



San Angelo Telehealth Conference November 2005





AGENDA

- About PHD Medical
- The Televisit Platform
- Televisit 100 for Home Ventilation
- Televisit Demonstration
- Questions & Answers

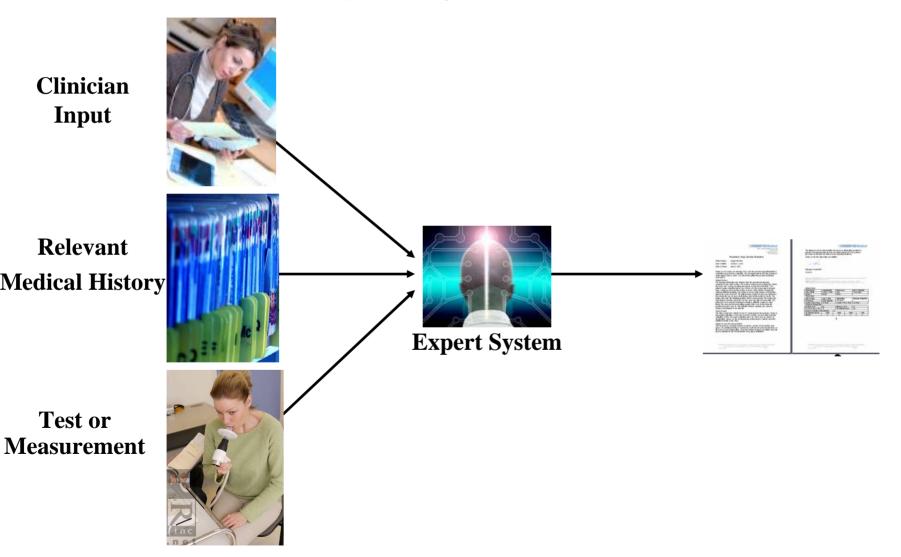
PHD Medical Inc.

- PHD Medical works in partnership with healthcare stakeholders, designing products and services to meet the specific needs of the home diagnostic and telemedicine markets.
- Through technical and clinical expertise we bring complete solutions to market that facilitate outpatient care and management.

PHD Products & Services

- Expert System Platform
- Televisittm Platform

Expert System Platform



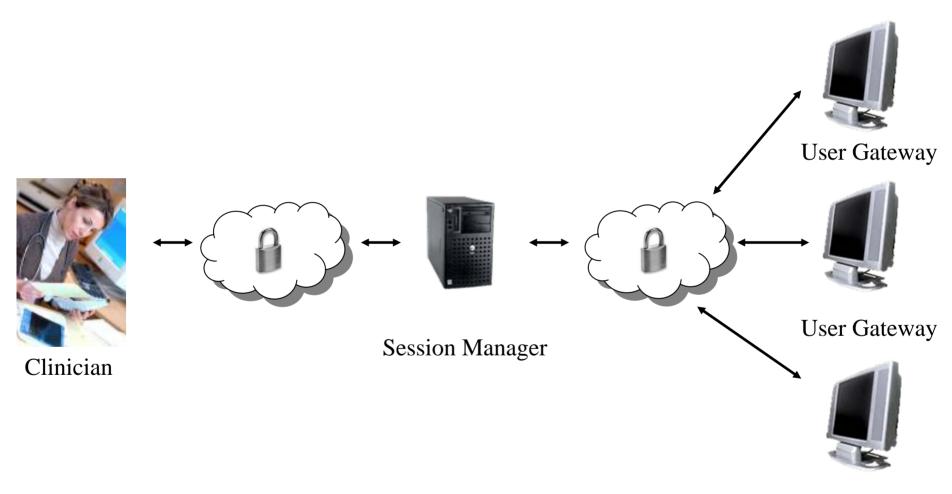


Expert System in Use

Pediatric Obstructive Sleep Apnea Diagnosis

- <u>Technology:</u> Expert System
 - Licensed expert system which allows diagnostics to be executed centrally
 - Three clinic locations in Montreal
 - Installed at The Montreal Children's Hospital
 - with outreach center in Gatineau, Quebec

Televisit Platform



User Gateway

Televisit Platform

- The Televisit system brings increased access to specialized healthcare services into the patient's home and/or local community health center.
- Patients in remote settings are able to remain at home, thus avoiding expense, travel, and social isolation to stay in a distant hospital.

Televisit Platform

- The Televisit system is a bi-directional communications and clinical data collection platform that enables healthcare professionals to conduct remote medical check-ups on patients who have limited mobility or live in remote locations
- The platform integrates clinical data management and scheduling software, videoconferencing capabilities and remote medical device data connectivity
- Televisit 100 has been configured for:
 - Homecare patients suffering from respiratory failure
 - Elderly patients with loss of independence

Televisit 100 for Home Ventilation PNAVD Background

PNAVD Program:

- National program that provides specialized services to ventilator-assisted outpatients (adult and pediatric) across Quebec
- Based at the McGill University Health Centre (MUHC), Montreal

Goal:

• Empower patients, their families and local community health centers with knowledge and tools to help patients in remote settings to remain at home

Why PNAVD Chose Televisit:

- Improved delivery model for ultra-specialized services
- Increase access without increasing costs
- Empower physically fragile patients with limited mobility
- Reduce number of on-site visits
- Lower utilization of inpatient hospital and clinician services
- Improved management of clinician time
- Increase access of services to new patients

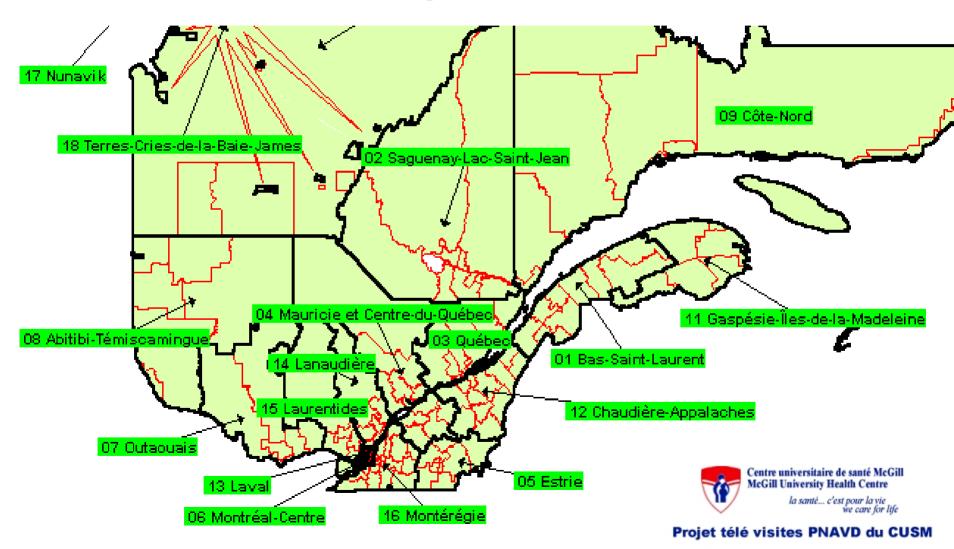






Televisit 100 for Home Ventilation

Patient Population in Quebec





Televisit 100 for Home Ventilation

Project History and Status

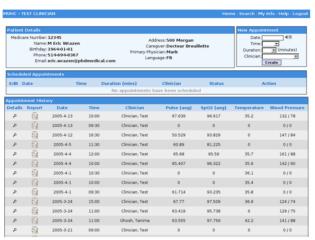
- Project development initiated by MUHC/PNAVD in fall 2003
- Final project plan submitted in fall 2005
- Jointly funded by provincial and federal health ministries, McGill University, and private benefactors
- All home ventilated patients in Quebec will have a Televisit terminal
 - 158 patients currently on home-ventilation
 - 100+ additional patients on waiting list
- Allowing one tertiary care facility to manage remote patients across an area over 2 x the size of Texas
- First units to be deployed in January 2006



Televisit 100 Components



Clinician Terminal



Management Software



Device Gateway



Patient Terminal

AND MedicalPHD Medical

Televisit 100 Terminals



Clinician Terminal:

- Point and click control
- Multi-functional, integrates with existing technology
- No IT skills required

Patient Terminal:

- Integrated medical devices
- Focus on interaction with clinician
- No medical or technical skill required

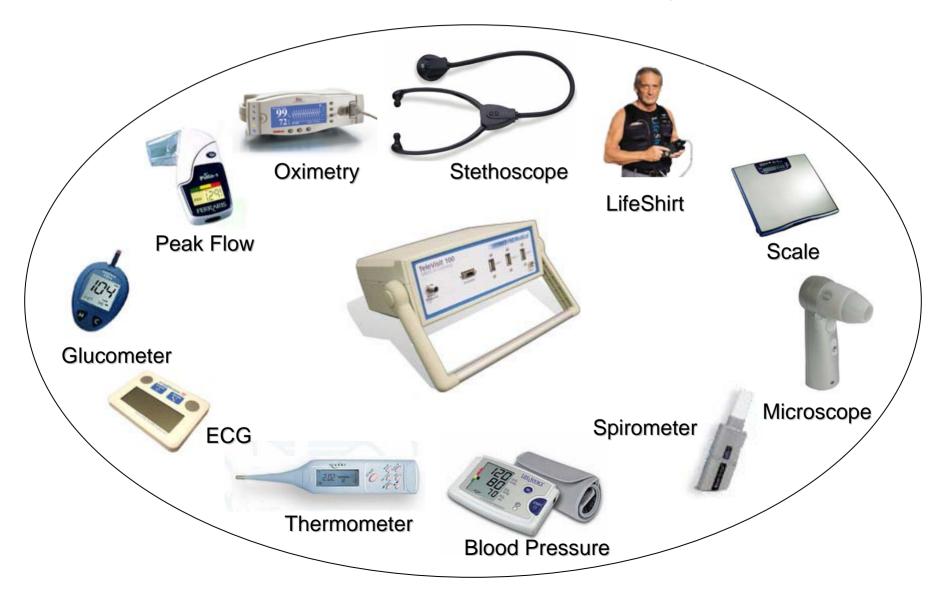


Medical Device Gateway



- •Point of contact between clinician and patient (clinician controlled)
- Integrated devices
 - •Blood Pressure, Pulse Oximetry
- External devices
 - •Stethoscope, Microscope, Thermometer
- •Realtime clincial data transfer
- Self-managed troubleshooting
- •Flexible design accepts data from clinical devices with digital output (RS-232, USB)

Medical Device Gateway



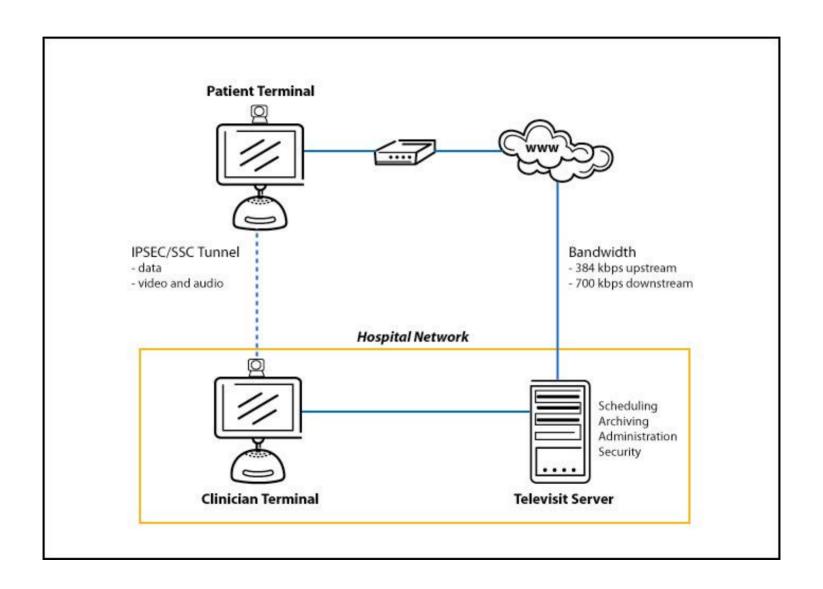
Televisit Management Software



Patlent Details Medicare Number: 12345 Mame: M Eric Wrazen Birthday: 1964-01-01 Phone: 514-694-0367 Emai: eric.wrazen@phdmedical.com				Care Primary Phys	Address: 500 Morgan Caregiver: Docteur Brouillette Primap Physician Mark Language: FR			New Appointment Date: Time: Duration: Clinician: Create	
Schedu	ıled Appoiı	ntments					_		
Edit	Date		Time	Duration (mins)	Clinician	Status	A	tion	
				No appointments h	ave been schedule	ed			
appoint Details	ment Histo Report	ory Date	Time	Clinician	Pulse (avg)	Sp02 (avg)	Temperature	Blood Pressure	
۾		2005-4-13	10:00	Clinician, Test	67.639	96.617	35.2	132 / 78	
۾	-	2005-4-13	09:30	Clinician, Test	0	0	0	0/0	
م	-	2005-4-12	16:30	Clinician, Test	50.529	93.829	0	147 / 84	
٩		2005-4-5	11:30	Clinician, Test	60.89	81.225	0	0/0	
م	-	2005-4-4	12:00	Clinician, Test	65.68	95.59	35.7	161/88	
م	-	2005-4-4	10:00	Clinician, Test	65.407	96.322	35.9	142 / 90	
م	-	2005-4-1	10:30	Clinician, Test	0	0	36.1	0/0	
٩		2005-4-1	10:00	Clinician, Test	0	0	35.4	0/0	
ρ	-	2005-4-1	09:30	Clinician, Test	61.714	93.235	35.8	0 / 0	
م	-	2005-3-24	15:00	Clinician, Test	67.77	97.509	36.9	124 / 74	
م	-	2005-3-24	11:00	Clinician, Test	63.419	95.738	0	129 / 75	
م	-	2005-3-24	11:00	Ghosh, Tanima	63.555	97.759	42.2	141/88	
م	-	2005-3-21	09:00	Clinician, Test	0	0	0	0/0	

- Realtime interaction with remote patients
- Clinical data streamed realtime and saved in patient history
- Multiple types of data formats in patient history (images, audio, text)
- Full appointment calendar and scheduler
- Integrates with existing eHealth records systems
- Multi-lingual interface
- Manage users, terminals, and clinics without IT skills

Televisit Network Structure



Televisit Network / Administration

Network Structure

- Open architecture
 - •configurable and scalable: allows for rapid expansion
- •Integrates with the existing communications infrastructure
- •Secure environment: all data is encrypted with IPSEC or SSL
- Designed to comply to HL7 standards

System Administration

- •Once configured, no IT skills required to manage the Televisit network:
 - •Create and manage user and clinic profiles
 - •Assign, re-assign and monitor terminals remotely
 - Troubleshoot terminals remotely

HealthCare Institutions

- •Effectively manage remote outpatients
- •Improved delivery of care
- •Facilitate timely health interventions
- •Streamlined Communications
- •Flexible, scalable and secure



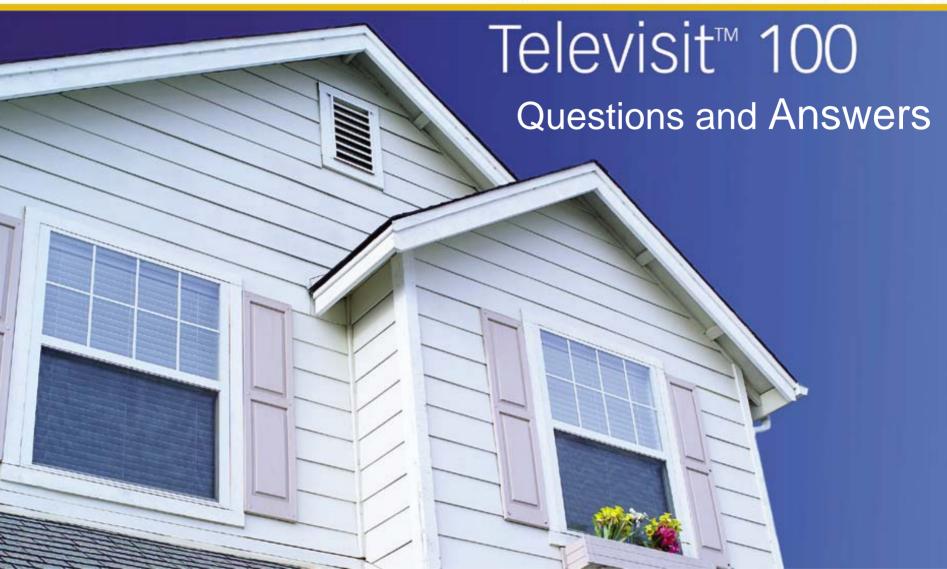
Televisit Advantages and Benefits



Remote Locations

- •Ease of use
- •Increased access to specialized services
- •Improved communication with health professionals
- •Improved quality of care
- •Improved quality of life







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