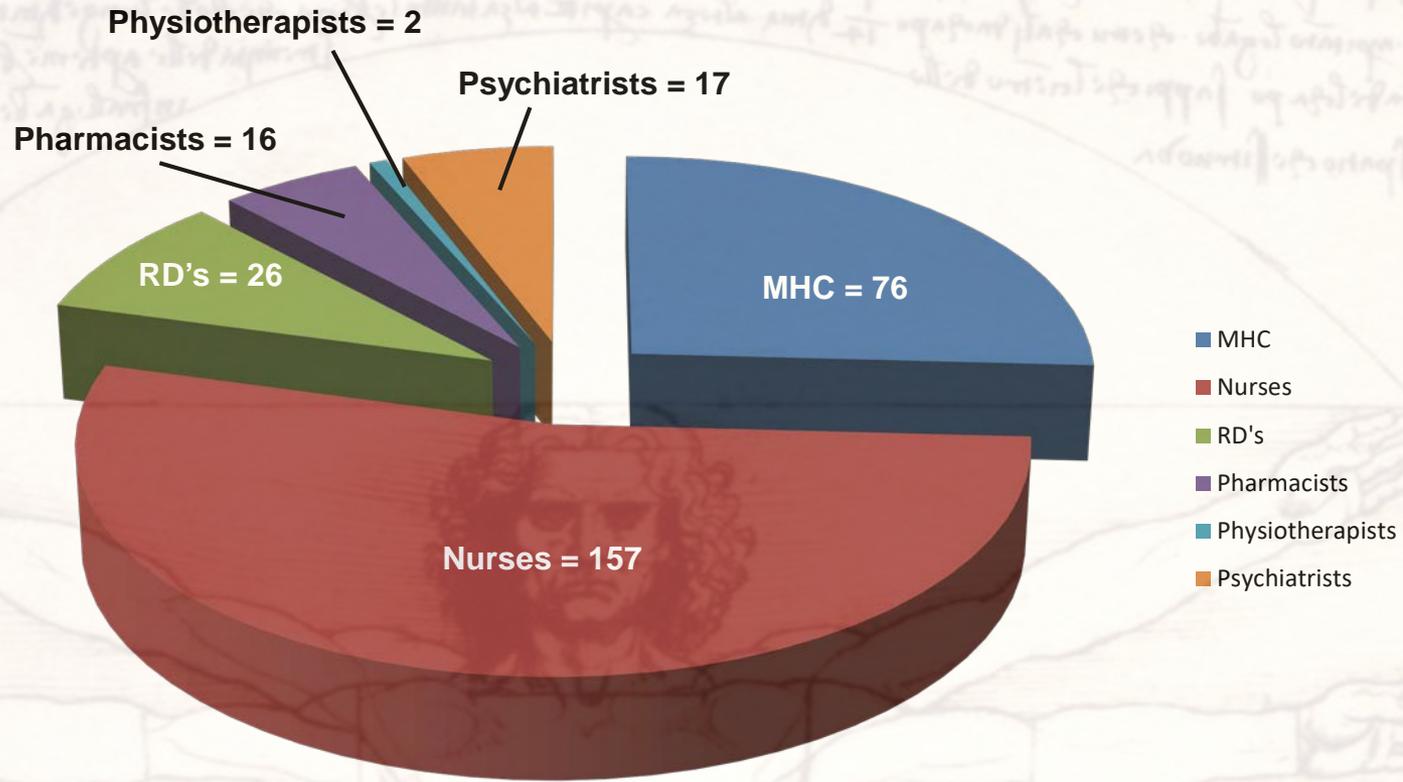
- The program itself and the development of the pathway through CAMH was partially funded through ARTIC, but not directly funding our program or our presentation.
- **Potential for conflict(s) of interest:**
  - CognisantMD is the developer of the Ocean tablet platform, a product that will be discussed in this program.

# Mitigating Potential Bias



- CognisantMD and their product, Ocean, will be outlined in a technical overview slide, “tablet platform” will be used to refer to the product afterwards

## Hamilton Family Health Team at a Glance



166 Family Doctors serving approx. 300,000 patients

# ARTIC Opportunity

## Adopting Research To Improve Care

Joint funding program of HQO (Health Quality Ontario) and CAHO  
(Council of Academic Hospitals of Ontario)

### What is an INTEGRATED CARE PATHWAY (ICP)

“A Clinical Pathway is a multidisciplinary outline of anticipated care, placed in an appropriate timeframe, to help a patient with a specific condition or set of symptoms move progressively through a clinical experience to positive outcomes”.

Middleton S Barnett J & Reeves D (2001)

# DA VINCI Project Overview

- GOAL
  - The DA VINCI Project is to support and accelerate the implementation of the Integrated Care Pathway for Major Depressive Disorder and Alcohol Dependence (ICP)
  - Provide increased access to treatment for concurrent disorder, improve integration of care and to ensure high quality patient-centered care.

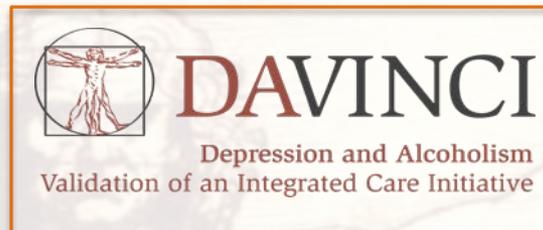


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# The Program

“We took a 16 session out-patient hospital based program and transformed it into a 17 week primary care psychotherapy group.”



The core elements of the pathway include: measurement-based care, pharmacological and psychotherapeutic interventions, and a clinical workflow that incorporates an inter-professional team.

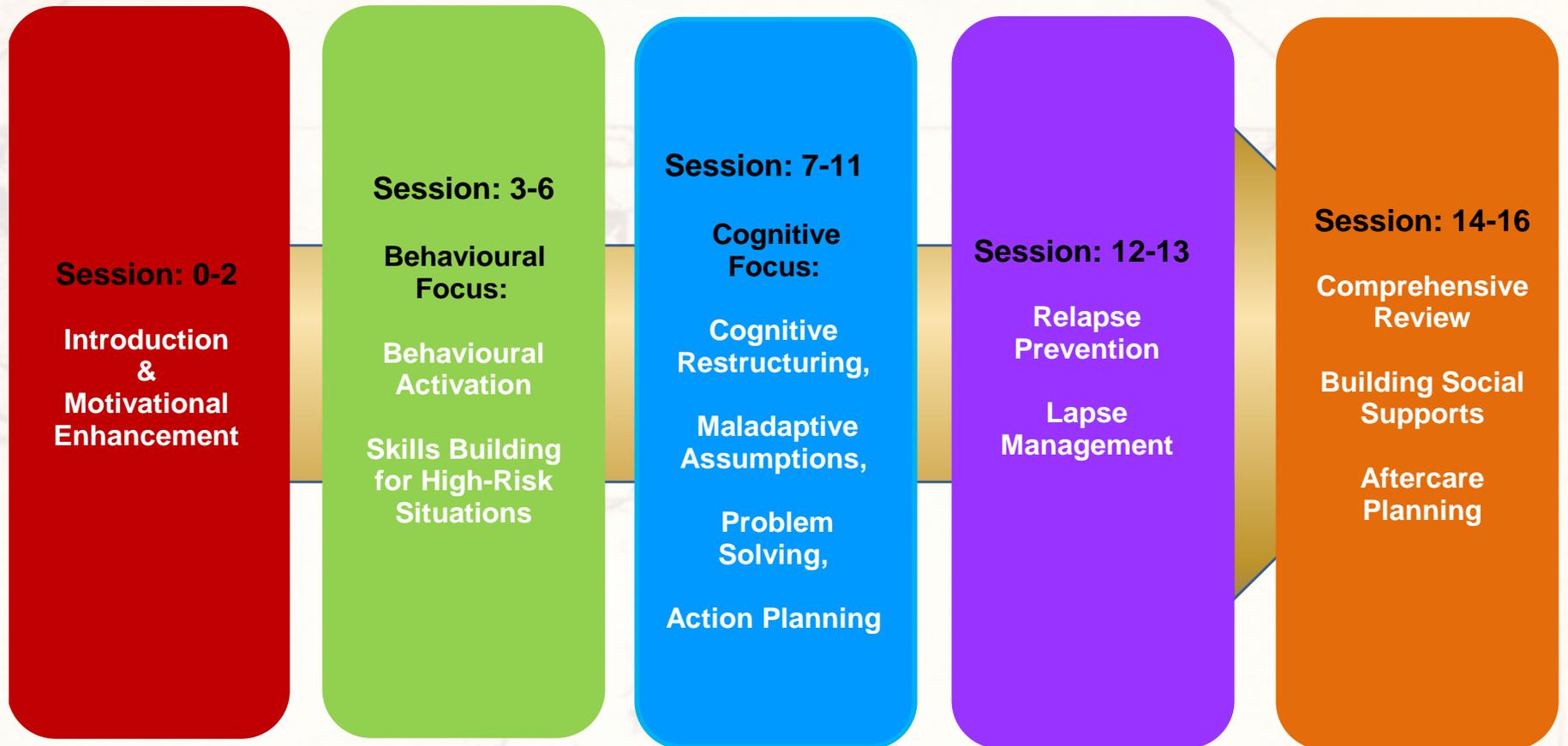
# Program Structure

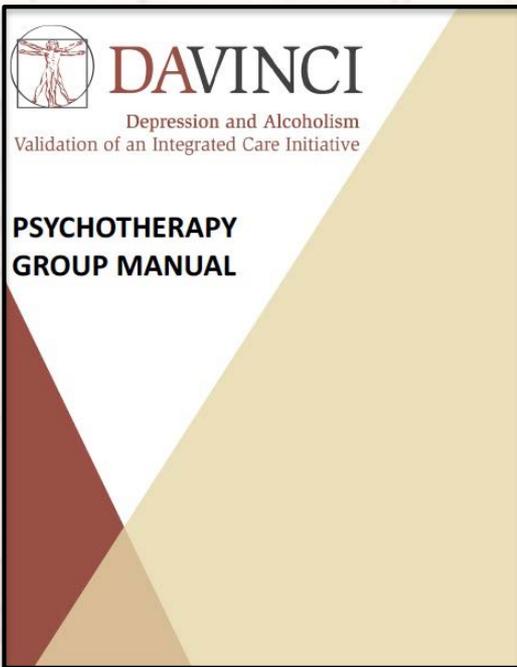


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- Concurrent Treatment of Major Depressive Disorder and Alcohol Use Disorder as defined by DSM V
- 17 - 2 hour weekly group psychotherapy sessions.
- Pharmacological intervention via anti-depressant and anti-craving medication.
- Pre and Post group assessment tools, as well as...
  - Bi-Weekly screens for depression symptoms, alcohol cravings scales, and weekly drinking results.
  - Bi- weekly medical visits with team psychiatrist to review screening tools scores and adjust medication as informed by the DA VINCI anti-depressant and anti-craving medication algorithm.

# DA VINCI: Psychosocial Therapy Overview

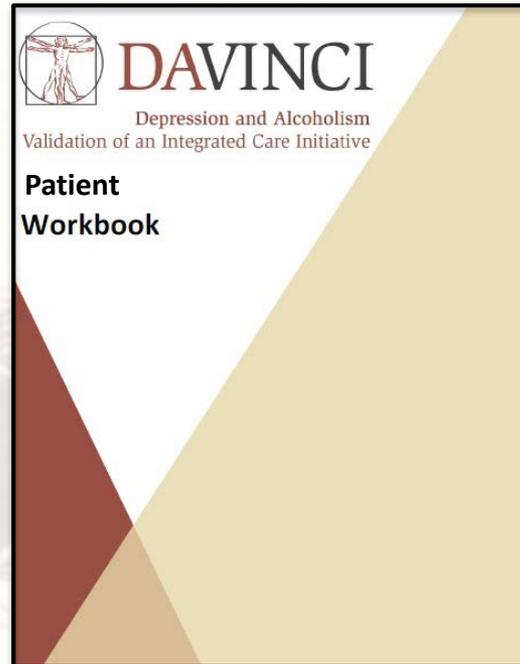




# Group Materials

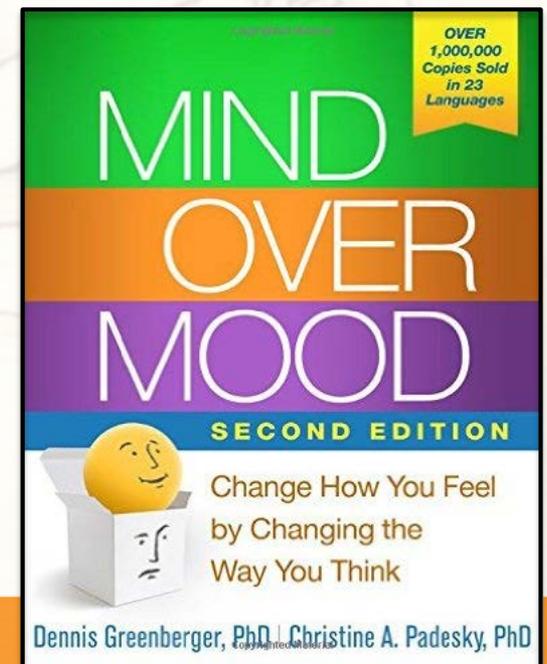


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## Therapeutic Modalities

- Cognitive Behavioural Therapy (CBT)
- Motivational Interviewing (MI)
- Structured Relapse Prevention (SRP)
- Dialectic Behaviour Therapy (DBT)



# DA VINCI: The Medical Visit



- Weeks 2, 4, 6, 8, 10, 12, 14, 16
  - Brief Medical Interview
  - Charting
  - Medication Titration
  - Psychosocial Stressors
  - Management of Comorbidities
  - Scales Used
    - **QIDSS** – Quick Inventory of Depressive Symptomatology Scale
    - **PACS** – Penn Alcohol Craving Scale
  - Guide for Pharmacotherapy



# DA VINCI: The Medical Visit



Weeks 2, 4, 6, 8, 10, 12, 14, 16

- Algorithm:
  - Antidepressants:
    - Sertraline, Fluoxetine, Venlafaxine XR, Mirtazapine



## DAVINCI

Depression and Alcoholism  
Validation of an Integrated Care Initiative

### The DA VINCI Pharmacotherapy Algorithm

#### Antidepressant Trials:

Trial A - Sertraline (Fluoxetine, Venlafaxine XR, Mirtazapine -if Sertraline previously tried and failed)

Trial B - Untried drug from Trial A Group

Trial C - Untried drug from Trials A and B Groups

Type	Medication	Dose	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8 →	Max Dose
Antidepressants	Sertraline	mg AM	25	50	50	Increase dose by 50 mg every 2-4 weeks depending on tolerability and response				200 mg/day	
	Fluoxetine	mg AM	10	20	20	Increase dose by 20 mg every 4 weeks depending on tolerability and response				80 mg/day	
	Venlafaxine XR	mg AM	37.5	75	75	Increase dose by 75 mg every 2-4 weeks depending on tolerability and response				375 mg/day	
	Mirtazapine	mg QHS	15	30	30	Increase dose by 15 mg every 2-4 weeks depending on tolerability and response				60 mg/day	



## Tactics and Critical Decision Point and Critical Status Plan for the Treatment of Major Depressive Disorder

STARTING POINT → Week 0 (CDP#1) QIDS ≥ 9 Symptomatic PLAN → Initiate antidepressant medication; adjust dose to lower end of therapeutic dose range or serum level.

QIDS-C16 SCORE	Week 2	Week 4	Week 6	Week 9	Week 12
<b>QIDS ≤ 5 (Remission)</b>	Continue current dose.				Go to follow-up phase.
<b>QIDS = 6-8 (Partial Response)</b>	Gradually increase dose as tolerated.	<ul style="list-style-type: none"> <li>Continue current dose.</li> <li>Consider increasing dose.</li> </ul>	Increase/maximize dose.	<ul style="list-style-type: none"> <li>Increase dose.</li> <li>Switch to another antidepressant.</li> </ul>	<ul style="list-style-type: none"> <li>Switch to another antidepressant.</li> <li>Increase dose and reevaluate in 2 weeks.</li> </ul>
<b>QIDS = 6-8 (SEs intolerable)</b>	<ul style="list-style-type: none"> <li>Continue current dose and address SEs.</li> <li>Decrease dose and continue for 2 additional weeks.</li> <li>Switch to another antidepressant</li> </ul>	<ul style="list-style-type: none"> <li>Continue current dose and address SEs.</li> <li>Switch to another antidepressant.</li> </ul>	<ul style="list-style-type: none"> <li>Continue current dose and address SEs.</li> <li>Switch to another antidepressant.</li> </ul>		
<b>QIDS ≥ 9 (Non-response)</b>	Gradually increase dose as tolerated.	<ul style="list-style-type: none"> <li>Increase dose.</li> <li>Switch to another antidepressant.</li> </ul>	Switch to another antidepressant.	Switch to another antidepressant.	Switch to another antidepressant.
<b>QIDS ≥ 9 (SEs intolerable)</b>	<ul style="list-style-type: none"> <li>Decrease dose and continue for 2 additional weeks.</li> <li>Switch to another antidepressant.</li> </ul>	<ul style="list-style-type: none"> <li>Switch to another antidepressant.</li> </ul>			

# DA VINCI: The Medical Visit



- Weeks 2, 4, 6, 8, 10, 12, 14, 16
  - Algorithm:
    - Anticraving
      - Naltrexone; Acamprosate; Topiramate

Type	Medication	Dose	Week 1		Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8 →	Max Dose
Anticraving	Trial 1: Naltrexone	mg/day	25	25	50							50 mg/day
	Trial 2: Acamprosate	mg TID	333	333	666							666 mg TID
	Trial 3: Topiramate	mg AM				25	50	50	100	100	150	300 mg/day
mg PM		25		50	50	50	100	100	150	150		
<b>Criteria for Anti-Craving Medication Treatment Non-Responders</b>							<b>Criteria for Anti-Craving Medication Switch</b>					
Treatment non-Responder will have more than 7 (women) or 14 (men) drinks per week on average. <b>OR</b> More than 1 day on which more than 3 drinks (women) or 4 drinks (men) were consumed over the period of 2 weeks.							Being defined as a Treatment non-Responder at 3 consecutive visits will trigger a switch of anticraving medication to the next level.					

# Group Personality



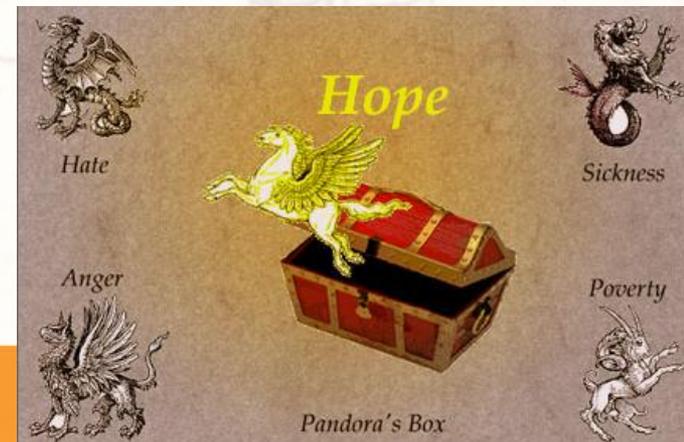
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More than just alcohol and depression

- Other substance use
- Other mental health issues (anxiety)
- Personality issues (BPD)
- Relationship issues
- Trauma
- Physical health
- Chronic pain
- Employment

*Like opening Pandora's box*



# Therapist Experience



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Therapist and system that suits the client population

Going beyond the Manual

Adapting to meet the evolving need for support



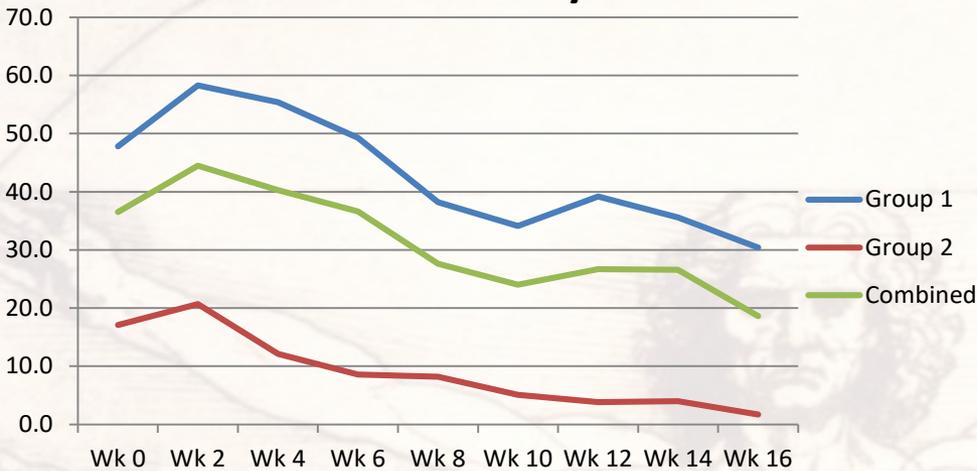
*It can be exhausting!!*

# Pre and Post Group Measures

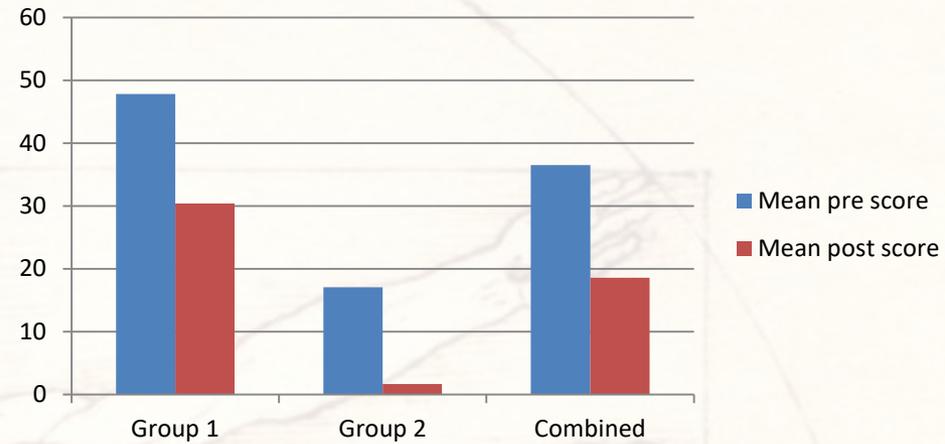
## Standard Drinks Per Week (SDW)

SDW were self-reported by participants every 2 weeks from week 0 (orientation) to week 16 (end of treatment).

### SDW Bi-Weekly Scores



### Pre and Post SDW



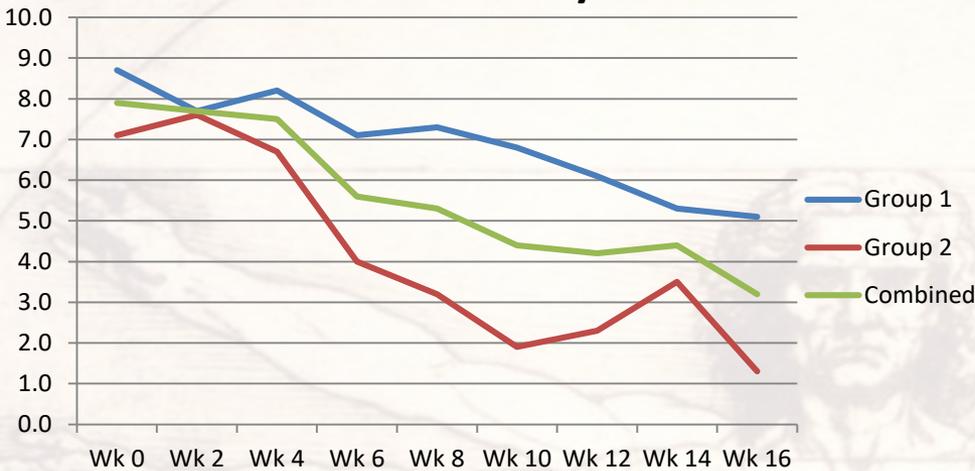
	Group 1 (n=13)	Group 2 (n=7)	Combined (n=20)
Mean SDWs at orientation	47.8	17.1	36.5
Mean SDWs at end of treatment	30.4	1.7	18.6
Percent decrease from pre- to post-group	<b>36.4%</b>	<b>90.0%</b>	<b>49.0%</b>

# Pre and Post Group Measures

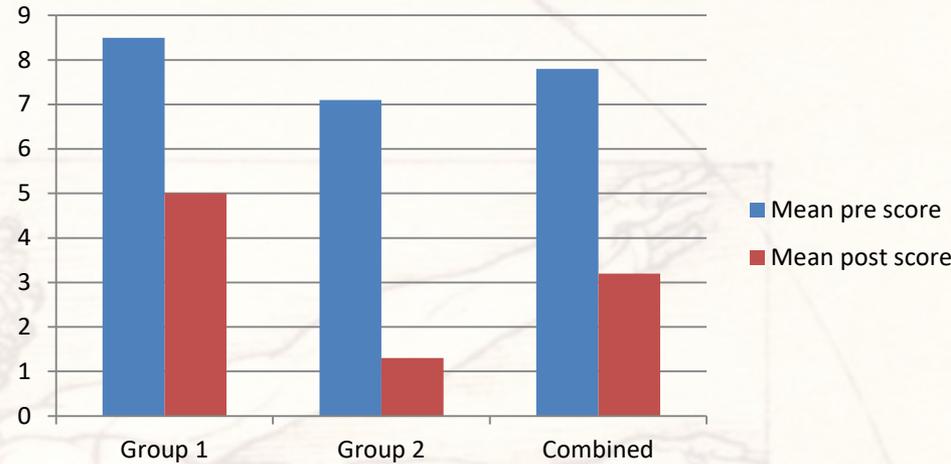
## Standard Drinks Per Drinking Day (SDDD)

SDD were self-reported by participants every 2 weeks from week 0 (orientation) to week 16 (end of treatment).

### SDDD Bi-Weekly Scores



### Pre and Post SDDD



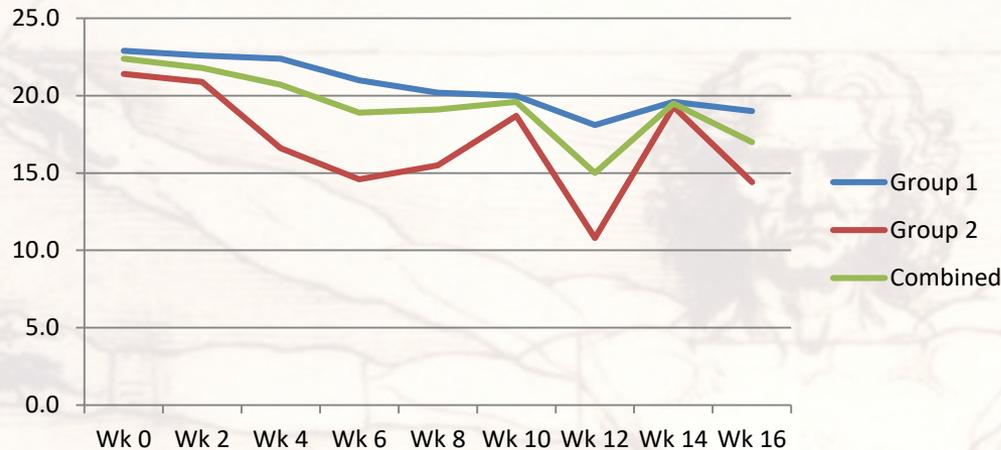
	Group 1 (n=13)	Group 2 (n=7)	Combined (n=20)
Mean SDDs at orientation	8.5	7.1	7.8
Mean SDDs at end of treatment	5	1.3	3.2
Percent decrease from pre- to post-group	<b>41.2%</b>	<b>81.7%</b>	<b>60%</b>

## Pre and Post Group Measures

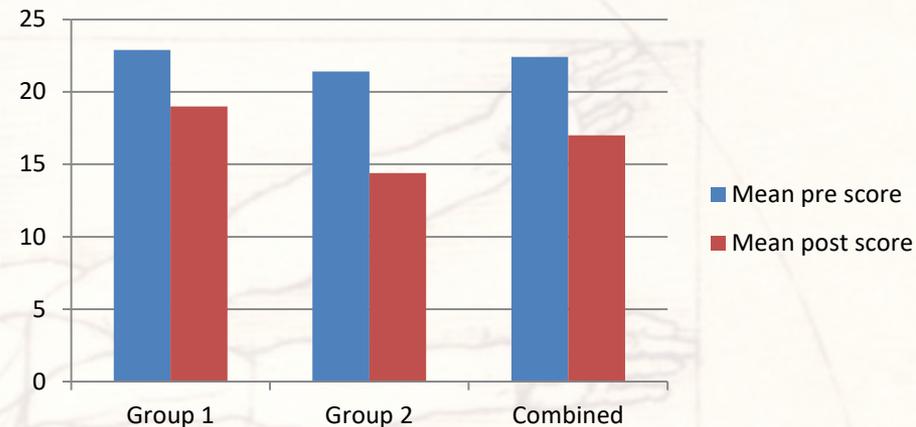
### Penn Anti-Craving Scale (PACS) (min=0, max=30)

The PACS was administered every 2 weeks from week 0 (orientation) to week 16 (end of treatment).

#### PACS Bi-Weekly Scores



#### PACS Pre and Post Scores



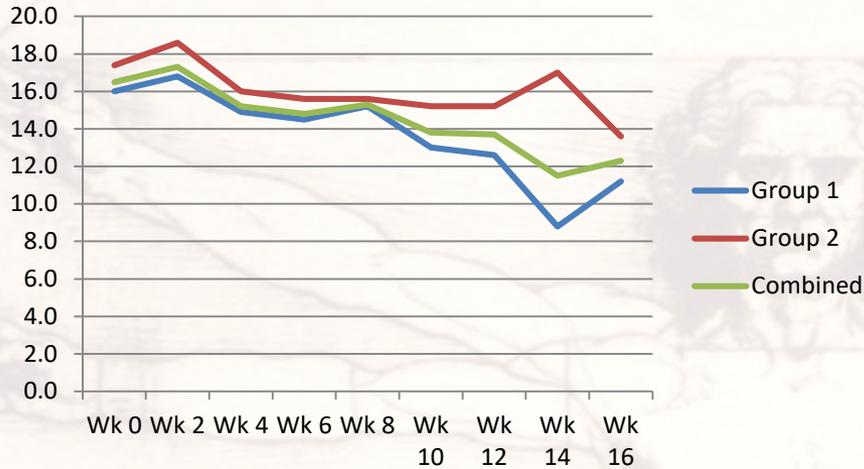
	Group 1 (n=13)	Group 2 (n=7)	Combined (n=20)
<b>Mean score at orientation</b>	22.9	21.4	22.4
<b>Mean score at end of treatment</b>	19.0	14.4	17.0
<b>Percent decrease from pre- to post-group</b>	<b>17.0%</b>	<b>32.7%</b>	<b>24.1%</b>

## Pre and Post Group Measures

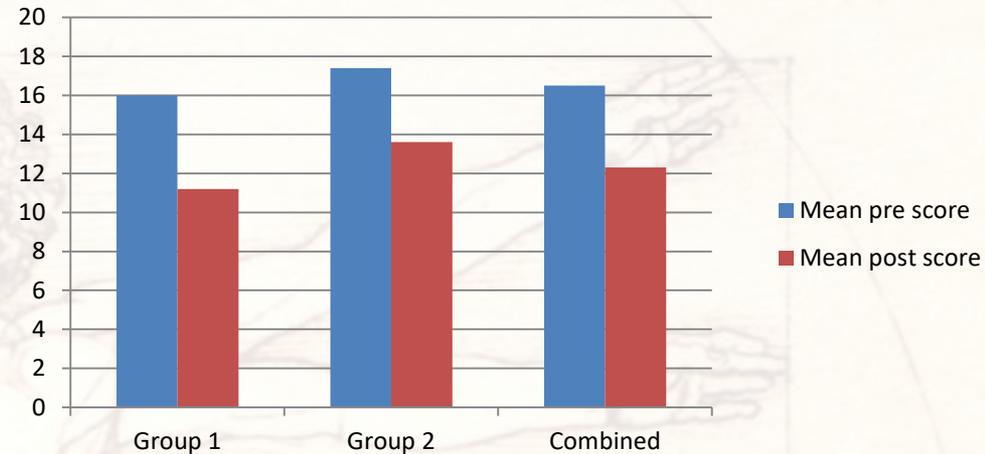
### Quick Inventory of Depressive Symptomology (QIDS) (min=1, max=27)

The QIDS was administered every 2 weeks from week 0 (orientation) to week 16 (end of treatment).

#### QIDS Bi-Weekly Scores



#### QIDS Pre and Post Scores



	Group 1 (n=13)	Group 2 (n=7)	Combined (n=20)
<b>Mean score at orientation</b>	16.0	17.4	16.5
<b>Mean score at end of treatment</b>	11.2	13.6	12.3
<b>Percent decrease from pre- to post-group</b>	<b>30.0%</b>	<b>21.8%</b>	<b>25.5%</b>

# Standardized Assessments

Assessment Tools	Measures
<b>Alcohol Use Disorder Identification Test (AUDIT)</b>	Enter the Pathway Exit the Pathway
<b>Penns Alcohol Craving Scale (PACS)</b>	Enter the Pathway Biweekly Exit the Pathway
<b>Quick Inventory of Depressive Symptomology (QIDS)</b>	Enter the Pathway Biweekly Exit the Pathway
<b>Suicide Risk Assessment</b>	Enter the Pathway If required Exit the Pathway
<b>The Quality of Life Scale (QOLS)</b>	Enter the Pathway
<b>World Health Organization Disability Assessment Schedule (WHODAS 2.0)</b>	Exit the Pathway

# The Innovation Use of the Ocean Tablet



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First, please take a moment to confirm your demographic information. Tap anything that needs to be fixed and use the on-screen keyboard.

First Name

Second Name

Last Name

Preferred Name

Title  ▼

Address

Address Line 2

City

Province  ▼

Postal Code

Date of Birth

Home Phone

### Weekly Drinking Record

Session Number: 14

Date: **April 19, 2017**

Name: \_\_\_\_\_

For these guidelines, **“a drink”** means:

**Beer**  
341 ml (12 oz.)  
5% alcohol content

**Cider/Cooler**  
341 ml (12 oz.)  
5% alcohol content

**Wine**  
142 ml (5 oz.)  
12% alcohol content

**Distilled Alcohol**  
(rye, gin, rum, etc.)  
43 ml (1.5 oz.)  
40% alcohol content

**This past week...**

SDDD (Standard Drinks per Drinking Day)  
**When you drank, how many drinks did you have on average?** \_\_\_\_\_

DDW (Drinking Days per Week)  
**How many days did you drink?** \_\_\_\_\_

SSW (Standard Drinks per Week)  
**How many drinks did you have in total?** \_\_\_\_\_

HDDW (Heavy Drinking Days per Week)  
**How many days did you have (Men: 5 or more; Women: 4 or more)** \_\_\_\_\_

# Technical Overview



- Ocean software by CognisantMD
- Cost - \$50 per tablet per month
- Telus PS Suite EMR

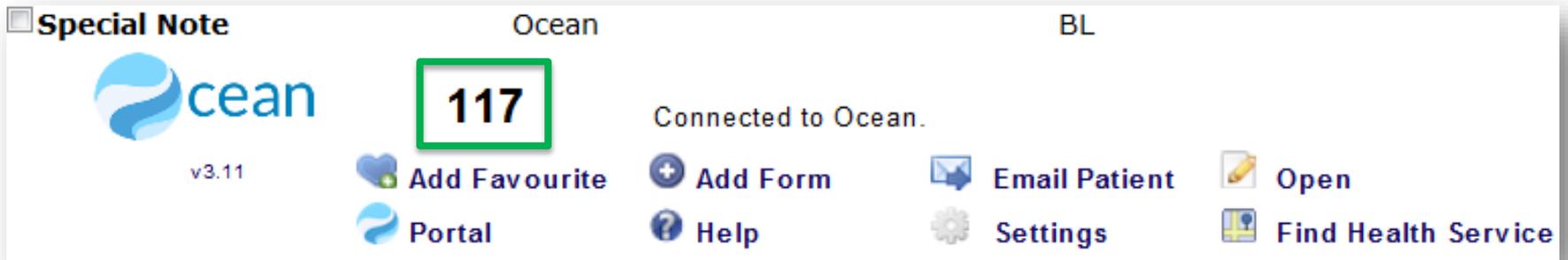


- Hipstreet Phoenix 10.1" 16GB (Android 4.4)
- 1:1 tablet to patient ratio

# How does it work?

1. Facilitator pre-loads Ocean custom form in patient EMR chart to generate passcode

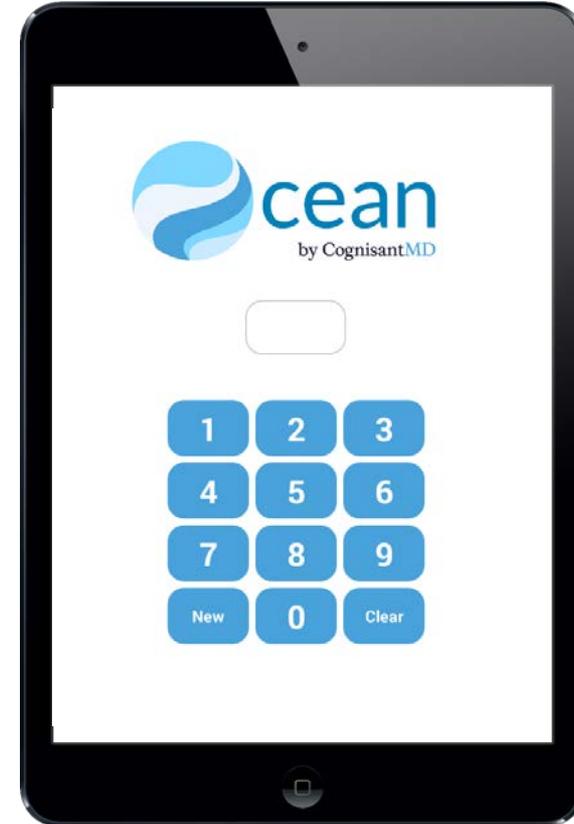
Special Note Ocean BL



The screenshot shows the Ocean EMR interface. On the left, there is a "Special Note" tab and the Ocean logo with version "v3.11". In the center, the patient ID "117" is displayed in a green-bordered box. To the right of the patient ID, it says "Connected to Ocean.". Below the patient ID, there are several action buttons: "Add Favourite" (heart icon), "Portal" (Ocean logo icon), "Add Form" (plus icon), "Help" (question mark icon), "Email Patient" (envelope icon), "Settings" (gear icon), "Open" (pencil icon), and "Find Health Service" (location pin icon).

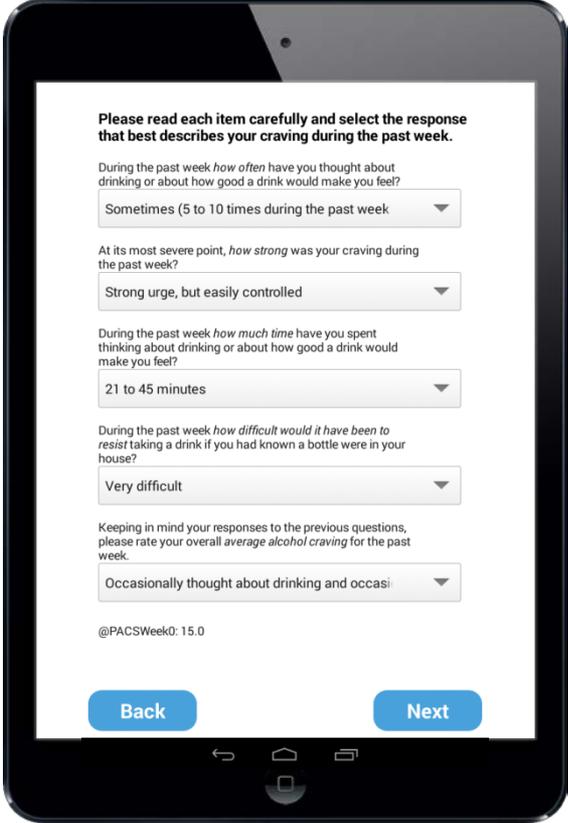
# How does it work?

2. Patient enters their passcode to begin completing forms



# How does it work?

## 3. Patient completes forms on the tablet



**Please read each item carefully and select the response that best describes your craving during the past week.**

During the past week *how often* have you thought about drinking or about how good a drink would make you feel?

Sometimes (5 to 10 times during the past week)

At its most severe point, *how strong* was your craving during the past week?

Strong urge, but easily controlled

During the past week *how much time* have you spent thinking about drinking or about how good a drink would make you feel?

21 to 45 minutes

During the past week *how difficult* would it have been to resist taking a drink if you had known a bottle were in your house?

Very difficult

Keeping in mind your responses to the previous questions, please rate your overall *average alcohol craving* for the past week.

Occasionally thought about drinking and occasi

@PACSWeek0: 15.0

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# How does it work?

## 4. Personal Health Information is converted to a clinical note and sent directly to the EMR

Sep 7, 2016  
**DAVINCI Client Questionnaire**  
**Demographics**  
@Age: [REDACTED]  
@Gender: [REDACTED]  
**Medical history**  
@Epilepsy\_seizures: 0 (No)  
@Chronic\_Pain: 1 (Yes)  
@Liver\_Disease: 0 (No)  
@Allergies: 0 (No)  
@Meds: Zoloft 100 mg  
**Mental health history**  
@Bipolar\_Affective\_Disorder: 0 (No)  
@Borderline\_Personality\_Disorder: 0 (No)  
@Other\_Psychiatric: 0 (No)  
**Smoking History**  
@Cu\_Smoking: 0 (Current non-smoker)  
@Hx\_Smoking: 0 (never smoked)  
**Substance Use History**  
@Cu\_Hypno: 2 (Current daily use)  
@Cu\_Opioids: 0 (No current use)  
@Hx\_Opioids: 0 (No history of use)  
@Cu\_Stimulants: 0 (No current use)  
@Hx\_Stimulants: 1 (History of some use)  
@Cu\_Hallucinogens: 0 (No current use)  
@Hx\_Hallucinogens: 1 (History of some use)  
@Cu\_Cannabis: 0 (No current use)  
@Hx\_Cannabis: 1 (History of some use)  
@Cu\_Others: 0 (No)  
@Hx\_Others: 1 (Yes)  
@Hx\_Others\_List: Ecstasy  
@Hx\_Others\_List: 1 (History of some use)  
**Alcohol use**  
@Age\_First\_Drink: 18  
@Age\_Regular\_Drinking: 20  
@Age\_Problem\_Drinking: 27  
@AUDmeds: 0 (No)  
@Psychotherapy\_AUD: 1 (Yes)  
@AA\_Self\_Help: 1 (Yes)  
@Detox: 1 (Yes)  
@Withdrawal\_Seizures: 0  
@GoalAlcohol: 2 (Reduction)  
**History of Depression**  
@Age\_Depressive\_Symptoms\_Emerged: 21  
@Age\_MDD\_Dx: 43  
@Psychotherapy\_MDD: 1 (Yes)  
@Pharmacotherapy\_MDD: 1 (Yes)  
@Pharmacotherapy\_MDD\_List: Zoloft  
@Hx\_Suicide\_Attempts: 1 (Ideation and self-harm)  
@ER\_Admissions\_MDD: 1 (Yes)

Coded to match  
DAVINCI data  
dictionary

Responses can be  
flagged and  
colour-coded

# Forms and Schedule



- Weeks 0/16
  - Tablet Orientation
  - DAVINCI Client Questionnaire
  - QIDS-SR16
  - PACS
  - AUDIT
  - EQ-5D-5L Health Questionnaire
  - WHODAS 2.0
- Weeks 0/2/4/6/8/10/12/14/16
  - QIDS-SR16
  - PACS

[DAVINCI] [Week 0] AUDIT - Alcohol Use Disorders Identification Test

[DAVINCI] [Week 0] Client Questionnaire

[DAVINCI] [Week 0] EQ-5D-5L Health Questionnaire

[DAVINCI] [Week 0] PACS - Penn Alcohol Craving Scale

[DAVINCI] [Week 0] Quick Inventory of Depressive Symptomatology (QIDS-SR16)

[DAVINCI] [Week 0] Tablet Orientation

[DAVINCI] [Week 0] WHODAS - World Health Organization Disability Assessment Schedule 2.0

All DAVINCI forms are publicly shared on the Ocean website and available to download for FREE!

# Tablet Overview



Hamilton Family Health Team

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## Tablet Orientation

Welcome to the Hamilton Family Health Team DA VINCI Program!

This is an orientation form to help you get acquainted with the tablets that we will be using for the duration of the program. The questions below are for demonstration purposes only and are not part of the DA VINCI Program. Please follow the instructions on the page until you have completed each question.

**Yes/No Question**

This is a Yes/No question. Please select your answer by tapping Yes or No.

Example: Do you have a family doctor?

**Menu Question**

This is a Menu question. Please select your answer by choosing one option from the drop-down menu.

Example: What is your favourite season?

--

**Multiple Answer Menu Question**

This is a multiple answer Menu question. Please select all answers that apply by tapping the buttons.

Example: Which of the following fruits do you like? (select all that apply)

Apples	Peaches	Pears
Plums	Bananas	Oranges
Watermelon	None	

**Sliding Scale Question**

This is a sliding scale question. Please select your answer by dragging the knob on the scale to the point that best reflects your answer.

Example: What is your opinion of reality TV?

Hate it                      Neutral                      Love it

**Number Input**

The answer to this question will be a number. Click the box to open the keyboard and enter your response. You can also select the number using the arrow buttons in the far right corner of the box.

Example: Besides yourself, how many people live in your home?

## Client Questionnaire

Is your goal to abstain from alcohol completely or to reduce your alcohol use?

**History of Depression**

At what age did you first experience symptoms of depression?

At what age were you first diagnosed with depression?

Have you ever received therapy or counselling for depression?

Have you ever been on medication for depression?

Have you ever had thoughts about harming yourself or tried to harm yourself?

--

Have you ever been admitted to hospital because you tried to harm yourself?

Examples of the types of questions used in the program are reviewed

# Tablet Overview



## QIDS

9. Increased Weight (Within the Last Two Weeks):  
I feel as if I've had a slight weight gain

10. Concentration/Decision Making:  
I occasionally feel indecisive or find that my attention is hard to focus

11. View of Myself:  
I am more self-blaming

12. Thoughts of Death or Suicide:  
I do not think of suicide or death

13. General Interest:  
I notice that I am less interested in things I used to enjoy

14. Energy Level:  
I have to make a great effort to get going in the morning

15. Feeling slowed down:  
I find that my thinking is slowed down or my voice is hoarse

16. Feeling Restless:  
I have impulses to do things I would not normally do

@QIDSWeek0: 12.0

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## PACS

**Please read each item carefully and select the response that best describes your craving during the past week.**

During the past week *how often* have you thought about drinking or about how good a drink would make you feel?  
Sometimes (5 to 10 times during the past week)

At its most severe point, *how strong* was your craving during the past week?  
Strong urge, but easily controlled

During the past week *how much time* have you spent thinking about drinking or about how good a drink would make you feel?  
21 to 45 minutes

During the past week *how difficult* would it have been to resist taking a drink if you had known a bottle were in your house?  
Very difficult

Keeping in mind your responses to the previous questions, please rate your overall *average alcohol craving* for the past week.  
Occasionally thought about drinking and occasionally drank

@PACSWeek0: 15.0

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## EQ-5L-5D

I have no pain or discomfort | I have slight pain or discomfort

I have moderate pain or discomfort | I have severe pain or discomfort

I have extreme pain or discomfort

**ANXIETY / DEPRESSION**

I am not anxious or depressed | I am slightly anxious or depressed

I am moderately anxious or depressed | I am severely anxious or depressed

I am extremely anxious or depressed

We would like to know how good or bad your health is today.

Choose a point on the scale to indicate how your health is TODAY:

Worst health you can imagine | Best health you can imagine

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Scores update in real time for the patient to see

Examples of button and sliding scale questions

# Tablet Overview

## AUDIT

were not able to stop drinking once you had started?  
Monthly

**This field cannot be left empty**  
5. How often during the last year have you failed to do what was normally expected from you because of drinking?

--

**This field cannot be left empty**  
6. How often during the last year have you needed a first drink in the morning to get yourself going after a heavy drinking session?

--

**This field cannot be left empty**  
7. How often during the last year have you had a feeling of guilt or remorse after drinking?

--

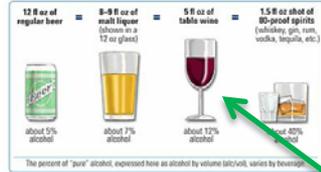
**This field cannot be left empty**  
8. How often during the last year have you been unable to remember what happened the night before because you had been drinking?

--

**This field cannot be left empty**

Back Next

Because alcohol use can affect your health and can interfere with certain medications and treatment, it is important that we ask some questions about your use of alcohol. Your answers will remain confidential so please be honest. Please select the option from the menu that best describes your answer to each question.



1. How often do you have a drink containing alcohol?  
2 to 4 times a month

2. How many drinks containing alcohol do you have on a typical day when you are drinking?  
3 or 4 drinks

3. How often do you have six or more drinks on one occasion?  
Monthly

4. How often during the last year have you found that you were not able to stop drinking once you had started?

Back Next

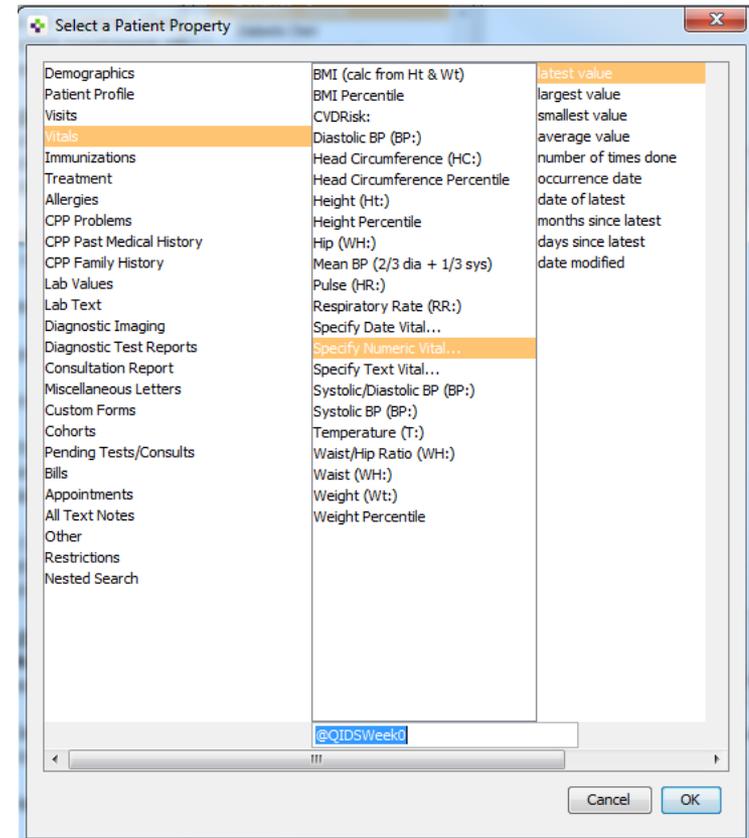
Image files can be imported to the form to use as visual aides

Questions can be marked mandatory

# Data Overview

## Telus PS Suite EMR function 'Custom Vitals'

- Data is documented in the same way as vital metrics in the EMR (BP, Ht, Wt, etc.)
- This allows for standard documentation resulting in simple data extraction



# Data Overview



## EMR Output

### **AUDIT - Alcohol Use Disorders Identification Test - Week 1**

1. How often do you have a drink containing alcohol? **4 or more times a week**
2. How many drinks containing alcohol do you have on a typical day when you are drinking? **10 or more drinks**
3. How often do you have six or more drinks on one occasion? **Daily or almost daily**
4. How often during the last year have you found that you were not able to stop drinking once you had started? **Daily or almost daily**
5. How often during the last year have you failed to do what was normally expected from you because of drinking? Monthly
6. How often during the last year have you needed a first drink in the morning to get yourself going after a heavy drinking session? **Daily or almost daily**
7. How often during the last year have you had a feeling of guilt or remorse after drinking? **Daily or almost daily**
8. How often during the last year have you been unable to remember what happened the night before because you had been drinking? Less than monthly
9. Have you or someone else been injured as a result of your drinking? **Yes, during the last year**
10. Has a relative or friend or a doctor or another health worker been concerned about your drinking or suggested you cut down? **Yes, during the last year**

@AUDITWeek0: 35

### **EQ-5D-5L Health Questionnaire - Week 1**

#### **MOBILITY**

I have slight problems walking about

#### **SELF-CARE**

I have no problems washing or dressing myself

#### **USUAL ACTIVITIES**

I have slight problems doing my usual activities

#### **PAIN / DISCOMFORT**

I have slight pain or discomfort

#### **ANXIETY / DEPRESSION**

I am severely anxious or depressed

#### **VAS SCORE**

Choose a point on the scale to indicate how your health is TODAY: 39

#### **Scores**

@MobilityWeek0: 2

@SelfCareWeek0: 1

@UsualActivitiesWeek0: 2

@PainDiscomfortWeek0: 2

@AnxietyDepressionWeek0: 4

@VASWeek0: 39

# Data Overview



## Query Output

- All data can be pulled using front-end EMR queries

## Client Questionnaire

@Gender	@Epilepsy_...	@Chronic_...	@Liver_Dis...	@Allergies	@Bipolar_A...	@Borderlin...	@Other_Ps...	@Cu_Smok...
2	0	1	0	0	0	0	0	0
1	0	1	0	1	0	0	1	0
2	0	1	0	0	0	0	0	1
1	0	1	0	1	0	0	1	1
1	0	1	0	0	0	0	0	1
1	0	0	0	0	0	0	1	1
2	0	0	0	0	0	1	0	2
1	0	0	0	0	0	0	0	1
1	0	0	0	0	0	1	0	2
2	0	1	0	0	0	0	0	0
1	0	0	0	1	0	0	0	0
1	0	1	0	0	0	0	0	1
1	0	1	0	0	0	0	0	1
2	0	1	0	1	0	0	1	1
1	0	1	0	1	0	0	1	1
2	0	0	0	0	0	0	1	0

## Assessment Measures

@QIDSWee...	@PACSWee...	@AUDITWe...	@MobilityW...	@SelfCare...	@UsualActi...	@PainDisco...	@AnxietyD...	@VASWeek0	@H1Week0	@H2Week0	@H3Week0	@SimpleW...
11	27	20	1	1	3	2	2	51	6	0	0	9
19	13	25	2	2	3	3	4	23	25	3	30	22
22	27	35	1	3	4	5	5	18	4	3	5	33
25	28	36	3	2	3	4	5	24	30	30	30	26
16	18	25	3	1	4	4	3	48	30	30	30	23
18	13	19	2	1	3	3	4	38	30	30	0	30
21	27	29	1	2	4	2	5	31	30	20	10	31
7	21	32	1	1	1	2	3	87	1	1	1	6
15	11	19	3	2	2	3	3	54	20	15	15	27
14	13	22	1	1	2	3	3	48	30	0	15	24
11	29	32	1	1	1	1	1	72	25	15	25	16
19	12	22	3	1	3	3	4	25	15	0	0	17
20	26	24	1	1	5	4	4	57	30	30	30	19
22	28	30	1	1	3	3	4	48	18	10	20	18

# Additional Tools



## DAVINCI Scorecard

Jan 18, 2017

DaVinci Scorecard

JLL



# DAVINCI



### DAVINCI Program Scorecard

Patient:  Gender:

DOB:  Patient Phone:

DD/MM/YYYY

Patient Cell Phone:

	QIDS	PACS	AUDIT	H1	H2	H3	Simple
Week 0:	<input type="text" value="14"/>	<input type="text" value="21"/>	<input type="text" value="23"/>	<input type="text" value="30"/>	<input type="text" value="0"/>	<input type="text" value="30"/>	<input type="text" value="10"/>
Week 2:	<input type="text" value="never d"/>	<input type="text" value="never d"/>					
Week 4:	<input type="text" value="14"/>	<input type="text" value="18"/>					
Week 6:	<input type="text" value="10"/>	<input type="text" value="8"/>					
Week 8:	<input type="text" value="11"/>	<input type="text" value="14"/>					
Week 10:	<input type="text" value="12"/>	<input type="text" value="20"/>					
Week 12:	<input type="text" value="8"/>	<input type="text" value="10"/>					
Week 14:	<input type="text" value="7"/>	<input type="text" value="13"/>					
Week 16:	<input type="text" value="7"/>	<input type="text" value="10"/>	<input type="text" value="29"/>	<input type="text" value="30"/>	<input type="text" value="7"/>	<input type="text" value="23"/>	<input type="text" value="12"/>

### EQ-5D-5L Health Questionnaire

	PRE	POST
Mobility:	<input type="text" value="2"/>	<input type="text" value="3"/>
Self-Care:	<input type="text" value="1"/>	<input type="text" value="1"/>
Usual Activities:	<input type="text" value="2"/>	<input type="text" value="2"/>
Pain/Discomfort:	<input type="text" value="4"/>	<input type="text" value="4"/>
Anxiety/Depression:	<input type="text" value="3"/>	<input type="text" value="2"/>
Visual Analog Scale:	<input type="text" value="48"/>	<input type="text" value="43"/>

## DAVINCI Referral

**Group or Centralized Service:**  
Choose the Program or Service referring to:

DAVINCI Program



# DAVINCI

DA VINCI is an integrated treatment program that is specifically designed for individuals who have been diagnosed with major depression and alcohol dependence/alcohol use disorder (AUD). The DA VINCI pathway utilizes an interdisciplinary team of health care professionals who provide evidence-based care, combining psychotherapy and pharmacotherapy (anti-depressant and anti-craving medications) to treat both depression and AUD simultaneously.

[Referral Process and Program Overview](#)

I, Dr. , confirm:

1. a)  The primary diagnosis of MDD and AUD via DSM-V  
OR  
 If not a paper diagnosis, include the clinical scales:  
PHQ-9:  AUDIT:

b)  The patient has been informed and consented to integrated treatment of pharmacological and psychotherapy intervention.

2. Is there a mental health counsellor  No  Yes involved in this patient's care?  
If yes, name(s):

3. Past anti-depressant(s):

4. Past anti-craving medication(s):

**Handouts:**  
[Patient Brochure](#)   [DSM-V Criteria](#)   [Provider Handout](#)

**Tools:**  
[PHQ-9 Tool](#)   [AUDIT Tool](#)



# Future Development

## Moving Forward with DAVINCI



- DAVINCI clinical custom forms for physicians/psychiatrists
- Integrate clinical custom forms with Ocean forms
- Time-line follow-back Ocean form
- Real-time feedback for patients on previous scores

# Thank you!

Questions?