

Nurses & Informatics: Transforming Healthcare Conference Toronto September 2005

VALUE-ADDED COMMUNITY OUTREACH: OUTCOMES OF A TELEREHABILITATION SERVICE

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• • What does it look like?



• • Promotion-Knowledge

- Presentations at Program meetings, Medical Grand Rounds
- Telehealth Service Awareness Week
- Articles in hospital newsletter
- Posters in central admitting office, chart rooms on each unit and in main areas of patient therapy
- Create and arrange opportunities for staff observation

• • GOALS

- Provide expert clinical information
- Involve the client, their family and health care providers
- Promote on-going exposure and experience with telemedicine technology

• • OUTCOMES

- Recommendations that are individualized to the client's immediate and future needs
- Recommendations that are feasible within existing community resources
- Support and liaison with resources located in nearby communities
- Opportunities to network with professional colleagues

• • Process

Telerehabilitation Protocol

o Telerehabilitation Referral form

• • Clinical activity

- Diagnostic Categories:
 - TBI-8
 - CVA-10
 - SCI-4
 - MS-1
 - Post-op de-conditioning-1
 - Orthopedic complications-1
 - Swallowing disorders-2
 - Coming up: chronic pain, ALS, respiratory ailments

• • Clinical Activity

Number of connections: 27

- Consultations: 24
- o Follow-up: 2
- Pre-discharge conference: 1
- In-patients at community hospitals: 3
- Patients traveled to telehealth facility: 2

• • Reasons for consultation

- Behaviour modification strategies
- Evaluation/assessment for in-patient stay at TRC
- Medication management
- Memory problems-return to work issues
- Decreased mobility-safety issues
- Neuralgic pain issues
- Augmentative communication devices
- Special seating issues
- Need for further surgery for contracture release

Distant site attendance

- Family physicians
- Patient care attendants
- Rehabilitation case managers
- CCAC nsg/PT/OT/SLP and case managers
- Local hospital PT/OT/nsg
- Private PT/OT
- Family members

Consulting site attendance

- Physiatrists
- Nursing
- Nurse clinicians
- Occupational therapy
- Physiotherapy
- Speech therapy
- Augmentative Communication Device Clinic
- Special Seating Clinic
- Psychology
- Family members residing in Ottawa
- Translator

Length of time between receipt of request and telehealth connection

Longest: 82 days

Shortest: 2 days

• • Recommendations

- Recording of behavior patterns
- In-patient admission to TRC
- Further tests/investigation required
- Initiate therapies
- Medication regimes
- Activity restrictions
- In-patient admission not required
- Patient teaching; pacing/transfer techniques
- Appropriate home renovations
- Adjustments to disability

• • Documentation

- Patient entered into SMS and RTIS (referral tracking information) systems by admitting officer
- Assigned hospital number and coded with "TELEMD".
- Telerehabilitation coordinator completes triage of consultation request.
- Data entered into GRASP workload measurement system.

• • Documentation

- Standards of documentation of TOH
- Standards of documentation from individual professional colleges
- o For example:
 - Nursing process
 - Risk for Falls Assessment Tool
 - Braden Scale[©] for risk of skin breakdown
 - Pressure Sore Status Tool[©] by Jates-Bensen for pressure sores and surgical wounds.



TeleRehabilitation CLINIC SUMMARY SHEET

THE REHABILITATION CENTRE • LE CENTRE DE RÉADAPTATION

Location:	Name: TOH Chart#:
Date:	Address:: Phone # Date of birth:
Referring physician :	WCB/Health# (Exp date): Physiatrist: Preferred language:
Patient diagnosis:	
✓ Consult □ Follow-up □ Uni-discipline	☐ Inpatient ✓ Outpatient (lives at home) ☐ Nsg/Grp home
Reason for consultation:.	
Remote site: Patient seen with: Recommendations discussed with:	
□Orthotist	ccupational Therapist: ☑Physiatrist:
Report from □ ✓: □Psychologis	pist: □ Prosthetist t □ Seating er □ Speech pathologist:
Telehealth coordinator: Christine R	ochefort ext. 75406
Clinic Summary to client/family, refe	erring physician, tamily MD
Reports to referring physician. Aids & devices recommended	Date prescribed
211d5 & devices recommended	Date received

Date revised: 2004 Nov 22

• • Data Collection

- Excel spreadsheet
- Sorting of Information
- Future refinements:
 - Lickert scale on feedback form
 - Ratings for effectiveness of service delivery
 - Practicality of proposed recommendations/interventions

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	City	Pembroke	New Liskeard	Comwall	Amprior	Glengarry
	TOH Chart #					
•	Referral Rec'd	18/01/2005	24/11/2004	20/12/2004	20/12/2004	20/01/2005
	Referral Processed	24/01/2005	21/01/2005	21/01/2005	21/12/2004	08/02/2005
	Date of Transmission					
	Referring Physician	27/01/2005 Dr. Timpson	01/02/2005 Dr. Glen Percy	03/02/2005 Dr. Reen	17/02/2005 Dr. J. Kiskis	10/03/2005 Dr. Ashok Nadkarni
	Patient Name					
	Diagnosis	ТВІ	Pontine Stroke	ТВІ	CVA-Dec 05/2004	surgical removal of meningiomas
	Reason for referral		difficulty with concentration, fatigue, word finding, loss of balance and increase in falls	assess for in-pt TBI program at SCO	appropriatness for in-pt stroke program	CCAC team involved. Family wants her assessed by TRC.
	TRC Clinicians	Dr. Marshall, nsg	Dr. Deforge, resident, nursing	Dr. Marshall, nsg, rehab case manager, interpretor, Dr. MacGregor as observer	Dr. Dan Deforge, nursing	Dr. Shawn Marshall/nursing
	Site Clinicians	pt, family, OT	pat, physio	pt, family, OT, SW	patient, physio	patient, family, CCAC OT/PT/case manager
		for present. Recommend initiating	recommend sleep study to investigate poor concentration, non-restorative sleep and decreased initiation. Results to be cc to Dr. Deforge. Education re: pontine stroke reviewed with patient. Neuropsych testing not recommended at this time, however if insurance company wants this done, there are two neuropsychologists available in Northern Ontario. Names available through telehealth coordinator @ TRC	recommend out-pt rehab with translator. Reassess after pt recieves new glasses and hearing aids. Recommend supervised living arrangements.	deficits more sensory than motor-in-pt rehab would not be useful. Recommend family MD order for CCAC OT for home safety assessment. Education provided re: cause and management of stroke related to fatigue and patient's wishes to resume exercise. Reinforced lifestyle changes such as decreased smoking, dietary, lipid and hypertension monitoring. Patient continues to be seen by Dr. Attack.	
		after neuropsych report is available patient wants to come to Centre	after results of sleep study reviewed.	none required	none	
	Date css sent to ref source	27/01/2005	01/02/2005	03/02/2005	21/02/2005	
	Date OACIS report sent to ref source	22/02/2005			03/03/2005	

Baseline Measurements

Frequency of requests

Consultation vs follow-up, which diagnostic categories

Length of time before patient is seen by rehabilitation specialists

From the time the referral is received in admitting, how much time to complete triage, how long the wait list is,

Client feedback & Clinician feedback

Comfort level with technology, patient issues being addressed, communication between healthcare providers.

(This is in addition to the Provincial Telehealth Networks patient feedback form)

• • Client and Clinician Feedback

- Would they use telehealth services in the future: 100% said yes
- "next best thing to the real thing"
- "this was an extremely positive experience for the family.
 A great learning opportunity"
- "participate in a way that is not possible when patient is at an out-or-town consultation"
- "questions were answered immediately. Very client focused"
- "very well organized. Saves time, energy and money for the patient"

Future outcome measurements

- Effectiveness of TeleRehabilitation Clinic Summary Sheet as a interim communication tool
 - primary care physician and allied health care providers in remote sites-Sept/October 2005
- 2. Impact of Telehealth on clinical practice
 - allied health care providers of consulting site-2005

• • Contact

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