

Audit on Compliance to Physiotherapy Protocol for Geriatric Hip Fracture

Working Group on Physiotherapy Protocol for Geriatric Hip Fracture, PTCOC



Introduction

 Hip fracture, particularly in old persons, result in problems that extend far beyond the orthopaedic injury.

Zuckerman J (1996) Hip fracture. New England Journal of Medicine 334: 1519-1525



Geriatric Hip Fracture in HA

- Fracture around the neck of femur (820) incurred a total episode of care of around 7000 in the year 2005 (Source: CDARS, HA).
- Geriatric hip fracture was among the top ten largest volume patient groups in physiotherapy service (Source: PTCOC, HA).

Physiotherapy Service Coverage to Geriatric Hip Fracture



Physiotherapy Protocol for Geriatric Hip Fracture

- Assurance of the quality of service provided by physiotherapists to this group of patients.
- Enhance communication with other disciplines on the common physiotherapy practice.

Physiotherapy Protocol for Geriatric Hip Fracture

Problem-oriented approach.

 Outlines usual practice of physiotherapy management in various settings, as supplementary to clinical judgment.

Physiotherapy Protocol for Geriatric Hip Fracture

- Formation of working group with representatives from the 7 clusters under PTCOC.
- Open forum to collect feedback on the process of compiling protocol.
- Endorsement of protocol in February 2005 after consultation and consensus.
- Protocol accessible in eKG.

Followed by Territory Wide Documentation Audit



Purposes of Clinical Audit for Geriatric Hip Fracture Protocol

 To examine the compliance rate of individual physiotherapy department to the protocol.

 To make recommendations for improving protocol compliance and documentation.

Subjects

Medical Records of completed episode of care. Inclusion criteria-

- Age ≥ 65
- Principal diagnosis: Hip Fracture

Exclusion criteria-

- Severe complications during hospitalization.
- Complicated co-morbid problems.



Auditors

- Professional staff.
- Not the treating therapist.
- Attended pre-audit briefing session.



Audit Tools

- Retrospective review of patient record.
- Content of document was rated against a set of audit criteria.
- 27 items for acute care, 26 items for extended care were rated.
- Results charted on a compliance audit form.



Audit Items

- Patient's demographic data
- Premorbid mobility
- Vital signs
- Chest conditions
- Screening of potential complications
- Precautions taken for immediate post-hemiarthroplasty
- Screening of unaffected limbs
- Mobility of affected leg
- Bed mobility, transfer, walking abilities
- Appropriate interventions/ training given according to patient's problems
- Appropriate documentation of outcome measurements



Audit Form for Acute Care Phase

Compliance Audit Form on Physiotherapy Protocol on Geriatric Hip Fracture (Acute Care)

Date of Audit: Therapist Involved:

Patient Hospital Number: Auditor(s):

Hospital:

	Protocol Standards				Compliance		ProtocolStandards	Committees						
From Cot Statuteds					Сошринсе		MOLOCOTSTANDATOS	Compliance						
		Yes	No	N/A	Reasonsfor N/A	1		Yes	No	N/A	Reasons for N/A			
1 Pre-op/Immobilization stage assessment						3.G0	al-specific interventions given							
1.1	Diagnosis (side of fracture)													
12	Diagnosis (type of fracture)													
13	categorization by pre-morbid mobility status													
1.4	Vitalsigns													
	Chest candition						Pre-op chest physiothempy							
1.6	Signs/risk of developing secondary complications e.g. DVT					32	Ankle andtoes exercises							
1.7	Condition of unaffected limbs													

2Pos	t-op assessment - Maintenance Care/D	ntensiw	e Reha	Jb .		
2.1	Date of operation					
22	Type of operation					
23	categorization by pre-morbid mobility status (if no pre-op assessment performed)					
2.4	VitalSigns					
25	Chest Canditian				33	Post-op chest physiotherapy
2.6	Signs/ risk of developing secondary complications e.g. DVT				3.4	Aride andtoes exercises
					35	Post hem iarthrop histy precoution
2.7	Range of movement of operated hip				3.6	Mobilization exercises
2.8	Bed m obility performance				3.7	Bed mobility training
29	Transfer performance				3.8	Transfer training
	Weight bearing status as planned by M.O.					
2.11	Standing/Walking performance (if <u>not</u> for maintenance care)				39	Standing walking to ining

hup audit form (acute phase) Sep 05



Audit Form for Extended Care Phase

Compliance Audit Form on Physiotherapy Protocol on Geriatric Hip Fracture (Extended Care)

Date of Audit: Therapist Involved:

Patient Hospital Number: Auditor(s):

Hospital:

	Protocol Standards	Compliance								
1	General assessment	assessment Yes No N/A Reasons for N/A								
1.1	Diagnosis (side of fracture)									
1.2	Diagnosis (type of fracture)									
1.3	Categorization by pre-morbid mobility status									
1.4	Date of operation									
1.5	Type of operation									
1.6	Weight bearing status as planned by									
1.7	EMS on admission									
1.8	EMS on discharge									

					Compliance	1					Compliance
2A	Specific Assessment for low mobility status	Yes	No	N/A	Reasons for N/A	2B	Goal -specific Intervention given	Yes	No	N/A	Reasons for N/A
2.1A	Chest condition					2.1B	Chest physiotherapy				
2.2A	Bed mobility performance					2.2B	Bed mobility training				
3 A	Specific assessment for high mobility status					3B	Goal -specific Intervention given				
3.1A	Range of movement of the operated hip					3.1B	Mobilization exercise				
3.2A	Muscle strength of the operated leg					3.2B	Strengthening exercise				
3.3A	Transfer performance					3.3B	Transfer training				
3.4A	Standing / Walking performance					3.4B	Standing/Walking training				
3.5A	Need of ambulatory aids					3.5B	Prescription of ambulatory aids				
3.6A	Balance performance for supervised walker					3.6B	Balance training				
3.7A	Skill in coping with outdoor environment for potential outdoor walker					3.7B	Outdoor gait /kerbs/stairs training				

hip audit form (extended care) Sep 05



Audit Results

- 13 hospitals involved
- 277 audit subjects

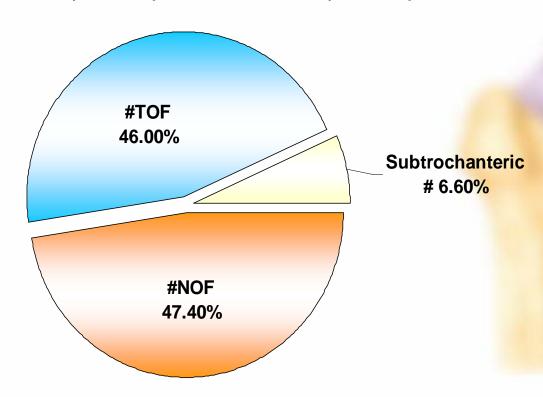


Baseline Data

Age: mean=81.2, SD=7.1 (range 65-99)

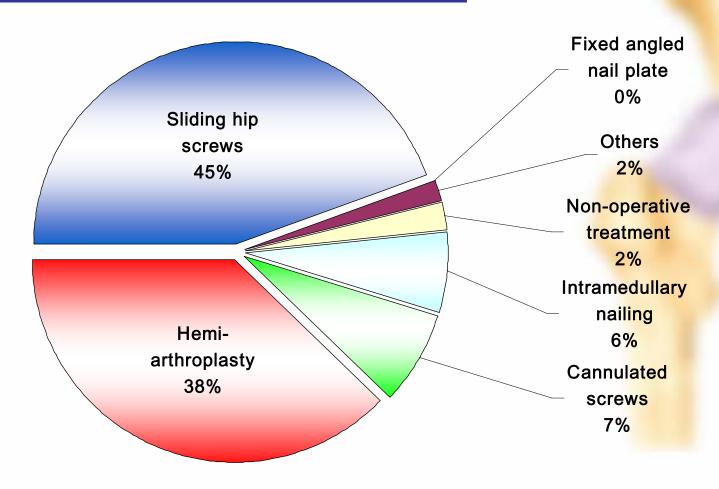
Gender: Male (32%), Female (68%)

Diagnosis:





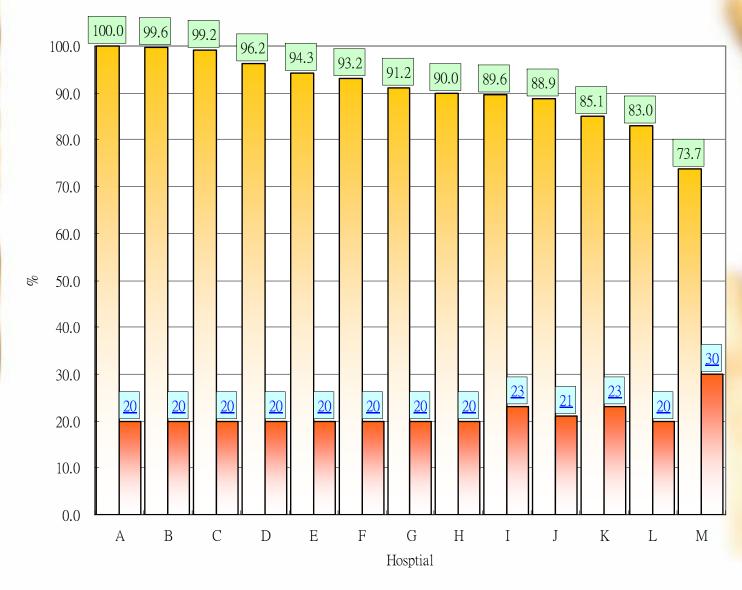
Orthopaedic Intervention



- 22 out of 27 items with compliance rate over 90%.
- Overall compliance rate of individual hospitals ranged from 73.7% to 100%.
- Average overall compliance rate was 91.1%.



Acute Care Summary





□ Subject number

- 8 hospitals involved
- 162 audit subjects

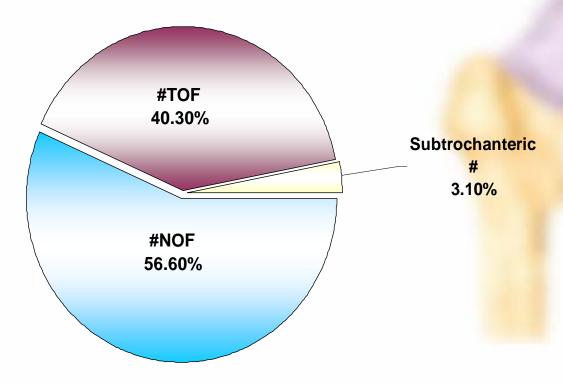


Baseline Data

Age: mean=81.6, SD=6.7 (range 65-96)

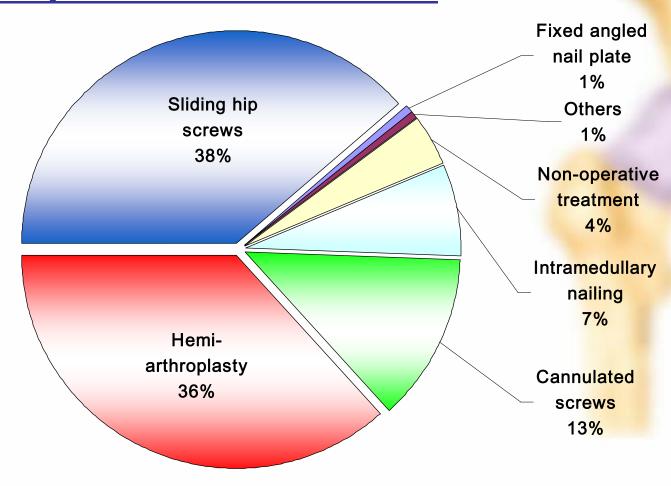
Gender: Male (28.9%), Female (71.1%)

Diagnosis:





Orthopaedic Intervention



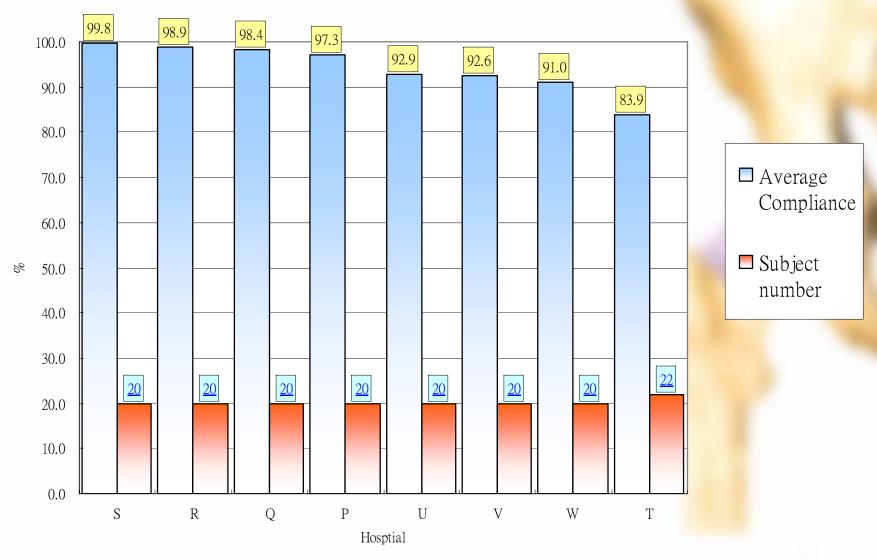
 23 out of 26 items with compliance rate over 90%.

 Overall compliance rate of individual hospitals ranged from 83.9% to 99.8%.

Average overall compliance was 94.3%.



Extended Care Summary



Reasons for Variances

- Procedures were done but not recorded in the progress notes.
- Documentations were too simple and not specific enough to reach the standard.
- Some documentations were missing during the filing procedure.
- Some colleagues missed the required items in the patient management process.



Discussion

- The audit exercise was accomplished through concerted effort by all participating hospitals.
- The protocol had been well followed by our front-line colleagues within constraints in manpower.
- Satisfactory compliance in documentation standard in acute and extended care settings.



Follow-up Actions

 Open forum to communicate with front-line staff on audit results and facilitate sharing of information on good practice.

 Communication with department heads on audit results of individual hospitals to identify areas for improvement.

Way Forward

1. Second audit in September 2006 to complete the audit cycle and to review improvements made.

Way Forward

2. A computer software programme developed to facilitate future audits in PT Departments.





	Acute Pha	ase B	ack to Main	Quit this app	lication	Output to Exc	el						
			Date Audit	Therapist Involved	Patient HN	Auditor(s)	Hospital	1.1	1.2	1.3	1.4	1.5	1.6
•	<u>D</u> elete	<u>E</u> dit	8/9/2005	3	HN050417438	5	ТМН	▼ Yes	▼ Yes	▼ Yes	▼ Yes	▼ Yes	▼ Yes
	<u>D</u> elete	<u>E</u> dit	8/9/2005	1	HN050490445	5	ТМН	▼ Yes	▼ Yes	▼ Yes	▼ Yes	▼ Yes	▼ Yes
	<u>D</u> elete	<u>E</u> dit	10/4/2006	1	HN050456697	5	ТМН	▼ Yes	▼ Yes	▼ N/A:	▼ Yes	▼ Yes	▼ Yes
	<u>D</u> elete	<u>E</u> dit	9/9/2005	1	HN050273118	5	ТМН	→ No	▼ Yes	▼ Yes	▼ Yes	▼ Yes	▼ Yes
	<u>D</u> elete	<u>E</u> dit	9/9/2005	1	HN050444362	5	ТМН	▼ Yes	▼ Yes	▼ Yes	▼ N/A:	▼ N/A:	▼ N/A:
	<u>D</u> elete	<u>E</u> dit	12/9/2005	1	HN050158025	4	ТМН	▼ Yes	▼ Yes	▼ Yes	▼ Yes	▼ Yes	▼ Yes
	<u>D</u> elete	<u>E</u> dit	12/9/2005	2	HN050164521	4	ТМН	▼ Yes	▼ Yes	▼ Yes	▼ Yes	Yes	▼ Yes
	<u>D</u> elete	<u>E</u> dit	12/9/2005	1	HN050315945	4	ТМН	▼ Yes	▼ Yes	▼ Yes	▼ Yes	Yes	▼ Yes
	<u>D</u> elete	<u>E</u> dit	12/9/2005	1	HN05033969B	4	ТМН	▼ Yes	▼ Yes	▼ Yes	▼ Yes	▼ Yes	▼ Yes
	<u>D</u> elete	<u>E</u> dit	12/9/2005	3	HN05039019A	4	ТМН	▼ Yes	▼ Yes	▼ Yes	▼ Yes	Yes	▼ Yes
	<u>D</u> elete	<u>E</u> dit	15/9/2005	1	HN050374216	2	ТМН	▼ Yes	▼ Yes	▼ Yes	▼ Yes	Yes	▼ Yes
	<u>D</u> elete	<u>E</u> dit	15/9/2005	1	HN050386168	2	ТМН	▼ Yes	▼ Yes	▼ Yes	▼ Yes	▼ Yes	▼ Yes
	<u>D</u> elete	<u>E</u> dit	15/9/2005	1	HN050469446	2	ТМН	▼ Yes	▼ Yes	▼ Yes	▼ Yes	▼ Yes	▼ Yes
	<u>D</u> elete	<u>E</u> dit	15/9/2005	1	HN050508387	2	TMH	▼ No	▼No	▼ No	▼ Yes	▼ Yes	▼ Yes
	<u>D</u> elete	<u>E</u> dit	15/9/2005	3	HN05037567B	2	TMH	▼ No	▼No	▼ No	▼ Yes	▼ Yes	▼ Yes
	<u>D</u> elete	<u>E</u> dit	15/9/2005	3	HN050460163	2	TMH	▼ No	▼No	▼ Yes	▼ Yes	▼ Yes	▼ Yes

Way Forward

3. Moving from **Process Audit** to **Outcomes Audit** in the future.

Thank You

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