SELF-EFFICACY AMONG INDONESIAN CHRONIC LIVER DISEASE PATIENTS

by Apriliani Siburian

Submission date: 30-Dec-2020 04:33PM (UTC+0700) Submission ID: 1482046371 File name: 2279-6090-2-LE_rev.docx (44.51K) Word count: 2949 Character count: 16730

SELF-EFFICACY AMONG INDONESIAN CHRONIC LIVER DISEASE PATIENTS

Apriliani Siburian^{1*}, Ching-Fen Chang²

¹Program Studi S1 Keperawatan, STIKes Tarumanagara, Jakarta, Indonesia ²School of Nursing, National Taipei University of Nursing and Sciences, Taiwan

*Correspondence email: s.aprilia@stikes.tarumanagara.ac.id

ABSTRACT

Chronic Liver Diseases are among the most extensive diseases globally and are related to significant morbidity and mortality. Although physical well-being has long been the primary goal of medical care, as chronic disease becomes more prevalent in developed countries, there has been a greater focus on patients' emotional and social well-being. This stud? aimed to describe the self-efficacy among chronic liver disease patients in North Sumatra, Indonesia. This stud? uses a cross-sectional design. The study assessed 102 chronic liver disease patients from two hospitals using the Chronic Disease Self-Efficacy Scales Indonesian version. The participants had moderate self-efficacy (58.8%), followed by high self-efficacy (38.2%). The majority of the patients in this study had moderate self-efficacy because many individuals with chronic liver disease suffer chronic fatigue, abdominal pain and swelling, itchy skin, nausea or vomiting, loss of appetite, and other symptoms that affect self-efficacy. Health professionals should strengthen patients' self-efficacy by engaging in positive activities and enhancing their coping skills.

Keywords: Chronic Liver Disease, Self-efficacy

INT₂₈DUCTION

Chronic Liver Disease (CLD) has shown a serious impact on patients' well-being and devotes to the important morbidity associated with these conditions.¹ Chronic Liver Diseases are among the most extensive diseases globally and are readed to significant morbidity and mortality. Hepatitis B virus (HBV) and hepatitis C virus (HCV) are the major familiar causes of CLD, with HBV estimated to affect 360 million people worldwide and HCV affecting another 200 million. Several distinct complications of cirrhosis include hepatic encephalopathy, ascites, and variceal bleedings.² And also, jaundice, fatigue, dyspnea and can a sect daily life. These complications seriously affect the quality of life for patients with CLD, as these patients suffer many effects.

Self-efficacy attributes an individuals' perception about whether they can achieve a particular activity. In another way, it is an individual's judgment or level of confidence about what they can and cannot do pass the various tasks and situations. Self-efficacy creates a disparity in how people feel, think, and act.³ Self-efficacy relates to a general sense of confidence in people's abilities to accomplish the desired outcome. Selfenhancing or self-debilitating ways in how individuals think optimistically or pessimistically, affected by efficacy belief.⁴ Researchers found an association between self-efficacy and mild physical activity⁵. Patients who can manage their chronic diseases are urged to partner with professionals to learn the most effective ways to maintain a high quality of life at home.

Self-efficacy refers to confidence inability to achieve specific achievement. In general, chronic liver diseases are deliberate in progression, long in duration, a23 require medical treatment because the long recrudescent course of the disease exercises a considerable negative effect on patient health and lifestyle.⁶

Vol. 14 No 2 2020 DOI: http://dx.doi.org/10.33533/jpm.v14i2.2279

Indonesia is the third country of hepatitis B in the Asia Pacific region after China and India. Approximately 13 million Indonesians have been affected by hepatitis B, and about our (4) million are affected by hepatitis C. Quality of life may be diminished in patients with chronic liver diseases. HROOL defines patients' subjective assessment regarding the physical, mental, and social dimensions of well-being. And it has also altered to an important part in clinical and epidemiological studies in gastroenterology and hepatology.⁷

Understanding chronic liver disease patients' self-efficacy can help increase patients' quality of life with this disease. This research is also expected to provide additional information for nurses ad health workers to pay more attention to patients with chronic liver disease self-efficacy.

MATERIAL AND METHODS

This is a cross-sectional study using the Chronic Disease Self-Efficacy Scales Indonesian Version instruments that consist of 33 questions. Stanford Patient Education Research Center develops the scale to define self-efficacy for all kinds of chronic diseases. The questionnaire has done forward and backward translation.8 Scoring of the questionnaires divided into three categories, namely low (33-132), medium (133-231), and high (232-330) self-efficacy. It used a quantitative approach to describe the demography and self-efficacy of the patients in two hospitals. Descriptive statistics were calculated for the study population. This study was conducted on Sumatra island, namely North Sumatra, Indonesia. The self-efficacy instrument using

This study used purposive sampling, recruited all the chronic liver disease patients based on the inclusion and exclusion criteria from two hospitals as respondents in that period. There are 102 participants (63 patients from Adam Malik General Hospital and 39 patients from Sidikalang General Hospital). The patients who visited as outpatients and inpatients department were invited to participate in the study. The researcher waited Jurnal Profesi Medika : Jurnal Kedokteran dan Kesehatan

for the patients at the outpatient department clinic and visited the patients who stay in the inpatient department.

This study's inclusion criteria were inpatients or outpatients with chronic liver disease over a period greater than six months,⁹ and patients must be able to answer the questionnaire questions (compos mentis). Patients must be able to read in Indonesian. They must prove their ability when researchers ask respondents to fill out the questionnaire's demographic data, and patients must be above 1818 ears old (adults). Patients must be willing to participate in the study and sign an informed consent form. The exclusion criteria were patients with acute liver disease (disease of the liver that lasts longer than six months), patients with chemotherapy (liver cancer), the latest diseases, liver chronic and liver transplantation. Patients admitted to the hospital for the first time (not chronic) and unconscious patients.

RES27LT

The demographic of participants is shown in Toole 1. The average age was 46.04 years old; the youngest participant was 18 years old, and the oldest was 88 years old. A majority of participants were in the 41-60year-old age group (n=48, 47.1 %). Males were 52.9% of the total population (n=54). 82.4% (n=84) of participants were classified as having a low education level regarding education level. Most of the participants were self-employed, at 86.3% (n=88). Participants who were married constituted 83.3 % (n=85) of the total. The chronic liver disease duration since diagnosis for half of the participants (50%, n=51) was less than one year (more than six months). Regarding religion, most of the participants were Christian, accounting for 62.7 % (n=64). Significantly, the most ethnicities among the participants were Batak, at 72.5 %. Overall, a slight majority of participants (54,9%) had monthly incomes less than 1,500 IDR.

The results on the Self-Efficacy scale are shown in Table 4.2. Self-Efficacy was tested

using Chronic Disease Self-Efficacy Scales Indonesian Version. It found that most respondents had middle Self-Efficacy that contributes 58.9%, followed by high Self-Efficacy (38.2%) and low Self-Efficacy with 2.9%.

Table 1. Descriptive Characteristics of Participant

Variable N $\%$ Age $20 - 40$ 39 38.2 $20 - 40$ 39 38.2 $41-60$ 48 47.1 >61 15 14.7 Gender N Male 54 52.9 Female 48 47.1 Occupation 88 86.3 Civil servant 14 13.7 Marital status N Married 85 83.3 Single 17 16.7 Destation Since Diagnosis N <1 year 51 50 >1 year-2 years 33 32.4 >2 years 18 17.6 Religion N Muslim 33 32.4 Christian 64 62.7 Other 5 4.9 Ethnicity I Javanese 23 22.5 Batak 74 72.5 Other 5 5 Monthly income I <idr 1,500<="" td="">$56$$54.9$IDR 1,600-3,000$30$$29.4$>IDR 3,000$16$$15.7$</idr>						
20 - 40 39 38.2 $41-60$ 48 47.1 >61 15 14.7 Gender 48 47.1 Male 54 52.9 Female 48 47.1 Occupation 88 86.3 Civil servant 14 13.7 Marital status 85 83.3 Single 17 16.7 Data ation Since Diagnosis $<$ <1 year	Variable	N	%			
41-60 48 47.1 >61 15 14.7 Gender	Age					
>611514.7Gender1514.7Male5452.9Female4847.1Occupation8886.3Civil servant1413.7Marital status8583.3Single1716.7Def ation Since Diagnosis $<$ <1 year5150>1 year-2 years3332.4>2 years1817.6Religion $Muslim$ 3332.4Christian6462.7Other54.9Ethnicity $Javanese$ 2322.5Batak7472.5Other55Monthly income $<$ <idr 1,500<="" th="">5654.9IDR 1,600–3,0003029.4</idr>	20 - 40	39	38.2			
GenderNomeMale 54 52.9 Female 48 47.1 Occupation 88 86.3 Civil servant 14 13.7 Marital status 85 83.3 Single 17 16.7 Total ation Since Diagnosis 17 16.7 $<1 year$ 51 50 > 1 year-2 years 33 32.4 >2 years 18 17.6 Religion 18 17.6 Muslim 33 32.4 Christian 64 62.7 Other 5 4.9 Ethnicity $123.22.5$ Batak 74 72.5 Other 5 5 Monthly income 56 54.9 IDR 1,500 56 54.9 IDR 1,600-3,000 30 29.4	41-60	48	47.1			
Male5452.9Female4847.1Occupation 88 86.3Civil servant1413.7Marital status 14 13.7Married8583.3Single1716.7Def ation Since Diagnosis 1 <1 year	>61	15	14.7			
Female4847.1Occupation8886.3Self-employed8886.3Civil servant1413.7Marital statusMarital statusMarried8583.3Single1716.7D34 ation Since Diagnosis $<$ <1 year	Gender					
OccupationSelf-employed8886.3Civil servant1413.7Marital statusMarital statusMarried8583.3Single1716.7I34 ation Since Diagnosis $<1 year$	Male	54	52.9			
Self-employed8886.3Civil servant1413.7Marital status 14 13.7Marital status 14 13.7Marital status 17 16.7Marital status 17 16.7Marital status constraints 17 16.7Muslim constraints 33 32.4Christian 64 62.7Other 5 4.9 Ethnicity 123 22.5 Batak 74 72.5 Other 5 5 Monthly income $10R$ 56 $< IDR$ $1,500$ 56 $< S4.9$ $1DR$ $1,600-3,000$	Female	48	47.1			
Civil servant1413.7Marital status 13.7 Married8583.3Single1716.7 D34 ation Since Diagnosis 17 < qath ation Since Diagnosis 17 < 1 year5150>1 year-2 years3332.4>2 years1817.6 Religion 33 32.4Muslim3332.4Christian6462.7Other54.9 Ethnicity 33 22.5Batak7472.5Other55Monthly income $10R$ 56 IDR 1,500 56 54.9 IDR 1,600–3,000 30 29.4	Occupation					
Marital statusNarried8583.3Married8583.3Single1716.7 Π_{34} ation Since Diagnosis<1 year	Self-employed	88	86.3			
Married 85 83.3 Single1716.7 134 ation Since Diagnosis <1 year	Civil servant	14	13.7			
Single 17 16.7 I34 ation Since Diagnosis - <1 year	Marital status	Marital status				
Internation Since Diagnosis <1 year	Married	85	83.3			
<1 year 51 50 >1 year-2 years 33 32.4 >2 years 18 17.6 Religion 33 32.4 Muslim 33 32.4 Christian 64 62.7 Other 5 4.9 Ethnicity 322.5 Batak 74 72.5 Other 5 5 Monthly income 56 $5654.9IDR 1,600-3,0003029.4$	Single	17	16.7			
>1 year-2 years 33 32.4 >2 years 18 17.6 Religion 33 32.4 Muslim 33 32.4 Christian 64 62.7 Other 5 4.9 Ethnicity Javanese 23 22.5 Batak 74 72.5 Other 5 5 Monthly income	D ₃₄ ation Since Diagnosi	is				
>2 years 18 17.6 Religion 33 32.4 Muslim 33 32.4 Christian 64 62.7 Other 5 4.9 Ethnicity Javanese 23 22.5 Batak 74 72.5 Other 5 5 Monthly income	<1 year	51	50			
Religion Muslim 33 32.4 Christian 64 62.7 Other 5 4.9 Ethnicity Javanese 23 22.5 Batak 74 72.5 Other 5 5 Monthly income	>1 year-2 years	33	32.4			
Muslim 33 32.4 Christian 64 62.7 Other 5 4.9 Ethnicity Javanese 23 22.5 Batak 74 72.5 Other Other 5 5 5 Monthly income	>2 years	18	17.6			
Christian 64 62.7 Other 5 4.9 Ethnicity Javanese 23 22.5 Batak 74 72.5 Other 5 5 Monthly income	Religion					
Other 5 4.9 Ethnicity 23 22.5 Javanese 23 22.5 Batak 74 72.5 Other 5 5 Monthly income	Muslim	33	32.4			
Ethnicity 23 22.5 Javanese 23 22.5 Batak 74 72.5 Other 5 5 Monthly income	Christian	64	62.7			
Javanese 23 22.5 Batak 74 72.5 Other 5 5 Monthly income - - <idr 1,500<="" td=""> 56 54.9 IDR 1,600–3,000 30 29.4</idr>	Other	5	4.9			
Batak 74 72.5 Other 5 5 Monthly income	Ethnicity					
Other 5 5 Monthly income 5 5 <idr 1,500<="" td=""> 56 54.9 IDR 1,600–3,000 30 29.4</idr>	Javanese	23	22.5			
Monthly income 56 54.9 IDR 1,600–3,000 30 29.4	Batak	74	72.5			
<idr 1,500="" 54.9<br="" 56="">IDR 1,600–3,000 30 29.4</idr>	Other	5	5			
IDR 1,600–3,000 30 29.4	Monthly income					
	<idr 1,500<="" td=""><td>56</td><td>54.9</td></idr>	56	54.9			
>IDR 3,000 16 15.7	IDR 1,600-3,000	30	29.4			
	>IDR 3,000	16	15.7			

Table 2. Descriptive	Statistics of Self
----------------------	--------------------

Effi	icacy	
Variable	Ν	%
Self-Efficacy		
Low SE	3	2.9
Middle SE	60	58.9
High SE	39	38.2

Jurnal Profesi Medika : Jurnal Kedokteran dan Kesehatan

DISCUSSION

The total number of participants was 102 outpatients and inpatients. The average age was 46.04 years old, with the youngest participant 18 years old and the oldest 88 years old. At 47.1%, the highest number of participants was in the 41 - 60 age group. The 20 - 40 age group accounted for 38.2% of participants, with 14.7% of participants over 60 years old. The participants' average age in this study was similar to a study of 72 cirrhosis patients conducted in Iran,10 who also had an a gazage age of 47 years old. The study set out to evaluate the effectiveness of an educational intervention for patients with liver cirrhosis. That study used the Chronic Liver Disease Questionnaire and a knowledge questionnaire to assess patients' knowledge and quality of life. The findings of participants' age from this study and another study because of patients over 40 years old were likely suffered from chronic liver disease than other age groups.

A study was assessed to determine 15 ether HRQL (health-related quality of life) in patients with chronic liver disease differs by type and severity of the liver disease. They also aimed to identify which clinical and physiological factors affect liver function. Like this study, chronic liver disease patients had an average age of 50, with 51% men¹¹.

Participants in a study conducted in South Korea¹² also had similar demographic characteristics to those of this study. The total number of **(**pronic liver disease patients was 139 drawn from the sixth Korean National Health and Nutrition Examination Survey (KNHNES VI). In that study, most patients (56.9%) were in the 45-64 age group, only slightly older tag the most populous age group of 41-60 in this study; the average age of participants was also slightly older at 55.3 years. Kim et al. likewise mentioned that most of the respondents were male (62.6%). It might be caused by alcohol-consuming by most of the males. Batak's male was popular with drinking "tuak", the traditional alcohol since they were young. A study by the research team at the University of California

Vol. 14 No 2 2020 DOI: http://dx.doi.org/10.33533/jpm.v14i2.2279

in 2007 stated that the production of a protein that promotes inflammation appears to be linked to higher liver cancer in men than in women. Regarding the level of education, at 82.4%, the number of participants with low education in this study was somewhat higher than 72.2% in the Korean study. In the Korean study, participants who were married and living with their spouses accounted for 81.2% of total participants. At 83.3%, the number of married respondents was slightly higher in this study.

In this study, the duration of the chronic liver disease since diagnosis for half of the participants was less than one year (more than six months), followed by one year to 2 years at 32.4 %, with 17.6% of patients diagnosed than two years ago. The patients in this study were quite different from those in a study of hepatitis B surface antigen-positive patients,¹¹ in which the majority of patients (60%) had been diagnosed more than ten years ago. That study also used a crass-sectional design. The data in that study were collected from the patients using different tools, namely, the Liver LDSI 2.0, Chronic Disease Questionnete, and EuroQol.Their sample's mean age was 43.3 years, and the majority of patients were men (77.6%). Nearly 90% of the patients in this Iranian sample were married, compared to 83.3% in this study, and more than half of 32em were employed (56.1%), whereas all the patients in this study were employed. Most of the Iranian patients lived in urban areas (97.1%).

A study of chronic viral liver disease patients conducted 31 Serbia. They found that the mean age for patients with chronic viral liver disease was 39 years old, with participants ranging from age 16 to 66 years, and a high percentage of males (64.3%). Most of the participants in the Serbian study were also 12 rried, constituting 61.7% of the total.⁷

Self-efficacy is an individual's belief in their innate ability to achieve goals. Albert Bandura defines it as a personal judgment of "how well one can execute courses of action required to deal with prospective situations." People always struggle to control situations Jurnal Profesi Medika : Jurnal Kedokteran dan Kesehatan

that influence their lives.³ Perceived selfefficacy is defined as a person's beliefs about their capabilizes to perform tasks at the desired level. Self-efficacy beliefs determine how people feel, think, motivate themselves, and behave.

This study measured self-efficacy among chronic liver disease patients using the Chanic Disease Self-efficacy Scales created by Psychometric Data Stanford for its Chronic This Disease Self-Management Study. psychometric instrument was made available and free for public use by Lorig and colleagues' in 1996.¹³ Since this study was conducted in Indonesia, the researcher used the Indonesian version. To measure selfefficacy, this study used the Chronic Disease Self-efficacy Scales, which consists of 39 questions. The Indonesian version was validated in a study of chronic kidney disease patients in Indonesia recruited 39 respondents.14 The questionnaire consists of ten indicators, namely, regular exercises three items), getting information on the disease (one item), obtaining help from the community, family, friends (four items), communicating with physicians (three items), managing the disease in general (five items), chores (three items). doing doing social/recreational activities (two items). managing symptoms (five items), managing shortness of breath (one item), and controlling/managing depression (six items).

This study's findings showed that a substantial majority of participants had moderate self-efficacy (n=60, 58.8%). In comparison, about 40% had high self-efficacy (n = 39, 38.2%), and a tiny minority had low self-efficacy (n=3, 2.9%). Self-efficacy may increase or decrease over time, depending on life events. The questionnaire could be used by nurses, social workers, and other health professionals to strengthen patients' selfefficacy by engaging in activities it describes, such as encouraging or accompanying patients to ask doctors questions and informing doctors of it in advance. It is possible that most of the patients in this study had moderate self-efficacy because many

individuals with the chronic liver disease suffer chronic fatigue, abdominal pain and swelling, itchy skin, nausea or vomiting, loss 29 appetite, and other symptoms that affect self-efficacy.

The findings of this study were similar to those of another chronic disease study among patients with COPD. They found that most of the participants had low self-efficacy. The study explained that symptoms—specifically, breathing difficulties while participating in many activities-were a major reason¹⁵. A study conducted in Israel rated the selfefficacy among nonalcoholic fatty liver disease patients as medium-high. The same study pointed out that self-efficacy was lower among malcoholic fatty liver disease patients than patients with other liver diseases. Sagi et al. explained the role of selfefficacy as a determinant of patients' success at maintaining lifestyle modifications. In general, most chronic disease patients have moderate to low self-efficacy. However, a study of chronic kidney disease patients conducted in Indonesia produced different results, finding high self-efficacy among almost two-thirds (66.67%) of those patients.¹³ Hogever, previous studies about self-efficacy among patients with chronic liver disease are scarce, pointing to a need for more studies that test the self-efficacy, especially in chronic liver disease

CONCLUSION

Healthcare professionals should design supportive programs for older patients to strengthen their self-efficacy and educate them about the disease and where to go for treatment since chronic liver disease requires cooperation from both patients and healthcare providers. In addition, nurses should collaborate with other departments to arrange a private counseling room so that patients who need to talk privately with health providers can do so. A private space is needed to discuss life events that affect self-efficacy since other hospitals do not afford this. Nurses should also encourage patients to form support groups outside the hospital. Also, nurses or Jurnal Profesi Medika : Jurnal Kedokteran dan Kesehatan

healthcare professionals should encourage the family to take care of the patients.

REFERENCES

- 1. Martin LM., Sheridan MJ, Younossi ZM. The impact of liver disease on healthrelated quality of life: a review of the literature. Current gastroenterol rep.;2002. 4:79–83
- Gutteling J, De Man R, Busschbach J, & Darlington A. Overview of research on health-related quality of life in patients with chronic liver disease. Neth J Med. 65(7). 2007. page 227-234.
- Bandura A. Self-efficacy: The exercise of control. New York: W. H. Freeman,1997.
- Urdan T, Pajares F. Self-Efficacy Beliefs of Adolescents. University of Colorado School of Education.Copyright 2006 by Information Age Publishing. 2006.
- Kaplan RM, Atkins CJ, & Reinsch S. Specific efficacy expectations mediate exercise compliance in patients with COPD. Health Psychology, 3 (5). 1984. page 223-242.
- 6. Tehranian S, Jafari S, Yousofi J, Kiani M., Seyedin S., Khakshour A, Kianifar H. Health-related quality of life (HRQOL)
 ²⁰ children with chronic liver disease in North East Iran using PedsQLTM 4.0. Electronic Physician, 7(4). 2015. page 1214–1219.
 ²¹ (tp://doi.org/10.14661/2015.1214-1219)
- Svirtlih N, Pavic S, Terzic D, Delic D, Simonovic J, Gvozdenovic E, & Boricic I. Reduced quality of life in patients with chronic viral liver disease as assessed by SF12 questionnaire. J Gastrointestin Liver Dis, 17(4). 2008; 405-409.
- Pirkya I. Hubungan antara Self-efficacy dengan Kualitas Hidup pada Pasien Gagal Ginjal Kronis yang menjalani Hemodialisa di Rumah Sakit "X" Kota Bandung. University of padjajaran journal. Thesis.2016.
- Sharma A 77 Nagalli S. Chronic Liver Disease. In: StatPearls [Internet]. Treasure Island (FL): StatPearls

Vol. 14 No 2 2020 DOI: http://dx.doi.org/10.33533/jpm.v14i2.2279

Jurnal Profesi Medika : Jurnal Kedokteran dan Kesehatan

ISSN 0216-3438 (Print). ISSN 2621-1122 (Online)

Publishing; 2020 Jan-. Available from: https://www.ncbi.nlm.nih.gov/books/NB 7554597/

- Alavinejad P, Hajiani E, Danyaee B, Morvaridi M. The effect of nutritional education and continuous monitoring on clinical symptoms, knowledge, and quality of life in patients with cirrhosis. Gastroenterology and hepatology bed bench. 12(1).2019; 17-24.
- Molinossi M, Boparai Z, Price N, Kiwi L, McCormick M, Guyatt M., & Gordon. Health-Related Quality of Life in chronic liver disease: the impact of type and severity of disease. The American Journal of Gastroenterology .96(7). 2001; 2199-205.
- 12. 3 m HJ, Chu H, & Lee S. Factor influencing on health-related quality of life in South Korean with chronic liver disease. Health and quality of life outcomes. 16(142).2018.doi:12955-018-0964-1
- 13. Safari M, Alvian S, Naderi M., Pakpour A, Zaben F., & Koenig H. (1055-Cultural Adaptation and Psychometric Assessment of the Liver Disease Symptom Index 2.0 to Measure Health-Related Quality of Life Among Iranian Patients With Chronic Hepatitis B. Journal of Transcultural Nursing. 2016; 27(5). 496-508.
- 14. Brig K, Stewart A, Ritter P, Gonzalez V, Laurent D, & Lynch J. Outcome Measures for Health Education and other Health Care Interventions. Thousand Oaks CA: Sage Publications.1996; pp.2425,41-45.
- Wigal JK, CreerTL., & Kotses H. The BPD Self-efficacy Scale. US National Library of Medicine National Institutes of Health. 1991;99(5):1193-6.

SELF-EFFICACY AMONG INDONESIAN CHRONIC LIVER DISEASE PATIENTS

ORIGINALITY REPORT 12% 19% 18% INTERNET SOURCES PUBLICATIONS STUDENT PAPERS SIMILARITY INDEX **PRIMARY SOURCES** www.wjgnet.com 2% Internet Source hdl.handle.net % Internet Source www.jgld.ro 3 % Internet Source Katerina Karaivazoglou, Gregoris Iconomou, % 4 Christos Triantos, Thomas Hyphantis et al. "Fatigue and depressive symptoms associated with chronic viral hepatitis patients' healthrelated quality of life (HRQOL)", Annals of Hepatology, 2010 Publication onlinelibrary.wiley.com % 5 Internet Source Alex Rodriguez-Palacios, Fabio Cominelli, % 6

Abigail R. Basson, Theresa T. Pizarro, Sanja Ilic. "Textile Masks and Surface Covers – A

'Universal Droplet Reduction Model' Against Respiratory Pandemics", Cold Spring Harbor Laboratory, 2020

Publication

7	Submitted to Adtalem Global Education Student Paper	1%
8	patienteducation.stanford.edu	1%
9	hqlo.biomedcentral.com	1%
10	Submitted to Nazarbayev University Student Paper	1%
11	journals.sagepub.com Internet Source	1%
12	journals.sbmu.ac.ir Internet Source	1%
13	academictree.org	1%
14	energycentral.com	1%
15	Zobair M. Younossi. "Health-related quality of life in chronic liver disease: the impact of type and severity of disease", The American Journal of Gastroenterology, 7/2001 Publication	1%

16	Submitted to K12 Incorporated Student Paper	1%
17	askelterveyteen.com Internet Source	1%
18	link.springer.com	<1%
19	Elegance T.P., Cindy L.K "Chapter 10 Reviews on the Epidemiology, Quality of Life, and Management of Chronic Hepatitis B (CHB)", IntechOpen, 2012 Publication	<1%
20	etd.lsu.edu Internet Source	<1%
21	repository.ub.ac.id	<1%
22	www.iosrjournals.org	<1%
23	ephysician.ir Internet Source	<1%
24	www.mysciencework.com	<1%
25	garuda.ristekbrin.go.id	<1%
	Submitted to King's College	

Submitted to King's College

Jing Liu, Wen H Zhao, Vincenza Capone, Yi Z Li, Jing Wang, Wen Luo. "Validation of the Chinese Version of the Patient' s Communication Perceived Self-efficacy Scale (PCSS) in Out Patients after Total Hip Replacement", Research Square, 2020 Publication

28

Zobair M. Younossi. "Assessment of utilities and health-related quality of life in patients with chronic liver disease", The American Journal of Gastroenterology, 2/2001 Publication

29

Amy H.T. Davis, Virginia Carrieri-Kohlman, Susan L. Janson, Warren M. Gold, Michael S. Stulbarg. "Effects of Treatment on Two Types of Self-Efficacy in People with Chronic Obstructive Pulmonary Disease", Journal of Pain and Symptom Management, 2006 Publication

<1%

<1%

 30 Submitted to University of Ulster Student Paper
 31 Yoshikazu Murawaki, Yujiro Ikuta, Masahiko
 <1%

Yoshikazu Murawaki, Yujiro Ikuta, Masahiko
 Koda, Sadako Yamada, Hironaka Kawasaki.
 "Comparison of serum 7S fragment of type IV
 collagen and serum central triple-helix of type IV

collagen for assessment of liver fibrosis in patients with chronic viral liver disease", Journal of Hepatology, 1996

Publication

32	

Youssef, Naglaa F.A., Ashley Shepherd, and Josie M.M. Evans. "Factors associated with health-related quality of life among patients with liver cirrhosis in Egypt :", Journal of the Egyptian Public Health Association, 2015.

33 www.selcukmedj.org

34	slidelegend.com
	Internet Source

Lan Li, Yuan Liao, Hao Xiao, Tiantian Wang, Jing Liu, Guijuan Zhou, Guanghua Sun, Kang Li, Fujin Huang, Weibin Feng, Jun Zhou. "Prevalence and Risk Factors of Diabetes Mellitus in People over 40 Years Old in Rural Areas of Central Hunan Province", Cold Spring Harbor Laboratory, 2020 Publication

36 pesquisa.bvsalud.org

<**1**%

<1%

<1%

<**1**%

37 ZobairM. Younossi. "Quality-of-life assessments and chronic liver disease", The American

Journal of Gastroenterology, 7/1998

Publication

38

39

www.ncbi.nlm.nih.gov Internet Source

```
<1%
<1%
```

Fatos Xhafa, Ajith Abraham. "Chapter 1 Metaheuristics for Grid Scheduling Problems",
Springer Science and Business Media LLC,
2008
Publication

Exclude quotes	On	Exclude matches	Off
Exclude bibliography	On		