

# CANADIAN STROKE BEST PRACTICE RECOMMENDATIONS

# Rehabilitation, Recovery and Community Participation Following Stroke

Part One: Stroke Rehabilitation Planning for Optimal Care Delivery Evidence Tables

Interdisciplinary Care Planning & Transitions Preparation

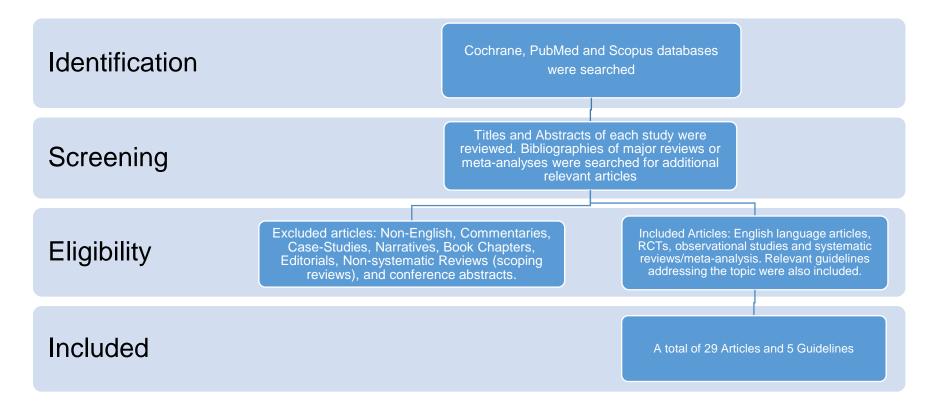
Nancy Salbach and Jennifer Yao (Writing Group Chairs)
Michelle Nelson, Jing Shi (Section Leads)
on Behalf of the Canadian Stroke Best Practice Recommendations
Stroke Rehabilitation and Recovery Writing Group

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### **Table of Contents**

Search Strategy	2
Published Guidelines	3
Individual Care Planning	6
Transition Planning	7
Stroke Navigators	16
Interprofessional Communication	17
Virtual Family Conference	23
References	25

#### **Search Strategy**



Cochrane, PubMed, and Scopus databases were searched. Titles and abstract of each article were reviewed for relevance. Bibliographies were reviewed to find additional relevant articles. Articles were excluded if they were: non-English, commentaries, case-studies, narrative, book chapters, editorials, non-systematic review, or conference abstracts. Additional searches for the relevant best practice guidelines were completed and included in a separate section of the review. A total of 29 articles and 5 guidelines were included and were separated into separate categories designed to answer specific questions.

#### **Published Guidelines**

Guideline	Recommendations
National Clinical Guideline for Stroke for the UK and Ireland.	Clinicians should facilitate shared decision making and communicate the likelihood of the individual achieving their goals in an informed, compassionate, and individualised manner. [2023]
London: Intercollegiate Stroke Working Party; 2023 May 4.	From an early stage in rehabilitation, clinicians should prepare people with stroke and their carer(s) that discharge from the service will occur and ensure an adequate transition plan is created collaboratively. Discharge information should include how to re-access services if required. [2023]
Available	Solvides ii required. [2020]
at: www.strokeguideline.org.	The multidisciplinary team should complete weekly reviews whilst providing rehabilitation in any setting, considering the needs, goals
(selected)	and progress of the person with stroke, and their treatment and discharge plans. The choice of rehabilitation pathway should be regularly reviewed to ensure rehabilitation continues to best meet the person's needs.
Clinical Guidelines for Stroke Management 2017. Melbourne	Strong Recommendation Comprehensive discharge care plans that address the specific needs of the stroke survivor should be developed in conjunction with the stroke survivor and carer prior to discharge.
(Australia): National Stroke Foundation. Part 7: Discharge Planning & Transfer of Care	Consensus-based recommendations A discharge planner may be used to coordinate a comprehensive discharge program for stroke survivors. To ensure a safe discharge process occurs, hospital services should ensure the following steps are completed prior to discharge: • Stroke survivors and families/carers have the opportunity to identify and discuss their post-discharge needs (physical, emotional, social, recreational, financial and community support) with relevant members of the multidisciplinary team. • General practitioners, primary healthcare teams and community services are informed before or at the time of discharge. • All medications, equipment and support services necessary for a safe discharge are organised. • Any necessary continuing specialist treatment required has been organised. • A documented post-discharge care plan is developed in collaboration with the stroke survivor and family and a copy provided to them. This discharge planning process may involve relevant community services, self-management strategies (i.e. information on medications and compliance advice, goals and therapy to continue at home), stroke support services, any further rehabilitation or outpatient appointments, and an appropriate contact number for any post-discharge queries.  A locally developed protocol or standardised tool may assist in implementation of a safe and comprehensive discharge process.  Prior to hospital discharge, all stroke survivors should be assessed to determine the need for a home visit, which may be carried out
Winstein CJ, Stein J, Arena R, Bates B, Cherney LR, Cramer SC et al; on behalf of the American	to ensure safety and provision of appropriate aids, support and community services.  Transitions in Care and Community Rehabilitation  It is reasonable to consider individualized discharge planning in the transition from hospital to home. Class IIa; LOE B  It is reasonable to consider alternative methods of communication and support (eg, telephone visits, telehealth, or Web-based support), particularly for patients in rural settings. Class IIa; LOE B.
Heart Association Stroke Council, Council on Cardiovascular and Stroke Nursing, Council on Clinical	ADLs, IADLs, and Disability Measurement It is recommended that all individuals with stroke be provided a formal assessment of their ADLs and IADLs, communication abilities, and functional mobility before discharge from acute care hospitalization and the findings be incorporated into the care transition and the discharge planning process. Class I; LOE B.

Guideline	Recommendations
Cardiology, and Council on Quality of Care and Outcomes Research.	
Guidelines for adult stroke rehabilitation and recovery: a guideline for healthcare professionals from the American Heart Association/American Stroke Association.	
Stroke 2016;47:e98-e169	
Shamji H, Baier RR, Gravenstein S, Gardner RL.  Improving the quality of care and communication during patient transitions: best practices for urgent care centers.  Jt Comm J Qual Patient Saf 2014;40:319-24.	<ol> <li>Ask patients for the name of their Primary Care Physician (PCP).</li> <li>Ask patients for the name of their home care provider.</li> <li>Send summary clinical information to the PCP upon visit completion.</li> <li>Send summary clinical information to the home care provider upon visit completion.</li> <li>Send summary clinical information to the ED physician upon patient referral.</li> <li>Perform modified medication reconciliation upon visit completion.</li> <li>Provide patients with effective education upon visit completion.</li> <li>Provide patients with written discharge instructions upon visit completion.</li> </ol>
Snow V, Beck D, Budnitz T, Miller DC, Potter J, Wears RL, et al.  Transitions of Care Consensus Policy Statement American College of Physicians-Society of General Internal Medicine-Society of Hospital Medicine-American Geriatrics Society-American College of Emergency Physicians-Society of Academic	Detailed Recommendations related to:

Guideline	Recommendations
Emergency Medicine.	
J Gen Intern Med 2009;24:971-76	

## **Evidence Tables**

#### **Individual Care Planning**

Study/Type	Quality Rating	Sample Description	Method	Outcomes	Key Findings and Recommendations
Dewan et al. 2014	NA	Over a one-year period (April 2011- 2012), 55 adult	6-weeks following discharge, patients (and caregivers, if available)	Primary outcomes: Hospital readmission, patient satisfaction	There were no readmissions for new stroke at 6 weeks and 6 months following discharge.
UK		stroke survivors who	attended a home-based review clinic conducted by a	questionnaires, Stroke Impact Scale (SIS),	An informal caregiver attended 53% of the reviews.
Pilot study		discharged from a hyperacute stroke unit.	stroke navigator and a stroke consultant, which assessed patients' medical, health, social and secondary stroke prevention needs. Education and information were provided and referrals for needed services were made. 2-4 patients attended each session	Depression Intensity Scale Circle (DISC), Barthel Index Service user satisfaction questionnaires	The majority of participants found the stroke navigator services easy to access, helpful, increased their knowledge and would recommend the service to others.  The most common referrals recommendations were for blood pressure management (88%), community-based exercise program (65%), medical issues (35%), and social service intervention (22%)
Markle-Reid et al. 2011	CA: ☑	101 persons with stroke or TIA,	Participants were randomized to receive home	Primary outcome: Change in SF-36	19 participants were lost to follow-up, distributed equally between groups.
	Blinding:	sustained within the	visits by a dedicated	scores	e quamy a conserving couper
Canada	Patient <b>E</b>	previous 18 months,	interprofessional team of		Persons in the intervention group received 4.3 CCAC
	Assessor ☑	who were eligible to	healthcare providers, as	Secondary	care coordinator visits, 29.1 nursing visits, 5.2 OT
RCT	ITT: 🗵	receive home care services, living in the community. Mean age was ~73 years, 55% were men.	required for a maximum of 12 months or usual care (home care).  The intervention was	outcomes: Change in Stroke Impact Scale (SIS) scores, Personal Resource	visits, 7.8 PT visits, 2.4 RD visits, 1 SW visits, 1.5 SLP visit, and 242 hours of care by a PSW.  Persons in the usual care group received 1.1 CCAC care coordinator visits, 20.4 nursing visits, 5.3 OT
		Stroke chronicity was <6 months among 70% of	individually tailored to the participant's rehabilitation needs/goals and was	Questionnaire (PRQ- 85-Part 2), Epidemiological	visits, 4.3 PT visits, 0.4 RD visits, 0.4 SW visits, and 1 SLP visits, and 169 hours of care by a PSW.
		participants.	developed through a collaborative process with decisionmakers and front-line providers.	Studies in Depression Scale (CES-D), depression & anxiety (Kessler-10), The Short Portable Mental	There was no significant difference between groups in mean change in SIS summary score from baseline.  There were no significant differences between groups in mean change in any of the 8 SIS subscale scores, although there was a difference of >5 points (i.e.
			The foci of the intervention	Status Questionnaire	clinically significant), favouring the intervention group

Study/Type	Quality Rating	Sample Description	Method	Outcomes	Key Findings and Recommendations
			were health management, life roles, social network, environment, communication, mobility, caregiver support, and financial management.	(SPMSQ) and Reintegration to Normal Living Index (RNLI)	for the SIS subscale score of physical function.  There were no significant differences in mean change scores for any of the secondary outcomes.  Sex was not examined as a potential effect modifier in subgroup analysis.  The mean cost of the intervention was \$2,750 greater compared with usual care over the 12-month period.

#### **Transition Planning**

Study/Type	Quality Rating	Sample Description	Method	Outcomes	Key Findings and Recommendations
Gonçalves- Bradley et al. 2022	One trial was at low risk of bias across	33 RCTs (n=12,242) that included participants that had	Trials compared the outcomes of patients who received formal	Primary Outcomes: Hospital LOS, unscheduled	The use of discharge plans was associated with a significantly reduced LOS: (MD -0.73; 95% CI -1.33 to -0.12). The results from 11 studies were included.
Portugal	all 9 domains assessed.	been recruited with a medical condition (n=30, mainly heart	discharge planning (nurse-led, pharmacist, member of a	readmission, patient health status, satisfaction of	GRADE: moderate  At 2 weeks to 6 months following discharge, the use of
Cochrane review		conditions) or a surgical procedure (n=3). Mean age ranged from 60-84 years. One trial recruited patients	multidisciplinary team, discharge planner) vs. usual care, (informal discharge planning).	patients, care givers and healthcare professionals	discharge planning was associated with a significant reduction in readmissions (RR= 0.89; 95% CI 0.81 to 0.97). The results from 17 trials were included. GRADE: moderate
		following stroke.	The majority of trials evaluated a discharge planning intervention that aimed to facilitate the coordination of post-		At 3-9 months following discharge, patients in the control group were no more likely to be dead (OR=1.05, 95% CI 0.85-1.29). Results from 8 trials were included. GRADE: moderate
			discharge care and improve communication between the hospital, primary care and		Most studies reported little or no differences between groups for general and disease-specific health-related quality of life.
			community services to aid the transition of patients from hospital to		Sex was not explored as a potential moderator variable in subgroup analysis.

Study/Type	Quality Rating	Sample Description	Method	Outcomes	Key Findings and Recommendations
Duncan et al. 2020 USA RCT (cluster) Comprehensive Post Acute Stroke Services (COMPASS)	CA: ☑  Blinding: Patient區 Assessor☑  ITT: ☑	6,024 adult stroke and TIA patients discharged home from 40 hospitals, acutely after stroke. Mean age was 67 years, 49% were women. 58% of patients had sustained an ischemic stroke. Median NIHSS score was 1.	their discharge destination. In all but three trials, the discharge planning intervention included an education component that provided patients with information of their health condition, medicines and post discharge arrangements.  Participants were randomized to receive a comprehensive postacute stroke transitional care (TC) management program or usual care. The intervention included telephone follow-up within 2 business days of hospital discharge and a clinic visit 7 to 14 days post-discharge.  The TC plan in the intervention group was patient-centered and assessed social and functional determinates of health to inform individualized care plans.	Primary outcome: Stroke Impact Scale- 16 (functional status) at 90 days  Secondary outcomes: Mortality, disability, medication adherence, depression, cognition, self-rated health, fatigue, care satisfaction, home blood pressure monitoring, and falls	Receipt of the intervention per protocol ranged from 6% to 70% across hospitals. 35% of patients at intervention hospitals attended a COMPASS clinic visit.  Mean SIS-16 functional status scores were not significantly different between groups (80.6 vs. 79.9).  There was no significant difference between groups in 90-day mortality (98% vs. 98.2%, RR=1.04, 95% CI 0.62 to 1.75).  Self-reported home blood pressure monitoring was performed significantly more in the TC group (72% vs. 64% (adj OR=1.43, 95% C, 1.21–1.70).  There were no significant differences between groups for any of the secondary outcomes.  There were no significant treatment interactions across subgroups of age, race, sex, NIHSS score, diagnosis, or insurance status for the primary- and secondary-outcomes.
Andrew et al. 2018  Australia  Retrospective study	NA	200 patients from 35 hospitals included in the Australian Stroke Clinical Registry who had been discharged directly home from an acute hospital care	Participants were sent a survey assessing patient-perceived discharge quality including 3 questionnaires:1) the Prescriptions, Ready to re-enter community,	Primary outcome: Predictors of high discharge quality scores	PREPARED domain quality scores ranged from a mean of 71% for medications to 81% for support structures and information exchange. The mean quality score was 73%.  Only 18% of participants received an overall score of 100% across all 4 domains of PREPARED (support
_		following stroke, sustained 3-9 months	Education, Placement, Assurance of safety,		structures and information exchange; medication management; concerns with community management

Study/Type Quality Sample Description Method Outcomes	Key Findings and Recommendations
Poston et al.  USA  Patients discharged home with self-care from a single hospital following acute study  Poston et al. USA  Retrospective study  Poston et al. OSA  Retrospective study  Poston et al. OSA  Retrospective study  Poston et al. OSA  Patients discharged home with self-care from a single hospital following acute ischemic stroke  Poston et al. OSA  Patients discharged home with self-care from a single hospital following acute ischemic stroke  Poston et al. OSA  Patients discharged home with self-care from a single hospital following acute ischemic stroke  Poston et al. OSA  Patients discharged home with self-care from a single hospital following acute ischemic stroke  Poston et al. OSA  Poston et al. OSA  Patients discharged home with self-care from a single hospital following acute ischemic stroke  Poston et al. OSA  Patients discharged home with self-care from a single hospital following acute ischemic stroke  Poston et al. OSA  Patients discharged home with self-care from a single hospital following acute ischemic stroke  Poston et al. OSA  Patients discharged home with self-care from a single hospital following acute ischemic stroke  Poston et al. OSA  Patients discharged home with self-care from a single hospital following acute ischemic stroke  Poston et al. OSA  Patients discharged home with self-care from a single hospital feasibility phase, a nurse navigator ensured that prior to discharge, there was a follow-up appointment made with the patients' primary care physician (PCP), or a PCP was established for for all discharge summaries were transmitted to PCPs. In the final months of the intervention, 2 additional components were added targeted education (self-care, stroke warning) signs, prevention) and all stal stal stal stal stal stal stal	preparedness to deal with unexpected issues; and trol of discharge circumstances.  see with quality scores <80% were significantly more by to report having pain (49% vs. 35%) or anxiety or ression (49% vs. 29%) at 3 months post stroke. So were also more likely to report having unmet do in these areas at approximately 6 months post ke.  sependent predictors of higher discharge planning lity scores (>80%) were receiving stroke specific rmation developed by the local hospital (OR=5.7, 6 CI 2.7-12.4) and referral to a local stroke support up (OR= 2.5, 95% CI 1.1-5.9).  EPARED scores >80% were associated with higher 5D scores and a reduction in the rate of unmet ds reported at 3-9 months post discharge. Ing the 24-month period prior to the intervention, re were 20.8 ischemic stroke discharges per month. The average 30-day readmission rate during this time is 9.39%. (The average 30-day readmission rate to state hospitals was 9.80%)  ing the feasibility phase, an average of 19.3 patients be discharged each month. The average 30-day dmission rate was 2.63%, which was the same as all state hospitals.  ing the 4 months after the feasibility phase, an rage of 21.3 patients were discharged each month. The average 30-day readmission rate was 3.24%, ch was the same as for all state hospitals.  In ED visits for the pre-intervention, feasibility phase were when the same as for all state hospitals.  In ED visits for the pre-intervention, feasibility phase were when the same as for all state hospitals.  In ED visits for the pre-intervention, feasibility phase were when the same as for all state hospitals.  In ED visits for the pre-intervention, feasibility phase were when the same as for all state hospitals.  In ED visits for the pre-intervention, feasibility phase were when the same as for all state hospitals.  In ED visits for the pre-intervention, feasibility phase were when the same as for all state hospitals.

Study/Type	Quality Rating	Sample Description	Method	Outcomes	Key Findings and Recommendations
Olson et al. 2011  USA  Agency for Healthcare Research and Quality Report	NA	62 articles published ≥ the year 2000, representing 44 studies that included adults ≥ 18 years old who were discharged, or were preparing to be discharged from a hospital following acute stroke (ischemic or hemorrhagic) and acute myocardial infarction (MI).  Components of transition of care services included: Case management, discharge planning, self-management tools, care pathways, systems for shared access to patient information, referrals to specialty care providers, included as part of the transition of care service and referral back to primary care providers.	Studies examined post- acute hospitalization transition of care services as well as prevention of recurrent stroke or MI.	There were 5 key questions: Key Question 1 was related to identifying the key components of transition of care services, if they can be grouped in a taxonomy, and if they are based on a particular theory.  Key Question 2 asked if transition of care services improve functional status and quality of life and reduce hospital readmission, morbidity, and mortality up to 1-year post event.  Key Question 3 asked about potential adverse events associated with transition of care services  Key Question 4 asked if transition of care services  Key Question 4 asked if transition of care services improve other aspects of care, such as more efficient referrals, more timely appointments, better provider communication, and improved coordination among multiple	KQ1: Transition of care interventions were grouped into four categories: (1) hospital-initiated support for discharge was the initial stage in the transition of care process, (2) patient and family education interventions were started during hospitalization but were continued at the community level, (3) community-based models of support followed hospital discharge, and (4) chronic disease management models of care assumed the responsibility for long-term care.  KQ2: There was moderate evidence to support the benefit of early supported discharge for stroke patients. ESD was associated with a reduction in hospital length of stay without negative impact and may also reduce caregiver strain and improve some aspects of quality of life among patients as well as caregivers.  KQ3: Insufficient evidence to determine.  KQ4: Insufficient evidence to determine.  KQ5: No evidence that benefits or harms of transition of care services varied on the basis of patient characteristics, except a greater benefit of services was noted among patients with less severe strokes.

Study/Type	Quality Rating	Sample Description	Method	Outcomes	Key Findings and Recommendations
Shyu et al. 2008	CA: ⊠	201 patient / informal caregiver dyads.	Within 48 hours of admission to an acute-	providers.  Key Question 5 asked if the benefits and harms associated with transition of care services varies by subgroup (e.g. disease etiology and severity, comorbidities)  Outcomes: Nurse Evaluation of	From admission to discharge, there were significant improvements in the nurse's evaluation and caregiver's
Shyu et al. 2010 (1-year follow- up) Taiwan	Blinding: Patient☑ Assessor涵 ITT: ☑	Patients ≥65 years with a primary diagnosis of stroke with highdemand discharge needs who were to be discharged home. 12%	care hospital, patient/caregiver dyads were randomized to one of 4 wards where they received a caregiver- oriented discharge	Caregiver Preparation Scale, Preparedness for Caregiving Scale (caregiver self- evaluation), Caregiver Discharge Needs	self-evaluation of preparedness among caregivers in the intervention group (p<0.001). Among caregivers in the control group, although the nurses reported significant improvement in preparedness, caregivers did not.
RCT		of those screened were eligible for inclusion.  At one year, 158 patient/caregiver dyads remained in the study.	planning program (n=97, 2 wards) or routine discharge planning (n=104, 2 wards). The discharge planning program was conducted by trained research nurses who evaluated caregiver needs during hospitalization and used results to guide individualized interventions, which included both health education and referral services.  Once discharged, carers were contacted within one week by telephone and two home visits were made (one week, one	Assessment Scale, Perception of Balance Between Competing Needs Scale.  Assessments were conducted at admission, discharge, and one month following discharge. (Not all measures were administered at all assessment points).  Follow-up study outcomes: Health-related quality of life (HRQoL; SF- 36), quality of care (Family Caregiving Consequence	Caregivers in both groups reported increased Satisfaction in Caregiver Needs Satisfaction Scale from discharge to the one-month follow-up (p<0.001).  Caregivers in the intervention group demonstrated significantly greater caregiver preparedness on both nursing and self-reported evaluations at discharge (both at p<0.01). At the one-month follow-up, those in the intervention group demonstrated significantly greater satisfaction with discharge needs than those in the control group (p<0.001). There were no differences in Perception of Balance Between Competing Needs Scale scores between groups.  Dropouts: Intervention group=25 (26%); Control group=18 (17%).  Follow-up study:  No significant between-group differences in HRQoL scores for patients or carers were reported. Carers in the intervention group reported significantly better quality of care at 6 months (p<0.01) but not at any other

Study/Type	Quality Rating	Sample Description	Method	Outcomes	Key Findings and Recommendations
			month) to advise and support caregivers in the home environment.	Inventory), health service utilization (readmission, length of stay, and institutionalization), and self-care ability (Barthel Index).  Assessments were conducted at 3, 6 and 12 months after discharge.	assessment point; however, overall quality of care was reported to be significantly superior in the intervention group over the 1-year follow-up period (p<0.05).  No significant group differences were reported with respect to self-care ability or hospital readmissions. However, patients in the intervention group were significantly less likely to be institutionalized between 6-and 12-months post-discharge, compared to those in the control group (p<0.05).
Allen et al. 2009 USA RCT	CA: ☑ Blinding: Patient図 Assessor☑ ITT: ☑	380 patients admitted to the stroke unit of an acute care hospital with ischemic stroke, NIHSS score>0, discharged home directly, or within 8 weeks of discharge from hospital following a short stay in a skilled nursing facility	Patients were randomized to receive enhanced post discharge care (n=190) or standard care (n=190).  An advanced practice nurse (APN) performed an in-home assessment within 1 week of discharge, the results of which were used by the multidisciplinary team to form a care plan that was provided to the patient's GP. Follow-up by the APN continued for 6 months (including home	Outcomes: NIHSS, Timed Up & Go (TUG) test, mortality and institutionalization, QoL, recurrent stroke, blood pressure, depression (CES-D scale), Hgb A <sub>1c</sub> , cholesterol, self- reported fall, incontinence, stroke knowledge and lifestyle modification (assessed using an investigator-generated questionnaire).	There were no significant differences between groups on any of the outcomes of interest except for significantly increased percentage of patients in the intervention group who could correctly identify stroke symptoms (79% vs. 76%) and risk knowledge (53% vs. 48%).  Informal tests for potential interactions revealed that persons with a prior history of stroke, TIA or atrial fibrillation, benefited more from the intervention in terms of improved neuromotor function.  Most of the APN time was spent on issues related to self-management and medical management issues.
			visits and telephone calls) in collaboration with the GP to ensure that all aspects of care were coordinated and delivered.  Patients in the standard care group received care by their MD.	All assessments were conducted at baseline and at 6 months	

Study/Type	Quality Rating	Sample Description	Method	Outcomes	Key Findings and Recommendations
Mayo et al. 2008	CA: ☑	190 stroke patients discharged home from	Participants were randomized to receive	Primary Outcome: The Physical	The mean number of nurse visits was 4.8 and the mean number of telephone contacts was 7.4.
Canada	Blinding:	1 of 5 acute care	either a case	Component Summary	600/ of the national aufforced moderately disabling
RCT	Patient⊠ Assessor☑ ITT: ☑	hospitals who were identified as having a specific need for health care supervision following discharge, such as living alone or having a medical comorbidity.  65% of those screened for eligibility were randomized.	management intervention (n=96) or care as usual (n=94). The intervention involved coordination with the patient's personal physician through telephone contact and home visits with the patient over 6 weeks.	of the Short-Form-36 (SF-36).  Secondary Outcome: Health Care Utilization, the Medical Component of the SF- 36, the EuroQuoL EQ- 5D, the Preference- Based Stroke Index, the Reintegration to Normal Living Index,	60% of the patients suffered moderately disabling strokes. Patients were discharged home an average of 12 days following admission.  There were no significant differences between groups on any of the primary or secondary outcomes at any of the assessment points.  From the 6-week to 6-month follow-up, patients in case management group had attended fewer mean specialist outpatient visits (2.2 vs. 3.4, p<0.01).
			group were instructed to make an appointment with the patient's personal physician as soon as possible.	the Barthel Index, the Geriatric Depression Scale, Gait Speed, and the Timed Up and Go Test, healthcare utilization.  Assessments were conducted at discharge, following the intervention, and 6-months post stroke.	Lost to Follow-up: Intervention group=15 (16%); Control group=18 (19%).
Torp et al. 2006 Denmark	CA: ☑ Blinding:	189 patients admitted acutely to hospital following a stroke, with	Patients were randomized to a control group that received	Primary outcome: LOS	There was no significant difference between groups in mean LOS (35.2 days, intervention vs. 39.8 days, control).
DOT	Patient	functional impairments	standard treatment	Secondary	There were no significant differences between annual
RCT	Therapist⊠ Assessor⊠ ITT: ☑	that required a hospital stay of >1 week beyond their acute stay	(n=188) or an intervention group (n=185) who received additional care from a multidisciplinary team through home visits	outcomes: Barthel Index (BI), Frenchay Activities Index (FAI), Mini Mental State Examination, Geriatric	There were no significant differences between groups in readmissions, GP visits, outpatient visits, or contacts with primary healthcare providers.  There were no differences between groups in any of the secondary outcomes at either 6 months, or 1 year.
			following discharge for up to 30 days and whose home-based care with local home care services	Depression Scale, SF- 36 Assessments were	Therapists spent an average of 6.5 hours on home visits and 3.3 hours on transportation per patient.

Study/Type	Quality Rating	Sample Description	Method	Outcomes	Key Findings and Recommendations
			was also coordinated by one of the team members.	conducted at baseline, discharge, 6 months and 1 year.	At 12 months 89 patients remained in the intervention group and 87 in the control group.
Grasel et al. 2005  Grasel et al. 2006 (long-term follow-up)  Germany  Controlled Study	Blinding: Patient⊠ Assessor☑ ITT: 図	71 patients who had suffered an ischemic or hemorrhagic stroke and required rehabilitation following the acute admission and their carers	Patients were assigned to a standard transition group (control) or an intensified transition group. Patients (and carers) in this group participated in a single psycho-educational seminar (education related to caregiving and resource availability), 3 sessions (45-60 minutes each) dedicated to skills training for the carer, and a weekend leave of absence which was supervised by an outpatient care service provider. A 3-month telephone counselling session was also provided.	Patient outcomes: Barthel Index (BI), FIM, Frenchay Arm Test, Ashworth Scale, SF-36, Timed Up & Go (TUG), evidence of paresis (upper and lower), gait disturbance (none, mild, major)  Carer outcomes: Giessen Symptom List (GSL-24), Zerssen Depression Scale, Burden Scale for Family Caregivers  Assessments were conducted at baseline (discharge), and 6 months  Follow-up study outcomes: Family carers were contacted by telephone an average of 31 months following inclusion of the first patient in the study to enquire whether the patient was still alive, and if so if they were still residing at home, or in a nursing home	At 6 months there were no significant differences (in change scores) between groups for any of the patient outcomes, expect that more patients in the intervention group could complete the TUG (94% vs. 76%, p=0.04).  At 6 months there were no significant differences (in change scores) between groups for any of the carer outcomes.  4 weeks after discharge, patients in the intervention group had developed significantly fewer new illness (6% vs. 245, p=0.044). By 6 months, there were no longer significant differences between groups (15% vs. 21%).  Readmission rates and deterioration in general health were similar between groups at 4 weeks (9% vs. 7%) and 6 months (28% in both groups).  31-month follow-up:  Significantly more patients in the intervention group were alive and living at home (83% vs. 54%) and fewer patients were living in nursing homes (6% vs. 14%).  Participation in the intervention group was an independent predictor of remaining at home.
Sulch et al. 2000, 2002a),	CA: ☑	152 patients with persistent deficits	Participants were randomized to the	Primary outcome: LOS	72-76% of patients were continent, able to dress independently and were mobile, prior to stroke.

Study/Type	Quality Rating	Sample Description	Method	Outcomes	Key Findings and Recommendations
2002b) UK RCT	Blinding: Patient⊠ Assessor⊠  ITT: ☑	requiring inpatient rehabilitation, who had experienced a stroke within the previous 2 weeks.	Integrated Care Pathway group (ICP; n=76) or the conventional care group (n=76).  The ICP intervention was developed by members of the multidisciplinary team using an evidence-based approach to identify therapeutic activities associated with best practices, key short-term goals and the time needed to achieve them.  The progress of patients in the conventional care group was reviewed in weekly meetings, where short-term goals were set based on progress made to date (i.e. not defined in advance).	Secondary outcomes: Mortality, institutionalization, Length of stay, Barthel Index (BI), Hospital Depression and Anxiety Scale (HADS), Rankin, and EuroQol Quality of Life Scale.  Assessments were conducted at baseline, 1, 4, 12, and 26 weeks (not all measures were assessed at the 1- and 4-week follow-up).  2002a) outcomes: Proportion of patients receiving recommended interventions  2002b) outcomes: EuroQol, caregiver strain, patient and carer satisfaction, all assessed at 6 months	There was no significant difference in mean LOS between groups (50 vs. 45 days, p=ns).  There were no significant differences between groups in 6-month mortality (13% vs. 8%) or institutionalization (13% vs. 21).  Median BI, Rankin scores and HADS scores were similar between groups at all assessment points.  Patients in both groups received similar amounts of occupational and physical therapy.  2002a) A higher number of caregivers in the conventional care group had their needs assessed separately and their need for skills training assessed (65% vs. 44%, p=0.021). Patient's GPs were notified within 24 hours of discharge more often in the ICP group (80% vs. 45%, p<0.001). Follow-up arrangements were made more often among patients in the ICP group (89% vs. 70%, p=0.024).  2002b): Data for 82% (ICP) and 78% (conventional care) were available.  Median total EuroQol scores were significantly higher in the conventional care group (72 vs. 63, p<0.005). Patients in the conventional group scored significantly higher on the social functioning domain, while those in the ICP group scored significantly higher on the self-care domain. There were no significantly higher on the self-care domain. There were no significant differences between groups on the 3 remaining domains.  There were no significant differences between groups in caregiver or patient satisfaction with care. Median caregiver strain index score was non-significantly higher in the ICP group (5.9 vs. 4.6, p=0.054).

#### **Stroke Navigators**

Study/Type	Quality Rating	Sample Description	Method	Outcomes	Key Findings and Recommendations
Manderson et al. 2012	NA	15 publications, representing 9 RCTs examining system	Narrative synthesis	Primary outcomes: Economic, psychosocial and function	Most studies examined the transition from hospital to home.
Canada Systematic review		navigation models for older adults living with multiple chronic diseases making			Regardless of their navigation titles (e.g. case manager, care coordinator), most roles were filled by nurses. Services were provided for up to 18 months following discharge.
		transitions across healthcare settings			Services provided included care planning, coordination of care, phone support, home visits, liaison with medical and community services, and patient and caregiver education
					8 studies included some form of economic evaluation (e.g hospital costs, health service utilization, hospital readmissions). Of these, 5 were positive (i.e. lower costs)
					5 studies included at least one psychosocial outcome (e.g. QoL, depression). Of these, 4 were positive (i.e. at least one of the psychosocial evaluations was significantly improved relative to control group on one or more occasions)
					6 studies included at least one functional outcome (e.g. ability to perform ADLs). Of these, one was positive (i.e. functional outcomes were significantly better in intervention compared with control group)
Egan et al. 2010 Canada	NA	51 stroke survivors (mean of 4.7 years post stroke) and 32	A community stroke navigation service was provided by an	Primary outcome: 2-Minute Walk Test (patient and carer), HADS	During the 4-month intervention period, contacts made by the Stroke Navigator included 1-8 visits, phone calls, and written correspondence
Single group intervention study		care partners, recruited through a stroke survivors' organization.	occupational therapist. Following pre-test assessments, the community Stroke Navigator interviewed the	(depression sub scale, patient only), General Well-Being Schedule (carer only), Reintegration to normal Living (RNLI),	There was a significant increase in the mean, daily functioning subscale of the RNLI among patients (54.1 to 59.3, p=0.02)
			participant and caregiver if available, to identify the greatest concerns and	patient and carer, qualitative interviews	There were no significant changes on any of the standardized assessments for patients or carers.

Study/Type	Quality Rating	Sample Description	Method	Outcomes	Key Findings and Recommendations
			then developed a care plan to enhance community reintegration. The intervention was composed of 6 components (case coordination, support, "just in time" education, coaching, accompaniment, and advocacy	Assessments were conducted pre-intervention and 4 months following initiation of the service	

### **Interprofessional Communication**

Study/Type	Quality Rating	Sample Description	Method	Outcomes	Key Findings and Recommendations
Gleeson et al. 2023 Ireland	The 21-item Critical Appraisal Skills	18 qualitative studies examining interprofessional communication in a	Thematic analysis was used to synthesize the evidence regarding healthcare providers'	Primary outcome: Barriers to, and facilitators of, communication	Facilitators to communication  Having a mutually positive and respectful relationship between colleagues
Systematic review	Programme checklist for qualitative research (CASP), was used.	hospital setting. Study participants included doctors, nurses, surgeons, pharmacists, other allied healthcare professionals and non-clinical healthcare staff	perceptions of interprofessional communication in the hospital setting. Data collection methods included interviews, focus groups, and a mixed methods survey		<ul> <li>Comprehending the particular skills and role of that person.</li> <li>Trusting in the knowledge and skills possessed by a member of another profession.</li> <li>Having a good pre-existing personal relationship</li> <li>Being approachable, respectful and level-headed during stressful situations</li> <li>Mutual respect</li> <li>Barriers to communication</li> <li>A negative or stressful healthcare environment</li> <li>Stressful situations with time limitations</li> </ul>

Study/Type	Quality Rating	Sample Description	Method	Outcomes	Key Findings and Recommendations
					<ul> <li>A hierarchal environment, where some professions felt it was not their place to speak up, particularly with senior staff/MDs.</li> </ul>
					<ul> <li>Insufficient understanding of a colleague's role.</li> <li>This barrier was identified for those who were perceived to be at the top of the hierarchy.</li> </ul>
Kattel et al. 2020 USA Systematic review	NA	19 studies describing hospital discharge (D/C) communication between hospital-based providers and primary care physicians (PCPs), or studies describing interventions to improve communication at hospital-discharge between hospitals and PCPs.	Data are presented descriptively.	Primary outcomes: Timeliness of completion, availability, contents of discharge summaries, and the effectiveness of interventions aimed at improving timeliness, availability, content, or readability	Timeliness and content of D/C summaries A median of 55.1% of hospital D/C communications were transferred to the PCP within 48 hours, while a median of 67.4% of hospital physicians had completed D/C summaries within 48 hours. 8.5% of discharge summaries never reached the PCP.  Information that was absent from discharge summaries included diagnostic test results (61%), pending tests at discharge (25%), and follow-up plans (41%). PCP received notification of D/C in 23% of cases.  Interventions to improve delivery of hospital D/C summaries to PCP Email use was associated with faster delivery of D/C summaries to PCP. Electronic D/C summaries and quality improvement initiatives were effective methods to ensure summaries were completed in a timely manner.  Interventions to improve the quality of the D/C summary Quality improvement initiatives helped to improve the quality of D/C summaries.  Interventions to improve discharge readiness and communication with PCPs The use of D/C software resulted in improved patient perception of discharge preparedness in one trial. Audit-feedback and financial incentives resulted in improved documentation of communication with PCPs
Mitchell 2015	NA	Data were collected from 3,248 hospitals	The association between MD/nurse communication with the	Primary outcome: 30-day medical readmissions	in one trial.  A mean of 84% of patients reported receiving discharge instructions. Hospitals that had smaller bed numbers, were non-profit and located in non-urban areas were

Study/Type	Quality Rating	Sample Description	Method	Outcomes	Key Findings and Recommendations
Controlled study			patient regarding discharge instructions and readmission was explored.		more likely to provide discharge instructions.  Patients reported that, on average, nurses and doctors communicated well with them 78% and 82% of the time.  Controlling for other factors, increasing frequency of communication surrounding discharge instructions was associated with significantly lower number of hospital admissions (-5.5).
Tielbur et al. 2015 USA Pilot project	NA	226 patients admitted to a neurological stroke service before the initiation of the intervention (baseline cohort) and 188 patients admitted after its initiation.	A program of multidisciplinary team discharge meetings (huddles) was implemented with the aims of identifying follow-up care placement, increasing referrals into affiliated follow-up care options, predicting a discharge date and eliminating barriers to discharge.  Each case manager and social worker was provided with a cellular phone with texting capabilities. All members of the team were provided with tablet computers.	Primary outcomes: Hospital LOS, and percentage of patients discharge destination	Prior to the initiation of the huddle, the mean LOS was 5.9 days. At discharge, 18% of patients were serviced by affiliated care partners (inpatient rehabilitation, outpatient rehabilitation, and home care).  After the initiation of the huddle pilot, the mean length of stay was reduced significantly to 4.4 days (25% reduction).  Discharges into affiliated partners increased from 18% to 28% (p < .05). The number of patients being sent home without services decreased from 47% to 35%.  Results from 196 staff surveys indicated they found the discharge huddle was helpful and that they believed they were more efficient in discharging patients. The technology was heavily utilized and was reported to be helpful.
Mitchell et al. 2008 Australia Systematic review	The mean score for RCTs was 7.8/10 using the Cochrane Quality scoring system. The	18 studies (5 RCTs, 7 qualitative studies), assessing coordinated multidisciplinary care of patients post stroke, in primary care.	Studies examined any multidisciplinary planning process with the general practitioner (GP) as a participant or leader, mainly involving face-to-face or teleconference meetings. Results are	Primary outcomes: Function, quality-of-life (QoL), mortality, service provision (inpatient days)	Most care planning took part in the context of multidisciplinary team care based in hospitals with outreach to community patients.  In the RCTs, the interventions described were home based care coordination from hospital specialist unit, stroke unit care with discharge planning; and early supported discharge. There were no significant benefits of the intervention compared with usual care for

Study/Type	Quality Rating	Sample Description	Method	Outcomes	Key Findings and Recommendations
for q si 1. th q si	mean score for qualitative studies was 12.4/16 on the Aoun quality scoring system.	73 studies examining communication deficits between hospitals and primary care providers (n=55) and interventions to improve communication during this transition (n=18, 3 RCTs)	Narrative synthesis Interventions varied across studies. The most common were hand delivery of D/C letter by patient to GP vs. mailed delivery (n=2); Database or computer-generated D/C summary vs. dictated D/C summary vs. dictated D/C summary vs. narrative D/C summary vs. narrative D/C summary (n=2)	Studies examining communication deficits: Timeliness and type of information missing from a discharge letter or summary arriving to a primary care physician for a patient discharged from hospital.  Intervention studies to improve communication: Not stated a priori	mortality, and equivocal results for improved function, QoL and service utilization.  Three qualitative studies of multidisciplinary care in the community care of stroke described: 1) the micromanagement of the discharge process, 2) GP care experienced by stroke patients after discharge in the community and 3) setting discharge priorities for patients about to enter nursing home. GP involvement in these processes was variable.  Three qualitative studies described the processes of care of multidisciplinary care in the community care of stroke, of which two were economic models.  The authors concluded it was uncertain whether multidisciplinary care involving GPs improves stroke outcomes in patients returning to the community.  Timeliness of discharge letter or summary: A median of 53% of discharge letters (range 30%-94%) were received by the primary care physician from hospital within 1 week; 14.5% (range 9% to 20%) of discharge summaries were received within 1 week. A median of 82% (range 77% to 85%) of discharge letters were available in the hospital medical record; 85% (range 82% to 93%) of discharge summaries.  Prevalence of Missing Information:  Main Diagnoses: A median of 13% (range 2% to 31%) of discharge letters; 17.5% (range 10% to 39%) of discharge summaries were missing main diagnoses. In Hospital Treatment Details: A median of 29.5% (range 22% to 45%) of discharge letters; 14.5% (range 7% to 22%) of discharge summaries were missing treatment details.  Medications at Discharge: A median of 25% (range 7% to 48%) of discharge letters; 21% (range 2% to 40%) of discharge summaries were missing medication details. Plans for Follow-up: A median of 30% (range 23% to 48%) of discharge letters; 14 (range 2% to 43%) of

Study/Type	Quality Rating	Sample Description	Method	Outcomes	Key Findings and Recommendations
					discharge summaries were missing details of a follow- up plan.
					Patient or family counseling: A median of 92% (range 92% to 97%) of discharge letters; 91% (range 90% to 92%) of discharge summaries were missing notes on any patient or family counseling.
					Statistically significant results reported in Intervention Studies: i) RCTs: A higher percentage of D/C summaries that were hand delivered were received by week 4 following discharge (80% vs. 57%, p<0.001). GPs that received D/C plans from institutions with enhanced D/C planning group had a better understanding of hospital management (96% vs. 62%, p=0.005) and a higher percentage of the GPs rated the quality of the D/C summaries as good or extremely good (96% vs. 48%, p<0.001).
					ii) Non RCTs with concurrent controls: D/C summaries that were hand-delivered were received by the GP sooner (median 2.5 vs. 7.5 days, p<0.001) and a higher percentage of computer-generated D/C summaries were easier to read and perceived to be of higher quality.
					iii) Non RCTs with pre-post designs: The overall quality of the D/C summaries was perceived to be higher and the summaries were longer when computer generated, using a standard template, and were received by the GP sooner.
Halasyamani et al. 2006	NA	NA	A discharge checklist designed to identify the critical components in	NA	32 studies were identified that were specific to discharge elements, including adverse events and the use of standardized tools to assemble pertinent
USA			the process when discharging elderly		information at the time of discharge. Most of the studies were related to medication-associated adverse events.
Checklist development			patients from hospital was developed by a Hospital Quality & Safety committee.		The final checklist includes 3 types of discharge documents: the discharge summary, patient instruction and communication on the day of discharge to the

Study/Type	Quality Rating	Sample Description	Method	Outcomes	Key Findings and Recommendations
Roy et al. 2005 USA Prospective study	NA	2,644 consecutive patients discharged from 2 tertiary care hospitals	The process included a literature review, development of a draft checklist by an expert committee, peer review and ratification of final checklist  Pending tests at the time of discharge were tracked for 14 days, using an electronic medical record.  Abnormal test results were identified and sent to one of 4 physicians for review to determine (subjectively) if the test results were potential actionable, based on data contained in the discharge summary and any related test results.  A result was considered potentially actionable if it could change the management of the patient in any way (e.g. by requiring a new treatment or diagnostic test, or discontinuation of a treatment).	Primary outcomes: Prevalence of potentially actionable results returning after discharge, awareness of the results by inpatient and PCP.  Inpatient physicians were surveyed 72 hours after a test result became available while PCP were surveyed 14 days later.	receiving care provider.  Data elements included on the final checklist were: Problem that precipitated hospitalization, key findings and test results, final primary and secondary diagnoses, condition at discharge (functional and cognitive), discharge destination, discharge medications, follow-up appointments, list of pending lab results and person to whom results will be sent, recommendations of subspecialty consultants, documentation of patient education and understanding, identification of atypical problems and suggested interventions, 24/7 call-back number, identification of referring and receiving providers, resuscitation status.  Out of 2033 pending results, 877 (43%) were abnormal. Of these, 191 (9.1%) were potentially actionable. 155 surveys were sent to the associated physicians, of which 105 surveys were returned.  61.6% of physicians were unaware of the test result. A higher percentage of inpatient physicians were unaware compared with PCP (71% vs. 46%, p=0.02).  33.3% of physicians were unaware that the test in question had been ordered. A higher percentage of PCPs were unaware (45.8% vs. 24.6%, p=0.006).
			Inpatient or primary		

Study/Type Quality Rating	Sample Description	Method	Outcomes	Key Findings and Recommendations
		care physicians (PCP) were surveyed to determine if they were aware of the test result.		
Van Walraven et al. 2003  Canada  Retrospective study	888 patients discharged from a single hospital following an acute stay admission for a medical condition. The most common reasons for admission were pneumonia (14.3%), congestive heart failure (9.7%) and asthma/COPD (8.4%). 3.6% of patients were admitted for stroke. The mean age was 65.7 years, 50.2% were women.	The discharge summaries of patients were reviewed to determine the date of discharge and the physician to whom the summary was sent.  The investigators determined whether the discharge summary had been received by the physician and if so, if it had been received in time for review prior to a follow-up outpatient visit.	Primary outcome: Independent predictors of readmission 3 months following discharge	Median LOS was 4 days. Over the 3 months patients had a median of 4 outpatient visits.  Discharge summaries were sent to a median of 2 physicians/patients.  The discharge summary was available for 568 of 4,639 outpatient visits (12.2%).  There were 240 (27.0%) of patients readmitted urgently to the hospital during the study period.  Independent predictors of hospital readmission were presence of a regular family physician (OR=2.26, 95% CI 1.20-4.29) increasing LOS during first hospital admission (OR=1.31, 95% CI 1.18-1.47), cancer diagnosis (OR=1.55, 95% 1.04-2.29).  Independent factors associated with decreased odds of readmission were higher income (OR=0.87, 95% CI 0.77-0.98) and a D/C summary being received by at

#### **Virtual Family Conference**

Study/Type	Quality Rating	Sample Description	Method	Outcomes	Key Findings and Recommendations
Ritsma et al.	NA	87 carers of patients	Participants attended a	Primary outcomes:	There were 48 virtual family conferences.
2023		who were receiving	1-hour virtual family	Stroke Knowledge and	
		inpatient rehabilitation.	conference, using a	Transition	There was significant improvement in all 5 questions related
Canada		67% of carers were	teleconference	Preparedness	to stroke knowledge with more responses rated as good or
		women and 41% lived	platform 1-2 weeks	Questionnaire (5 items),	excellent post intervention.
Single group		with the patient. Mean	prior to discharge,	Information Satisfaction	·
intervention		age of the patients was	addressing 9 primary	Questionnaire (5 items),	There was in increase in the number of "yes" responses to all
study		75 years.	themes/topics, which	·	questions on the Information Satisfaction Questionnaire post

Study/Type	Quality Rating	Sample Description	Method	Outcomes	Key Findings and Recommendations
			was led by the patient's physiatrist.	Kingston Caregiver Stress Scale (4 items)	intervention (e.g. Do you feel you know enough about what a stroke is? 72% pre intervention vs. 93% post intervention).
			Carers were asked to complete three online questionnaires before and after the family conference.		There were fewer significant improvements in the proportion of respondents reporting having extreme stress, a lot of stress, moderate stress, some stress or no stress post intervention for all 4 items of the Kingston Caregiver Stress Scale.

#### **Abbreviations**

CA: concealed allocation	CI: confidence interval	LOS: length of stay
HRQoL: health-related quality of life	ITT: intention-to-treat	NA: not assessed/not applicable
NIHSS: National Institutes of Health Stroke Scale	OR: odds ratio	RCT: randomized controlled trial
RR: relative risk	SF-36: Short Form Health Survey	

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