



Western
Health

Enhancing Diabetes Programs and Services in Western Health

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Regional Manager,

Chronic Disease Prevention and Management

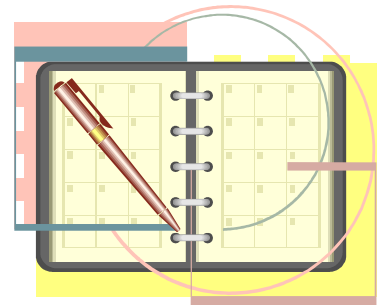
Western Health



Objective

To share WH experiences with quality improvement related to Diabetes Services.

- Background
- Model of Care
- Infrastructure
- Quality Initiatives
 - Quality
 - Access
 - Monitoring

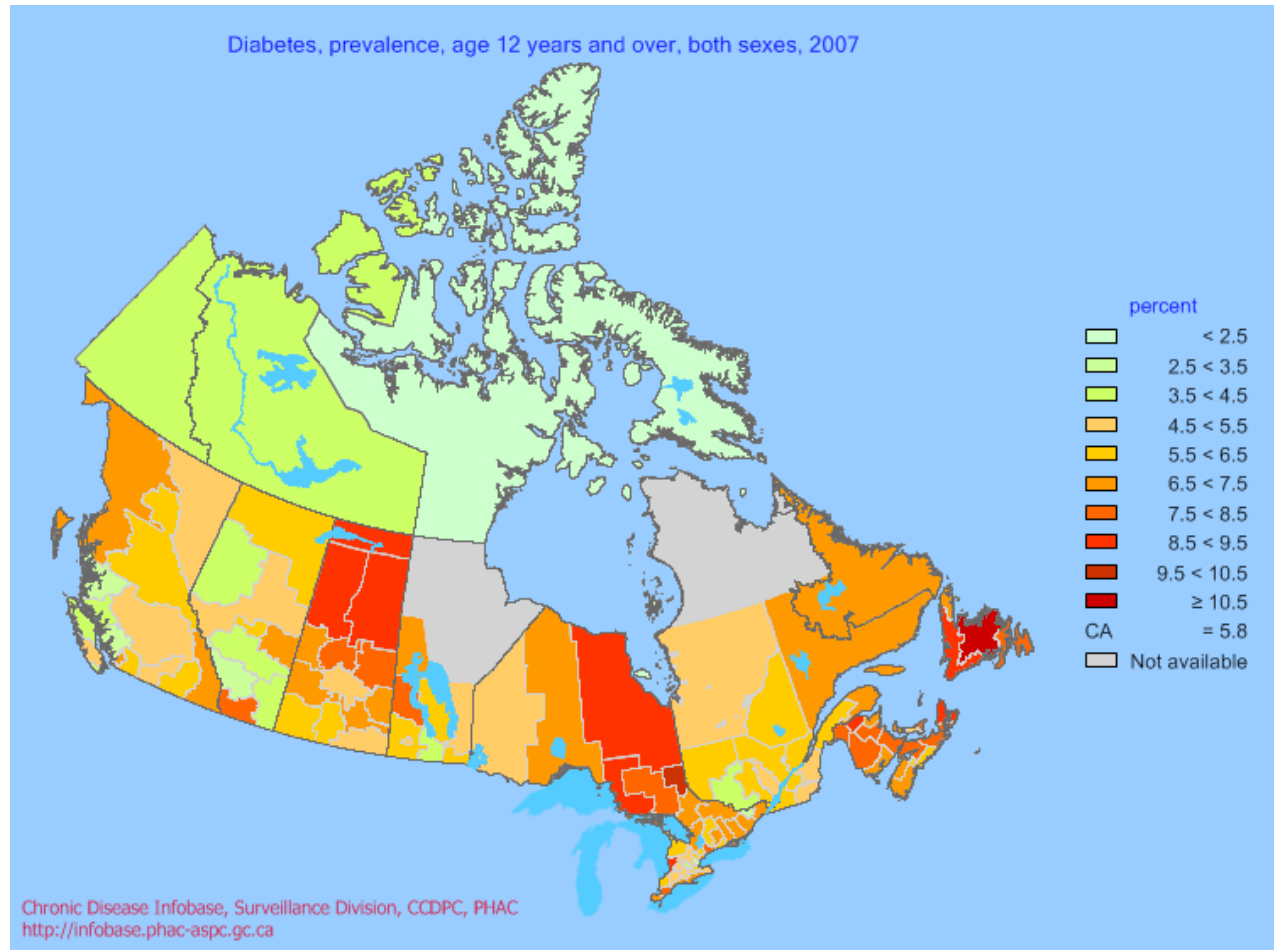


Western Health Strategic Goal 2011-2014

“By March 31, 2014, WH will have enhanced programs and services in diabetes management to respond to the identified concerns of residents in the Western region.”

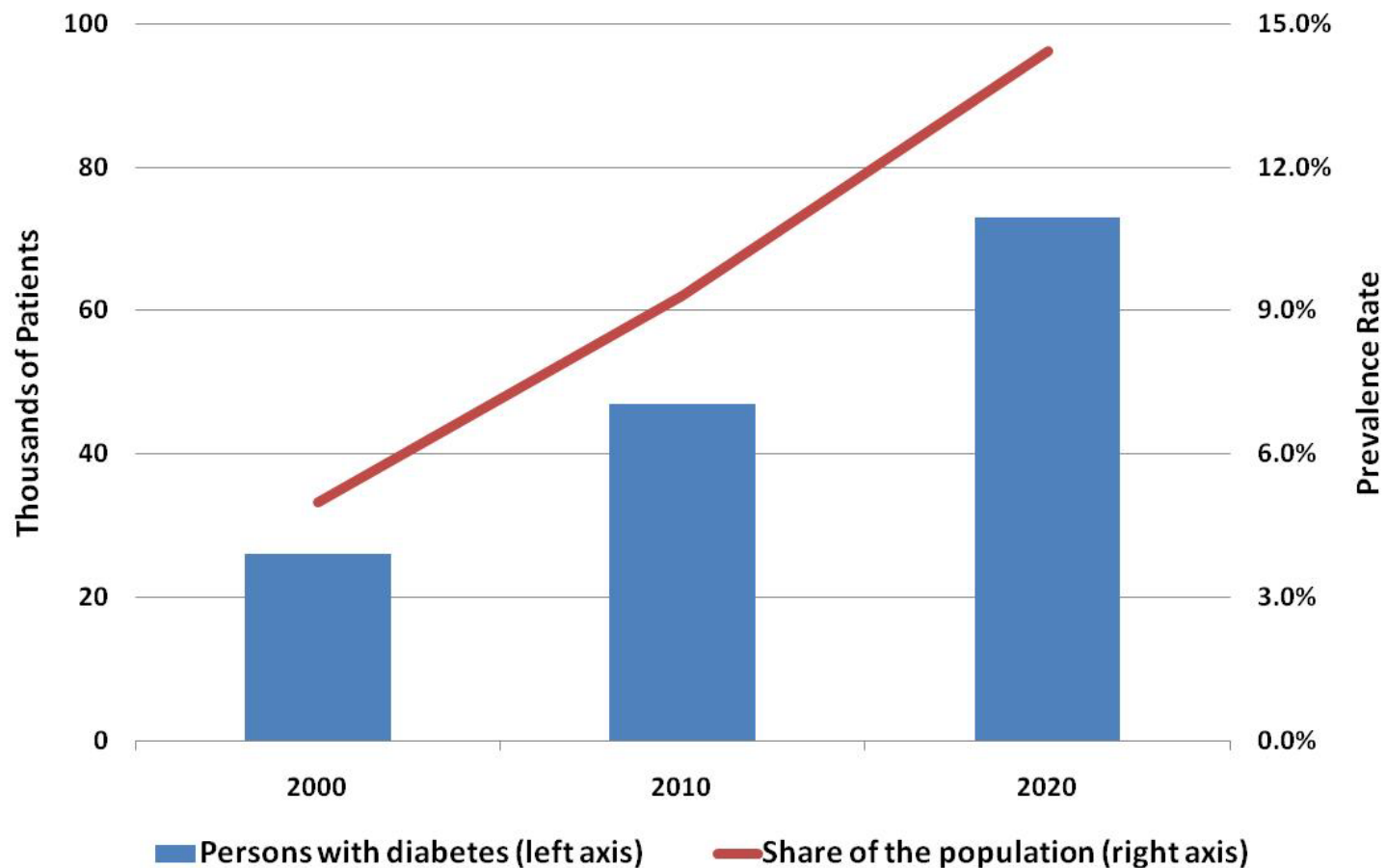
- Diabetes Steering Committee
- Priorities:
 - Improved Access to Diabetes Services
 - Improved Quality of Diabetes Services
 - Improved Monitoring of Diabetes Outcomes

Our starting place....



Type 1 and Type 2 Diabetes in NL

2000, 2010, estimated 2020



- Diabetes Focused
Environmental Scan 2008
- Strategic Plan 2008-2011
(CDPM Focus)
- Community Health Needs
Assessment

Services Provided for Clients with Diabetes - 2011

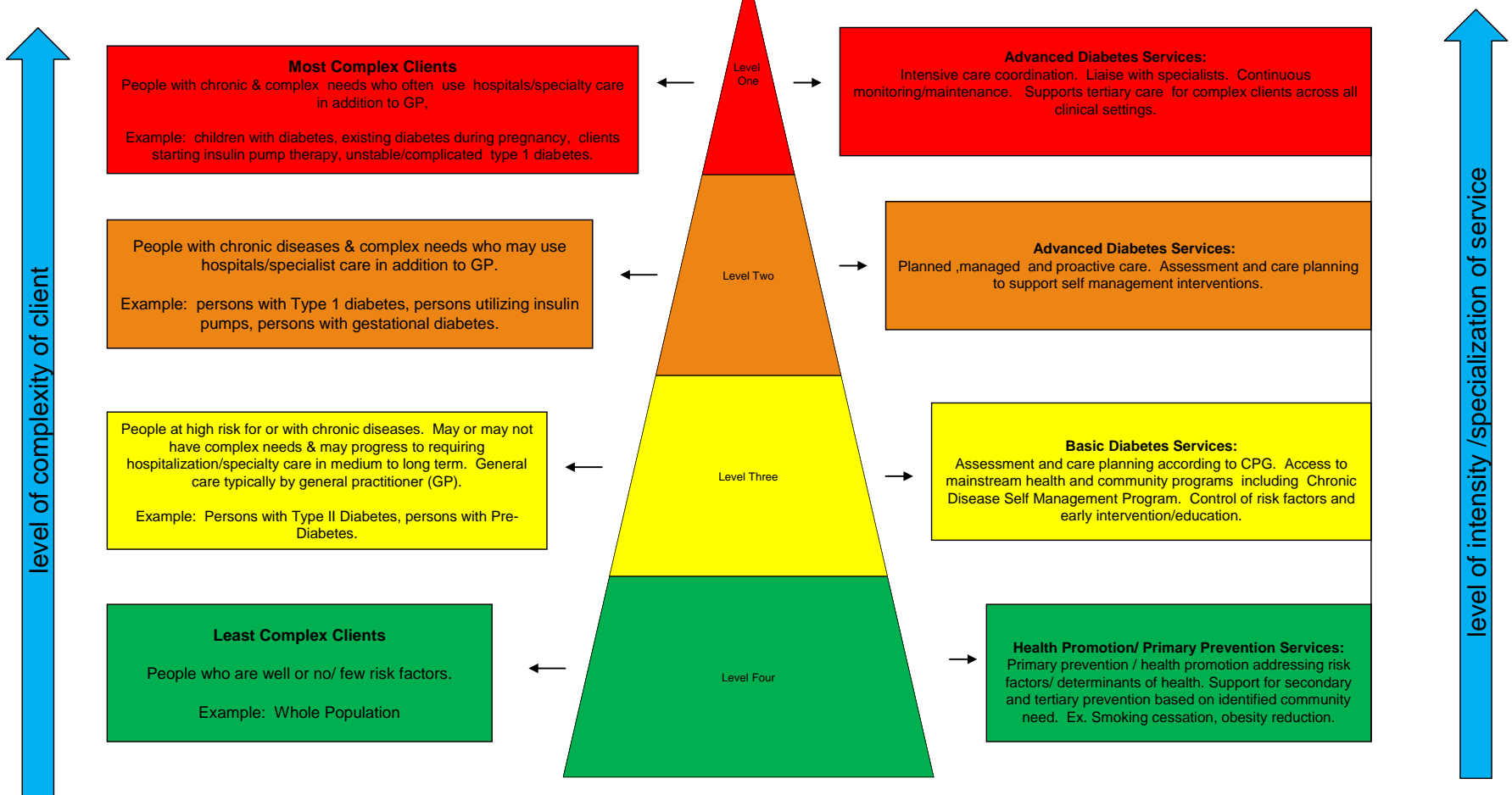
	Diabetes Education Centers	Diabetes Collaboratives
Program Lead	Community Health and Family Services	Health Promotion and Primary Health Care
Managers	Community Health Nurse Manager (nurses/admin) Director of Patient Services (dietitians)	Primary Health Care Managers (2)
Locations	Western Memorial Regional Hospital Sir Thomas Roddick Hospital Sir Charles Legrow Health Care Center	Port Saunders Bonne Bay Deer Lake/White Bay
Type of clients	Basic – very Complex, gestational, peds, type I, Type II, Pumps	Type II
Service Providers	Diabetes Nurse Educators Community Health Nurses Dietitians Admin Support	Physicians Nurse Practitioners Community Health Nurses Dietitians Admin Support
Dedicated or Shared Resources	Most dedicated, except dietitians outside the Corner Brook Site	All Shared

“fragmentation of services, need for dedicated leadership, resources and a program plan”
(Dort, 2008)

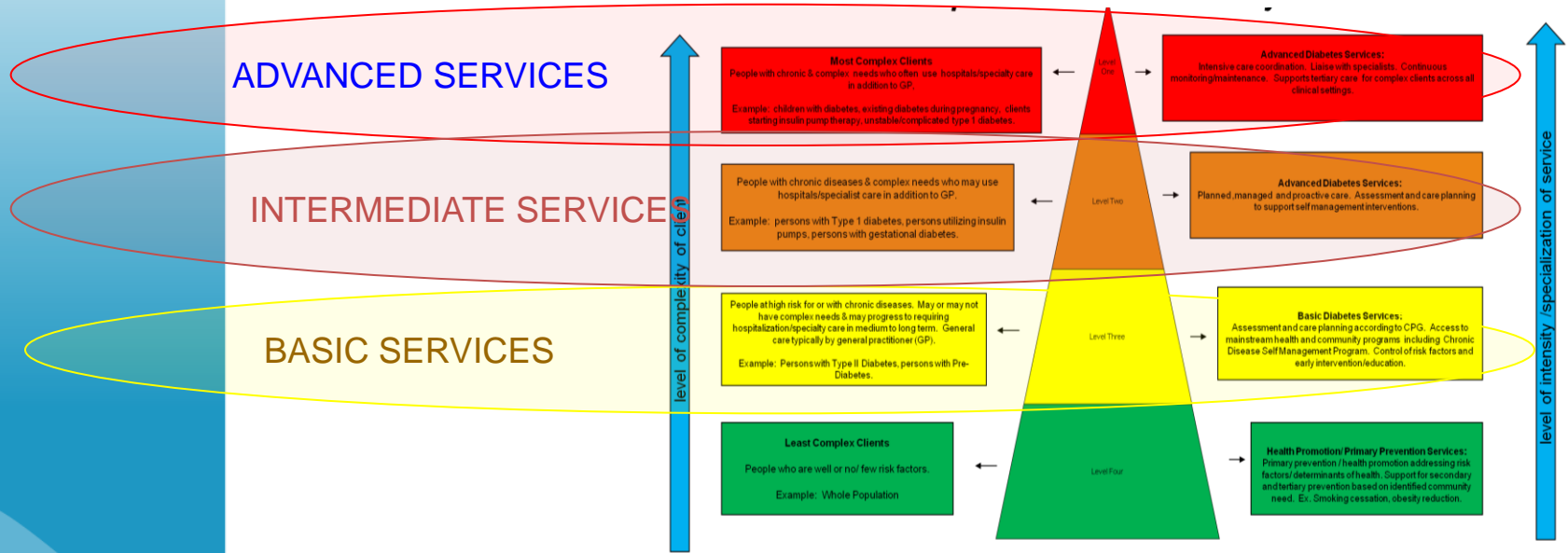
Identifying a New Approach to Care

- To identify a model of care to support creation of a Regional Integrated Diabetes Prevention and Management Program.
 - Build on strengths of current services
 - Develop shared vision across the continuum of care
 - Decrease fragmentation of services
 - More closely align services with needs of communities/ residents
 - Increase access to services for clients
 - Improve client outcomes by improving quality of services

Diabetes Services Pyramid



“Regional Diabetes Services”



- Intensity of services
- Complexity/ Level of client need
- Qualifications/competencies of staff

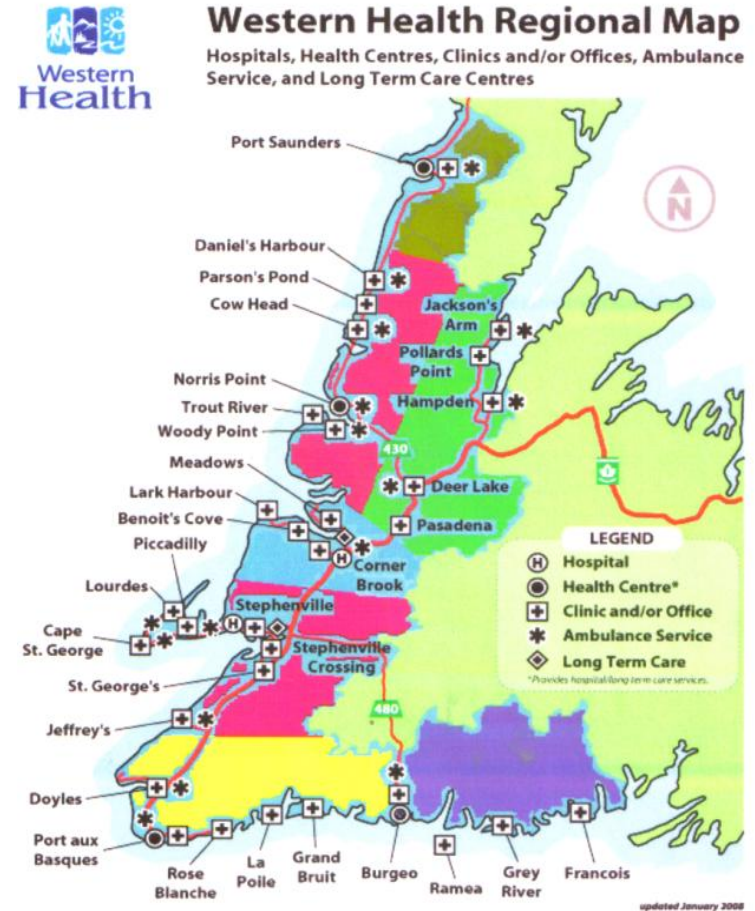
Developing an Infrastructure to Support the Model of Care

- Local Diabetes Service Teams
- Operational Structure
- Management Structure

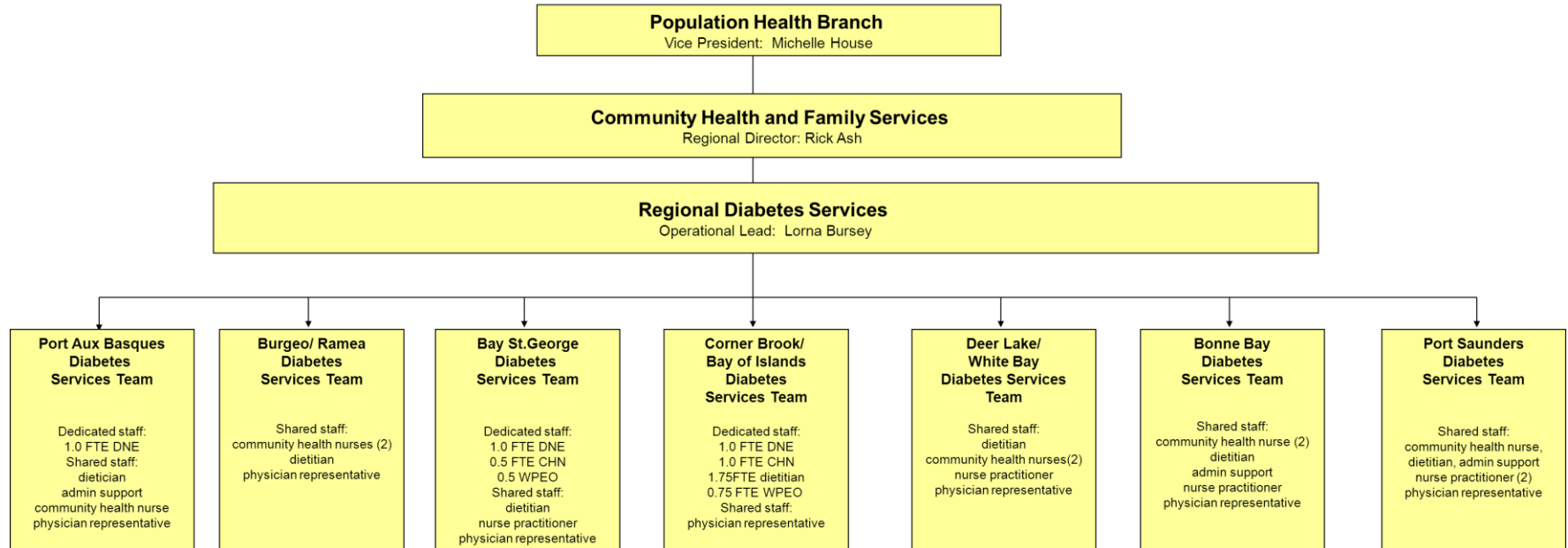


Local Diabetes Service Teams

- 7 teams
- Coordinated by manager
- Membership varies by team:
 - Diabetes Nurse Educator
 - Nurse Practitioner
 - Community Health Nurse
 - Dietitian
 - Admin
 - Physician Rep



Regional Diabetes Services Operational Structure

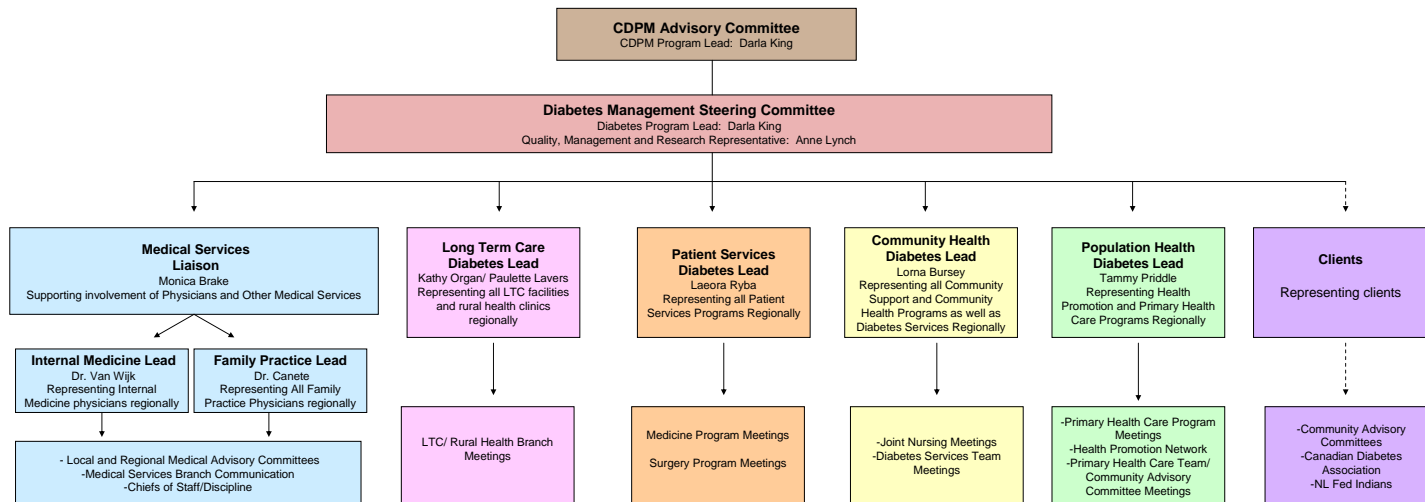


Diabetes Management Structure

Diabetes Management Steering Committee

- Supports the development, implementation and evaluation of a regional integrated approach to diabetes management.
- Program lead supports operational managers in program planning, policy/standard development across the continuum of care.
- Committee is the decision maker. Program lead supports the committee.
- Ensure that we are all working toward the same vision, remembering the big picture, and that the program plans for basic and advanced diabetes services use all resources most effectively across continuum of care.
- Includes leads from all clinical branches - represent services within their program areas and are responsible for linking/coordination and information sharing within their areas.

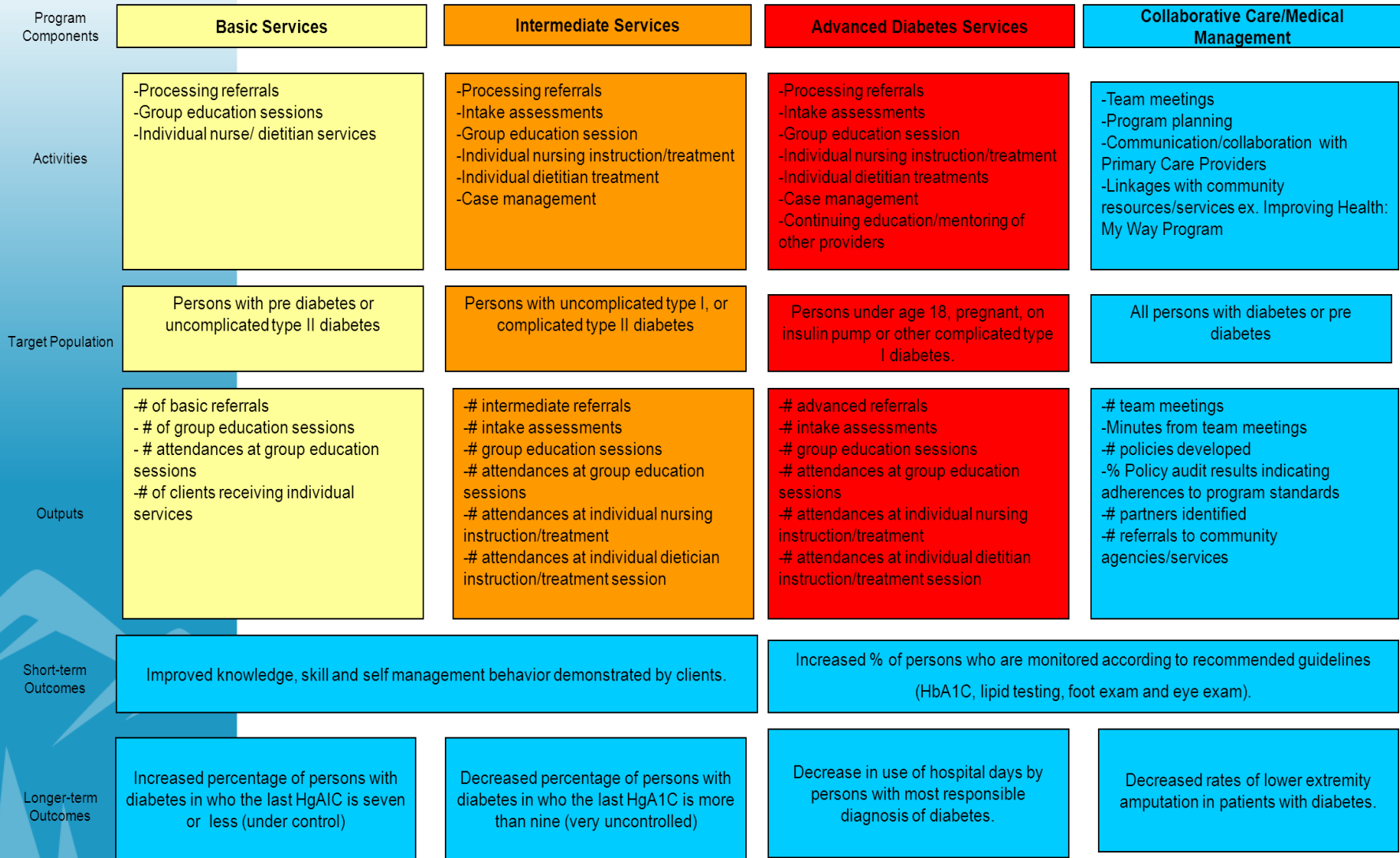
Western Health Integrated Diabetes Management Structure



Goal One: Improve Quality

- Program Plan
- Regionally consistent standards and policies
- Self management / Self management support

Diabetes Services Logic Model



Basic Diabetes Services

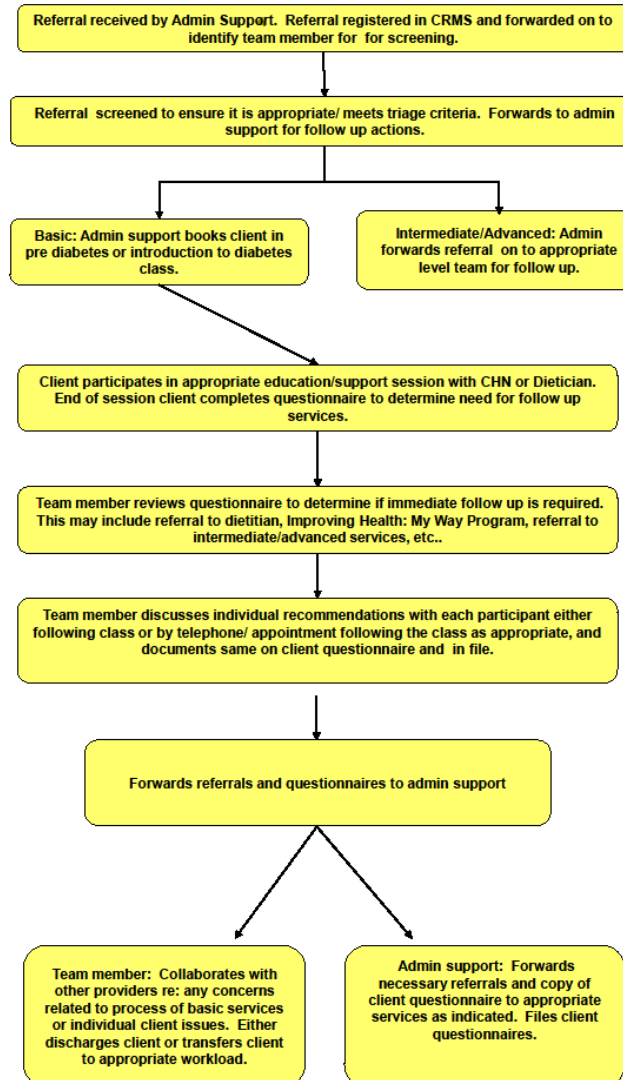
Prediabetes, uncomplicated diabetes

- Group education/support session
 - What is diabetes?
 - Basic self management skills: nutrition, physical activity, self monitoring, etc.
 - Goal setting, client passport
 - Screening for other services

[illegible]

Basic Diabetes Services Program Plan

The following protocol demonstrates the flow of clients through the Basic Diabetes Services Program. Since clients triaged into the basic program are less complicated, an individual intake is not required for all clients. Services are provided by designated staff within the appropriate diabetes team.



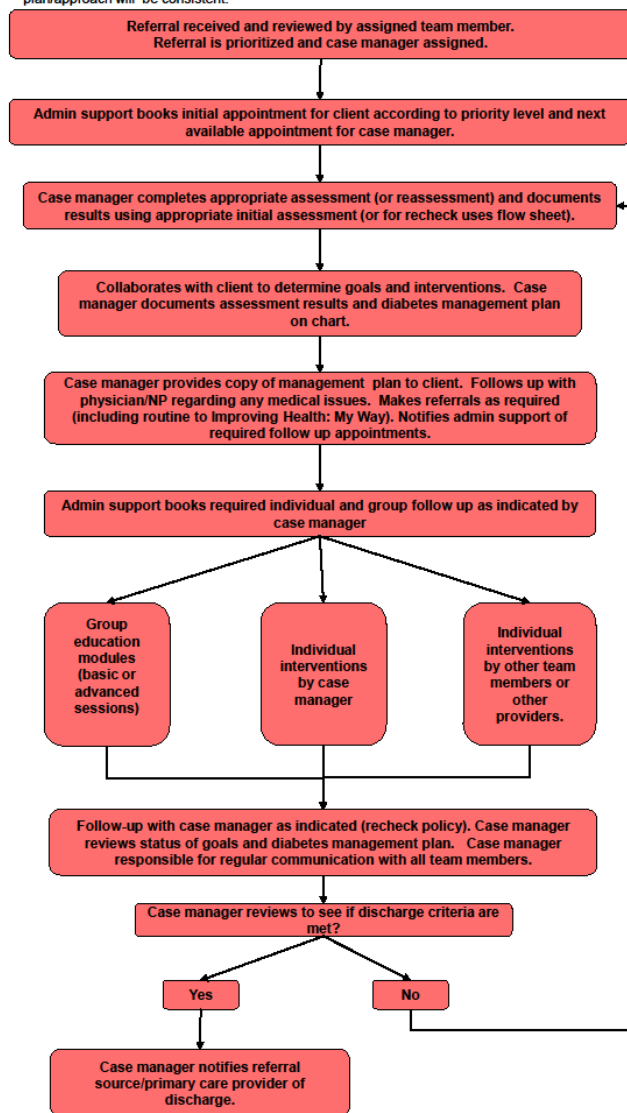
Intermediate/ Advanced Services

More complex clients

- Individualized Intake/Assessment by Case Manager
 - Health Status
 - Diabetes Specific Health Assessment
 - Self Care Behaviors
 - Insulin/medications
 - Hypo/hyperglycemia
 - Blood glucose monitoring
 - Nutrition
 - Physical Activity
 - Psychosocial assessment
- Development of treatment plan
 - Goal setting/passport
 - Follow-up appointments with nurse/dietitian/nurse practitioner
 - Referral to class
 - Referral to other services within Western Health (i.e., mental health)

Intermediate/ Advanced Diabetes Services Program Plan

The following protocol demonstrates the flow of clients through Intermediate and Advanced Diabetes Services. Since level 1 & 2 clients are complicated, an individual intake is used. Service providers may be different depending on level of need of the client but the program plan/approach will be consistent.



Qualifications

- Diabetes Qualifications
 - Professional Designation
 - Certified Diabetes Educator
 - Insulin Pump Certification
 - Insulin Dosage Adjustment Certification
- Each position reviewed
- Type of Service (Basic, Intermediate, Advanced)
 - Qualifications required
 - Time dedicated to Diabetes Services
 - Case Management vs. Discipline Specific Treatment

Inpatient Services

- Policies same across all setting
- Basic teaching done by inpatient nurses/dietitians
- Support from Diabetes Services for more complex clients (referral policy)

Consistent Policies and Standards

- Referral
- Intake
- Response time
- Education and support sessions
- Initial assessment
- Treatment planning
- Diabetes passport
- Depression screening
- Blood pressure monitoring
- Insulin initiation
- Missed apt
- Consultation with pharmaceutical
- Collaborative practice
- Recheck
- Documentation
- Discharge policy
- Self monitoring blood glucose
- Basic inpatient diabetes teaching

Goal Two: Improve Access

- Telediabetes
- Improving Health: My Way
- Awareness/ Uptake

Tele diabetes Utilization Dec 2012-2013

Host Site (ie. Service Provider Location)	Diabetes Nurse New Patient	Diabetes Nurse Follow up	Dietitian New Patient	Dietitian Follow up	TOTAL
Stephenville Diabetes Services	10	8	0	0	18
Bay St. George	0	0	0	1	1
Corner Brook – Western Memorial	3	1	0	0	4
Bonne Bay Heath Center	0	0	0	16	16
Port Saunders - Rufus Ginchard	0	0	1	0	1
Burgeo – Cader Health Care Center	0	0	2	1	3
TOTAL	13	9	1	18	43

Referral Site (i.e. Location of Client)	Dietitian	Nurse	Total
Ramea - Ramea Medical Clinic	3	8	11
Francois – Francois Clinic	1	0	1
Burgeo - Calder Health Center	0	10	10
Deer Lake - Deer Lake Office	0	3	3
Bonne Bay Health Center	1	1	2
Port Saunders - Rufus Ginchard Health Center	16	0	16
TOTAL	21	22	43

Managing Diabetes



*"I made a plan. It wasn't easy...
"But I did it. So can you."*

People who learn to manage their diabetes have fewer health problems from diabetes years later. Learn to manage your diabetes now. Your local diabetes team can help.

Bay St. George (709) 643-8747
Bonne Bay (709) 458-2211 ext. 260
Burgeo (709) 886-1550
Corner Brook (709) 637-5388

Deer Lake (709) 635-7830
Deer Lake (709) 635-7831
Port aux Basques (709) 695-4625
Port Saunders . . . (709) 861-9126 ext. 44



Call the Diabetes Services Team nearest you.

If there isn't a Diabetes Services Team in your community, you may be able to link with the team by way of telehealth.

Ask us for the details.



- 1 Bay St. George**
(709) 643-8747
- 2 Bonne Bay**
(709) 458-2211
Extension 260
- 3 Burgeo**
(709) 886-1550
- 4 Corner Brook**
(709) 637-5388
- 5 Deer Lake**
(709) 635-7830
(709) 635-7831
- 6 Port Saunders**
(709) 861-9126
Extension 44
- 7 Port aux Basques**
(709) 695-4625



Our Vision

The vision of Western Health is that the people of Western Newfoundland have the highest level of health and well being possible - Your Health Our Priority.

Managing Diabetes



***"I made a plan. It wasn't easy...
But I did it. So can you."***

Regional Diabetes Services



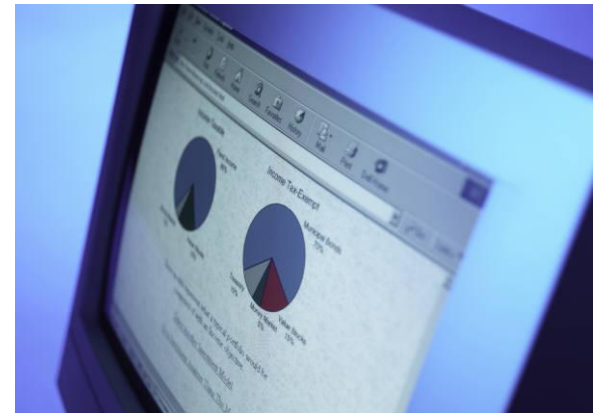
Goal Three: Improve Monitoring

- Monitoring access
 - Wait time
- Monitoring Utilization of Services
 - Workload measurement
- Monitoring of Diabetes Outcomes
 - Diabetes Database

Diabetes Database

- Monitor trends/outcomes related to Diabetes/ Prediabetes prevalence
- Monitor quality of care
- Support quality improvements

[Diabetes Database](#)



Diabetes FlowSheets

ADULT DIABETES FLOWSHEET
Regional Diabetes Services

Name of Client		DOB D/M/Y	MCP	Primary Care Provider	
Address		Telephone: D/M/Y	Date of Diagnosis D/M/Y	DKA Y N	HHS Y N
Type of Diabetes <input type="checkbox"/> Type 1 <input type="checkbox"/> IGT <input type="checkbox"/> Type 2 <input type="checkbox"/> IFG		Height	Co morbidities:	Allergies Y N	

Every visit	BP	Date					
		Weight/BMI					
		Waist Circumference					
	Glycemic Control	BP					
		BP Med					
		Fasting					
		2Hr					
		A1C					
		SMBG Frequency: Y N #/day		/	/		
		Use Results? Yes/No					
3 to 6 months	Treatment	Appropriate technique? Yes/No					
		Diet only? Yes/No					
		Medication: Type/dosage/frequency					
		TDD (Total Daily Dose)					
		Nutrition score					
		Exercise score (1-5)					
		Hypoglycemia Frequency (x/wk)					
		Hypoglycemia-appropriate treatment Yes/No					
		Annual or as indicated	Lipids	TC:HDL			
				LDL			
Renal	TG						
	Lipid Med						
Self-Management Behaviours	ACR						
	eGFR						
	ECG (date)						
	Foot Risk Assessment Score						
	Smoking (Yes No Quit)						
	Referral to Smoker's Helpline?						
	Flu shot (date)						
	Pneumovax (date)						
Self-Management Behaviours	Family physician (date of last visit)						
	Specialist (date of last visit)						
	Retinal eye exam (date of last visit)						
	Dental (date of last visit)						
	Depression score						
	Referral to primary care physician/mental health?						

Diabetes Services Provider: _____ ☐ Nurse ☐ Dietitian ☐ Primary Care Provider

PREGNANCY DIABETES FLOWSHEET
Regional Diabetes Services

Name of Client		DOB D/M/Y	MCP	Primary Care Provider	
Address		Telephone: D/M/Y	Date of Diagnosis D/M/Y	Current Diagnosis: <input type="checkbox"/> GDM <input type="checkbox"/> IGT of pregnancy	Wks gestation at time of diagnosis:
Allergies Y N	Height	LNMP EDD	Comorbidities:	Pre-existing Diagnosis: <input type="checkbox"/> Type 1 <input type="checkbox"/> IGT <input type="checkbox"/> Type 2 <input type="checkbox"/> IFG	

Every visit	BP	Date			
		Wks Gestation			
		Wt.			
		Weight change			
	Glycemic Control	Dipstick for protein in urine			
		BP			
		BP Med			
		Summary of BG based on 4 day food record			
		50g oral glucose screen 1hr			
		75g oral glucose screen 1hr/2hr			
As Required	Treatment	A1C (monthly)			
		SMBG Frequency: Y N #/day		/	/
		Use Results? Yes/No			
		Appropriate technique? Yes/No			
		Diet only? Yes/No			
		Insulin: Type/dosage/frequency			
		TDD (Total Daily Dose)			
		Nutrition score			
		Exercise score			
		Hypoglycemia Frequency (x/wk)			
Self-Management Behaviours	Self-Management Behaviours	Hypoglycemia-appropriate treatment Yes/No			
		Foot Risk Assessment Score			
		Smoking (Yes No Quit)			
		Referral to Smoker's Helpline?			
		Flu shot (date)			
		Family physician (date of last visit)			
		Specialist (date of last visit)			
		Retinal eye exam (date of last visit)			
Dental (date of last visit)					
Depression score					
Referrals to primary health care provider?					

Diabetes Services Provider: _____ ☐ Nurse ☐ Dietitian ☐ Primary Care Provider

Electronic Trending Report

Generated by Dr. George KIDANE

Pregnancy Diabetes Trending Report

June 1, 2013 - January 1, 2014

CURRENT DEMOGRAPHICS		DIABETES HEALTH STATUS	
Medical Case Plan	538456	Current Medical Problems	Arthritis, Pain
Name of Client	John Doe	Diabetes Classification	Pregnancy Impaired Glucose Tolerance
Address of Client	612 Cedar Ave Boulder, CO 80501	Date of Diagnosis	Newly diagnosed within the last 90 days
Date of Birth	10/07/77	History	Diabetic ketoacidosis (DKA)
Date of MMR	DATE888		Hyperosmolar hyperglycemic state (HHS)
Reported Due Date	DATE888		Gestational Diabetes
		Abstinence	Yes
		Meds, Vitamins, Drug Visit	Pre Pregnancy Weight: 54 KG

Date	Date	Date	Date
Pregnancy Initial	Pregnancy Initial	Pregnancy Initial	Pregnancy Initial
Gilmore, Mary SS	Stanford, Kerry CDE	Brown, Charles SS	Kidane, George, DO

VITAL SIGNS AND WEIGHT INDICATORS

Gestation Week at Time of	2	7	9	12
Current Weight (kg)	55	55	54	55
Height (cm)	159	159	159	159
Blood Pressure	99/69	99/69	99/69	99/69
Blood Pressure Medications	No	No	No	Yes
LAB INDICATORS				
Lab Hb A1C Results	8.8% date	8.8% date	8.8% date	8.8% date
Oral Glucose Tolerance Test (OGTT) 1hr	166 date	166 date	166 date	166 date
Oral Glucose Tolerance Test (OGTT) 2hr	166 date	166 date	166 date	166 date
Oral Glucose Tolerance Test (OGTT) 3hr	166 date	166 date	166 date	166 date
DIABETES ASSESSMENT				
Compliance	Never as prescribed	Occasionally as prescribed		Rarely as prescribed
Hyperglycemia Frequency	Several times per month	Several times per month	Several times per month	Several times per week
Hyperglycemia Treatment Carries (carries proper treatment)	No	Yes	Yes	No
Blood Glucose Monitoring	Appropriate 1 hr	Appropriate 1 hr	Appropriate 1 hr	Appropriate 1 hr
Blood Glucose Practice	Using the device	Using the device	Using the device	Using the device
Client Foot Risk Score	Low	Low	Low	Increased
Foot Score	Low	Low	Low	Increased
SELF-CARE BEHAVIORS				
Smoking	Yes	Yes	Yes	Yes
No Vaccination Date	date	date	date	date
Pregnancy Date	date	date	date	date
Primary Care Provider Visit Date	date	date	date	date
Specialist Visit Date	date	date	date	date
Pre-Specialist Visit Date	date	date	date	date
Specialist Visit Date	date	date	date	date
Medication Activity	Regular but less than recommended	Regular but less than recommended	Regular but less than recommended	Regular but less than recommended
Medication Activity	Regular but less than recommended	Regular but less than recommended	Regular but less than recommended	Regular but less than recommended
Prescribed Diet	Yes	Yes	Yes	Yes
Diet Type	Low Fat	Low Fat	Low Fat	Low Fat
Nutrition Score	Follows > 4 days/week	Unstable/unsettled	Unstable/unsettled	Unstable/unsettled
Medication	Medication 1	Medication 1	Medication 1	Medication 1
	Medication 2	Medication 2	Medication 2	Medication 2
	Medication 3	Medication 3	Medication 3	Medication 3
	Medication 4	Medication 4	Medication 4	Medication 4
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Date/Time: 000 000

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Outcomes

- Organizational Outcomes
 - Structure
 - Utilization
- Team outcomes
 - Primary Care Resources and Supports for Self Management
- Client outcomes
 - Patient assessment of Chronic Illness Care

Primary Care Resources and Supports for Self Management (PCRS)

	Corner Brook	Burgeo	Port Aux Basques	Port Saunders	Bay St. George	Deer Lake	Norris Point	Overall Average
Patient Supports Questions								
1. Individualized assessment of patient's self-management educational needs.	-1	3	5	4	6	4	2	3.2
2. Self-management education.	4	5	3	3	4	0	1	2.5
3. Collaborative goal setting	4	3	4	2	5	1	2	2.3
4. Problem solving skills	2	6	3	3	5	2	1	3.3
5. Emotional health	3	7	4	2	7	7	1	4.5
6. Patient involvement in decision making	5	7	2	3	5	-1	3	3.2
7. Patient social support	0	2	2	2	4	0	2	1.4
8. Link to community resources	0	3	2	1	1	1	0	0.9
Average for Patient Support Questions	2.1	4.5	3.2	2.5	4.7	1.8	1.5	2.7
Organizational Support Questions								
1. Continuity of Care	3	5	3	3	4	2	-1	2.1
2. Coordination of referrals	-1	6	3	1	3	-1	0	1.2
3. Ongoing quality improvement	3	7	6	5	5	3	5	4.5
4. System for documentation of self management support service	2	3	4	1	3	2	1	2.2
5. Patient input	4	5	7	5	3	5	5	4.3
6. Integration of self management support in primary care	1	5	6	4	5	1	3	3.5
7. Patient care team	2	3	1	0	4	-1	0	0.7
8. Physician, Team and Staff self management education and training	4	9	7	4	1	3	3	4.1
Average for Organizational Support Questions	2.2	5.3	4.6	2.8	3.6	1.8	2.0	2.8
Overall Average	2.2	4.9	3.9	2.7	4.1	1.8	1.8	2.8

Patient Assessment of Chronic Illness Care

Over the past 6 months, when I received care from my local diabetes team, I was:	Average Score	PACIC Category Scores	PACIC Summary Score
1. Asked for my ideas when we made a treatment plan.	3.77	Patient Activation Score 3.77	Summary Score 4.10
2. Given choices about treatment to think about.	3.68		
3. Asked to talk about any problems with my medicines or their effects.	3.84		
4. Given a written list of things I should do to improve my health.	3.81	Delivery System/ Practice Design Score 4.41	
5. Satisfied that my care was well organized.	4.70		
6. Shown how what I did to take care of myself influenced my condition.	4.63		
7. Asked to talk about my goals in caring for my condition.	4.35	Goal Setting/ Tailoring Score 4.01	
8. Helped to set specific goals to improve my eating or exercise.	4.58		
9. Given a copy of my treatment plan.	3.56		
10. Encouraged to go to a specific group or class to help me cope with my diabetes.	3.26		
11. Asked questions, either directly or on a survey, about my health habits.	4.44	Problem Solving/ Contextual Score 4.32	
12. Sure that my team thought about my values, beliefs, and traditions when they recommended treatments to me.	4.28		
13. Helped to make a treatment plan that I could carry out in my daily life.	4.56		
14. Helped to plan ahead so I could take care of my condition even in hard times.	4.50		
15. Asked how diabetes affects my life.	4.00	Follow-up / Coordination Score 3.94	
16. Contacted after a visit to see how things were going.	3.69		
17. Encouraged to attend programs in the community that could help me	3.55		
18. Referred to a dietitian, health educator, or counselor.	4.41		
19. Told how my visits with other types of doctors, like an eye doctor or other specialist, helped my treatment.	3.73		
20. Asked how my visits with other doctors/health professionals were going.	4.19		

Client Satisfaction

	Strongly Disagree (%)	Disagree (%)	Neutral (%)	Agree (%)	Strongly Agree (%)	Doesn't apply (%)	No response (%)	Average (%)	Strongly agree or agree (%)
1. The Diabetes Service Providers were knowledgeable and skilled.	3.3	0.0	0.0	30.0	63.3	0.0	3.3	4.55	96.5
2. The Diabetes Service Providers treated with respect and courtesy.	3.3	0.0	0.0	26.7	66.7	0.0	3.3	4.59	96.6
3. Appointments were scheduled easily and conveniently.	3.3	0.0	3.3	23.3	63.3	3.3	3.3	4.54	92.9
4. The diabetes passport was helpful to me.	3.3	0.0	10.0	20.0	20.0	36.7	10.0	3.63	87.5
5. The diabetes management plan was helpful to me.	3.3	0.0	6.7	33.3	36.7	13.3	6.7	4.25	87.5
6. The diabetes group education sessions were helpful.	3.3	0.0	0.0	33.3	26.7	23.3	13.3	4.26	94.7
7. The individual appointments with my providers were helpful.	3.3	0.0	0.0	30.0	53.3	10.0	3.3	4.50	96.2
8. My overall experience with Diabetes Services was a good one.	3.3	0.0	0.0	26.7	56.7	6.7	6.7	4.54	96.2
9. Attending Diabetes Services has helped me to manage my diabetes.	3.3	0.0	3.3	36.7	43.3	6.7	6.7	4.35	92.3

Questions



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Chronic Disease Prevention and Management Network

