

Effective Treatment in Patients with Valvular Heart Disease: Mitral Stenosis Complicated by Arterial Fibrillation

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Valvular heart malady is freely related with Blood vessel fibrillation and more than	
onethird of patien	ts with Blood vessel fibrillation have a few shape of Valvular
heart infection Amor	ng patients with extreme Valvular
heart infection counting those experiencing surgical and transcatheter aortic or mitral	
valve intercession, Blood vessel fibrillation is related with less ideal clinical results.	

Keywords:

mitral stenosis, arterial fibrillation, valvular heart disease, mechanical heart prostheses.

Introduction. Compared to Blood vessel fibrillation patients without Valvular heart infection. the chance of thromboembolism and stroke is expanded among Blood vessel fibrillation patients with Valvular heart malady other than mitral stenosis and mechanical heart prostheses, generally owing seasoned age to more and more visit comorbidities. Whereas patients with moderateto-severe mitral stenosis and mechanical prosthetic heart valves require anticoagulation with VKAs, there's no prove that the nearness of other Valvular heart illnesses counting aortic stenosis/regurgitation, mitral spewing forth, bioprostheses, or valve repair ought to alter the choice of OAC. In a meta-analysis of the four significant RCTs comparing NOACs with VKAs, the impacts of NOACs vs. VKAs in terms stroke/systemic of embolism and dying hazard in patients with Valvular heart illness other than mitral stenosis and

mechanical prosthetic heart valves were consistent with those within the primary RCTs. observational ponder, **NOACs** In an were related with way better results, with decreased rates of ischaemic stroke and major dying compared to warfarin in Blood vessel fibrillation patients with mitral stenosis[1]. As of late. a utilitarian categorization Valvular of heart infection in connection to OAC utilize was presented, categorizing patients with moderate-severe or rheumatic mitral stenosis as sort 1 and all other Valvular heart malady as sort 2.

discussion. Results and There are crevices in prove on NOAC utilize in Blood vessel fibrillation patients with rheumatic mitral valve infection, and amid the primary 3 months after surgical or transcatheter of implantation а bioprosthesis, and observational information with respect to NOACs utilize after transcatheter aortic valve implantation are clashing. An RCT in non-Blood vessel fibrillation patients comparing rivaroxaban 10 mg every day with headache medicine after transcatheter aortic valve was ceased early implantation due to higher dangers of passing or thrombo-embolic complications and dying within the rivarox. Recommendations for patients with valvular Arterial heart disease and fibrillation seriousness of VHD, counting 1) the nearness or nonattendance of indications,

2) the seriousness of VHD, 3) the chance of noncardiac mediation, 4) the reaction of the LV and/or RV to the over-burden caused by VHD, and 5)

the pneumonic course systolic weight. On the off chance that the understanding meets standard criteria for a cardiac intercession, it is judicious to concede elective

noncardiac strategies and continue to valve mediation first.1-4 In any case, in crisis circumstances. noncardiac may be essential within the nearness of uncorrected serious valve infection. All patients with serious VHD who are experiencing noncardiac advantage from an assessment by a Heart Group comprising of a cardiologist, cardiac anesthesiologist, and cardiac specialists, in coniunction with the specialist performing the method. In patients with extreme VHD who are experiencing low-risk surgical methods or with gentle to direct VHD patients [2]. in noninvasive checking in interview with а cardiovascular anesthesiologist may be all that's required. In patients with serious VHD who are experiencing elevated-risk noncardiac, choices ought to be made as to whether to continue with the noncardiac and whether intrusive hemodynamic TEE or imaging checking ought to be performed intraoperatively and postoperatively in setting an seriously care In asymptomatic patients with significant VHD who don't meet standard criteria for intercession, the hazard related with the noncardiac method can be minimized bv choosing anesthetic an approach that's fitting to the

valve injury and guaranteeing the next level of intraoperative (and perioperative) checking, taking into

consideration the fundamental valvular anomal y, its impact on LV work, and comorbidities. In patients with VHD, the cardiovascular chance of noncardiac surgery is additionally affected by other cardiovascular conditions, such as LV and RV brokenness, CAD, pneumonic hypertension,

and fringe course illness. In patients with direct or more prominent degrees of AS, the hemodynamic impacts of anesthesia and surgery

are ineffectively endured; indicators of unfavor able results incorporate seriousness of AS, coexisting MR, aspiratory hypertension, and CAD [3]. Be that as it may, these comorbidities moreover increment the chance of AVR. Information are restricted, but the riskbenefit proportion proceeds to

favor overseeing asymptomatic patients with extreme AS who are experiencing noncardiac surgery with hemodynamic checking and optimization of stacking conditions, instead of considering prophylactic The persistent with AVR. rheumatic MS who is experiencing noncardiac surgery is treated in a way comparative to the quiet with Regurgitant injuries too pass on an expanded hazard of cardiac complications in patients experiencing noncardiac surgery and hence require cautious assessment and hemodynamic checking. **Recommendation-**Specific Strong Content 1. Asymptomatic patients with serious AS and a typical LVEF can experience noncardiac surgery with worthy hazard, especially within he nonattendance of serious CAD [4]. Hence, pre-

operative assessment to prohibit serious CAD with CT or angiographic imaging may be valuable. In these patients with serious asymptomatic AS, cardiac complications be decreased by can periprocedural persistent optimization of stacking conditions, in this manner maintaining а strategic distance from hypotension and tachycardia.

Sinus cadence with typical heart

rate ought

Tachycardia to be kept up. and systemic hypotension may result in diminished coronary perfusion weight, improvement of arrhythmias ischemia. myocardial damage, or cardiac disappointment, or passing. Periprocedural hemodynamic checking with a right-heart catheter or intraoperative TEE may be especially valuable to permit ceaseless opti mization of stacking conditions. Intraoperative postoperative observing of and intracardiac blood weight and volume are actualized beginning within the preoperative period and proceeding until hemodynamics are steady, up to 24 to 48 hours the strategy. Common anesthetics after are well endured, and the anesthetic agents should be chosen to preserve sinus beat and normotension. Phenylephrine or norepinephrine can be utilized to extend blood weight in patients with no noteworthy CAD.[5] In case of systemic hypertension, blood vessel dilators, such as short-acting calcium channel blockers. are favored. Epidural or spinal anesthetic mediations ought to be adjusted to maintain a strategic distance from fast changes in systemic weight, utilizing as it were highdilution neuraxial neighborhood anesthetic specialists i combination with opioids[6]. 2. n In patients with direct or more asymptomatic prominent degrees of rheumatic MS with a pneumonic supply route systolic pressure acute pneumonic edema. Tachycardia ought to be dodged since of the abbreviated diastolic filling time over the stenotic mitral LV valve, coming about in an increment in LA pressure[7]. In asymptomatic patients with noteworthy rheumatic MS and with a pneumonic supply route systolic weight >50 mm Hg, the hazard of elective middle- to highrisk noncardiac surgery is significantly higher, these patients ought to be assessed and SO treated as sketched out within the rheumatic asymptomatic MS section. In patients with critical MR and ordinary LV systolic with a pneumonic supply route systolic weight 24 hours, and major arrhythmias, than those of case-matched controls without AR. Diminished LV systolic work, raised serum creatinine >2 mg/dL, and middle- to high-risk noncardiac surgery were indicators of higher hazard of cardiopulmonary complications and passing.. Dodge bradycardia when AR is show since of the increment in add up to diastolic time. These patients are observed with intrusive systemic blood vessel and venous catheters and/or TEE and are conceded postoperatively to an seriously checking setting. Medical Treatment to Treat or Avoid Illness Movement: In patients with early VHD, counting those with calcific or myxomatous malady, there are right now no treatments to anticipate malady move ment within the valve flyers. Instep, current proposals are coordinated toward und erstanding checking, with the expectation to mediate once serious infecti on is show that comes about in indications or unusual cardiovascular work. Essential science thinks about are required to recognize potential for avoidance of dynamic VHD. targets Centered translational ponders utilizing touchy , progressed imaging markers of malady movement may permit more fast clin ical usage and superior plan of RCTs for promising modern treatments. There too has been small thought of the interaction of valvular. ventricular. and vascular inclusion within the infection prepare. Extra thinks about are required on treatments that might avoid the unfavorable results of VHD, such as LV brokenness and pneumonic hypertension. Most vitally, quiet instruction and enabling pati ents to be dynamic members in overseeing their wellb eing conditions and partaking in shared decision-making are fundamental. Anticoagulation (vitamin K enemy [VKA] or heparin) is shown in patients with 1) MS and AF (paroxysmal, diligent, or changeless), 2. MS and a earlier embolic occasion, or 3) MS and thrombus [8] a cleared out atrial (Level of Prove: B) Within the presurgical time,

patients with MS were at tall chance for blood vessel embolization, which was assist raised in those with AF and earlier embolic occasions. Anticoagulation with VKA has long been suggested for patients with MS with AF or earlier embolism and has been SO well acknowledged that patients with MS have for the most part been prohibited from AF trials looking at the utility of anticoagulation. One exemption to trials barring patients with MS the NASPEAF is (National Consider for Anticipation of

Embolism in Atrial Fibrillation) trial. Of the 495 highrisk patients within the cohort, 316 patients had MS. Of these 316 patients, 95 had a earlier embolization. Patients within the ponder were randomized to standard anticoagulation with VKA (worldwide normalized proportion [INR]

objective 2 to 3) versus the combination of an antiplatelet specialist and VKA anticoagulation with a lower INR objective (0.10 to 2.5). The think

about illustrated a exceedingly critical expande d chance for embolism among those patients with VHD with earlier occasions versus those without (9.1% versus 2.3% over 3 a long time; p It is well known that the extent of the cardiac cycle involved by

diastole diminishes with expanding heart rate, subsequently expanding the cruel stream rate over the mitral valve (expecting consistent cardiac yield) with a ensuing rise in cruel mitral slope in MS in extent to the square of the stream rate. A think

about of typical volunteers experiencing bike w ork

out echocardiography illustrated a decrease wi thin the diastolic interim from 604 milliseconds 219 milliseconds as the to heart rate expanded from 60 beats per miniature to beats 120 per diminutive demonstrating a 63% decrease in add up to diastolic time. Keeping up the cardiac yield would same require а

38% increment in cruel stream rate amid diast ole, which, by squared connection of the Bernoulli condition, requires an increment in cruel mitral angle of roughly 9 0%. Hence, it is levelheaded to think that restricting tachycardia with beta bar can be useful in patients with MS in ordinary sinus beat. In any case, the as it were RCT on the affect of beta bar on work out length in

MS fizzled to appear this healthy impact. In spite of the fact that the work out heart rate was altogether diminished and diastolic filling interim expanded by 40%, there was no increment in useful capacity, and maximal O2 utilization really fell by 11%. with cardiac record falling by 20% when patients with beta barricade. were treated One ponder had more unbiased comes about in a trial of 17 patients with NYHA lesson I and II MS, and 7 patients had change in maximal oxygen utilization, though 4 had a disintegration in symptoms[10]. By and large, anaerobic edge was decreased by 11% with atenolol treatment. SO

these considers don't back the common utilize of heart rate control in patients with MS and ordinary sinus cadence. In any case, in chosen patients

whose indications compound extraordinarily w ith work out, a trial of beta barricade could be considered. Other negative chronotropic specialists have not been assessed in patients.

Conclusion:

The objective of restorative treatment for mitral stenosis is to decrease repeat of rheumatic fever, give prophylaxis for infective endocarditis, diminish indications of aspiratory clog (eg. orthopnea. paroxysmal nighttime dyspnea), control the ventricular rate in case atrial fibrillation is show. and anticipate thromboembolic complications. Because rheumatic fever is the essential cause of mitral stenosis, auxiliary prophylaxis against gather A beta-hemolvtic streptococci (GAS) is recommended[11]. Length of prophylaxis depends on the number of past assaults, the time passed since the final assault. the chance of introduction to

GAS contaminations, the age of the persistent,

and the nearness or nonappearance of cardiac involvement.

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