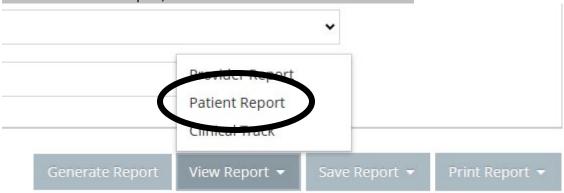


New Patient Report – Page 1

05/15/2024

The current Patient Report, found on the menu items as shown here:



A sample of which is shown here:



New River Family 1300 St. Mary's Street Suite 502 Raleigh,NC NC 27605P: 919-833-8998 F: 919-772-2727

Account Number: Policy Number: 23423423

Patient Name: Portnoys Complaint DOB: 12/31/1969 Age: 54 Provider: Karen A Williams,RN

DOS: May 14, 2024

Reason for Visit

WellTrackONE Visit [portal]

Written screening schedule - 5 year Plan
The patient's written screening schedule and 5-year plan is as follow

CATEGORY	GOALS Measure at least yearly; goal 130/80; if diabetes, age > 65, or other medical condition, your medical provider may recommend a higher or lower goal. Discuss with your medical provider.			
Blood Pressure				
Weight/BMI	Age => 18 years, measure at least every 12 months. BMI goal => 18.5 and < 25			
Vaccinations	Seasonal Flu Pneumonia: Pneumovax and Prevnar (once after age 65) Tdap one dose, thereafter Td (tetanus and diphtheria) every 10 years Shingrix two-dose one-time-only after age 50 COVID-19 primary series, plus booster. People with weakened immune systems may be eligible for an additional primary shot. Discuss with your medical provider.			
Lab Orders	Lipid testing once every 5 years; more frequently if being treated for elevated cholesterol, diabetes, her disease or vascular disease. Discuss with your medical provider.			
Colon Cancer Screening	Colonoscopy every 10 years starting age 50 until age 75-80; more frequently and possibly at a younger age depending on family history or medical conditions. Discuss with your medical provider who may offer other testing options.			
Abdominal Ultrasound	If you are a male 65 or older and have ever smoked, you may have an increased risk for an aortic aneurysm. Discuss the one-time only screening for this condition with your medical provider.			
Bone Density Testing	Once every two years for persons who indicate an increased risk for osteoporosis; your provider will evaluate your medical need and your appropriate bone mass measurement; testing may be more often when medically necessary. Discuss with your medical provider.			
Hepatitis C Testing	Recommended once for people born between 1945-1965. Discuss with your medical provider.			
Referrals	Depending upon clinical scenario			

Personalized Health Advice

CATEGORY	RECOMMENDATIONS	ACCOMPLISH BY
Nutrition	 Men and women have an increased risk for osteoporosis as they age. Consult with your provider about bone density screenings, supplements, and exercise, to help you strengthen your bones. 	As directed by your provider:
Physical Strength	 Your age is 50-65. Your provider will advise you of nutrition changes that you should consider for your age group. Also, your provider will discuss preventive testing procedures for your age group such as colonoscopy. 	As directed by your provider:



<u>Needs to be replaced</u> with a more modern, updated Patient Report that more closely mimics the Patient Report that used to be generated by the iOS THEO I product, a version of which is shown here:

Date: May 23, 2017 Healthcare Provider: Karen A	Williams	Practice: New River Family Medicine 1300 St Marys Street Suite 502			
Your personalized Wellness Pi	'an is based on risk	factors identifie	d during your Annual Wellne	ss Visit. Work with	
our doctor to complete each		_			
o ensure you stay as healthy	as possible. Speak	with your Docto	or if you have any questions (about this plan.	
Your Key Vital Signs					
Age: <u>86</u>	- Bloo	od Pressure:13	37 / 88		
Weight: 190 lb	е .				
Weight.		Weight Analysis:			
Height: 5' 9" (0	69 inches)				
Body Mass Index (BMI): 28	Weight L	oss Counseling:			
Medicare Recommended Pro	eventive Services	Code	Your Benefit / Guidelines	Needed this year	
Immunizations / Vaccinations	Pneumonia	G0009	1 dose age 65+	Yes No 🗸	
	Influenza	G0008	Annually	Yes ✔ No	
	Shingles	90736/90471	As needed, if at risk	Yes No ✔	
Diabetes Screening	Blood test	82947	w/ Sustained BP >/= 135/80	Yes 🗹 No	
Cholesterol Testing	Blood test	82465	As needed w/ risk factors	Yes V No	
Vision / Glaucoma Screening	Eye test	G0117/G0118	Every 2 years - age 40+	Yes No 🗸	
Sexually Transmitted Disease/HI		G0475	As needed per risk	Yes V No	
Osteoporosis	Bone Density	76977	Routine	Yes No 🗸	
Colorectal Cancer Screening	Fecal Blood	G0328	Annually	Yes ✓ No ✓	
	Sigmoidoscopy Colonoscopy	G0104 G0121	Every 5 years Every 10 years	Yes No ✔ Yes No ✔	
Breast Cancer Screening	Mammogram	G0121 G0202	Female, Every 2 years	Yes No 🗸	
Prostate Cancer Screening	PSA	G0202 G0103	Male, Annually	Yes ✔ No	
Social/Behavioral Screenings			,	100 110	
Smoking / Tobacco Use	Counseling	99406/99407	As needed, if at risk	Yes 🗸 No	
Alcohol Misuse Screening	Counseling	G0442	As needed, if at risk	Yes No	
Substance Abuse Screening	Counseling	G0396/G0397	As needed, if at risk	Yes 🗸 No	
•	-			<u></u>	
Cognitive Impairment Screening	Testing	96103/96120	As needed, if at risk	Yes 🗸 No 🗌	
Depression Screening	Counseling	G0444	As needed, if at risk	Yes 🗸 No	
Your Additional Risk Factors					
Weight/BMI	Counseling	G0447/G0473	As needed, if BMI is above	Yes No 🗸	
Fall Risk / Mobility	Assessment	92541	As needed, if at risk	Yes ✔ No	
Physical Activity / Exercise	Counseling	Varies	As needed, if at risk	Yes V No	
Nutrition / Diet	Counseling	G0270/G0271	As needed, if at risk	Yes 🗸 No 🗌	
Advance Care Planning			-		
Living Will & Medical Proxy	Counseling	99497	As needed, requested	Yes 🗸 No	
				*based upon your answer	

This patient report needs to be available from /tablet (PreventONE), /theo (THEO II) and /portal (ConnectONE) – ALL THREE PLATFORMS!



Entry variables

You will need the following variables from the calling program in order to run the queries required to generate this data:

Patient_ID (For Wellness_eCastEMR_Data.dbo.PatientProfile)
 Encounter_ID (For Wellness_eCastEMR_Data.dbo.EncounterHistory)

You will also need the following variables to fetch other data needed for the report:

Org_ID (For Wellness_eCastEMR_Data.dbo.OrgProfile)
 Provider ID (For Wellness eCastEMR Data.dbo.ProviderProfile)

The SQL query that generates the data you need for the report will be shown in **Attachment "A" – Patient Wellness SQL Query**. The two variables above must be initialized inside the query as @Patient_ID and @Encounter_ID prior to running the query.

They must also be initialized in the query that runs the report to give you the final data.

The programmer will need to get the header for the report as shown:

For Patient Name:

SELECT FirstName, LastName, MedicalRecordNumber FROM Wellness eCastEMR Data.dbo.PatientProfile where Patient ID = @Patient ID



For Practice Name:

SELECT OrgName FROM Wellness_eCastEMR_Data.dbo.OrgProfile WHERE Org_ID = @Org_ID

```
---For Practice Name:
SELECT OrgName FROM Wellness_eCastEMR_Data.dbo.OrgProfile WHERE Org_ID = 1
---For Provider Name:
SELECT ProviderFirst, ProviderLast FROM Wellness_eCastEMR_Data.dbo.ProviderProfile WHERE Provider_ID = @Provider_ID

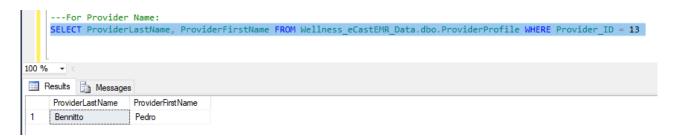
100 % 
Results Messages

OrgName

New River Family
```

For Provider Name:

SELECT ProviderFirstName, ProviderLastName FROM Wellness_eCastEMR_Data.dbo.ProviderProfile WHERE Provider_ID = @Provider_ID



For BMI:

The BMI formula in English units is **BMI = mass (lb) * 703 (height (in))2**¹²²⁴. In this formula, lb stands for pound and in stands for inch. When using English measurements, ounces (oz) and fractions must be changed to decimal values. The formula can also be written as **BMI = (Weight in Pounds / (Height in inches x Height in inches)) x 703.** The formula is used to calculate BMI by dividing weight in pounds (lb) by height in inches (in) squared and multiplying by a conversion factor of 703.

Formatting:

For your report output, copy the formatting, font, color, font size exactly as you see it in the report.

Check boxes require a "check" image inside the box which must be replicated exactly as shown above.

Data for Report:

To make it extremely easy for the programmer to access the data, we have provided a table called "Wellness_eCast_DataArchive.dbo.PWHistory" and "Wellness_eCast_DataArchive.dbo.PWMaster" that will render the exact set of data that you need, in the order of presentation on the report (following "SortOrder").

Here is a sample output of the query that outputs what you need to get the data for this report:

SELECT

PWM.PWMaster_ID, PWM.Category, PWM.Service, PWM.Code, PWM.Benefit, PWH.PWValue, PWH.PWNeeded, PWM. SortOrder

FROM Wellness_DataArchive.dbo.PWHistory PWH

JOIN Wellness_DataArchive.dbo.PWMaster PWM

ON PWH.PWMaster_ID = PWM.PWMaster_ID

WHERE Patient_ID = 1004373998 AND Encounter_ID = 656443 AND

(PWH.Hidden IS NULL or PWH.Hidden = 0)

ORDER BY PWH.SortOrder

Note that this query has the Patient_ID and Encounter_ID hard coded for illustration purposes. Your program will need to substitute those hard coded values with the variables from within your code.

The Query in Attachment "A" will be part of your code that generates this new Patient Wellness report. It does not depend upon the "Generate Report" button because it reads the stored template data directly.





SELECT PWM.PWMaster_ID,PWM.Category,PWM.Service,PWM.Code,PWM.Benefit,PWH.PWValue,PWH.PWNeeded,PWM.SortOrder ROM Wellness_DataArchive.dbo.PWHistory PWH JOIN Wellness DataArchive.dbo.PWMaster PWM ON PWH.PWMaster_ID = PWM.PWMaster_ID WHERE Patient ID = 1004373998 AND Encounter ID = 656443 AND (PWH.Hidden IS NULL or PWH.Hidden = 0) ORDER BY PWH.SortOrder 100 % ▼ < 🚃 Results 📑 Messages PWMaster_ID Category Service Code Benefit **PWValue PWNeeded** SortOrder Weight NULL Vitals Wt 255 0 10 2 NULL Height Ht 65 0 20 Vitals 3 NULL 0 3 Vitals Systolic Sys 195 30 NULL 4 4 Vitals Diastolic Dia 125 0 40 5 5 Immunizations/Vaccines Pneumonia G0009 1 dose age 65+ 0 50 6 6 Immunizations/Vaccines G0008 0 60 Influenza 7 Immunizations/Vaccines Shingles 90736 As needed, if at risk 0 70 w/sustained B/P >= 130/808 8 Diabetes Screening Blood test 82947 0 80 9 9 Cholesterol Testing Blood test 82465 As needed w/ risk factors 0 90 10 10 Vision/Glaucoma Screening Eve test G0117 Every 2 years, age 40+ 0 100 11 11 Sexually Transmitted Disease/HIV G0475 As needed per risk 0 110 Blood test 12 Bone density 76977 Routine 0 120 12 Osteoporosis 13 G0121 0 13 Colorectal Cancer Screening Every 5-10 years 130 Colonoscopy 14 14 Breast Cancer Screening Female, every 2 years 0 140 G0202 Mammogram 15 15 Prostate Cancer Screening G0103 Male, annually 0 150 PSA 16 16 Smoking/Tobacco Use Counseling 99406 As needed, if at risk 1 160 17 17 0 Alcohol Misuse Screening Counseling G0442 As needed, if at risk 170 18 18 Substance Abuse Screening Counseling G0396 As needed, if at risk 1 180 19 19 Cognitive Impairment Screening 96103 As needed, if at risk 0 190 Testing 20 20 G0444 As needed, if at risk 0 200 Depression Screening Counseling 21 21 Weight/BMI 0 Counseling G0447 As needed, if BMI out of li... 210 22 22 Fall Risk/Mobility 92541 As needed, if at risk 220 Assessment 23 23 Physical Activity/Exercise Counselina Varies As needed, if at risk 0 230 24 24 G0270 As needed, if at risk 0 240 Nutrition/Diet Counseling 25 25 0 250 99497 As needed, requested Advance Directives Counseling 26 26 Counselilng 99040 260 Chronic Care Management As needed, requested

If you look carefully at the output of this query, and compare it to the "new" patient report, you will see that the items on the report line up perfectly with the output of this query. That is BY DESIGN.

The first four rows are the vitals for weight (lbs), height (inches), systolic (inches Hg) and diastolic (inches Hg).

The remaining rows correspond to the lines on the report.

<u>The column "PWNeeded" is 1 if "yes" and 0 if "no".</u> This tells you where to put the check marks in the box on the report.



Attachment "A" - Query for Patient Wellness

```
Patient Wellness Generator
      Code to find Patient Wellness Inclusion Data
      UPDATE:
                           05/12/2024
                                                       New
--- For Repetitious Testing Only
---DELETE FROM Wellness DataArchive.dbo.PWHistory
---SELECT * FROM Wellness_DataArchive.dbo.PWMaster
---SELECT * FROM Wellness_DataArchive.dbo.PWMasterTBots
PRINT 'Setting up temp tables...'
USE Wellness eCastEMR Data
DROP Table Wellness eCastEMR Data.dbo.tempPWTBots
SET ANSI_NULLS ON
SET QUOTED_IDENTIFIER ON
SET ANSI PADDING ON
CREATE TABLE Wellness_eCastEMR_Data.[dbo].[tempPWTBots](
       [tempPWTBots_ID] [int] IDENTITY(1,1) NOT NULL,
       [TBot] varchar(10) )
CREATE INDEX tempPWTBots idx
 ON Wellness_eCastEMR_Data.dbo.tempPWTBots(TBot)
PRINT 'Got the Encounter ID and now filling up temp table...'
SET ANSI PADDING OFF
DECLARE @Patient_ID INT, @Encounter_ID INT, @n INT, @max INT,
        @PWCategory Varchar(50), @PWService Varchar(50), @PWCode Varchar(10),
       @PWBenefit Varchar(50),@PWNeeded SmallInt, @PWMaster ID INT, @TDate DATE,
      @PWSortOrder SMALLINT
/* Calling code needs to run these two lines before calling this SQL Code
   Your code needs to populate these variables with the actual patient values */
SELECT @Encounter_ID = 656443
SELECT @Patient_ID = 1004373998
```





```
--- For LIVE Production...
PRINT 'Setting PWHistory flags...'
UPDATE Wellness_DataArchive.dbo.PWHistory
SET Hidden
                    = 1 WHERE
Patient ID
                    = @Patient ID AND
Encounter ID
                    = @Encounter ID
/* End of code needed by calling code */
/* This is a required value for PWHistory */
SELECT @TDate = GetDate()
/* This block will fetch the vitals and INSERT them into PWHistory*/
PRINT 'Inserting first 4 rows of PWHistory...'
INSERT INTO Wellness_DataArchive.dbo.PWHistory
(PWMaster_ID, Patient_ID, Encounter_ID, PWDate, PWNeeded, PWValue, SortOrder, Hidden)
(1,@Patient ID,@Encounter ID,@TDate,0,'Weight:
                                                  ',10,0),
(2,@Patient ID,@Encounter ID,@TDate,0,'Height:
                                                    ,20,0),
(3,@Patient_ID,@Encounter_ID,@TDate,0,'Systolic:
                                                    ,30,0),
(4,@Patient_ID,@Encounter_ID,@TDate,0,'Diastolic: ',40,0)
PRINT 'Now updating first 4 rows of PWHistory with correct vitals values...'
--- Weight
UPDATE PWH
SET PWH.PWValue = E3I.ETL3Input
FROM Wellness DataArchive.dbo.PWHistory PWH
INNER JOIN Wellness eCastEMR Data.dbo.ETL3Input E3I ON PWH.Encounter ID = E3I.Encounter ID
INNER JOIN Wellness eCastEMR Template.dbo.TML3 T3 ON E3I.TML3 ID = T3.TML3 ID
INNER JOIN Wellness eCastEMR Template.dbo.TML2 T2 ON T3.TML2 ID = T2.TML2 ID
INNER JOIN Wellness eCastEMR Data.dbo.ETL1 E1 ON T2.TML1 ID = E1.TML1 ID
WHERE PWH.PWMaster_ID = 1
AND E1.Encounter ID = @Encounter ID
AND T2.TML2 HeaderMaster ID = 33
AND T3.TML3 TBotMaster ID = 424;
--- Height
UPDATE PWH
SET PWH.PWValue = E3I.ETL3Input
FROM Wellness DataArchive.dbo.PWHistory PWH
INNER JOIN Wellness eCastEMR Data.dbo.ETL3Input E3I ON PWH.Encounter ID = E3I.Encounter ID
INNER JOIN Wellness_eCastEMR_Template.dbo.TML3 T3 ON E3I.TML3_ID = T3.TML3_ID
INNER JOIN Wellness_eCastEMR_Template.dbo.TML2 T2 ON T3.TML2_ID = T2.TML2_ID
INNER JOIN Wellness eCastEMR Data.dbo.ETL1 E1 ON T2.TML1 ID = E1.TML1 ID
WHERE PWH.PWMaster ID = 2
AND E1.Encounter_ID = @Encounter_ID
AND T2.TML2 HeaderMaster ID = 33
AND T3.TML3 TBotMaster ID = 423;
```



```
--- Systolic
UPDATE PWH
SET PWH.PWValue = E3I.ETL3Input
FROM Wellness_DataArchive.dbo.PWHistory PWH
INNER JOIN Wellness eCastEMR Data.dbo.ETL3Input E3I ON PWH.Encounter ID = E3I.Encounter ID
INNER JOIN Wellness eCastEMR Template.dbo.TML3 T3 ON E3I.TML3 ID = T3.TML3 ID
INNER JOIN Wellness_eCastEMR_Template.dbo.TML2 T2 ON T3.TML2_ID = T2.TML2_ID
INNER JOIN Wellness eCastEMR Data.dbo.ETL1 E1 ON T2.TML1 ID = E1.TML1 ID
WHERE PWH.PWMaster ID = 3
AND E1. Encounter ID = @Encounter ID
AND T2.TML2 HeaderMaster ID = 33
AND T3.TML3 TBotMaster ID = 425;
--- Diastolic
UPDATE PWH
SET PWH.PWValue = E3I.ETL3Input
FROM Wellness_DataArchive.dbo.PWHistory PWH
INNER JOIN Wellness_eCastEMR_Data.dbo.ETL3Input E3I ON PWH.Encounter_ID = E3I.Encounter_ID
INNER JOIN Wellness eCastEMR Template.dbo.TML3 T3 ON E3I.TML3 ID = T3.TML3 ID
INNER JOIN Wellness eCastEMR Template.dbo.TML2 T2 ON T3.TML2 ID = T2.TML2 ID
INNER JOIN Wellness eCastEMR Data.dbo.ETL1 E1 ON T2.TML1 ID = E1.TML1 ID
WHERE PWH.PWMaster_ID = 4
AND E1.Encounter_ID = @Encounter_ID
AND T2.TML2 HeaderMaster ID = 33
AND T3.TML3 TBotMaster ID = 426;
/* Mow insert rows into tempPWTBots */
PRINT 'Setting all other report values in tempPWTBots...'
INSERT INTO Wellness eCastEMR Data.[dbo].[tempPWTBots]
SELECT CONCAT(TM.TML3 TBotMaster ID, '-', TM.TML3 TBotData) FROM
Wellness_eCastEMR_Data.dbo.ETL3 ET
JOIN Wellness eCastEMR Template.dbo.TML3 TM ON ET.TML3 ID = TM.TML3 ID
JOIN eCastMaster.dbo.TBotMaster TB ON TM.TML3 TBotMaster ID = TB.TBotMaster ID
WHERE ET.Encounter ID
                           = @Encounter ID
```





```
PRINT 'Starting the loop through PWMaster...'
SELECT @n = 5 --- Skip first 4 rows which are Vitals
SELECT @max = COUNT(*) FROM Wellness_DataArchive.dbo.PWMaster
WHILE @n <= @max
  BEGIN
   PRINT 'Looping through PWMaster...'
         --- Load up your variables for the INSERT into PWHistory
          @PWMaster ID
                                         PWMaster ID,
             @PWCategory
                                         Category,
                                  =
             @PWService
                                         Service,
                                 =
             @PWCode
                                         Code,
                                  =
             @PWBenefit
                                         Benefit,
             @PWNeeded
                                         0,
             @PWSortOrder
                                 =
                                         SortOrder
             FROM Wellness_DataArchive.dbo.PWMaster WHERE PWMaster_ID = @n
         --- Now run the INTERSECT of the two SELECTS and if the results is not zero
         --- you have a HIT - so then you INSERT that into PWHistory
      SELECT TBot FROM Wellness_DataArchive.dbo.PWMasterTBots TB WHERE TB.PWMaster_ID = @n
       SELECT TBot FROM Wellness eCastEMR Data.dbo.TempPWTBots TTB
--- Check to see if the INTERSECT resulted in some rows found. You will add a PWHistory
row for every PWMaster record but it's the "PWNeeded" value that is 0/1
      IF @@ROWCOUNT <> 0 -- If you DID find a hit, you want to alert
                           == the patient that this category is needed this year
      BEGIN -- If you get here you want to set @PWNeeded to 1
          SELECT @PWNeeded = 1
      END
      PRINT 'Adding the Patient Wellness Item as "Required" or "Not Required" to
      INSERT INTO Wellness DataArchive.dbo.PWHistory
       (PWMaster_ID,Patient_ID,Encounter_ID,PWDate,PWNeeded,PWValue,SortOrder,Hidden)
       (@PWMaster ID,@Patient ID,@Encounter ID,@TDate,@PWNeeded,'',@PWSortOrder,∅)
--- Now you have ONE row in PWHistory matching every row in PWMaster, with the
--- PWNeeded flags set either 0 or 1
   SELECT @n = @n + 1 -- Bump the counter that pushes through CTracksMaster's rows
  END
PRINT 'While Loop through PWMaster complete...'
```



- ---The magic query that gives you the output for the report
- ---Replace hard coded values with correct variables

SELECT

PWM.PWMaster_ID,PWM.Category,PWM.Service,PWM.Code,PWM.Benefit,PWH.PWValue,PWH.PWNeeded,PWM.SortOrder

FROM Wellness_DataArchive.dbo.PWHistory PWH

JOIN Wellness_DataArchive.dbo.PWMaster PWM

ON PWH.PWMaster_ID = PWM.PWMaster_ID

WHERE Patient_ID = 1004373998 AND Encounter_ID = 656443 AND

(PWH.Hidden IS NULL or PWH.Hidden = 0)

ORDER BY PWH.SortOrder