RETRACTION

The article specified below is retracted. It is an inadequate review of recently published articles that appeared in Brazilian scientific publications, contains no original results, and was written for the information of readers of Clinics. The authors have been notified and agree with the retraction.

- Patel K, Caramelli B, Gomes A. A survey of recently published cardiovascular, hematological and pneumological original articles in the Brazilian scientific press. Clinics. 2011;66(12):2159–68.

REVIEW

A survey of recently published cardiovasculac, hematological and pneumological original articles in the Brazilian scientific press

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Recent original scientific contributions published in selected Brazilian regiodicals and classifiable under cardiovascular and pulmonary subject categories cover a wide range of the specialties, both clinical and exprimental. Because they appear in journals with only recently enhanced viability, we have decided to highlight a number of specific items appeared in four Brazilian journals, because we understant that this is an important subsidy to keep our readership adequately informed. These papers cover on an area in both fields.

KEYWORDS: Cardiovascular; Pneumology; Clinical science; Basic research.

Patel KK, Caramelli B, Gomes A. A survey of recently published cardiovascular, hematological a continuous continuous cardiovascular, hematological according continuous cardiovascular, hematological according continuous cardiovascular, hematological according cardiovascular, hematologic

Received for publication on September 27, 2011; First review completed on November 7, 2 1..., cepted for publication on November 7, 2011

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INTRODUCTION

Recent original scientific contributions published in selected Brazilian periodicals and classifiable under Cardiovascular, Hematological and Pulmonary subject categories cover a wide range of sub specialties, oth clinical and experimental. Journals in which they appear (Arquivos Brasileiros de Cardiologia, Jorna Lesileiro de Pneumologia, Revista Brasileira de Cirurgia Cardio scular, Revista da Associação Médica Brasileira) have only recortly acquired an enhanced level of visibili'. Hence we understand that is appropriate and necessary to highlight a number of specific items appeared in these four Brazilian journals, because we understand that to is a important subsidy to keep our readership loquately informed. These 113 papers (49 Cardiovascul, 3 Latological, 64 Pneumological, 4 of which are in ordisciplinary) cover extensive sub-areas in both fields. Section of papers to be highlighted was directed tow, ds giv. g not only information about the resear i but it show the range of distribution of this work. Mest (but not all) of it stems from Brazilian based we k. Table. 1 and 2 specify how they are distributed between the sub-specialties of the three major biomedical are of k. wledge.

Table 1 di plays relation distribution frequencies of 52 selected par ers papers on Cardiology. Thirty six papers are surgical, axteer clinical. Within the surgical papers, Coronary into y byp is surgery reports, not surprisingly

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No potential conflict of interest was reported.

were ur most frequent hits. Within this category 5 articles covered the themes of scores and risks. Magedanz et al. 1 r cructed a score risk model for use in daily practice to predict the risk of mediastinitis for patients undergoing oronary artery bypass grafting. The score includes routinely collected variables and is simple to use. Cadore et al.² develop a score system capable to predict mortality in patients submitted to myocardial revascularization surgery, using clinical variables easy to obtain, which showed capability to predict mortality in patients submitted to myocardial revascularization surgery in our Hospital. Three papers focused on EuroSCORE: de Carvalho et al.³ critically analyzed the EuroSCORE logistic model application in 2,692 patients undergoing Coronary Artery Bypass Grafting in four public hospitals in the Rio de Janeiro and claim that the differences in the prevalence rates for the risk factors associated with its low power of discrimination, hamper recommendation for its use in Brazil, without essential adjustments. Sa et al.4 evaluated EuroSCORE applicability in patients undergoing coronary artery bypass graft surgery at the Division of Cardiovascular Surgery of Pernambuco Cardiologic Emergency Medical Services and found it to be a simple and objective index, revealing a satisfactory discriminator of postoperative evolution in patients undergoing CABG surgery at their institution. Nery et al.5 compared the Cleveland Clinical Score and EuroSCORE when evaluating patients submitted to elective coronary artery bypass grafting in Rio Grande do Sul and found both to be effective to evaluate risk of death in patients electively submitted to CABGS.

Two papers looked at the interaction of exercise with Coronary Artery bypass surgery: Botega et al.⁶ assessed the behavior of cardiovascular variables during an in-hospital cardiovascular rehabilitation program in patients after myocardial revascularization surgery and conclude that

Table 1 - Distribution of highlighted Cardiology, Hematology articles by subject categories.

General subjects	Sub-categories	# of hits	reference
surgical	Coronary Artery Bypass	11	1-11
	Surgery		
	Valve	9	12-20
	Congenital Heart	4	21-24
	pathology		
	Transplant	3	25-27
	Other	8	28-36
clinical	Hypertension	4	37-40
	Exercise	2	40-41
	Congestive Heart Failure	3	42-44
	other	8	45-52
Hematology	General	3	53-55
Renal	Cardiovascular related	2	56,57

the exercises proposed proved to be safe with the change in key physiologic variables throughout the experiment below recommended values for the hospitalization phase. Furthermore, the RPE scale appears to have a correlation with some hemodynamic variables and thus may be a useful tool for this group of patients. Martini and Barbisan⁷ investigated the effect of physical activity in leisure time on the prognosis of patients two years after coronary artery bypass grafting and found that such activity does not modify the late prognosis but that the bypass graft itself promotes physical activity and improves long-term functional capacity.

Pulmonary function interested two cardiac surgery research groups: Guizilini et al.⁸ evaluated early post-operative pulmonary function in patients submitted to afpump coronary artery bypass grafting, comparing the conventional midsternotomy with the ministernotomy approach and found that ministernotomy led approach and recovery of pulmonary function. Barros et al.⁹ evaluated respiratory muscle training per rmed after the revascularization surgery and found that it any increase ventilatory capacity.

Saphenous harvesting was studied y Hijazi¹⁰, who compared the difference in wound omplicatio and infection rates between two saphenous vein har esting techniques, long incision versus multiple shere rrupted incisions (tunneling) for coronary the bypass grafting at King Abdullah University Hospital - Tord in and found that veins harvested using saphenous to a tunneling were associated with fewer words complications than the traditional longitudinal method.

Gabriel et al. 11 assesse who here the main pulmonary artery controlled perfusion or cardiopulmonary bypass modifies brain natriu etic peptic, levels expressed by the ventricular myocar in. and found that main pulmonary artery controlled perfusio, for 30 minutes did not yield substantial modifications in brain natriuretic peptide expression or in the histological pattern of the right ventricular procar aum.

Valve surger, was the object of nine papers, four on

Valve surger, was the object of nine papers, four on mitral velocities are on the aortic valve and two general Line et al. 12 studied aims to evaluate the surgical treatment of in fibrillation with ultrasound ablation conconnect to mitral surgery in patients with permanent atrial fibring tion and claim that patients who received treatment for atrial fibrillation simultaneously with valvar surgery had advantages related to the control group.

Table 2 - General distribution of highlighted themes in Pneumology broken down into subject specialities.

General themes	hits	refere Le
asthma	13	-70
Mechanics and Ventilation	11	8,9,33, 1-7
Lung Infections	10	79-88
COPD	5	89-5
Oncology	5	9/ 18
Other		r -113

Benfatti et al.¹³ analyzed the it luence of Ising of epsilon aminocaproic acid in the bedin, and red-cell transfusion requirement in the first conty-tour hours postoperative of mitral valve sur ery. They include that the epsilon aminocaproic acid will be to reduce the bleeding volume and the red-cell tra. sfusion requirement in the immediate postoperative of patients subm. ed to mitral valve surgery. Guedes et al. 14 less be a technique and results of mitral valve treatme by obtanterolateral thoracotomy using aortic cannula. In far cardiac pulmonary bypass and claim it is a simple, sa. and reproducible technique. Guedes et al.¹⁵ loo analyzed cardiac morphology and function using rea time mensional echocardiography in individuals subn 'tt' a to mitral valve repair with Double Teflon technique. To y describe a left atrial and ventricle reverse remodeling as ciated with an improvement in left atrial on during the study. Gaia et al.16 developed a cathete. nounted aortic bioprosthesis for aortic implant and con lude that transapical implantation of catheterounte bioprosthesis is a feasible procedure. do Amaral stress the need for replacement of the valve, ascending aorta and aortic with coronary reimplantation in atients where anti-coagulation is undesirable, is increasg. They evaluated the hemodynamic performance of an aortic valved conduit made with glutaraldehyde treated bovine pericardium (AVCP) in animals and find that hemodynamic outcomes found are similar to physiological parameters. Dias et al. 18 analyzed early and late results of aortic root reconstruction with aortic valve sparing operations and the composite mechanical valve conduit replacement. And claim that this has a low early and late mortality, a high survival free of complications and low need for reoperation. Lavitola et al.¹⁹ compared the effectiveness of Aspirin vs. Warfarin in thromboembolism prevention in patients with Atrial fibrilation and claim that in patients presenting fibrillation for less than a year and no previous embolism, aspirin is little effective. However, in patients with lower-risk mitral valvulopathy (mitral regurgitation and mitral biological prosthesis), especially in cases presenting contraindication to or low adherence to warfarin, aspirin use can present some benefit in thromboembolism prevention. de Campos et al.²⁰ To evaluate the occurrence of complications in patients with mechanical heart valve prostheses undergoing anticoagulant therapy optimized through specialized clinics. And find that the period of time in which patients remain within the desired anticoagulation interval directly relates with occurrence of complications.

Congenital heart pathology was studied in four selected papers. Maluf et al.²¹ studied patients with complex congenital heart disease, characterized by right ventricle hypoplasia, had a palliative surgical option with one and a half ventricular repair and claim that surgical treatment

of the congenital cardiac anomalies in the presence of a hypoplastic right ventricle by means of one and a half ventricle repair has the advantages of reducing the surgical risk of biventricular repair compared to the Fontan circulation. da Rocha et al.²² assessed the morbidity and mortality after Jatene's operation using lactate as the main marker and claim that morbidity and mortality can be assessed with the serum lactate levels, suggesting increased values in the third hour is suggestive of a worse prognosis. de Souza et al.²³ studied the mortality rate of children undergoing to Fontan operation and determined whether the hypoplastic left heart syndrome is not a risk factor for hospital mortality. Rosa et al.24 checked on the frequency and types of congenital heart defects in a sample of patients with oculo-auriculovertebral spectrum, in an effort to correlate presence of these defects with other clinical characteristics and evolution. They find that cardiac malformations, mainly conotruncal and septal defects, are frequent among such patients. Frequency found in our study was statistically similar to the majority of works described in literature where it ranged from 18 to 58%.

Cardiac Transplants. Coronel et al.²⁵ described and compared pre-and postoperative physical and pulmonary capacity of patients who underwent heart transplantation and conclude that changes in ventilatory function of subjects undergoing cardiac transplantation are predictable: respiratory muscle strength and lung capacity recover within two weeks and a good strategy is to aim at at an improvement of functional capacity above pre-operative levels. Yoshimor et al.26 studied cardiovascular behavior and safety regar ing a low-intensity exercise program for heart transplant candidates with severe heart failure and find that it roved to be safe and well tolerated, but requires mor toring Dinkhuysen et al.²⁷ evaluated pulmonary artery ess re with sodium nitroprusside before transplanting and sim that the procedure may allow conversion orthotop. technique.

Nine papers on cardiac surgery fall under rious categories. Abreu-Silva et al. 28 evaluate the association between plaque volume before the stenting through angiography and clinical outcomes and conclude that the volume of atheromatous plaques before stenting to as higher in patients with MACE on clinical follows at one year, regardless of other predictors of wents. Moriel et al. 29 endeavored to associate clinical variables with Quality of Life scores in patients with stable pronary artery disease before percutaneous corous interviation and with unfavorable outcomes, 12 months after the procedure. In the presence of coronary stery patients with comorbidities present a higher caree of Quality of Life impairment. Duarte et al. 20 determined the reliability of central atrial venous block assometry data as estimates of cardiac index in patients who underwent cardiac surgery and found that SvO₂ at all the C(a-v) a correlated with low cardiac output. Silv et al. 31 proposed and developed a risk index to predict A aid file file fillation after cardiac surgery.

Because of neern pout adverse hemodynamic effects of closure of the pripardium most heart surgeons prefer to avoid the procedure even though it may reduce the risk of cardiac in the procedure even though it may reduce the risk of cardiac interior aring chest re opening, especially to the right attricle, aorta and coronary bypass grafts. Within this context, antas et al. 32 propose a simple method to facilitate resternotomy during subsequent re-operative procedures. Riedi et al. 33 determined the strength of respiratory muscle

in cardiac surgery and its relationship with the postoperative pulmonary complications but found that preoperative respiratory strength couldn't h a predictor of postoperative pulmonary complication. Feal et al. 34 report on a method of removing intravascula for eign bidies, catheters with the use of various endovascu r te iniques and procedures. Conclusion Percutaneous reviewal of intravascular foreign bodies is considered gold standard treatment because it is a minimally 'nvas' e, relatively simple, safe procedure, wan low co. lication rates compared to conventional s rgical trea ment. Laizo et al.3 analyzed the complications at increase the permanence of the patients submitted to care or surgery at intensive care unit and conclude that by are related to respiratory function, chronic ob ructive p 1monary disease, tabagism, pulmonary conge . . . time of permanence under MV, diabetes, infectic s, ren insufficiency, stroke and hemo-dynamic instability. Sa et 1.36 studied clinical features, complications are in-hospital outcomes of patients operated for posting ction entricular septal rupture and claim that the need for vaso scrive urugs, hemodynamic instability and cardiogenic six k were associated with higher rates of mortality. Patients who had adverse outcomes had less ventri ular is and higher score in the EuroSCORE.

Of the trenty papers selected on Clinical Cardiology, hypertens in was the most frequent hit. Ferreira et al. investigated the prevalence of cardiovascular risk factors ong the elderly treated by SUS in the city of Goiania, state of Goias, Brazil and found that factors occur simul meously in more than half of the elderly individuals, and he most prevalent ones were: arterial hypertension, al obesity and sedentary lifestyle. Arruda et al.³⁸ estimated the prevalence of hypertension and describe the haracteristics of patients with hypertension infected by HIV/AIDS. They conclude that a high frequency of uncontrolled hypertensive patients and cardiovascular risks in HIV-infected patients point out to the need for preventive and therapeutic measures against hypertension in this group. Queiroz et al.39 evaluate the prevalence of high blood pressure in schoolchildren from public schools and its association with anthropometric indicators. They identified an association between excess weight with high blood pressure levels, which emphasizes the need for intervention and for nutritional status control measures, such as dietary education programs aimed at the prevention and treatment of obesity as a risk factor for cardiovascular diseases in the pediatric and older age ranges. Monteiro et al.40 analyzed the effect of a 13-week aerobic training program on blood pressure, body mass index and glycemic levels in elderly women with type-2 diabetes mellitus and found that the program was enough to promote significant decrease in the diastolic blood pressure and glycemic levels.

Exercise in itself was examined by Camara et al.⁴¹ who compared the cardiovascular responses recorded during the assessment of muscle strength and endurance for two exercises commonly used in patients with intermittent claudication and conclude that isokinetic strength and endurance testing in such patients results in elevation of heart rate, systolic blood pressure and double product values during the exercises. These increases are higher during the muscle endurance exercises and in those involving greater muscle mass, suggesting that strength testing of small muscle groups causes less cardiovascular overload in these patients.

Heart Failure is highlighted in three articles. Ribeiro et al.42 evaluated the cost-effectiveness of Implantable Cardioverter Defibrillators in congestive heart failure patients under two perspectives in Brazil: public and supplementary health systems. They conclude that the incremental cost-effectiveness ratio of Implantable Cardioverter Defibrillators is elevated in the general heart failure population, in either the public or private perspective. A more favorable result occurs in patients with a high sudden death risk. De Aguiar et al.⁴³ To evaluate the predictors of morbidity and mortality in acute coronary syndrome in the long term. And conclude that heart failure upon admission, creatinine, age and HR were independent predictors of mortality. They also claim that heart failure patients treated before 2002 had a worse survival when compared with that seen after 2002 and the that change in therapy was responsible for the improvement. Aguiar et al.44 evaluated the role of severe depression in the outcome of patients with decompensated heart failure. And conclude that patients with severe depression showed a higher degree of neurohormonal stimulation despite their lower degree of ventricular dysfunction. The pathophysiological changes related to depression, leading to increased neurohormonal stimulation and cytokines, probably contributed to this more intense clinical manifestation even in the presence of less cardiac damage.

Under a general category of sundry themes, Alves et al. 45 evaluated whether the chronic and regular use of statins, for a period of six months, prevents atrial fibrillation after elective cardiac surgery and claim the the strategy reduced the incidence of atrial fibrillation after elective cardiac surgery. Da Silva et al. 46 evaluated the effects of nandrol e decanoate on the electrocardiographic profile, glyc gen content and total-protein profile of skeletal and a diag muscles, as well as the plasma albumin concentrations rats, concluding that major cardiac changes are treggered at an early stage, which indicates a hierarchy in the source of changes that compromise the homeostasis of the balv. Diogo et al.⁴⁷ evaluated the possible association between NSAIDs and Contrast-Induced Nephro athies and conclude that there was no association. Fagundes and $\overline{\rm C}$ stro 48 endeavored to determine the predictive value of esting heart rate before exercise stress testing for "vascular and all-cause mortality, concluding ... is an independent predictor of cardiovascular and all aus mortality. Feliciano-Alfonso et al. 49 estimated pressence and distribution of cardiovascular risk far and Natabolic Syndrome in young individuals admited to he National University of Colombia in Bogota are encounted a prevalence of modifiable cardiovascy ar n. factors which justifies promotion of therapeut lifestyle hanges among this age group in Colombia and et al. 50 tested the safety, feasibility and early myocal dial an orgenic effects of transthoracic intramyocardial phVEGF165 dministration for refractory angina in no c tion ratients. They claim that the procedure resulted feasule are safe. Early clinical and scintillographic data are present which showed improvements in symptoms and a vocard. Trufusion, with regression of ischemia severit in to ated areas.

My cardi actility alterations of isolated hearts of rats, sugritted to ischemia and reperfusion with and without actinistration of the omeprazole was evaluated by Gomes et al. ⁵¹ who concluded that omeprazole administration before ischemia induction significantly protected

the myocardium function recovery. Minicucci et al.⁵² analyzed the presence of different patterns of remodeling in a murine model and its functional implications and found that animals that underwent coronary occusion showed two different patterns of remodeling, newer of which constitute a predictor of ventricular dysfunction.

Three Hematology studies are highlighted. Azame, ja and Garrafa⁵³ studied the extent of knowledge and acceptance of hemocomponents and hemoderivatives, ask fold stored, by Jehovah's Witnesses and proposed bioeus, all tools for any ethical and moral conflicts identified in their relationship with physicians and de tists. The conclude that Jehovah's Witnesses are son by their 'noral outsiders'' (i.e., physicians and dertists, as the religious group that simply "does not use plood". Ithough, several blood treatments are nowed as permitted it does not deprive them from a free provided to refuse blood treatments. Ammirati et al.⁵⁴ used epoeting correct anemia and found a decrease in major, by and increases survival and quality of life in end-stage relablishesses. Macedo et al.⁵⁵ evaluated the adequacy of a recongulation therapy in patients with atrial fibrillation. Towed in a private clinic specialized in cardiology in accordance with the American and European societies of contrology guidelines/2006 and with the Brazilian Child lines/2003. They conclude that anticoagulant therapy as been adequately prescribed for the majority of patients, an ough still far from ideal, especially in a mislogy clinic.

Two apers are highlighted in the field of interaction of renal an cardiovascular pathophysiology. Correia et al. 56 valuate a whether moderate renal dysfunction is associated with a rnT elevation in patients with acute coronary syndrome and found that moderate renal dysfunction is no associated with cTnT elevation in these patients. Carvalho et al. 57 evaluated the frequency and type of cardiovascular and renal/collecting system abnormalities seen in a sample of patients with Turner Syndrome and found that the frequency of such abnormalities was similar to that of previous studies, but most were found in routine exams after Turner Syndrome diagnosis.

In the field of Pneumology, we highlight 59 articles, the most frequent theme being asthma, with 13 hits. Roxo et al.⁵⁸ developed and validated a Portuguese-language version of the Asthma Control Test (ACT) for use in Brazil. Santos et al.⁵⁹ evaluated treatment compliance and use of inhaled medications of patients with asthma receiving complementary pharmaceutical care. and found that counseling provided by the pharmacist to the patient was important to assist in the implementation of the appropriate inhalation technique. Sarinho et al.60 compared BCG vaccination involving a single intradermal dose and that involving multiple doses, and claim that the prevalence of asthma among individuals having received multiple doses of the BCG vaccine was no different than that observed among those having received a single dose. Sarria et al.⁶¹ assessed the psychometric properties of the official Brazilian Portuguese-language version of the Paediatric Asthma Quality of Life Questionnaire (PAQLQ) in a representative group of Brazilian children and adolescents with asthma. and conclude that the Brazilian Portuguese-language version of the PAQLQ showed good psychometric performance, confirming its cultural adequacy for use in Brazil. Razi and Moosavi⁶² determined whether serum total IgE levels and total eosinophil counts have any relationship

with the response to routine pharmacological treatment in patients with acute asthma and conclude that serum total IgE levels, peripheral white blood cell counts and eosinophil counts cannot predict the response to the pharmacological treatment of patients with acute asthma. Reck et al.63 determined the proportion of asthma patients with a poor perception of dyspnea, correlating the level of that perception with the severity of acute bronchoconstriction, bronchial hyper-responsiveness, use of maintenance medication, and asthma control. Their results suggest that a significant proportion of asthma patients have a poor perception of dyspnea. Melo et al. 64 evaluated whether the exhaled breath temperature, measured by a noninvasive method, is an effective means of monitoring patients with uncontrolled asthma and conclude that uncontrolled asthma, especially during exacerbations, is followed by an increase in exhaled breath temperature, which decreases after appropriate asthma control. Lima et al.⁶⁵ endeavored to determine whether children and adolescents are able to perceive acute exercise-induced bronchoconstriction (EIB), as well as to measure the discriminatory power of a word labeled visual analog dyspnea scale in relation to the intensity of the FM. They note that among children and adolescents with asthma, the accuracy of this dyspnea scale improves as the post-exercise percentage fall in FEV(1) increases. However, the predictive value of the scale is suboptimal when the percentage fall in FEV(1) is lower. Dela Bianca et al.⁶⁶ determined the prevalence and severity of wheezing in infants, using the standardized protocol devised for the "Estudio Internacional de Sibilancias en Lactantes" (EIS International Study of Wheezing in Infants), as well as to determine the relationship between such wheezin and physician-diagnosed asthma, in the first year of li... The conclude that the prevalence of wheezing episode among infants in their first year of life was high and had an only onset. The proportion of infants diagnosed wit and treate for asthma was low. de Castro et al.67 Lete. ined the prevalence of symptoms of asthma, rhinitis and otopic eczema among students between 6 and 7 ars of age in the city of Londrina, Brazil. and found that the prevalence of symptoms of asthma, rhinitis and a opic eczei a in our sample was within the range found the facilities that participated in phases 1 and 111 of the ISA Combrazil. The low prevalence of physician-capaced asthma suggests that asthma continues to be a der may osed. Brandao et al.⁶⁸ examined the clinical baracteristics and the predictors of hospital ad sion a e to asthma among children and adolescent with asthma under treatment at a referral center. and found the principal predictor of hospital admission vas ater asthma severity, calls for special attention bying given to the care of these patients. Borges et al.⁶⁹ de e. e and validated an asthma knowledge questionnaire or use adult asthma patients in Brazil. Âlmeida et a¹⁷⁰ endeavore, to describe socio-economic and behavioral spect of pregnant women with asthma and to analyzed he eff cts of maternal asthma on certain perinatal parameters birth short. They found that socioeconomic level a pears to be risk factor for asthma.

Pamor ry mechanics and ventilation contribute 11 papers to his ry is reported above, Guizilini et al. 8 evaluated by postoperative pulmonary function in patients submitted to off-pump coronary artery bypass grafting, comparing the conventional midsternotomy with the ministernotomy approach. They conclude that ministernotomy

leads to better preservation and recovery of pulmonary function. Barros et al.9 evaluated respiratory muscle training, performed after the revascularization surge / and found that it may increase ventilatory capacity. Right et 2 /3 checked respiratory muscle strength in cardiac ur ery and the relationship with the postoperative pulmonary omr cations and conclude that preoperative respiratory streng a is not a predictor of postoperative pulmona. complication. Fonseca et al.⁷¹ compared two respiratory muse trair ng programs for improving the functional autonomy or astitutionalized elderly and found that the trained groups improved functional autonomy. Silva e al. 72 asses ed the relationship between clinical and preoper tive primonary functional evaluation and occurrent of postoperative pulmonary complications. They laim that the most important factors associated with perative pulmonary complications were surgical site time conesthesia, and ASA classification. Costa et al.⁷³ compared n. n inspiratory and expiratory pressures in Lan y subjects with those predicted using the equations ropos d in previous studies and claim that previously rop sea equations were unable to predict the pressures for 1 of the subjects in their sample. They conclude that the sults of their study can facilitate the prediction of a piratory muscle strength in healthy adult subjects in Brazil. D'Aquino et al.⁷⁴ used clinical and spirometr findings in order to distinguish between the restrictive and nonspecific patterns of pulmonary function tresults in patients with low FVC and a normal or elevated FEV 1)/FVC ratio. They found that In many patients with reduced FVC, and a normal FEV(1)/FVC ratio he restrictive pattern can be identified with confidence agh the use of an algorithm that takes the clinical diagnosis and certain spirometty measurements into account. logrado et al. 75 endeavored to determine the impact of positive reinforcement during spirometry on the measurement of VC in healthy volunteers They claim their results indicate the Importance of using the behavioral strategy in combination with traditional practice in order to obtain better results. The use of positive reinforcement during the determination of VC is described as an effective, simple and easily applied strategy. Rodrigues et al. ⁷⁶ evaluated the contribution of a new coefficient, the FEF(50%)/0.5FVC ratio, obtained from the maximal expiratory flow-volume curve, to the diagnosis of obstructive lung disease and to test this coefficient in differentiating among patients considered normal, those with obstructive lung disease and those with restrictive lung disease They conclude that the FEF(50%)/ 0.5FVC ratio is a potentially useful parameter in the differential diagnosis of OLD and correlates positively with the FEV(1)/FVC ratio. Silveira et al.77 endeavored to determine whether inspiratory muscle training can increase strength and endurance of these muscles in quadriplegic patients and found that quadriplegic patients can benefit from training at low loads (30% of MIP), which can improve inspiratory muscle strength, FVC and expiratory muscle performance. Felix et al. 78 compared the influence of two different ventilation strategies-volume-controlled ventilation (VCV) and pressure-controlled ventilation (PCV)-on the functional performance of lung grafts in a canine model of unilateral left lung transplantation using donor lungs harvested after three hours of normothermic cardiocirculatory arrest under mechanical ventilation. Their data indicate that in this model of lung transplantation showed that the functional performance of lung grafts was not influenced by

the ventilation strategy employed during the first six hours after reperfusion.

Pulmonary and mediastinal infection contributes nine papers to this study, five of which on tuberculosis. Goncalves et al.⁷⁹ described the epidemiological monitoring of exposure to tuberculosis in a hospital environment and to analyze the profile of the disease in a general teaching hospital and suggest that the proposed indicators can potentially help standardize epidemiological monitoring procedures for nosocomial tuberculosis. Gupta et al.⁸⁰ In developing countries, sputum smear microscopy is the main tool for pulmonary tuberculosis case finding. The objective of the present study was to evaluate the diagnostic efficacy of Gabbett's staining (GS) and modified cold staining (MCS), both of which are two-step methods, in comparison with that of fluorescent staining (FS), which is a three-step method, for the detection of AFB in sputum smears. Conclusions: Although MCS and GS were found to be less sensitive than was FS, which is evaluated under fluorescence microscopy, the first two are promising methods for the diagnosis of tuberculosis. Lundgren et al.81 determined the main causes of hemoptysis and endeavored to classify this symptom, in terms of the amount of blood expectorated, in patients hospitalized at a referral hospital for pulmonology. They suggest that all patients who present with hemoptysis should be investigated for tuberculosis and other possible infectious agents. Maciel et al.82 determined the principal adverse effects of the tuberculosis treatment regimen recommended by the Brazilian Ministry of Health and find that the overall incidence of adverse effects related to the new treatment regimen recommended by the Brazilian Ministry of Her ch was high, even though none of those effects demanded a change in the regimen, which was effective in the pannts evaluated. Marques et al. 83 determined the drug r sistant profile of Mycobacterium tuberculosis in the star of Mato Grosso do Sul, Brazil, between 2000 and 2006 and found high levels of resistance which undermine the effort for tuberculosis control in Mato Grosso do Sul Irozo et al. evaluated the efficacy of the scoring systen, recommended by the Brazilian National Ministry of I ealth (NM I), for the diagnosis of pulmonary tuberculosis TB) in c ildren and adolescents, regardless of their HIV.......s. They conclude that the NMH system were significantly higher in the TB and TB/HIV group that in the other two groups. Therefore, this scoring syste was valid for the diagnosis of pulmonary TB ir population, regardless of HIV status. Away from toerci osis, three other papers deal with pulmonary and pedic dections. Martinelli et al. 85 determined the prevence of nosocomial pneumonia in autopsies at a public viversity hospital in an attempt to identify an risk factors for nosocomial pneumonia in a public viversity hospital in an attempt to identify an risk factors for nosocomial pneumonia. monia and the potential pagnostic factors associated with fatal nosocomi pneumona, and with fatal aspiration pneumonia a d to letermine whether patho-anatomical findings corollate tith posocomial pneumonia or aspiration pneumon. They found a high prevalence of nosocomial pneumonia or almost which was responsible for almost 25% of all of he deaths. Smoking-related structural lesions and ilater monia all favored mortality. These finding. roborate the results of various clinical studies on nosoco ial pneumonia. Mattiello et al.86 describe pulmonary function in children and adolescents with post-infectious bronchiolitis obliterans and evaluate

potential risk factors for severe impairment of pulmonary function. They claim that such patients had a common pattern of severe pulmonary function imparment, characterized by marked airway obstruction and pro lounced increases in RV and sRaw. The combination formeric and plethysmographic measurements is described as more useful for assessing functional damage, as well as in the follow-up of these patients, than either of these techniques used in isolation. Known isk actors for respiratory diseases do not se in to be as ciated with severely impaired pulmonary function 1 PIBO. Senturk et al.87 determined the incide ce of local and systemic infection in a sample of parents cheter led with thoracic catheters (TCs) and ide tifie the prognostic factors for catheter-related infection. They can be that risk factors, such as advanced age, pro and catheterization, comorbidities, and inoperable malignancy increase the risk of catheterrelated infection. Melo et al. report a case series of patients with docen ing necrotizing mediastinitis (DNM) who were teated with minimally invasive thoracic surgery. Conc. sic is: We conclude that video-assisted thoracoscopy is a effective technique for mediastinal drainage the treatment of DNM, with the benefits common mir ... 'y invasive surgery: less postoperative pain, lowe. Loduction of inflammatory factors, earlier return to ac vities of daily living, and better aesthetic results.

on nic Obstructive Pulmonary Disease is the subject of four art les. Fernandes et al.89 evaluated the short-term impact continuous in patients with severe or very severe CPD vho complain of dyspnea despite being currently treate, with other bronchodilators and claim that the introduction of tiotropium into the treatment of such p dents using long-acting beta(2) agonists improves pulnonary function and provides symptomatic relief, as perceived by patients in the short term. They claim that these results, obtained under real life treatment conditions, support the use of the salmeterol+tiotropium combination in specific treatment protocols for these patients. Ferrari et al. 90 evaluated the health status (HS) of COPD patients and identified the main predictors of HS in these patients according to gender and claim that their results show an association between gender and HS in COPD patients. Age and dyspnea are determinants of HS in both genders. Araujo and Holanda⁹¹ determined whether Body mass index, airway Obstruction, Dyspnea, and Exercise capacity (BODE) index correlates with health-related quality of life in patients with COPD. and found that the BODE index score correlated with the scores of all of the mSGRQ domains in COPD patients with FEV(1) <50%. Therefore, COPD patients with FEV(1) <50% die sooner and have a poorer quality of life. Camargo and Pereira 92 determined the correlations among various dyspnea scales, spirometric data, exercise tolerance data, and the Body mass index, airway Obstruction, Dyspnea, and Exercise capacity (BODE) index in patients with COPD. They suggest that multidimensional dyspnea scales should be applied in the evaluation of COPD patients. Chatkin et al. 93 measured exhaled carbon monoxide (COex) levels in smokers with and without COPD. which did not differ significantly between smokers with COPD and those without, suggesting that there seems to be no major contraindications to their use in smokers with COPD.

Lung Cancer is the subject of five articles. Machado et al. 94 evaluated the effect of chemotherapy on the physical condition of patients with advanced lung cancer and observed a beneficial effect on the performance status of the patients. No significant changes in BMI or 6MWD were found during the study period, which might suggest the maintenance of the physical condition of the patients. Franceschini et al. 95 assessed the quality of life of ling cancer patients, through the Treatment of Cancer Core Quality of Life Questionnaire (EORTC QLQ-C30) in conjunction with its supplemental 13-item lung cancerspecific module (QLQ-LC13). The objective of this study was to assess the reproducibility of the Brazilian Portuguese version of these questionnaires and findings show that these instruments were reproducible in this sample of patients with lung cancer in Brazil. Rodrigues et al. 96 analyzed the association between paracoccidioidomycosis (Pcm) and cancer in a series of 25 cases and to review the literature on this topic and claim that a diagnosis of Pcm appears to increase the risk of lung cancer. Marchi et al. 97 evaluated how pleurodesis is performed in South and Central America and found considerable variation among the countries evaluated in terms of the indications for pleurodesis, techniques used, and outcomes. Talc slurry is the agent most commonly used, and thoracoscopy is the technique of choice in Brazil. Brandao et al.⁹⁸ analyzed the clinical and pathological aspects of bronchiolo-alveolar carcinoma and the survival in a sample of patients at clinical stage I. Their data indicate these aspects were similar to those of patient with bronchiolo-alveolar carcinoma evaluated in previo studies.

A number of studies fell into sundry categories. Coelho et al. ⁹⁹ evaluated predictors of health-related quality of lif (HRQoL) in patients with interstitial lung disc en d found that these in patients the degree of dys near 1 d a major impact on the physical and mental (RQoL, and depression had an impact on mental HF 20. Antunes et al. 100 determine the interobserver and intrac erver agreement in the diagnosis of interstition lung diseases based on HRCT scans and the impact observer expertise, clinical data and confidence level on such agreen ent. They conclude that interobserver and intrao, erver agreement in the diagnosis of ILDs based on HRCT sunged from fair to almost perfect and was a tranced by radiologist expertise, clinical history and a nfid nee level. Navarro et al. 101 evaluated the biological and unctional behavior of decellularized pulmonary mogra. s (Decell-H), treated by a sodium dodecil su' ate so ution (0.1%) and found that in their experimental pode¹ are a cell-H behaved as an excellent valve subject the ego-Fernandes et al. 102 report on the functional evaluation experience with ex vivo perfusion of two vivo donor lungs deemed unacceptable in Sao Paulo, Braza. They 'aim that ex vivo evaluation model can improve oxygenation capacity of "marginal" lungs rejected for tran plantation. It has a great potential to increase ing d nor availability and, possibly, to reduce the waiting e on t'e list. Athanazio et al. 103 profiled the characteristics of a all patients with bronchiectasis, drawing omp risons between cystic fibrosis patients and those is from other causes in order to determine it is rational to extrapolate the bronchiectasis treatme. given to CF patients to those with bronchiectasis from other causes. They conclude that causes and clinical manifestations of bronchiectasis are heterogeneous, and it

is important to identify the differences. It is crucial that these differences be recognized so that new strategies for the management of patients with brong lectasis can be developed. de Souza et al. 104 determine the p evalence of respiratory symptoms and smoking, as w 's pulr onary function parameters among charcoal product. w rkers in three cities in southern Brazil. They indicate that respiratory symptoms and airflow reduct. were more common in the smoking workers. Do lu et l. 10 determined whether respiratory symptons and chronic bronchitis are associated with the use of piomass fulls among women residing in rural areas of the Ekiti State, in southwestern Nigeria and claim that their rest derscore the need for women using biomas fuels their households to replace them with a nontox type of fue such as electricity or gas. Desalu et al. 106 so etermined factors associated with nocturnal, productive and try cough among young adults in Nigeria. The results indicate that early prevention and treatment of concisions associated with cough, as well as the modification and factors commonly associated with cough, needed in order to reduce respiratory morbidity. Ferren et al. 107 surveyed the main congenital lung name ations treated and the principal diagnostic method er ployed, as well as the indications for surgical treatmen, and the results obtained, at a referral facility for pediatric coracic surgery. Their analysis shows that Imonary resection for the treatment of congenital lung man rmations is a safe procedure, presenting low morbidity a d no mortality at a referral facility for pediatric thora ic surgery. Forgiarini et al. 108 evaluated structural to ations of the lung in rats with diabetes mellitus, by quantifying oxidative stress and DNA damage; they alos letermined the effects that exogenous superoxide dismutase has on such alterations and conclude that exogenous SOD can reverse changes in the lungs of animals with induced diabetes mellitus. Maranhao et al. 109 propose a new classification criterion for the differentiation between pleural exudates and transudates quantifying total proteins in pleural fluid (TP-PF) and lactate dehydrogenase in pleural fluid (LDH-PF) exclusively; they also compare this new criterion with the classical criterion in terms of diagnostic yield. They understand that the diagnostic tool was comparable to the classical one and can be used in daily practice. Melo et al. 110 determined the lung age of patients with morbid obesity and compared it with the chronological age of these patients, emphasizing the premature damage that morbid obesity does to the lungs. Pereira et al.¹¹¹ evaluated the efficacy and safety of two inhalers for Mometasone furoate administration in patients with asthma and find that the use of the single-dose inhaler developed in Brazil is as effective and safe as is that of a standard inhaler in the treatment of patients with asthma. Pinheiro et al. 112 compared the effects of early vs. late tracheostomy in patients with acute severe brain injury and conclude that early tracheostomy should be considered a first choice for patients with acute severe brain injury. Santana et al.113 endeavored to quantify fibrin thrombi in the small and medium-sized pulmonary arteries of patients with Wegener's granulomatosis and report that confocal laser scanning microscopy revealed a significant association between pulmonary microvascular thrombosis and Wegener's granulomatosis.

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