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The Effect of Technology in Overcoming Length of Stay (LOS) and its Implications for Heart Failure Patients: A Systematic Review

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ABSTRACT

Background: The increasing prevalence of heart failure with, along with prolonged length of stay (LOS), can increase the cost of medical care, drastically decrease the patients' quality of life, and more worryingly lead to high mortality rate. This research sought to identify the effect of technology in overcoming LOS and its implications for heart failure patients.

Method: This research employed a systematic review with access to four article databases including Scopus, Science Direct, ProQuest, and PubMed within duration of 2017-2021, using specific keywords and MESH according to PICOS/PICOT. Quality assessment was done using the PRISMA Checklist where title, full-text abstract, and methodology were assessed for conduct of this systematic review. The results of extracting, tabulating, and analysing descriptive narratives were then briefly summarized.

Results: In Overall, the results revealed various methods being implemented, including telemonitoring, home monitoring of IT management specialists, multidisciplinary transition planning, individualized nutritional support, return trip board program (Visual), Palliative Care (ACP), revascularization therapy, outpatient inotropic therapy, body mass index, heart rate reduction therapy, Lung ultrasound (LUS), and phone tele-monitoring. These series, after being investigated, were proven to reduce LOS of heart failure patients and the program was able to reduce the rate of hospital care readmission.

Conclusion: The types of methods and programs in the intervention are very effective in reducing LOS in heart failure patients.

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Keywords: Discharge Planning, Heart Failure, Length of Stay, Readmission

Introduction

Heart failure is becoming a major problem because of the increasingly longer treatment and higher economic burden on the family due to prolonged treatment admissions and repeated re-admissions. Heart failure is also a progressive health problem with high mortality and morbidity rates in developed and developing countries, including Indonesia. In 2014, this disease was recorded with more than 30% mortality rate in developing countries and 50% of patients with heart failure needed to be hospitalized. The prevalence of heart failure increases with age, the World Health Organization (WHO) and the World Palliative Care Alliance predict that there are more than 19 million adult patients requiring treatment in the world, and half of them die from heart disease. As the number of victims of heart failure has risen to become the main cause of death in Indonesia, a regulation is needed whose treatments are based on the New York Heart Association (NYHA) classification, morbidity, life quality of patients and length of stay, all of which can determine the recovery process, predict length of stay, and mortality rate [1].

Regardless of advances in its treatment, mortality from heart failure will remain high, especially for patients requiring hospitalization, with mortality is highest in the first 30 days of admission. As hospitalization is an indication of deteriorating patient's condition, we can find out or examine what technology designs are currently able to overcome the Length of Stay (LOS) for heart failure patients. The existence of this mechanism can offer solutions regarding the patient's recovery rate and the length of stay. Therefore, it is expected that the life quality of life, the mortality rate, and the morbidity rate of heart failure patients will move towards better direction [1].

A lot of research has been conducted taking the issues about good intervention process and discharge planning for heart failure patients, including those that discuss patient interventions during long hospitalizations. Therefore, the researchers obtained some results that might be taken into consideration in providing health services for the well-being of heart failure patients [2].

Method

This research implemented a systematic review methodology by identifying relevant research. Data and information searching was performed by using an electronic site as a source of data taken, which is PRISMA (Preferred Reporting Items for Systematic Reviews & Meta-Analyses), with instruments using Flowcharts based on PRISMA 2009 checklist, removing articles not meeting

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the identified criteria, screening eligibility, and eventually downloading the appropriate or relevant research articles. The initial step was to open the databases of https://www.scopus.com/home.uri, https://pubmed.ncbi.nlm.nih.gov/, https://www.proquest.com/, and https://www.sciencedirect.com/.

Document Selection

The selection was done using the keywords "Heart Failure" AND "Length of Stay" OR "Re-admission" AND "Discharge Planning" in articles available at Scopus, PubMed, Science Direct, ProQuest. The process obtained 18,552 full-text articles ranging from 2017 to 2021 and written in English. The articles were then selected based on the titles and abstracts according to the filtering criteria, obtaining 272 articles. Finally, re-selection was done according to the inclusion and exclusion criteria thoroughly, obtaining 12 articles eligible for further analysis.

Inclusion and Exclusion Criteria

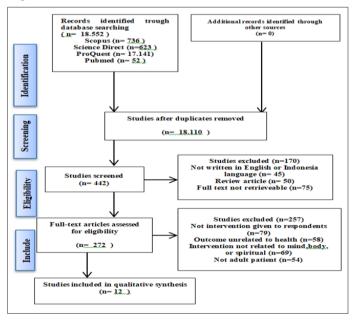
The inclusion criteria for articles to be considered suitable for systematic review consisted of research articles, reported in English ranging from 2017 to 2021, and using systematic review for the research design. The research articles discussed heart failure patients who experienced Length of Stay (LOS) and heart failure patients who required interventional therapy technology design in order to reduce Length of Stay (LOS) and re-admission. The research location varied, involving countries with articles related to Length of Stay (LOS) and re-admission, which resulted in increased patient mortality and morbidity.

Study Selection

By considering PRISMA guidelines, the obtained articles were then filtered and selected based on the suitability of title and abstract. The same articles were omitted. The text obtained in the selected articles that met the inclusion criteria were then reviewed.

Data Extraction

The data obtained from searching were assessed by including author, quality, year, country, design, age and sample size, intervention, result, and conclusion, from all research articles evaluating factors and the benefits of the interventions being implemented.



Results

Based on the search results, several themes and factors were obtained regarding the provisions of technological interventions in patients with long hospitalization and the implications for preventing and maintaining opportunities for re-admission of heart failure patients. Some of the methods carried out included Telemonitoring, Guidance-Based Medical Therapy (GBMT), Home Monitoring of IT Management Specialists, Multidisciplinary Transition Planning, Individualized Nutritional Support, Return Trip Board Programs (visual), Palliative Care (CP), Revascularization Therapy, Inotropic Therapy, Body Mass Index, Heart Rate Reduction Therapy, Lung Ultrasound (LUS), Phone Tele-monitoring. After reviewing these series of method, it was proven that they could reduce the Length of Stay (LOS) of heart failure patients and the rate of re-admission.

Tele-Monitoring

The effectiveness of Tele-monitoring support for heart failure patients is under discussion, in which heart failure is seen as health problem with a high prevalence of death. Tele-monitoring refers to a technology that enables data transmission and monitoring related to the health of patients which are located far away, or separated by long distances. Tele-monitoring is carried out by telephone to post-patients and discharged patients so that the implications, signs, and symptoms could be recorded and reported by the patients and reviewed by health professionals in order to determine the appropriate action immediately. Tele-monitoring improves the quality of nursing services where health workers can make decisions quickly and accurately. It also increases nurse productivity, for example by reducing documentation time or even in the application of transitional care related to home visits, making it easier for nurses and patients to control risk factors and provide guidance on what to do if symptoms worsen [3].

Home Monitoring of IT Management Specialists

Home monitoring using specialist management with IT support is very effective in supporting the implementation of medical therapy compared to home monitoring that does not use management specialists, for heart failure patients. This is useful for chronic heart failure cases, as this delivery model is more innovative in utilizing a sophisticated technology which can reduce the expenditure of financial resources and reduce face-to-face interactions with health workers. This is especially true during the Covid-19 pandemic. The system created can provide a sustainable and reliable reference in intensive care [4].

Palliative Care (ACP)

Nursing intervention using palliative care for heart failure patients can have a large systematic effect in improving quality of life, feelings of anxiety, mental stress, and spiritual well-being, compared to self-care with no nursing support. In overall, patients who have been grouped in receiving palliative care who previously received inappropriate physical, psychosocial, and spiritual burden from the family. The provision of palliative care has been proven very influential in improving various aspects of the patients' life quality who are heading to the end-stage stage. Therefore, palliative care is viewed as a holistic management for patients with recurring heart failure [5].

Phone Tele-Monitoring

Phone Tele-monitoring using can support the progress of treatment and provide great benefits for heart failure patients. Prior to the treatment, the level of patient management is measured using an activation measure, a heart failure knowledge scale, and a heart

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failure patient self-care index. This kind of mechanism serves as an additional external support from hospitals, especially for heart failure patients, which in combination with Tele-monitoring and Phone Tele-monitoring is very effective compared to standard care. This is especially useful in reducing other utilization of health services. From the results of patient reports on the level of knowledge, this support is actively provided by nurses with a scheduled period of half a year, this utilization can provide benefits to heart failure patients by increasing the life quality and utilization of remote health services as well as providing patients with self-care and necessary knowledge and information. Heart failure patients can feel the benefits and feel confident in performing self-management, consulting and getting information about their health [6].

Heart Rate Reduction Therapy

Hospitalization admission is an optimal process in the treatment of heart failure. However, prolonged treatment is not always good for the patient's life quality. Some heart failure patients experiencing an unexplained sinus rhythm heart rate >70 Bpm have been investigated, revealing the effect of combined betablockers and ivabradine, leading the patients to re-admission and lengthy duration of hospitalization. The high number of death in heart failure patients, especially in patients who have been hospitalized for a long time, is the proof that prolonged treatment is an indication of the poor condition of patients. The European Society of Cardiology (ESC) has made some recommendations in which heart failure patients should be treated with reduced ejection fraction, including those experiencing angiotensin converting enzyme/angiotensin receptor blocker inhibitors, as well as beta blockers (BB), and mineralocorticoid receptor antagonists (MRA). In heart failure patients experiencing prolonged treatment, there is usually increased heart rate both on discharge and during treatment, acting as the factors leading to prolonged treatment or even death. It is recommended by research to reduce heart rate using beta-blocker treatment and ivabradine combined for heart failure patients which are hospitalized, with a heart rate above 70 bpm, leading to a substantial reduction in overall mortality and a reduction in the Length of Stay [6].

Lung Ultrasound (LUS)

This is a valid tool to perform heart failure assessment. This tool is applied to reduce prolonged hospitalizations, heart functional failure, decrease cardiac output or increase intra-cardiac pressure at rest or someone who is under stress. This LUS therapy is used in diuretic therapy, which is very effective for patients to reduce prolonged hospitalizations [7].

Body Mass Index

The impact of body mass index on the daily activities of heart failure patients is important to discuss, where nutritional factors greatly affect heart failure patients undergoing treatment. 23.1% patients with heart failure are malnourished and 51.9% are at high risk of malnutrition. Malnutrition will result in worsening condition of patients with heart failure and cause prolonged hospitalization and re-admission, which ultimately leads to increased mortality and worsened condition. Therefore, nutritional status and nutritional management are very influential in the process of healing and rehabilitation of heart failure patients. Underweight heart failure patients show low independence in daily activities when they return home. Meanwhile, overweight patients show high independence in daily activities when returning home, as well as low mortality rate. This is an obesity paradox. Underweight patients are more likely to have sarcopenia in acute

decompensated heart failure. Meanwhile, overweight patients have higher muscle mass, allowing greater independence in activities of daily living and therefore weight loss in cardiac patients is not good when drastic, except in reducing edema or pleural effusion as a result of diuretic therapy in hospitalized patients. In heart failure patients, it is very important to perform cardiac rehabilitation and nutritional management [7].

Individualized Nutritional Support

A worsening nutritional status in heart failure patients during hospitalization will increase the rate mortality. Nutrition is an important risk factor for patients undergoing hospitalization. To prevent the occurrence of malnutrition and its subsequent bad impacts, it is recommended to start a nutritional support for heart failure patients who are hospitalized. It is said that a prognostic implication and the risk of low nutrition in determining a complication and a long length of hospitalization is not necessarily due to edema in heart failure patients but in the most important group of heart failure patients is high nutrition, it will support to reduce patient mortality. The use of nutritional support is effective in supporting strategic programs to meet nutritional needs in patients prone to heart failure [8].

Multidisciplinary Transition Planning

It refers to a transition plan for heart failure patients, in which patients will return to the hospital due to relapse and length of stay, a transitional care program for implications for use in patients with heart failure, where a transitional care plan is effective in reducing re-admissions to the hospital, and reduction of stress associated with prolonged hospitalization and post-discharge due to medicine side effects [8].

Return Trip Board Program (Visual)

Discharged heart failure patients need to change their life style to improve their functional status and obtain good health outcomes from previous treatment. Prolonged self-care management for heart failure patients with chronic conditions is deemed very necessary in improving their good quality of life, such as performing health education to patients and conducting partnerships in appropriate self-care management. It is noteworthy that for patients with heart failure, lack of understanding and lack of education during post-discharge timeline can contribute to longer hospital stays and faster re-admission to the hospital. This trip board support provides a visual way to guide discharged patients, provide education, and increase participation. So, it is designed to provide information and education for discharged patients with chronic diseases such as patients with heart failure [8].

Revascularization Therapy

In heart failure patients with atrial fibrillation and congestive heart failure, this therapy will reduce the likelihood of excess in-hospital mortality, and decrease in-hospital mortality associated with IVT therapy, provide a better outcome than patients who do not receive IVT therapy, which is an effective therapeutic strategy to manage the risk of Length of Stay [9].

Inotropic Therapy

In end-stage heart failure patients, inotropic therapy is widely used as short-term therapy in stabilizing cardiogenic shock in hospital or moderately decompensated. This therapy is used extensively in palliative care or sometimes in surgical planning. In this era of greatly improved inotropic therapy in the contemporary era it seems very well and suitable in the process of therapeutic goals where the length of treatment will be reduced [10].

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Discussion

In providing health service, we need to consider the supports for treatment process and technologies that produce outcomes and implications in order to reduce prolonged hospitalization and re-admission of patients. Therefore, it should be noted very carefully that health workers can design a strategy to reduce Length of Stay (LOS) and prevent re-admission before 30 days after discharge for heart failure patients. The general theme obtained in the identification of health services that have been systematically reviewed, all research showed that the supports being implemented were focused on the life quality of patients and had an effect on LOS. There is also the provision of therapy with the same goal of preventing prolonged LOS and drastic decline in condition. The findings also revealed that patients should receive health education after being discharged from the hospital or while still being treated at the hospital. Regarding the theme, there must be a condition that estimates the resources and abilities of the patients undergoing the treatment process, especially patients with heart failure, in order to complete their life where their quality of life increases from interventions and therapies subjected to the patients with heart failure. Therefore, the patients will be more comfortable with the procedures obtained by health services and facilities.

Conclusion

The use and effectiveness of health services provided by health workers in hospitals, especially for heart failure patients, needs to be constantly improved. Several findings of research have included Tele-monitoring, home monitoring of IT management specialists, multidisciplinary transition planning, individualized nutritional support, return trip board program (Visual), Palliative Care (ACP), revascularization therapy, outpatient inotropic therapy, body mass index, heart rate reduction therapy, Lung ultrasound (LUS), and phone Tele-monitoring. Therefore, hospitals need to review and develop the aforementioned options to be implemented properly by their health workers, so that they can continue to improve the quality of life of patients and support of palliative care.

PICOS Framework

PICOS Framework	Inclusion Criteria	Exclusion Criteria
Population/ Problem	Focus on heart failure patients with prolonged Length of Stay (LOS) and decreased quality of life.	Focus on patients with CHD and other acute and chronic diseases that do not review the Length of Stay.
Intervention	Research that examine the effectiveness of intervention or technology or design in reducing Length of Stay (LOS) for heart failure patients, including Tele-monitoring, therapy, and discharge planning design.	Research that do not explain the effect of a technology or design or intervention on heart failure patients.
Comparison	Other intervention groups or groups that were observed without intervention or groups that received interventions such as Tele-monitoring, therapy, and discharge planning plans for heart failure patients.	Research that do not discuss intervention or design technology or research that discuss other interventions for other diseases.
Outcome	Research that describe the effect of an intervention or its effectiveness in reducing the Length of Stay (LOS).	Research that do not discuss Length of Stay (LOS) and other intervention designs.
Research Design and Publication Type	Randomized Controlled Trial (RCT), Quasi Experiment, Retrospective Cohort	Cross Sectional Design and Review or Meta- Analysis
Language	English	Non-English

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No	Journal	Population	Intervention	Comparison	Outcome
1	Researcher: D. Committee	Sample:	Type of Intervention:	Patient which	Results
	Year: 2019	A sample was recruited from 7	The central clinical management unit	qualify refuse	The current report shows that
	Title:	sites in the UK 202 adults with	administers and assigns according to	to participate.	the main baseline features of
	Home monitoring with IT-	heart failure and a high risk of	clinical guidelines prior to randomization,	Patients who	those in the usual care group
	supported specialist management versus	adverse outcome	The SUPPORT-HF 2 digital health	not participating	were broadly similar to the
	home monitoring alone in patients with		system consists of a home monitoring kit	not given	randomized group in terms
	heart failure: Design and baseline results	Inclusion Criteria:	for patients and a clinical reporting and	interventions	of clinical and demographic
	of the SUPPORT-HF 2 randomized trial	Patients who are willing and	management application for clinicians.		features, but that they had
	Journal Type: American Heart Journal	able give informed consent for	Duration:		a poorer quality of life.
	Research Methodology Type: RCT	participating women and men age	last 30 days		monitoring that participants
		18 years and over patients who			in the control group receive
	Place: Unite Kingdom	experienced heart failure with high	Frequency:		may lead to a dilution of
		risk and potential for management			the effects of treatment,
		very far from typical symptoms	Instruments:		particularly for subjective
		congested breath, swelling wrist	The Minnesota Living with Heart Failure		outcomes such as quality of
		feet, and signs increase ini jugular	(MLWHF) questionnaire and changes to		life. Another disadvantage
		veins, pressure, lung crackles.	the New York Heart Association (NYHA)		is that the findings of trials
			self- assessed class to assess the impact of		that do not have the usual
		Exclusion Criteria:	the intervention on participants' physical		care group may be less
		Patients who plan his return	well- being		relevant to policy makers.
		including long-term care long or			To address this latter issue,
		facilities maintenance skilled, who	Implementation Procedure:		we introduce a third, non-
		were referred to the hospital and	- First the investigators identified two		randomized arm group that
		who had limited English language	periods of 6 months for each patient.		can assist with estimation
		skills or impaired cognitive			of resource implications in
		function, and patients who refused	- Next researcher use score matching to		a typical clinical scenario.
		to participate.	control for baseline differences between		The current report shows that
		Total:	the intervention and control groups.		the main baseline features of
		202 adults, average age 73 years	Through multivariate adjustment with		those in the usual care group
		and 28% women, respectively each	subclassification at higher scores.		were broadly similar to the
		of the usual care study groups	The three investigation and in the state of		randomized group in terms
		Sampling Technique:	The three investigators examined usage and		of clinical and demographic
			total costs for 6 months after discharge from		features, but that they had
			the hospital.		a poorer quality of life. monitoring that participants
					in the control group receive
					may lead to a dilution of
					the effects of treatment,
					particularly for subjective
					outcomes such as quality of
					life. Another disadvantage is
					that the findings of trials that
					do not have the usual care
					group may be less relevant to
					policy makers
					Data Analysis
					Using x2 tests for categorical
					variables and two-tailed
					t-tests for continuous
					variables. All analyzes were
					performed using SAS.

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Researcher:

Wai Leng Chow1, Chaw Yu K Aung1 Shao Chuen Tong1 . Geraldine SL Goh1 , Sheldon Lee1 , Michael R MacDonald1 . Angela NK Ng1 . Yan Cao1 . Atikah E Ahmad1, Mei Foon Yap1, Gerard Leong2 , Armin Bruege3, Alexandra Tesanovic4 , Jarno Riistama4 , Sze Yunn Pang5 and Fernando Erazo

Year: 2019 Title:

Effectiveness of telemonitoringenhanced support over structured telephone support in reducing heart failure-related healthcare utilization in a multiethnic Asian setting

Journal Type:

Journal of Telemedicine and Telecare

Methodology type:

RCT

Place:

Singapore

Sample:

150 recently discharged heart failure patients enrolled in the telemonitoring and 55 patients who only received structured telephone support after refuse Telemonitoring

Inclusion criteria:

Patient fulfills condition to apply to the program if they are at least 21 years old, live in Singapore. sent home home in the community without end-stage renal failure have a life expectancy of more than one year and can utseechnology platforms

Exclusion criteria:

Younger than 21 years or older than 90 years, pregnant, suffering from chronic obstructive pulmonary disease, moderate or severe, on more drugs than salbutamol or ipratropium or both of them. or have disease mental health on treatment in the previous year: have coronary artery bypass graft (CABG) surgery which planned or post- CABG in the first six months out; no followed up on CGH or in bed or at high risk of falling; unable to take standing weight measurements for safety reasons and have an active infection.

Amount:

150 recently discharged heart failure patients

Sampling Technique:

RCT

Type of Intervention:

Distance monitoring far (RM) has used to provide additional out-of-hospital support to heart failure patients as part of a disease management program either in the form of structured telephone support (STS), telemonitoring (TM) or a combination both with evidence of their effectiveness compared to usual care in reducing utilization of health services and other patient-reported outcomes such as level of knowledge.

Duration:

12 months

Frequency:

Instruments:

TM requires daily measurements by the patient of body weight, blood pressure and heart rate using a blue toothed device. These measurements are transmitted wirelessly via a central console which has a built-in SIM card to the backend monitoring platform for the nurse to view as well as the patient tablet device for self-monitoring by the patient. The platform used is Motiva and is configured to send advice to patients such as repeating blood pressure measurements at rest and assignments to nurses for follow-up if hospital- defined thresholds are violated.

Implementation procedure:

- All patients admitted for heart failure at CGH were reviewed and approached for follow-up enrollment by STS during HMU's six-month HF telehealth program. - The telehealth program consisted of STS by trained nurses according to a planned schedule after discharge according to their 30-day risk of heart failure re-entry as determined by a program-specific risk prediction model developed using hospitalspecific patient data
- 8 Patient education and worsening heart failure symptoms were actively assessed in the first six months after enrollment and a final review telephone call at 12 months. Patients received a total of 11, 13 and 15 calls for low, medium and high risk levels over 12 months, respectively. A telephone number is also provided to patients to access nursing advice during working hours from Monday - Friday

This study revealed the

Compare effectiveness telemonitoring through support structured phone in reduce utilization health services related fail heart

effectiveness of a TMenhanced HF management program over STS in reducing HF- related sleep days and total HF-related care costs and increasing self-care knowledge and levels over a one- year period. Given the modest dropout rate and positive feedback on the TM system in improving the patient education experience involvement and participation in HF self-care, Our study suggests that TM could be preferred over STS for delivery of HF management programs to support patients after acute hospital discharge as well as patients

Data analysis:

Involvement and support as part of the TM enhanced HF management program will be applicable in guiding the design and development of other similar programmes. Findings from our study have informed the development of other HFTM programs in Singapore

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Sample: Type of intervention: Verr: 2017 Tute: pulliarive care in heart failure the pal-lift randomized, controlled clinical trial pulliarive care in heart failure the pal-lift randomized controlled rail for maintain college of cardiology: trandomized cortrolled rail design Place: Durham north carolina Place: Durham north carolina Randomized trial (RCT) Trequency: Landomized rail (RCT) Trequency: Landomized rail (RCT) Landomized rail (RCT) Landomized rail (RCT) Lan						
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Title: palitative care in heart failure the pal-hf randomized, controlled clinical trial discharged patients (m/.2) who are study team assessed and managed multiple (UC) or UC plas PAL-HF provides empirical study team assessed and managed multiple (UC) and the verification of mortality based on Evaluation and mortality based on Evaluation and mortality based on Evaluation Studies Fail Conspiritization and mortality based on Evaluation Studies Fail Conspiritization and mortality based on Evaluation Studies Fail Conspiritization and Evaluation Studies Fail Conspiritization and mortality based on Evaluation Studies Fail Conspiritization and Evaluation Studies Fail Conspiritization and mortality of Evaluation Studies Fail Conspiritization and mortality based on Evaluation Studies Fail Conspiritization and Evaluation Studies Fail Conspiritization and Evaluation Studies Fail Conspiritization and Studies Fail Conspiritization and Evaluation Studies Fail Conspiritization and Studies Fail Conspiritization and Evaluation Studies Fail Conspiritization and Evaluation Studies Fail Conspiritization and Evaluation Studies Fail Conspirition and Fail Conspirition		Year: 2017	Inclusion criteria:	the guidelines given in combination	allocation1:1	psychosocial, and spiritual
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at high risk for rehospitalization and mortality based on Evaluation Studies Fail Cnogstrive Heart and Risk Score Effectiveness PulmonaryArtery Chateterization Exclusion ortiferia: Trandomized controlled trial design Place: Durham north carolina The Congestive Heart Failure Study Evaluation and risk sorce effectiveness pulmonary Artery Chateterization Amount: Sampling technique: Randomized trial (RCT) Trandomized trial (RCT) Trandomized controlled trial design Place: Durham north carolina The duration of the intervention phase of the trial was 6 months, but atteints in both groups were followed until death or the end of the study Frequency: Instrument: Quality of life in patients with advanced tear failure, including physical symptoms, spechasocation and sprintal problems, and planning follow-up care. A mandomization ended coordinate these aspects of patient care in nolaboration with hospitals and pallitative medicine board-certified physicians. Intervention Amount: Sampling technique: Randomized trial (RCT) The duration of the intervention phase of the trial was 6 months, but atteints in both groups were followed until death or the end of the study Frequency: Instrument: Quality of life (measured using Kansas kesclumhan overall summary score City Cardiomyopathy Questionnarie (RCCQ) [16] and general and palliative care, health-related quality of life (measured using the Chronic Department of the study Frequency: Instrument: Assessment Palliative care is an important component of the trial was 6 months, but atteints in both groups were followed until death or the end of the study Frequency: Instrument: Assessment Palliative care, between the part of the followed until death or the end of the study Frequency: Instrument: Assessment Palliative care, between the part of the followed until death or the end of the study Frequency: Instrument: Assessment Palliative care (RCCQ) [16] and general and palliative care, between the part of the followed until death or the end of the study Frequency:		Title:	inpatients (n1/4.148) and recently	previously described (11). In summary, the	just normal	families.
journal type: journal of the american college of cardiology type of research methodology: randomized controlled trial design Place: Durham north carolina This excels in was failure to meet disease severity criteria in the Congestive Heart Failure Study Evaluation and risk score effectiveness pulmonary Artery Catheterization Amount: Sampling technique: Randomized trial (RCT) Frequency: Instruments: Quality of life Specific III (measured using Kansas keseluruban overall summary score City (Caroline-dated quality of life in particular) in the Congestive Heart Failure Study Evaluation and risk score effectiveness pulmonary Artery Catheterization Amount: Sampling technique: Randomized trial (RCT) Frequency: Instruments: Quality of life Specific III (measured using Kansas keseluruban overall summary score City (Caroline-dated quality of life in related quality of life in relative patients. Pulliative care is on the holistic management of the holistic management of the trial was 6 months, but patients in both groups were followed until death or the end of the study sing Kansas keseluruban overall summary score City (Caroline-dated quality of life (measured using Kansas keseluruban overall summary score City (Caroline-dated quality of life (measured using the Chronic Disease Therapy Functional Assessment Palliative Care [FACIT - Pal] scale). The KCCQ is a 23-litem disease-specific questionnaire that is scored from 0 to 100 with higher scores representing better healths status. The overall summary score is derived from the domains of physical function, symptoms, social functioning, and quality of life.		palliative care in heart failure the pal-hf	discharged patients (n1/4.2) who are	study team assessed and managed multiple	(UC) or UC plus	PAL-HF provides empirical
journal type: journal of the american college of cardiology type of research methodology: randomized controlled trial design Place: Durham north carolina Place: Durham north carolina Study Evaluation and risk score effectiveness pulmonary Artery Catheterization Amount: Sampling echnique: Randomized trial (RCT) Sampling echnique: Randomized trial (RCT) Study Frequency: Instruments: Quality of life Specific HF (measured using Kanesa keseluruhan overall summary score City Cardiomyopathy Questionnaire [RCCQ] 16] and general and palmitive care, health-relative Care presenting better health status. The overall summary score is derived from the domains of physical function, symptoms, psychosocial and spiritual problems, and planning follow-up care. A mursing nurse scribe parties. Palliative care in end-stage heart failure conditate these aspects of patient care in endomization complete. That experiment on thinded because blind no intervention of the study Daration: The duration of the intervention phase of the tiral was 6 months, but patients with both groups were followed until death or the end of the study Frequency: Instruments: Quality of life Specific HF (measured using Kanesa keseluruhan overall summary score City Cardiomyopathy Questionnaire [RCCQ] 16] and general and palmitive care, health-relative Care [PaCTP - Pal] seals. The Overall summary score is derived from the domains of physical function, symptoms, secial functioning, and quality of life.		randomized, controlled clinical trial	at high risk for rehospitalization	domains of quality of life in patients with	intervention	evidence that palliative
and Risk Score Effectiveness PulmonaryArtery Catheterization Place: Durham north carolina Place: Durham			and mortality based on Evaluation	advanced heart failure, including physical	maintenance	care improves health-
pulmonaryArtery Catheterization type of research methodology: randomized controlled trial design Place: Durham north carolina Hace: Durham fortieria: medicine board-certified physicians. Intervention Hace: Durham north carolina Hace: Durham fortieria: medicine board-certified physicians. Intervention base of the trial was found to the decause blind not intervention of the trial was found to the each seal was found to the decause blind not intervention worth Hace: Durham fortieria: medicine board-certified physicians. Intervention pala for trial was found to the decause blind not intervention worth Hace: Durham fo		journal type:	Studies Fail Congestive Heart	symptoms, psychosocial and spiritual	palliative	related quality of life in
type of research methodology: randomized controlled trial design Place: Durham north carolina Exclusion criteria: - Trial exclusion was failure to meet diseases severity criteria in the Congestive Heart Failure Study Evaluation and risk score effectiveness pulmonary Artery Catheterization Amount: Sampling technique: Randomized trial (RCT) Frequency: Instruments: Quality of life Specific HF (measured using Kansas kescleuruhan overall summary score (xi) Carolion Diseases Therapy Functional Assessment Palliative care, health-related quality of life (measured using the Chronic Diseases Therapy Functional Seasement Palliative Care [FACIT – Pal] scale). The KCCQ is a 23-item disease-specific questionnaire that is scored from 0 to 100 with higher scores representing better health status. The overall summary score is derived from the domains of physical functioning, and quality of life.		journal of the american college of	and Risk Score Effectiveness	problems, and planning follow-up care. A	(UCthPAL)	end-stage heart failure
randomized controlled trial design Place: Durham north carolina - Trial exclusion was failure to meet disease severity criteria in the Congestive Heart Failure Study Evaluation and risk score effectiveness pulmonary Artery Catherization Amount: Sampling technique: Randomized trial (RCT) Frequency: Instruments: Quality of life Specific HF (measured using Kansas keseluruhan overall summary score City Cardiomyopathy Questionnaire [RCCQ][16]) and general and palliative care, health-related quality of life (measured using the Chronic Disease Therapy Functional Assessment Palliative Care [FACTT - Pal] scale). The KCQ is a 23-item disease-specific questionnaire that is scored from the domains of physical function, symptoms, social functioning, and quality of life.		cardiology	PulmonaryArtery Catheterization	nursing nurse practitioneparlliative certified	use scheme	patients. Palliative care is
Place: Durham north carolina meet disease severity criteria in the Congestive Heart Failure Study Evaluation and risk score effectiveness pulmonary Artery Catheterization Amount: Sampling technique: Randomized trial (RCT) Prequency: Instruments: Quality of life Specific HF (measured using Kansas kescluruhan overall summary score care, health-related quality of life (measured using the Carolic moto bin ligher scores representing better health status. The overall summary score is derived from the domains of physical function, symptoms, social functioning, and quality of life.		type of research methodology:	Exclusion criteria:	coordinate these aspects of patient care in	randomization	an important component of
in the Congestive Heart Failure Study Evaluation and risk score effectiveness pulmonary Artery Carbeterization Amount: Sampling technique: Randomized trial (RCT) Frequency: Instruments: Quality of life Specific HF (measured using Kansas keseluruhan overall summary score City Cardiomyopathy Questionnaire [KCCQ][16] and general and palliative care, health-related quality of life (measured using the Chronic Disease Therapy Functional Assessment Palliative Care [FACIT - Pal] scale). The KCCQ is a 23-item disease-specific questionnaire that is scored from 0 to 100 with higher scores representing better health status. The overall summary score is derived from the domains of physical function, symptoms, social functioning, and quality of life.		randomized controlled trial design	- Trial exclusion was failure to	collaboration with hospitals and palliative	complete. That	the holistic management of
Study Evaluation and risk score effectiveness pulmonary Artery Catheterization Amount: Sampling technique: Randomized trial (RCT) Frequency: Instruments: Quality of life Specific HF (measured using Kansas keseluruhan overall summary score City Cardiomyopathy Questionnaire (KCCQ)[16]) and general and palliative care, health-related quality of life (measured using Kchroni Disease Therapy Functional Assessment Palliative Care [FACIT – Pal] scale). The KCCQ is a 23-item disease-specific questionnaire that is scored from 0 to 100 with higher scores representing better health status. The overall summary social functioning, and quality of life.		Place: Durham north carolina	meet disease severity criteria	medicine board-certified physicians.	experiment	patients with advanced HF.
effectiveness pulmonary Artery Catheterization Amount: Sampling technique: Randomized trial (RCT) Frequency: Instruments: Quality of life Specific HF (measured using Kansas keseluruhan overall summary score City Cardiomyopathy Questionnaire [KCCQ][16]) and general and palliative care, health-related quality of life (measured using the Chronic Disease Therapy Functional Assessment Palliative Care [FACT] - Pal] scale). The KCCQ is a 23-item disease-specific questionnaire that is scored from 0 to 100 with higher scores representing better health status. The overall summary sore is derived from the domains of physical function, symptoms, social functioning, and quality of life.			in the Congestive Heart Failure	Intervention	not blinded	
Catheterization Amount: Sampling technique: Randomized trial (RCT) Frequency: Instruments: Quality of life Specific HF (measured using Kansas keseluruhan overall summary score City Cardiomyopathy Questionnaire [KCCQ][16]) and general and palliative care, health-related quality of life (measured using the Chronic Disease Therapy Functional Assessment Palliative Care [FACTT – Pal] scale). The KCCQ is a 23-item disease-specific questionnaire that is scored from 0 to 100 with higher scores representing better health status. The overall summary score is derived from the domains of physical function, symptoms, social functioning, and quality of life.			Study Evaluation and risk score		because blind	Data analysis
Amount: Sampling technique: Randomized trial (RCT) Frequency: Instruments: Quality of life Specific HF (measured using Kansas keseluruhan overall summary score City Cardiomyopathy Questionnaire (KCCQ)[16]) and general and palliative care, health-related quality of life (measured using the Chronic Disease Therapy Functional Assessment Palliative Care (FACIT – Pal) scale). The KCCQ is a 23-item disease-specific questionnaire that is scored from 0 to 100 with higher scores representing better health status. The overall summary score is derived from the domains of physical functioning, and quality of life.			effectiveness pulmonary Artery	Duration:	no intervention	Cochrane randomized
Sampling technique: Randomized trial (RCT) Frequency: Instruments: Quality of life Specific HF (measured using Kansas keseluruhan overall summary score City Cardiomyopathy Questionnaire [KCCO][16]) and general and palliative care, health-related quality of life (measured using the Chronic Disease Therapy Functional Assessment Palliative Care [FACIT – Pal] scale). The KCCQ is a 23-item disease-specific questionnaire that is scored from 0 to 100 with higher scores representing better health status. The overall summary score is derived from the domains of physical function, symptoms, social functioning, and quality of life.			Catheterization	The duration of the intervention phase of	worthy	clinical trial
Randomized trial (RCT) Frequency: Instruments: Quality of life Specific HF (measured using Kansas keseluruhan overall summary score City Cardiomyopathy Questionnaire [KCCQ][16]) and general and palliative care, health-related quality of life (measured using the Chronic Disease Therapy Functional Assessment Palliative Care [FACIT – Pal] scale). The KCCQ is a 23-item disease-specific questionnaire that is scored from 0 to 100 with higher scores representing better health status. The overall summary score is derived from the domains of physical function, symptoms, social functioning, and quality of life.			Amount:	the trial was 6 months, but patients in both		
Frequency: Instruments: Quality of life Specific HF (measured using Kansas keseluruhan overall summary score City Cardiomyopathy Questionnaire [KCCQ][16]) and general and palliative care, health-related quality of life (measured using the Chronic Disease Therapy Functional Assessment Palliative Care [FACIT – Pal] scale). The KCCQ is a 23-item disease-specific questionnaire that is scored from 0 to 100 with higher scores representing better health status. The overall summary score is derived from the domains of physical function, symptoms, social functioning, and quality of life.			Sampling technique:	groups were followed until death or the end		
Instruments: Quality of life Specific HF (measured using Kansas keseluruhan overall summary score City Cardiomyopathy Questionnaire [KCCQ][16]) and general and palliative care, health-related quality of life (measured using the Chronic Disease Therapy Functional Assessment Palliative Care [FACIT – Pal] scale). The KCCQ is a 23-item disease-specific questionnaire that is scored from 0 to 100 with higher scores representing better health status. The overall summary score is derived from the domains of physical function, symptoms, social functioning, and quality of life.			Randomized trial (RCT)	of the study		
Instruments: Quality of life Specific HF (measured using Kansas keseluruhan overall summary score City Cardiomyopathy Questionnaire [KCCQ][16]) and general and palliative care, health-related quality of life (measured using the Chronic Disease Therapy Functional Assessment Palliative Care [FACIT – Pal] scale). The KCCQ is a 23-item disease-specific questionnaire that is scored from 0 to 100 with higher scores representing better health status. The overall summary score is derived from the domains of physical function, symptoms, social functioning, and quality of life.						
Quality of life Specific HF (measured using Kansas keseluruhan overall summary score City Cardiomyopathy Questionnaire [KCCQ][16]) and general and palliative care, health-related quality of life (measured using the Chronic Disease Therapy Functional Assessment Palliative Care [FACIT – Pal] scale). The KCCQ is a 23-item disease-specific questionnaire that is scored from 0 to 100 with higher scores representing better health status. The overall summary score is derived from the domains of physical function, symptoms, social functioning, and quality of life.				Frequency:		
using Kansas keseluruhan overall summary score City Cardiomyopathy Questionnaire [KCCQ][16]) and general and palliative care, health-related quality of life (measured using the Chronic Disease Therapy Functional Assessment Palliative Care [FACIT – Pal] scale). The KCCQ is a 23-item disease-specific questionnaire that is scored from 0 to 100 with higher scores representing better health status. The overall summary score is derived from the domains of physical function, symptoms, social functioning, and quality of life.				Instruments:		
score City Cardiomyopathy Questionnaire [KCCQ][16]) and general and palliative care, health-related quality of life (measured using the Chronic Disease Therapy Functional Assessment Palliative Care [FACIT – Pal] scale). The KCCQ is a 23-item disease-specific questionnaire that is scored from 0 to 100 with higher scores representing better health status. The overall summary score is derived from the domains of physical function, symptoms, social functioning, and quality of life.				Quality of life Specific HF (measured		
[KCCQ][16]) and general and palliative care, health-related quality of life (measured using the Chronic Disease Therapy Functional Assessment Palliative Care [FACIT – Pal] scale). The KCCQ is a 23-item disease-specific questionnaire that is scored from 0 to 100 with higher scores representing better health status. The overall summary score is derived from the domains of physical function, symptoms, social functioning, and quality of life.				using Kansas keseluruhan overall summary		
care, health-related quality of life (measured using the Chronic Disease Therapy Functional Assessment Palliative Care [FACIT – Pal] scale). The KCCQ is a 23-item disease-specific questionnaire that is scored from 0 to 100 with higher scores representing better health status. The overall summary score is derived from the domains of physical function, symptoms, social functioning, and quality of life.				score City Cardiomyopathy Questionnaire		
using the Chronic Disease Therapy Functional Assessment Palliative Care [FACIT – Pal] scale). The KCCQ is a 23-item disease-specific questionnaire that is scored from 0 to 100 with higher scores representing better health status. The overall summary score is derived from the domains of physical function, symptoms, social functioning, and quality of life.				[KCCQ][16]) and general and palliative		
Functional Assessment Palliative Care [FACIT – Pal] scale). The KCCQ is a 23-item disease-specific questionnaire that is scored from 0 to 100 with higher scores representing better health status. The overall summary score is derived from the domains of physical function, symptoms, social functioning, and quality of life.				care, health-related quality of life (measured		
[FACIT – Pal] scale). The KCCQ is a 23-item disease-specific questionnaire that is scored from 0 to 100 with higher scores representing better health status. The overall summary score is derived from the domains of physical function, symptoms, social functioning, and quality of life.				using the Chronic Disease Therapy		
23-item disease-specific questionnaire that is scored from 0 to 100 with higher scores representing better health status. The overall summary score is derived from the domains of physical function, symptoms, social functioning, and quality of life.				Functional Assessment Palliative Care		
is scored from 0 to 100 with higher scores representing better health status. The overall summary score is derived from the domains of physical function, symptoms, social functioning, and quality of life.				[FACIT - Pal] scale). The KCCQ is a		
representing better health status. The overall summary score is derived from the domains of physical function, symptoms, social functioning, and quality of life.				23-item disease-specific questionnaire that		
summary score is derived from the domains of physical function, symptoms, social functioning, and quality of life.				is scored from 0 to 100 with higher scores		
of physical function, symptoms, social functioning, and quality of life.				representing better health status. The overall		
functioning, and quality of life.				summary score is derived from the domains		
				of physical function, symptoms, social		
Implementation procedure:				functioning, and quality of life.		
Implementation procedure:						
				Implementation procedure:		

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4	D	S1	Town of independent	N	D lt.
4	Researcher:	Sample:	Type of intervention:	No comaprisone	Results
	Yuan Yu, MD; * Aakriti Gupta, MD, MS;	10,000 admissions for HF from	characterize landscape national		Patients treated with acute
	* Chaoqun Wu, MD, MS; Frederick A.	189 hospitals in 2015 in China.	contemporary inpatient heart failure care.		heart failure
	Masoudi, MD, MSPH; Xue Du, MD,	Characteristic data patient,	Duration:		in China have a distinctive
	PhD; Jian Zhang, MD, PHD; Harlan M.	management and	Median hospital LOS is 9 days (range		epidemiology, receive
	Krumholz, MD, SM; KanJing Li, MD,	results obtained through			substandard care, and
	PhD; Kanto Group	abstraction centralized medical	Frequency:		have lower hospitalization
	China PEACE collaboration	record. The mean age of the cohort			mortality. We demonstrate
		was 73 years	Instruments:		a substantial gap between
	Year: 2019		plotted the distribution of systolic blood		real-life practice and the care
		Inclusion criteria:	pressure, LVEF, and glomerular filtration		guidelines recommended
	Title:	We collected all left ventricular	rate across strata by age group (<35, 35-		for these patients. The
		ejection fractions (LVEF)	54, 55–64, 65–74, 75–84, and >85 years),		reasons for the relatively
	Characteristics, Management, and	which documented as assessed b	gender, ethnicity (Han, non-Han), or 5		lower inpatient mortality
	Outcomes of Patients	echocardiogram ultrasonic	defined economic-geographical areas. We		rate despite the longer LOS
	Hospitalized for Heart Failure in China: The	during treatment stay and not more	report proportions to describe categorical		are unclear, but may be
	China PEACE	than 1 month before	variables and medians with interquartile		related to hospitalization of
		enter. History medical and	ranges to describe continuous variables.		patients with heart failure
	Retrospective Heart Failure Study	comorbidity (including heart	Implementation procedure:		who can be treated in an
		and noncardiac) obtained from a	Extract relevant data from each article,		outpatient setting. Our
	Journal type:	documented historyin login notes,	review data extraction for completeness and		findings underscore the need
	American Heart Association	diagnosis discharge, or test results	accuracy. Using predefined criteria based		for national initiatives to
			on AHROMethods Guide for Comparative		better understand the reasons
	Research methodology type: BCT	positive laboratory. For example,	1		
	Research methodology type: RCT	dyslipidemia16 was defined as a	Effetiveness Reviews		for the existing gaps in care
		diagnosis of dyslipidemia or total			and implement tools and
		cholesterol > 5.18 mmol/L or low-			strategies to reduce these
		density lipoprotein .3.37 mmol/L			factors and increase adoption
		or high- density lipoprotein < 1.04			of evidence-based treatments
		mmol/L in men or < 1.30 mmol/L.			for HF in China.
		in women.			
		Anemia defined			
		as anemia diagnosis or hemoglobin			Data analysis:
		<120 g/L in men or <110 g/L in			
		women			
		Exclusion criteria:			
		Amount:			
		Sampling technique:			
		Sampling technique:			
5	Basaarchar	Sampling technique: Randomized control trial (RCT) to create a cohort	Type of intervention	without with	Pasults
5	Researcher:	Sampling technique: Randomized control trial (RCT) to create a cohort Sample:	Type of intervention:	without with	Results The results of this study
5	Chiara Mozzini1, Marco Di Dio Perna1,	Sampling technique: Randomized control trial (RCT) to create a cohort		LUS	The results of this study
5	Chiara Mozzini1, Marco Di Dio Perna1, Giancarlo Pesce2, Ulisse Garbin1 •	Sampling technique: Randomized control trial (RCT) to create a cohort Sample: 120 patients.	LUS		The results of this study confirm the potential of
5	Chiara Mozzini1, Marco Di Dio Perna1, Giancarlo Pesce2, Ulisse Garbin1 • Anna Maria Fratta Pasini1, Andrea	Sampling technique: Randomized control trial (RCT) to create a cohort Sample: 120 patients. Inclusion criteria:	LUS Duration:	LUS	The results of this study confirm the potential of LUS in adjusting diuretic
5	Chiara Mozzini1, Marco Di Dio Perna1, Giancarlo Pesce2, Ulisse Garbin1 • Anna Maria Fratta Pasini1, Andrea Ticinesi3, Antonio	Sampling technique: Randomized control trial (RCT) to create a cohort Sample: 120 patients. Inclusion criteria: 120 patients (aged 70-94). They	LUS Duration: Frequency:	LUS	The results of this study confirm the potential of LUS in adjusting diuretic therapy and speeding up
5	Chiara Mozzini1, Marco Di Dio Perna1, Giancarlo Pesce2, Ulisse Garbin1 • Anna Maria Fratta Pasini1, Andrea Ticinesi3, Antonio Nouvenne3, Tiziana Meschi3 Ages	Sampling technique: Randomized control trial (RCT) to create a cohort Sample: 120 patients. Inclusion criteria: 120 patients (aged 70-94). They are treated from the ER to the	LUS Duration: Frequency: Instruments:	LUS	The results of this study confirm the potential of LUS in adjusting diuretic therapy and speeding up time to hospitalization for
5	Chiara Mozzini1, Marco Di Dio Perna1, Giancarlo Pesce2, Ulisse Garbin1 • Anna Maria Fratta Pasini1, Andrea Ticinesi3, Antonio Nouvenne3, Tiziana Meschi3 Ages Casadei4, Maurizio Soresi5, Luciano	Sampling technique: Randomized control trial (RCT) to create a cohort Sample: 120 patients. Inclusion criteria: 120 patients (aged 70-94). They are treated from the ER to the Department Disease In	LUS Duration: Frequency: Instruments: The potential of LUS in adjusting diuretic	LUS	The results of this study confirm the potential of LUS in adjusting diuretic therapy and speeding up time to hospitalization for heart failure. This study
5	Chiara Mozzini1, Marco Di Dio Perna1, Giancarlo Pesce2, Ulisse Garbin1 • Anna Maria Fratta Pasini1, Andrea Ticinesi3, Antonio Nouvenne3, Tiziana Meschi3 Ages Casadei4, Maurizio Soresi5, Luciano Cominacini	Sampling technique: Randomized control trial (RCT) to create a cohort Sample: 120 patients. Inclusion criteria: 120 patients (aged 70-94). They are treated from the ER to the Department Disease In House Sick University Verona with	LUS Duration: Frequency: Instruments: The potential of LUS in adjusting diuretic therapy and accelerating discharge time in	LUS	The results of this study confirm the potential of LUS in adjusting diuretic therapy and speeding up time to hospitalization for heart failure. This study emphasizes the real need
5	Chiara Mozzini1, Marco Di Dio Perna1, Giancarlo Pesce2, Ulisse Garbin1 • Anna Maria Fratta Pasini1, Andrea Ticinesi3, Antonio Nouvenne3, Tiziana Meschi3 Ages Casadei4, Maurizio Soresi5, Luciano Cominacini Year: 2017	Sampling technique: Randomized control trial (RCT) to create a cohort Sample: 120 patients. Inclusion criteria: 120 patients (aged 70-94). They are treated from the ER to the Department Disease In	LUS Duration: Frequency: Instruments: The potential of LUS in adjusting diuretic therapy and accelerating discharge time in heart failure patients has been confirmed.	LUS	The results of this study confirm the potential of LUS in adjusting diuretic therapy and speeding up time to hospitalization for heart failure. This study emphasizes the real need for an appropriate timing
5	Chiara Mozzini1, Marco Di Dio Perna1, Giancarlo Pesce2, Ulisse Garbin1 • Anna Maria Fratta Pasini1, Andrea Ticinesi3, Antonio Nouvenne3, Tiziana Meschi3 Ages Casadei4, Maurizio Soresi5, Luciano Cominacini Year: 2017 Tittle:	Sampling technique: Randomized control trial (RCT) to create a cohort Sample: 120 patients. Inclusion criteria: 120 patients (aged 70-94). They are treated from the ER to the Department Disease In House Sick University Verona with diagnosis HF clinical.	LUS Duration: Frequency: Instruments: The potential of LUS in adjusting diuretic therapy and accelerating discharge time in heart failure patients has been confirmed. Until this technique is used in general in	LUS	The results of this study confirm the potential of LUS in adjusting diuretic therapy and speeding up time to hospitalization for heart failure. This study emphasizes the real need for an appropriate timing and modality of LUS in
5	Chiara Mozzini1, Marco Di Dio Perna1, Giancarlo Pesce2, Ulisse Garbin1 • Anna Maria Fratta Pasini1, Andrea Ticinesi3, Antonio Nouvenne3, Tiziana Meschi3 Ages Casadei4, Maurizio Soresi5, Luciano Cominacini Year: 2017 Tittle: Lung ultrasound in internal medicine	Sampling technique: Randomized control trial (RCT) to create a cohort Sample: 120 patients. Inclusion criteria: 120 patients (aged 70-94). They are treated from the ER to the Department Disease In House Sick University Verona with	LUS Duration: Frequency: Instruments: The potential of LUS in adjusting diuretic therapy and accelerating discharge time in heart failure patients has been confirmed. Until this technique is used in general in different departments, it makes sense that	LUS	The results of this study confirm the potential of LUS in adjusting diuretic therapy and speeding up time to hospitalization for heart failure. This study emphasizes the real need for an appropriate timing and modality of LUS in Internal Medicine. Until this
5	Chiara Mozzini1, Marco Di Dio Perna1, Giancarlo Pesce2, Ulisse Garbin1 • Anna Maria Fratta Pasini1, Andrea Ticinesi3, Antonio Nouvenne3, Tiziana Meschi3 Ages Casadei4, Maurizio Soresi5, Luciano Cominacini Year: 2017 Tittle:	Sampling technique: Randomized control trial (RCT) to create a cohort Sample: 120 patients. Inclusion criteria: 120 patients (aged 70-94). They are treated from the ER to the Department Disease In House Sick University Verona with diagnosis HF clinical.	LUS Duration: Frequency: Instruments: The potential of LUS in adjusting diuretic therapy and accelerating discharge time in heart failure patients has been confirmed. Until this technique is used in general in	LUS	The results of this study confirm the potential of LUS in adjusting diuretic therapy and speeding up time to hospitalization for heart failure. This study emphasizes the real need for an appropriate timing and modality of LUS in Internal Medicine. Until this technique is used generally
5	Chiara Mozzini1, Marco Di Dio Perna1, Giancarlo Pesce2, Ulisse Garbin1 • Anna Maria Fratta Pasini1, Andrea Ticinesi3, Antonio Nouvenne3, Tiziana Meschi3 Ages Casadei4, Maurizio Soresi5, Luciano Cominacini Year: 2017 Tittle: Lung ultrasound in internal medicine	Sampling technique: Randomized control trial (RCT) to create a cohort Sample: 120 patients. Inclusion criteria: 120 patients (aged 70-94). They are treated from the ER to the Department Disease In House Sick University Verona with diagnosis HF clinical.	LUS Duration: Frequency: Instruments: The potential of LUS in adjusting diuretic therapy and accelerating discharge time in heart failure patients has been confirmed. Until this technique is used in general in different departments, it makes sense that	LUS	The results of this study confirm the potential of LUS in adjusting diuretic therapy and speeding up time to hospitalization for heart failure. This study emphasizes the real need for an appropriate timing and modality of LUS in Internal Medicine. Until this
5	Chiara Mozzini1, Marco Di Dio Perna1, Giancarlo Pesce2, Ulisse Garbin1 • Anna Maria Fratta Pasini1, Andrea Ticinesi3, Antonio Nouvenne3, Tiziana Meschi3 Ages Casadei4, Maurizio Soresi5, Luciano Cominacini Year: 2017 Tittle: Lung ultrasound in internal medicine efficiently drives the management of	Sampling technique: Randomized control trial (RCT) to create a cohort Sample: 120 patients. Inclusion criteria: 120 patients (aged 70-94). They are treated from the ER to the Department Disease In House Sick University Verona with diagnosis HF clinical. Exclusion criteria:	LUS Duration: Frequency: Instruments: The potential of LUS in adjusting diuretic therapy and accelerating discharge time in heart failure patients has been confirmed. Until this technique is used in general in different departments, it makes sense that	LUS	The results of this study confirm the potential of LUS in adjusting diuretic therapy and speeding up time to hospitalization for heart failure. This study emphasizes the real need for an appropriate timing and modality of LUS in Internal Medicine. Until this technique is used generally
5	Chiara Mozzini1, Marco Di Dio Perna1, Giancarlo Pesce2, Ulisse Garbin1 • Anna Maria Fratta Pasini1, Andrea Ticinesi3, Antonio Nouvenne3, Tiziana Meschi3 Ages Casadei4, Maurizio Soresi5, Luciano Cominacini Year: 2017 Tittle: Lung ultrasound in internal medicine efficiently drives the management of patients with heart failure and speeds up the	Sampling technique: Randomized control trial (RCT) to create a cohort Sample: 120 patients. Inclusion criteria: 120 patients (aged 70-94). They are treated from the ER to the Department Disease In House Sick University Verona with diagnosis HF clinical. Exclusion criteria: Exclusion criteria:	LUS Duration: Frequency: Instruments: The potential of LUS in adjusting diuretic therapy and accelerating discharge time in heart failure patients has been confirmed. Until this technique is used in general in different departments, it makes sense that LUS will develop with aspects	LUS	The results of this study confirm the potential of LUS in adjusting diuretic therapy and speeding up time to hospitalization for heart failure. This study emphasizes the real need for an appropriate timing and modality of LUS in Internal Medicine. Until this technique is used generally across different departments,
5	Chiara Mozzini1, Marco Di Dio Perna1, Giancarlo Pesce2, Ulisse Garbin1 • Anna Maria Fratta Pasini1, Andrea Ticinesi3, Antonio Nouvenne3, Tiziana Meschi3 Ages Casadei4, Maurizio Soresi5, Luciano Cominacini Year: 2017 Tittle: Lung ultrasound in internal medicine efficiently drives the management of patients with heart failure and speeds up the discharge time	Sampling technique: Randomized control trial (RCT) to create a cohort Sample: 120 patients. Inclusion criteria: 120 patients (aged 70-94). They are treated from the ER to the Department Disease In House Sick University Verona with diagnosis HF clinical. Exclusion criteria: Exclusion criteria: Associated acute coronary	LUS Duration: Frequency: Instruments: The potential of LUS in adjusting diuretic therapy and accelerating discharge time in heart failure patients has been confirmed. Until this technique is used in general in different departments, it makes sense that LUS will develop with aspects Implementation procedure:	LUS	The results of this study confirm the potential of LUS in adjusting diuretic therapy and speeding up time to hospitalization for heart failure. This study emphasizes the real need for an appropriate timing and modality of LUS in Internal Medicine. Until this technique is used generally across different departments, it makes sense that LUS will
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6	Researcher:	Sample:	Type of intervention:	Facilities	Results
	Greene, Stephen JO'Brien, Emily C. Mentz,	Among 59,736 patients,		maintenance	In this cohort of older
	Robert	57,992 (97.1%) and 42,153	post-discharge hometime.	skilled (SNF)	patients hospitalized for heart
	J. Luo, Nancy Hardy, N. Chantelle Laskey,	(70.6%) have act			failure, many patients spend
	Warren K. Heidenreich, Paul A. Chang,	carry on complete for counting	Duration:		a lot of time after discharge
	Chun LanTurner, Stuart J. Yancy,	time House each for 30 days and 1			from home. Discharge time
	Clyde W. Hernandez, Adrian	year	Frequency:		is associated with several
	F. Curtis, Lesley H. Peterson, Pamela N.				patient characteristics and
	Fonarow, Gregg C. Hammill, Bradley G.	Inclusion criteria:	Instruments:		is closely correlated with
	Year: 2019	Participants aged 65 years and over	- Instruments		post-discharge mortality and
	Title:	with scope Medicare			hospitalization outcomes.
	Home-Time After Discharge Among	fee-for-service linked			Home time can be easily
	Patients Hospitalized With Heart Failure	with data Medicare			derived from administrative
	Journal type:	use technique that			claims data and can
	Journal of the American College of	has validated			complement traditionally
	Cardiology	before(15). In short, patient			reported heart failure
	Type methodology study:	associated with			outcomes, for purposes of
	study cohort	strong use			patient-centred care, health
	Place: north carolina	combination date index			outcomes research, and
	Tacc. north caronna	hospitalization, date of birth,			clinical trials.
					Cimical trials.
		gender, and index location of			
		hospitalization. For research this,			Data analysis
		we use data claim hospitalizations,			All statistical tests were
		skilled care facility (SNF) claims,			2-sided, with $p \le 0.05$
		and recipient summary files for the			considered statistically
		period from January 1, 2011, to			significant. All analyzes
		December 31, 2014			were performed using
		Exclusion criteria:			SAS software, version 9.4
		Amount:			(SAS Institute, Cary, North
		Sampling technique:			Carolina
7	Researcher:	Sample:	Type of intervention:	No comaprisone	Results
	Antoine Garnier1*,	Of the 431 patients, 138 received	multimodal care transition plan		A transition plan is feasible
	Nathalie Rouller1,	the plan transition while 293 did			and will likely enhance the
	David Gachoud1, Carole Nachar2, Pierre	not complete.	Duration:		home transition for heart
	Voirol2, Anne-Claude Griesser3, Marc	Inclusion criteria:	30 days after discharge from the hospital		failure patients. However,
	Uhlmann4, Gerard Waeber1 and Olivier	HF patients aged 18 years and over			this is resource-intensive, and
	Lamy	have HF as diagnosis	Frequency:		the benefits demonstrated
	Luny	active, and sent home.	Trequency.		by reduced readmissions are
	W2019	active, and sent nome.			*
	Year:2018		Instruments: 3 years of retrospective		not clear. Future research
	Title:	Criteria exclusion:	data (pre-		should focus more on PARE
	Effectiveness of a transition plan at	exclude			than readmission rates, and
	discharge of patients hospitalized with heart	patient which hemodialysis	Implementation procedure:		on other indicators such
	failure: A before-and after study	chronic, fail asymptomatic heart	We collected patient characteristics,		as stress associated with
		declared as functional class 1 new	inpatient settings, and diagnoses from the		hospitalization, patient
	Journal type: ESC Heart Failure	york heart association and	hospital's medico-administrative database.		satisfaction, medication side
	Type of research methodology:	hospitalization rejected by	We ensured identical inclusion and analysis		effects, or adherence
	Quasi experimental	algorithm	of the before and after groups by using a		Data analysis:
	Place: Switzerland		diagnosis code after discharge summary.		
	- Ince ownzoriding	Amounts			
		Amount:	We therefore avoided selection bias. The		
		In the preintervention period, 1441	transition team did not have access to the		
			Language of the estatistical analysis south the		
		hospitalizations were eligible. On	results of the statistical analysis until the		
		hospitalizations were eligible. On intervention period, 431	end of the study.		
			· · · · · · · · · · · · · · · · · · ·		
		intervention period, 431	· · · · · · · · · · · · · · · · · · ·		
		intervention period, 431 hospitalizations were included for	· · · · · · · · · · · · · · · · · · ·		
		intervention period, 431 hospitalizations were included for analysis. In 293 of 431 hospitalizations, patients (non-	· · · · · · · · · · · · · · · · · · ·		
		intervention period, 431 hospitalizations were included for analysis. In 293 of 431 hospitalizations, patients (non- complementary) no	· · · · · · · · · · · · · · · · · · ·		
		intervention period, 431 hospitalizations were included for analysis. In 293 of 431 hospitalizations, patients (non- complementary) no complete plan transition: 130	· · · · · · · · · · · · · · · · · · ·		
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		intervention period, 431 hospitalizations were included for analysis. In 293 of 431 hospitalizations, patients (non- complementary) no complete plan transition: 130 diagnosed for heart failure after screening, 111 were discharged	· · · · · · · · · · · · · · · · · · ·		
		intervention period, 431 hospitalizations were included for analysis. In 293 of 431 hospitalizations, patients (non- complementary) no complete plan transition: 130 diagnosed for heart failure after screening, 111 were discharged before enrollment, and 52	· · · · · · · · · · · · · · · · · · ·		
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Researcher: Sample: Type of intervention: Results The overall results of AIT 241 patients AIT is a short-term option or increasingly comaprisone Grubb, Christopher S. Truby, Lauren K. common, for use as a bridge to a heart seem to have improved Topkara Veli K Bohnen Inclusion criteria: transplant (BTT) a bridge to a ventricular in the contemporary era Michael S. Yuzefpolskaya, Melana assist device (BTVAD), a bridge to AIT appears to be a viable 241 patients discharged from AIT DeFilippis, Ersilia M. Kleet, Audrey and who met the criteria inclusion decisions regarding continued therapy strategy for delaying LVAD Nakagawa, Shunichi Haythe, Jennifer H. for retrospective (BTD) or as palliative care implantation in goal-therapy Axsom, Kelly Colombo, Paolo Takeda, analysis observational Duration: candidates for a short period Koji Uriel, Nir Sayer, Gabriel Garan, Hasan entered (Image 1). Of these, of time, perhaps long enough Naka, Yoshifumi Farr, Maryjane 81 patients used AIT as BTT Frequency: to get one's "business Year:2021 done".17 However, BTT AIT (approved by Heart Transplant Title: Committee and officially registered does not ameliorate the risk for HT) 70 patients as BTVAD Advanced heart failure patients supported of clinical decompensation with ambulatory inotropic therapy: What (approved by requiring more urgent Implementation procedure: defines success of therapy? LVAD committee) and 49 patients LVAD implantation and Journal type: increases the risk of death using AIT as part of a palliative American Heart Journal care plan or delisting. . Thus, this risk Type of research methodology: should be weighed against cohort study Exclusion criteria: patient preference in the Place: Switzerland BTT patients and expressed a context of the expected strong preference for avoiding waiting list time to optimize LVAD. For 70 BTVAD patients, BTT outcomes, particularly reasons for not moving directly to as patients increasingly LVAD during index hospitalization understand that patients who included the need for medical are stable on LVAD devices optimization, hesitancy of the wait very long times for transplant and may have patient or medical provider to continue with LVAD, or lack of poor post-transplant survival. adequate contemporary insurance lower.18 Complications coverage for LVAD. Forty-one of AIT, including patients were discharged with AIT rehospitalizations for heart as BTD failure, indwelling line Sampling technique: complications, and common ventricular arrhythmias. Patient issued from analysis if Finally, in palliative AIT they previously has accept LVAD or HT, had a primary diagnosis of patients, the involvement of pulmonary arterial hypertension or palliative care consultations if they were discharged for followis underutilized and is an up at another institution. Patients important strategy to prevent were categorize complications and improve patients' quality of life at the end of life Cochrane randomized clinical trial

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9	Researcher:	Sample:	Type of intervention: individualized	No Comparison	Results
	Lara Hersberger, MD, B,*Anna Dietz, ,	645 Patients	nutritional support		Our data suggest that
	B,*Helene Burgler, , BAnnika Bargetzi,				among hospitalized patients
	MD, ,BLaura Bargetzi, MD, ,B Nina	Inclusion criteria:	Duration:		with chronic heart failure,
	Kogi- Braun, MD, Pascal Tribolet, RD,	we enter the patient mature with			malnutrition assessed by
	CFilomena Gomes, PHD, DClaus Hoess,	score total NRS of \$3 points,	Frequency:		the NRS is an important
	MD, eVojtech Pavlicek, MD, e Stefan Bilz,	estimated length of stay (LOS)> 4			risk factor for short- and
	MD, FSarah sigrist,	days, and written consent	Instruments:		long-term mortality and other
	MD,FMichael brändle,	,.,			clinical outcomes. The use
	PHD,FChristoph Henzen, PHD, Robert	Criteria exclusion :	EFFORT (Effect of Early Nutrition Support		of individualized nutritional
	Thomann, MD,H Jonas Rutishauser, PHD,				support, as compared to
		exclude patient which admitted to	on Frailty, Functional Outcomes and		
	Drahomir Aujesky, PHD, JNicolas Rodondi,	an intensive care or surgical unit;	Recovery of inpatient medical malnutrition		standard hospital meals, was
	PHD, J, kJacques Donze, PHD, J, I Zeno	the patient is unable to have oral	Implementation procedure:		effective in reducing this
	Stanga, PHD, M Beat Mueller, PHD,	intake; patients receiving long-term			risk, particularly in groups
	BPhilipp Schuetz, MD, MPH	nutritional support on admission;			of patients at high nutritional
		patients with			risk. These data support
	Grubb, Christopher S. Truby, Lauren K.	disease terminal, operation			screening for malnutrition
	Topkara, Veli K. Bohnen,	bypass stomach, anorexia nervosa,			on admission followed by
	Michael S. Yuzefpolskaya, Melana	acute pancreatitis, acute liver			individualized nutritional
	DeFilippis, Ersilia M. Kleet, Audrey	failure, cystic fibrosis, or stem cell			support strategies in this
	Nakagawa, Shunichi Haythe, Jennifer H.	transplantation;			vulnerable patient population
	Axsom, Kelly Colombo, Paolo Takeda,	and patients previously included			1
	Koji Uriel, Nir Sayer, Gabriel Garan, Hasan	in the trial			Data analysis
	Naka, Yoshifumi Farr, Maryjane	Amount: This trial was from Spain			Using descriptive statistical
		_			
	Year: 2021	with 120 patients including report			analysis is presented to
		drop the death that strong >50%			describe the demographic
	Title: Effects Of a Transitional	over a 6 month time period (3).			and clinical variables.
	Palliative Care Model On Patients With	Sampling technique:			
	End- Stage heart Failure: A Randomized	-			
	Controlled Trial				
	Journal type: British Medical Journal				
	Type of research methodology:				
	Randomized Controlled Trial				
	Place: China				
10	Researcher:	Sample:	Type of intervention:	patient in UC	Results
	Olivari, Zoran Giacomelli, Sara Gubian,	patients with chronic disease,	Telemonitoring service On	group accept	During the 12-month
	Lorenzo Mancin, Silvia Vincent, Elisha Di	paramo mai emonio diodioc,	Service on	care and care	follow-up of elderly patients
	Francesco, Vincenzo Iliceto, Sabino Penzo,	Inclusion criteria:			ronon up or ciucity patients
	rameesco, vincenzo illetto, saulilo relizo,	THEIRSON CITECITÀ:		control road lilea	discharged after heart failure
	Michalancala Zanagas Alliin Mana		Dungtions	control road like	discharged after heart failure,
	Michelangelo Zanocco, Albino Marcon,		Duration:	which is	in an intention-to-treat
	Carlo Anselmi, Maurizio Marchese,	hospital discharge after acute		which is determined	in an intention-to-treat analysis, remote monitoring
	-	heart failure within three months	Duration: Frequency:	which is determined in the hospital	in an intention-to-treat analysis, remote monitoring did not improve the
	Carlo Anselmi, Maurizio Marchese,			which is determined	in an intention-to-treat analysis, remote monitoring
	Carlo Anselmi, Maurizio Marchese,	heart failure within three months		which is determined in the hospital	in an intention-to-treat analysis, remote monitoring did not improve the
	Carlo Anselmi, Maurizio Marchese, Domenico Stafylas, Panagiotis	heart failure within three months and previous age ≥.65 plus left	Frequency:	which is determined in the hospital which	in an intention-to-treat analysis, remote monitoring did not improve the combined primary endpoint
	Carlo Anselmi, Maurizio Marchese, Domenico Stafylas, Panagiotis Year: 2017	heart failure within three months and previous age ≥.65 plus left ventricular ejection fraction	Frequency:	which is determined in the hospital which	in an intention-to-treat analysis, remote monitoring did not improve the combined primary endpoint of all-cause mortality and
	Carlo Anselmi, Maurizio Marchese, Domenico Stafylas, Panagiotis Year: 2017	heart failure within three months and previous age ≥.65 plus left ventricular ejection fraction (EF) B40% or EFA40% added	Frequency: Instruments:	which is determined in the hospital which	in an intention-to-treat analysis, remote monitoring did not improve the combined primary endpoint of all-cause mortality and hospitalization for heart
	Carlo Anselmi, Maurizio Marchese, Domenico Stafylas, Panagiotis Year: 2017 Title:	heart failure within three months and previous age ≥.65 plus left ventricular ejection fraction (EF) B40% or EFA40% added GDPA400 (or NT- proBNP A 1500)	Frequency: Instruments: Usual maintenance and remote monitoring	which is determined in the hospital which	in an intention-to-treat analysis, remote monitoring did not improve the combined primary endpoint of all-cause mortality and hospitalization for heart failure, but did significantly
	Carlo Anselmi, Maurizio Marchese, Domenico Stafylas, Panagiotis Year: 2017 Title: The effectiveness of remote monitoring of elderly patients	heart failure within three months and previous age ≥.65 plus left ventricular ejection fraction (EF) B40% or EFA40% added GDPA400 (or NT- proBNP A	Frequency: Instruments: Usual maintenance and remote monitoring	which is determined in the hospital which	in an intention-to-treat analysis, remote monitoring did not improve the combined primary endpoint of all-cause mortality and hospitalization for heart failure, but did significantly improve quality of care life. In the treatment
	Carlo Anselmi, Maurizio Marchese, Domenico Stafylas, Panagiotis Year: 2017 Title: The effectiveness of remote monitoring of elderly patients after hospitalization for heart failure: The	heart failure within three months and previous age ≥.65 plus left ventricular ejection fraction (EF) B40% or EFA40% added GDPA400 (or NT- proBNP A 1500) during hospitalization.	Frequency: Instruments: Usual maintenance and remote monitoring service characteristics	which is determined in the hospital which	in an intention-to-treat analysis, remote monitoring did not improve the combined primary endpoint of all-cause mortality and hospitalization for heart failure, but did significantly improve quality of care life. In the treatment analyses, a trend to increase
	Carlo Anselmi, Maurizio Marchese, Domenico Stafylas, Panagiotis Year: 2017 Title: The effectiveness of remote monitoring of elderly patients	heart failure within three months and previous age ≥.65 plus left ventricular ejection fraction (EF) B40% or EFA40% added GDPA400 (or NT- proBNP A 1500) during hospitalization.	Frequency: Instruments: Usual maintenance and remote monitoring	which is determined in the hospital which	in an intention-to-treat analysis, remote monitoring did not improve the combined primary endpoint of all-cause mortality and hospitalization for heart failure, but did significantly improve quality of care life. In the treatment analyses, a trend to increase the primary endpoint was
	Carlo Anselmi, Maurizio Marchese, Domenico Stafylas, Panagiotis Year: 2017 Title: The effectiveness of remote monitoring of elderly patients after hospitalization for heart failure: The renewing health European project	heart failure within three months and previous age ≥.65 plus left ventricular ejection fraction (EF) B40% or EFA40% added GDPA400 (or NT- proBNP A 1500) during hospitalization. Exclusion criteria: presence of severe comorbidities	Frequency: Instruments: Usual maintenance and remote monitoring service characteristics	which is determined in the hospital which	in an intention-to-treat analysis, remote monitoring did not improve the combined primary endpoint of all-cause mortality and hospitalization for heart failure, but did significantly improve quality of care life. In the treatment analyses, a trend to increase
	Carlo Anselmi, Maurizio Marchese, Domenico Stafylas, Panagiotis Year: 2017 Title: The effectiveness of remote monitoring of elderly patients after hospitalization for heart failure: The renewing health European project	heart failure within three months and previous age ≥.65 plus left ventricular ejection fraction (EF) B40% or EFA40% added GDPA400 (or NT- proBNP A 1500) during hospitalization. Exclusion criteria: presence of severe comorbidities with life expectancyB12month,	Frequency: Instruments: Usual maintenance and remote monitoring service characteristics	which is determined in the hospital which	in an intention-to-treat analysis, remote monitoring did not improve the combined primary endpoint of all-cause mortality and hospitalization for heart failure, but did significantly improve quality of care life. In the treatment analyses, a trend to increase the primary endpoint was observed in the RM group.
	Carlo Anselmi, Maurizio Marchese, Domenico Stafylas, Panagiotis Year: 2017 Title: The effectiveness of remote monitoring of elderly patients after hospitalization for heart failure: The renewing health European project	heart failure within three months and previous age ≥.65 plus left ventricular ejection fraction (EF) B40% or EFA40% added GDPA400 (or NT- proBNP A 1500) during hospitalization. Exclusion criteria: presence of severe comorbidities with life expectancyB12month, inability for use equipment	Frequency: Instruments: Usual maintenance and remote monitoring service characteristics	which is determined in the hospital which	in an intention-to-treat analysis, remote monitoring did not improve the combined primary endpoint of all-cause mortality and hospitalization for heart failure, but did significantly improve quality of care life. In the treatment analyses, a trend to increase the primary endpoint was observed in the RM group. Data analysis
	Carlo Anselmi, Maurizio Marchese, Domenico Stafylas, Panagiotis Year: 2017 Title: The effectiveness of remote monitoring of elderly patients after hospitalization for heart failure: The renewing health European project	heart failure within three months and previous age ≥.65 plus left ventricular ejection fraction (EF) B40% or EFA40% added GDPA400 (or NT- proBNP A 1500) during hospitalization. Exclusion criteria: presence of severe comorbidities with life expectancyB12month, inability for use equipment telehealth, myocardial infarction or	Frequency: Instruments: Usual maintenance and remote monitoring service characteristics	which is determined in the hospital which	in an intention-to-treat analysis, remote monitoring did not improve the combined primary endpoint of all-cause mortality and hospitalization for heart failure, but did significantly improve quality of care life. In the treatment analyses, a trend to increase the primary endpoint was observed in the RM group. Data analysis Using descriptive statistical
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