The CardiacTroponin-i (Tn-I) and its role in the Cardiovascular Disease Recovery of Uremic Patients Threated With Repeated Hemodialysis

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Abstract: Cardiovascular diseases (CAD) remain the most highly as one of the most frequent causes of morbidity and mortality in patients treated with hemodialysis uremia [1]. Uremia patients threated with hemodialysis (HD) are at high risk of left ventricular hypertrophy, and myocardial ischemia, acute myocardial infarction, unstable angina pectoris, renal anemia which favors even more cardiovascular complication, early atherosclerosis (aterosclerosis praecox), perikarditis uremica, pleuritis uremica etc. One typical biomarker of myocardial damage except kreatin kinasae (CPK), LDH, CK-MB (kreatin fraction and mioglobin kinasae) in patients with End-stage-renal-disease (ESRD) threated with hemodialysis are also high concentrations -the heart of cardiac Troponin (Tn-I) in this group of patients who are quickly increased over normal values even though a large number of pactients clinical symptoms of myocardial ischemia missing. Purpose of research is the primary of the study ,,cross sectional "is to verify the impact of high concentration of cardiac Troponin-Tn-I and its role in the appearance of cardiovascular disease (CAD) , acute coronary syndrome, acute myocardial infarction the myocardial ischemia, and unstable pectoris angines the patients uremic threated with chronic HD in our hospital. A number of studies have verified and verified that there significant positive correlation between high concentrations of high of cardiac troponin (Tn-I) and cardiovascular disease in patients threated with hemodialysis uremia.

Index Terms: Cardiovascular Diseases (CAD), Haemodialysis (HD), Cardiac Troponin-I (Tn-I), End-stage-renal-disease (ESRD).

1 INTRODUCTION

Cardiovascular diseases (CAD) remain the more you like one of the main causion and more frequent with higher prevalence of mortality in patients treated with HD uremic compared with the healthy population. Numerous studies have verified that cardiovascular complications in patients with etiology multifactor. are determined that patients with ESRD and those treated with HD suffer from a permanent [14] inflammation (MIA syndrome: Malnutritio-Inflamatio-Atherosclerosis) which promotes and helps increase the concentrations of a large number of biomarker inflamation, starting from the PCR (C-Reactive Protein), interleukin-6,) etc.

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Cardiac Tn-I,interleukin- β 1,interleukin-1 α ,interleukin-6.fibrinogen , it is therefore easy to conclude that patients threated with HD uremic chronic development potential candidate diseases with atherosclerotic coro-

nary cardiac ischemia, angine pectoral, acute coronary syndrome with the highest percentage compared with the healthy population [2,3,4]. Delegated much Studies in patients treated with HD have observed a high positive correlation between the degree of renal impairment, high concentrations of Tn-I and CAD, especially in patients who have manifested -Updated and pleurisy which uremic are frequent occurrences during treatment with HD [5,6,7, 28]. The damage myocardial biomarkers : keratin kinase (CPK), MBkinase and keratin frac-tion in patients with ESRD myoglobin and those treated with HD presented with higher values than those clerks, but in most cases in the absence of symptoms ischemia clinical syndrome of acute infarction or heart .Troponin (Tn) is a protein which is found in muscle filament is trans-versal and actin and tropomyosin content. Isoform concentration cardiac serum can be determi-ned with precision and speed using monoclonal antibodies. Tn-I conce-ntrations in patients with ESRD are extremely sensitive and serve as a warning of changes and subsequent cardiovascular disorders, hence its early examination can significantly affect the mode of treatment and reduce the rate of mortality of this group of patients. Compound Tropo-nin consists of three subfracti-ons: Troponin-C (TN-C), Troponin-T (Tn-T) and Tropo-nin-I (Tn-I). TN-C-troponin part of which is related to the Ca ions and results in a changing and complex contra-ction muscle and Troponin-tropomyosin. Half-life of troponin is two hours [8]. TN-C contains 4 Ca connections and is a

component of a thin filament act together and tropomyosin [9].

located in skeletal muscles and slow izoforms located in two types of muscle: skeletal and cardiac ones. Myocardial damage as a result of excessive release of Tn initially manifested by four to six hours after necrosis with peak after 14-18 hours and remain high for at least seven days after atac.Tn-T was discovered by German physician Hugo A. Katus in univer-sity of Heidelberg [10]. Tn-T tropomyosin related to it blocked to form complex tropomy-osin.Tropo-nin-T (Tn-T) in itself contains three isoforms: isoform muscle skeletal fast, slow and cardiac muscle [11.12]. Isoform of cardiac Tn-T is mainly responsible for the contractions of myocard and molecular weight = 37-77 kDa.Tn-T is found in muscles skeletal the fetus, although these subtypes over time in adults (unless you suffer from any dise-ase) can disappear [13]. Patients with severe renal impairment often have higher concentrati-ons of cardiac Tn-T which is difficult to explain the phenomenon. It is assumed that cardiac Tn-T in patients treated with HD is divided into many small molecu-les and kidney failure because of they can not be eliminated but collected and in reduced renal tissue and assisted by the HD, while the healthy individuals where renal function is norma

2 MATERIAL AND METHODS

Working materials for the determination of cardiac Tn-I was used blood taken from veins of 120 patients (of whom 46 were male and 34 female gender) treated with chronic hemodialysis unit with HD next to the University Clinical Hospital in Tetovo and the control group of 120 healthy individuals. The 8.60 years \pm average age of patients treated with HD was = 61.00 ± 8.20 , whe-reas the control group was the average age = 59.00 ± 6.20 , old .Frecuenty of hemodialysis for all patients treated with HD bi was three times a week from 4-4.5 hours.

3 EXPERIMENTAL RESULTS

Concentrations of Tn-I is we develop a disease divided by basic which has brought up ESRD. High values of Tn-I (> 1.0 μ g / ml) were observed in 38% of patients with *arterial hiperten-sion(HTA)-where Tn-I values were* = 2. 420 μ g / ml, to 29% of patients with diabetes mellitus (DM) values of Tn-I = 2.064 μ g / ml, to 26% of patients with chronic glomerulonephrit(GMN Chr) Tn-I values were = 1.060 μ g / ml, to 15% of patients with chronic Intersticiopyelonefrit-(IPN Chr) Tn-I values were = 1.020 μ g/ml, to 20% of patients with terminal renal disease

TN-C	has	two	isoform	rapid	izoform
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excretor thus eliminating particles Tn-T is very regular and is without prejudice to the cardiova-scular system. Determination of the profile of high concentra-tions of several risk factors and favorable proinflamator coronary dise-ase and atherosclerosis as cardiac Tn-I,-C-reactive prote-in, cytokines (-In-6, Interleukin- β 1,Interleukin-1 α , etc ...) and their abnormallities in patients with ESRD at the initial stages of the disease should be proposed as one of compulsory exami-nations in patients with ESRD and those treated with chronic HD, which can significantly help in the prevention of coronary submission of sickness and its consequences. ESRD patients and those threated withchronical HD, with high levels of Tn-I are potential candidates for deve-lopment of myocardial ishemia, weakening of cardiac function, ateromatosy the coronary arte-ries, the acute coronary syndromes, hipertro-phy the left ventricle. atherosclerosis early in grea-ter numbers and more frequent compared with healthy population . Highlevels Tn-I and Tn-T significantly positively correlated with high rates of morbidity and mortality in patients treated with repeated hemodialysis from myocardial infarction.

 Table No. 1: Number of total patients and control group

 comparated by Gender and Age

	м	F	Average age
Patients N°=120	70	50	61.00 ± 8.20
Control group№=120	70	50	59.50±7.80

witho-ut defined values of Tn-I were = $0.098\mu g / ml in29\%$ patients with Renal Policystosis-Dominant Adult (RPDA) Tn-I values were = $1.240 \ \mu g / ml$. From the results obtained in the patients examined (HD-treated) we can conclude that patients with essential hypertension, dia-betes, and chronic glomerulone-phrit chronic intersticiopyelonephrit are higher risk of cardi-ovascular disease compared with the same group of patients but the disease undefined basic and adult renal dominantpolycistosis. Between the values obtained for cardiac Tn-I from patients repetitively treated with HD and group values obtained from the control group (Tn-I = $0003-0064 \ \mu g / ml$) was noted a statistically significant difference with the *p* <0.0001. Obtained from results of our paper are comparatedin many other studies on the role and

high concentra-tions of cardiac Tn-I in patients with ESRD and those treated with chronic hemodi-alysis on the cardiovascular system, compared with values obtained from control group of healthy individu-als. Examination of the concentration of cardiac Tn-based method defined in enzymatic heminonimuniliscente-type analyzer imunometric with Immulite 2000.

	Troponin-I Cardiac (Tn-I)	P
HTA = 38%	2.420µg / ml↑↑	0.0001
RPDA = 29%	1.240 µg / ml ↑↑	0.0001
D.M = 26%	2.064 µg / ml ↑↑	0.0001
GMN Chr = 24%	1.060 µg / mlîî	0.0001
Nondefined = 20%	0.098µg / ml†	0.0001
IPN Chr = 15%	1.020µg/ml††	0.0001
Control Group N ^o =120	0.004-0.070µg / ml	0.0001

Table no. 2 : Concentration of Troponin-I Cardiac (Tn-I)

comparated by disease

4 DISCUSSION

Insufficiency of kidney function due to weakening causes aculmulation and collecting small molecules fragmentation of Tn-I in patients treated with HD which mechanism may be as a reason-ning and explanation of high values of Tn-I examined in ESRD serum of patients treated with chro-nic HD. Filament consists of transversal muscle actin, and tropomyosin complex the Troponin: Troponin-T (Tn-T), Troponin-C (Tn-C) and Troponin-I (Tn-I). Muscle are mediated by the intera-ction between Ca and Ca and Troponin .Exist a small number of studies which have verified that the model of dialysis may modify and change the mono-clonal subfraction of Tn-I, but not accurately are verified. Post mortem of a considerable number of patients treated with HD were found a large number of high concentrations of Tn-I. mikroinfarcts and High concentrations of Tn-I are high positive correlation with prognosis and progress of cardiovascu-lar diseases (CAD) and the myocardial necrosis. Tn-I relates to myofibrileveaktin to form Troponintropomyosin complex. There are a number of studies that have documented and verified a high positive connection between high con-centrations of cardiac Tn-I and septic conditions in patients treated with HD and a fact witness on the impact and role of inflamation and sepsis to increase Tn-I values. Correction, prevention and early treatment of risk factors: treatment of various infections, treatment of dyslipidaemia, smoking cessation and konsum, treatment of HTA, regular use of aspirin, regulation of blood glucose, labora-tory examinations of CPK, CK-MB, LDH, ECG and Doppler Colorechocardiography the carotid arteries (to detect the presence atheromatosity tiles) can significantly affect the prevention of cardio-vascular diseases and myocardial ischemia this group of sick people clothes [15,16,17,18,]Tn-I is mostly present in heart tissue muscle and is responsible for tightening or contraction of the myocar-dium during cardiac ischemia .Tn-I is the molecular weight of 23.90-

KDA and that in itself contains 209 residues. Tn-I in position 22 and 23 contains two amino acid residues of the amino acid residues Serin. Të both in vivo may phosphorilising with the aid of Protein-A-kinase and protein form four forms: a defosfokinasae, two and a bisfosfokinase, monofosfokinase. Phosphorylation of Tn-I and protein changes in the structure of his own to bring up his own modify-cation and intera-ction with other forms of troponin and the Tn-I antibody. Before 15 years Tn-I is known as a marker of damage and injuries convincingly on the heart muscle, therefore Tn-I last decades as a condensed, golden marker "and more specific in the diagnosis of myocardial infarction meet with CPK, CK-MB, LDH and myoglobine. Coronary Reperfusion is closely associated with a tremendous number of changes in cardiac biomarker . Troponin initial findings are thought to be due to the release of a cytoplasmic components and prolonged presence in Tn in serum, caused by ongoing division so related to a structural component. 20-48% of patients with pain precordial but without fulfilling the normal criteria for myocardial infarction have increased values in serum troponin. This is important because it is vacant during angiography in patients with high values of Tn atheromatosity not noticed while the opposite plates of patients with low Tn values were obse-ved during angiography in coronary arteries athermatosity plates. American Society of Cardiology in a consensus together with the American College of Cardiology has proposed that the increased valu-esof cardiac Tn-I serve as a marker of acute myocardial infarction. There is documented evidence that even during a uremic pericardit are high values of cardiac Tn-I in particular in patients treated with recurrent chronic HD [28]. Values are troponin increased not only during but also myocardial infarction (IM) in patients with cerebro-vascular insult, insult subarachnoiddal, cerebral hemorrhage, endo-crine disease, polymiositis, dermatomy-ositis and malignomat.

Numerous studies in intensive centers in patients with septicemia and their intubed in plasma were observed increased values of Tn-T and Tn-I, which tell to a close not function between left ventricle and the presence of multiorganicinju-ries, but still is no clear correlation between the duration of disease, survival and level of damage to vital organs with values in excess of Tn-T and Tn-I. Even in patients with ESRD are examined, the values of Tn-TdheeTn-I in the absence of active coronary disease. To close 20-75% of patients treated with HD are higher concentrations of Tn-T and close to 25-53% higher concentrations of Tn-I. Over time more than a year, concentrations of cardiac Tn-I may undergo change to 50%. The presence of coronary heart disease, diabetes, and hypertension, glomerulonephrit-known as risk factors in patients treated with HD significantly exa-cerbate health damage, already damaged by the process of hemodialysis [9,20,21]. In Given the abnormal frequency of Tn-I in patients with ESRD by many scientists is proposing that the level of Tn-I serve as a specific marker for ischemia the heart of this group of patients. Changes, modifications, and biochemical effects of cardiac Tn-I uremic patients are still unknown. In a retrospective analysis, cross-sectional of 227 patients threated with chronic HD is verified that these patients increased concentrations dominateTn-T and cardiac Tn-I are manifested with unstable pectoral angina symp-tomms (APNS), but with ST -segment not very express. Concentrations of Tn-T and cardiac Tn-I in these patients have been increased by 43-60%. Increased levels of Tn-T and cardiac Tn-I showed a high positive correlation with hipercreatinemia but documented that HD treatment had no effect on growth and indukcion values of Tn-T and cardiac Tn-I. Mortality in these patients was 46.3% of acute coronary syndromes consequences. In patients with IRKT and those treated with HD diagnosis of myocardial necrosis is extremely difficult because other biochemical markers of myocardial damage such as CP, CK-MB and LDH are easily grown so early therapeutic intervene-tions in a timely can significantly affect the mortality rate within the group of patients bait. Over 1/3 of pati-ents with ESRD nonsymptomatic treated with HD have cardiac Tn-I increased. Tn-I levels rema-in stable over a threemonth period and treatment with HD does not affect the reduction or normali-zetion of higher concentrations of cardiac Tn-I [22]. Etiology of high concentrations of Tn-I in patients with ESRD and those treated with HD is still unknown. Some studies better designed slim but have tried to find a link between high values of Tn-T and Tn-I with low values of glomerular filtration rate (GFR), but failed to find any convincing correlation. Askoy with his own associates in their analysis of 62 patients treated with HD and ESRD and heart disease observed an association and connection to positive high intermediate to high

concentrations et Tn-T and Tn-I with a low degree the GF and the high degree of cardiac injury as defined .All contemporary studies, multicen-tric and statistical (regression) on the high values of Tn-T and TN-I and low glomerular filration in ESRD patients with and those treated with HD, have documented that there is a high positive corre-lation with statistically significant regardless of the basic disease. There is documented evidence that high concentrations of Tn-I in patients with low FG, ESRD and treated with HD present a high risk of cardiovascular occurred-nces of sickness regardless basic renal disease, and duration of treatment with HD [23,24,25,26,27]. In patients treated with HD, ESRD recurring presence of high concentrations of oxidized cholesterol (LDLox), IDL and VLDL further increase and accelerate the secretion of inflammatory cytokines: interleukin-1 (Inl-1), Inl-6 that confusion-with further increase the negative effect of Tn-I and manifestations of CAD, Inl- β , inl-1 α , InL-6. The prevalence of inflammation in patients treated with HD, ESRD is very high and is still more aggravated by the constant presence of various infecti-ons: bacterial, Virusal, frequent trauma, infections and fistulas artheriovenos or femoral catheter used as interference to the performance of the HD sessions. It is the verify that the patients treated with HD, oxidized LDL-cholesterol (LDLox), IDL and VLDL secretion of cytokines accelerate proinfla-sumers as inl-6, PDGF (Plateledderived-Growth-Factor), TGFB (Transforming- Growth-Factor-Beta), TNF-α and CRP and are effects and enhancements to the development of processes and CAD atherogenity of this group of patients. Atheromatos plates observed in the artery Carotis media in most cases corres-pond to positive values in excess of cardiac Tn-I. Lesions of the above have been verified with the help of non-invasive methods: B-modem high resolution ultrasonogra-phy used for tracing and tracking of changes atherosclerotic to CIMT (Carotid-Intima-Media). Several studies have confir-med that European for Cardiovascular disease pathologies are responsible for the death of 25-45% of the Patients treated with HD. Factors of submission of CAD (Cardiovascular Disease) in patients treated with HD are many diverse etiology. Uremic cardiomyopathy is closely related to high positive correlation with the action of uremic toxins. inflammatory mediators, hiperparathiro-idism-secondary and MIA syndrome (Malnutritio-Inflamatio-Atherosclerosis). It is the establish-ed that in patients with uraemia, infract of infarction and CAD are 10-15 times more frequent, and mortality to 53% times more frequent compared with patients with other primary diseases.

5 CONLUSION

In conclusion we may conclude that a significant number of patientsWITHesrd threated withchronical

IJSER © 2014 http://www.ijser.org hemodialysis(HD) regardless of underlying disease has led ESRD (HTA, Chronic Glomerulonephritis, to Intersticiopyelonefritis chronica undefined illness and Adult Dominant Renal Policystosis) showed concentrations high cardiac Tn-I are in accordance with the results published and documented by a large number of studies on the role and effects of increased cardiac Tn-I in patients with ESRD and those treated with chronic HD. In all patients examined were present CAD symptoms, unstable pectoral angina, post myocardial infarction, the myocardial necrosis, and cardiac ischemia highlevels cardiac Tn-I obtained from patients showed a statistically significant positive correlation p < 0.0001, compared with values obtained by the group controller of healthy individual.

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