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CONFERENCE PROCEEDINGS

11th International Conference on Biotechnology, Bio Informatics, Bio Medical Sciences and Stem Cell Applications (B3SC), 21-22 Sept, 2016, London

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KEYNOTE SPEAKER



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11th International Conference on Biotechnology, Bio Informatics, Bio Medical Sciences and Stem Cell Applications (B3SC), 21-22 Sept, 2016, London, Imperial College London, South Kensington Campus | London SW7 2AZd



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Abstract
Abstract Introduction: Inhorn errors of metabolism are chronic disorders equating mild and
Introduction: Indoin errors of metadonism are chromic disorders causing mild and long town consequences on health of the shild and it profoundly effects the quality of
fong term consequences on health of the child and it profoundly affects the quanty of
life of the child and the parents. Little is known about the recognition and
determinants of quality of life among parents of children with inborn error of
metabolism.
Objective: The aim of this study is: to assess the health related quality of life (HRQoL)
among parents whose children are suffering from inborn error of metabolism and to
find out an association between the HRQoL among parents of children with inborn
error of metabolism and the demographic variables.
Methodology: This explorative descriptive survey was conducted at the outpatient
department of a tertiary care center. 72 parents completed the RAND 36-Item Health
Survey and demographic data sheet. Convenient sampling technique was be used and
data was collected for period of 6 months. The parents were interviewed at the
outpatient department of Sultan Qaboos University Hospital (SQUH), Oman by using
RAND 36-Item. Health Survey and demographic data sheet. The data was analyzed
using SPSS version 20. Results: Parents of children with metabolic disorder had lower
mean scores in general health(56.18) & Vitality (56.94). The subscale pain (70.6) has
the highest score. The physical component summary score (PCS) is 64.6 and mental
component summary (MCS) is 60.1. Significant association was found between
supporting persons and social functioning (p< .04), General health and preparation of
special diet for the child p<.02). Discussion & Conclusions: The current study indicates
that parents of children with metabolic disorders are a vulnerable group and a good
quality of life of the parent will prevent any additional health and adjustment
problems of their chronically ill children. Assessment of health related quality of life
of parents if done routinely could benefit the parents by rendering extra support and
education for the parents when required. Members of the health care team should be
able to identify these parents and to enable them to improve their general health
through supporting measures like counseling, relaxation methods and special training
to look after these children. Empowering the parents by helping them to actively seek
and maintain social support is another important step in improving the health related
quality of life of parents. Future studies which can predict the potential factors for
lower quality of life of parents can empower a social support system.



	Halothane Exposure and Serum Bromide Measurements for Healthcare Professionals Working in Surgical Theatres in Jordanian Hospitals
d b	Bilal AL Jaidi
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	Dr. Mayada A. Deibas
	Dr. Mayada A. Daibes
	Faculty of Nursing, Faculty of Fharmacy, Finadelphia University, F.O. box 1,
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	Abstract
	Abstract Deckground Aimst To evaluate and measure serum bromide levels for health core
	background Anns. To evaluate and measure serum bronnue levels for meanin care
	professionals working in operation rooms upon exposure to trajotnane anesthetic in
	anosthetic before surgical operations. Materials and Methods, this is a quantitative
	descriptive study which used the Industively coupled plasma mass speatroscopy (ICP
	uescriptive study which used the inductively-coupled plasma-mass spectroscopy (101- MASS) to investigate serum bramide levels in blood samples of fifty two healtheave
	MASS) to investigate serum bronnue levels in blood samples of inty two neartificate professionals working under Helethane atmosphere inside operation rooms. Desults:
	professionals working under fraiotnane atmosphere histor operation rooms. Results:
	this study revealed 5-10 times higher levels of serum bronnide serum than the anowed
	non toxic levels (5-4.4 mg/l). The measured concentration ranges were 10-59.9 mg/l.
	Conclusions: The observed high level of serum bromide strongly suggested an urgent
	can to exclude Halothane from the use as a general anesthetic in surgical operation.
	Meanwhile, serum bronnue levels for an workers exposed to matomane must be
	Very worder Helethang, ICD MASS, Serum Bromide, Surgical Theater nurse
	Key words: Haloinane, ICP-MASS, Serum Bromide, Surgical Theater, nurse,
ChainHanana	anestnesia, Joruan
Shairnazara CicliniDM1(11055	Frequency and Factors Leading to Unsate Injection Fractice Among Health Care
GICHNDWI1011055	r roviders at District Sanghar Sindh
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	Abstract
	Background: Health Care Providers (HCP) are at high risk expose to blood borne
	infections such as Henatitis B (HBV). C (HCV) and Immune Deficiency Viruses
	(HIV). A huge number of injections are being administered in private clinics in
	Pakistan: majority of clinics run by unqualified quacks in a rural area. The risk
	exposures to HCPs in these clinics differ from those working in tertiary care hosnitals
	due to accessibility of resources, infection control management workshops
	awareness, and qualifications. Many studies have shown strong association between
	transmission of blood borne nathogens and needle stick injuries.
	Aims: To determine the frequency and factors leading with unsafe injection practices
	at four (04) major cities of district Sanghar (Sindh).
L	



	Rationale: Unsafe injection practices and overuse of injections are being prescribed by
	HCPs in rural areas. NSI increased the prevalence of HBV and HCV, and
	acquiescence with universal precautionary measures among HCPs. Identify the
	burden of NSIs and factors of unsafe injection practices in rural areas.
	Methodology: A cross sectional study was conducted in HCPs running private clinics
	at four major cities of District Sanghar, Sindh Pakistan. By using multi stage sampling
	technique 370 clinics proportionately selected through cluster sampling and stratified
	sampling. A pre-tested questionnaire was used to determine the percentage of unsafe injection prostices among HCP. Analysis: Categorical variables were calculated in
	frequency with percentage and continuous scale variables with mean and standard
	deviation such as age and years of experience. 95% confidence interval with
	proportion was used to calculate at least one needle stick injury in the last one year.
	Results: Out of 370 clinics, 368 HCPs were interviewed; 37.8% paramedics, 29.9%
	quacks, 22.6% MBBS, 4.9% DHMS and 1.4% Hakeem. Mean age (SD) of HCPs was
	39 (8.92) years, and with mean (SD) experience of 14.7 (7.2) years. 55.71% were
	collecting used syringes in dustbin, 22.01% in sharp container and 22.28% using
	needle cutter. At least one needle stick injury (NSI) in last one year among HCPs at
	clinics in District Sanghar Sindh was 27.4%. Conclusion: HCPs running private
	clinics are at higher risk in acquiring blood borne infection (BBIs) due to reused
	emergency need in launching protective measure for HCWs and shield them from
	endemic of blood horne infections (BBIs).
	Public Perception about Nursing Profession as A Career
	1 8
	Jehanzeb Khan
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A TON	jzk_yz@yanoo.com
	Abstract
REALE	Introduction: Nursing profession consists of scientific based care provision to the sick
	and needy persons. "Nursing is the protection, promotion, and optimization of health
Jehanzeb Khan	and abilities, prevention of illness and injury, alleviation of suffering through the
GICHNDM1611056	diagnosis and treatment of human response, and advocacy in the care of individuals,
	families, communities, and populations. Public perception about nursing profession
	appears to be very closely interlinked with nurse image and consequently influences
	the public image of it. We aimed a study to determine the perception of general public
	coming to public and private nospitals in Pakistan regarding nursing profession and to choose this profession for their siblings or children. Methodology: A total of 150
	to choose this profession for their sidnings of children. Methodology: A total of 150 respondents were enrolled in this cross sectional study Half of respondents (n=75)
	were selected from a public hospital while the other half $(n=75)$ from a private
	hospital in Karachi. Attendants of 30 years or above with currently admitted patient.
	who have stayed for more than 3 days with the patient in the hospital and the
	attendant must have a child/ sibling. Data was analyzed in SPSS software using
	attendant must have a child/ sibling. Data was analyzed in SPSS software using descriptive statistics. Results: More than (50.0%) of study respondents were between
	attendant must have a child/ sibling. Data was analyzed in SPSS software using descriptive statistics. Results: More than (50.0%) of study respondents were between 30 and 35 years of age. Male gender was predominant (60.0%). (80.0%) of
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	attendant must have a child/ sibling. Data was analyzed in SPSS software using descriptive statistics. Results: More than (50.0%) of study respondents were between 30 and 35 years of age. Male gender was predominant (60.0%) . (80.0%) of respondents (N=150) agreed that nursing is an acceptable profession in our society. Although, (96.0%) from private hospital compared to (64.0%) from public sector hemital the number of the
	attendant must have a child/ sibling. Data was analyzed in SPSS software using descriptive statistics. Results: More than (50.0%) of study respondents were between 30 and 35 years of age. Male gender was predominant (60.0%) . (80.0%) of respondents (N=150) agreed that nursing is an acceptable profession in our society. Although, (96.0%) from private hospital compared to (64.0%) from public sector hospital thought that nursing is a respectable profession. Around (46.0%) respondents from government hospital while around (30.0%) from private hospital variable profession.



	agreed that most of nurses like to serve their patients whereas from government hospital (50.0%) thought so. only (30.0%) from government and (47.0%) from private hospital agreed to put their children/ siblings in nursing. Conclusion: There is a presumptive bias in public's mind regarding the nursing profession. The public visiting government sector have negative perception regarding this profession, they are less likely to send their siblings and children in this profession. The perception of private hospital respondents is to some extent different from these ideas, and it may be due to the fact that they belong to educated and well off families and have a broader idea about people and profession. Whereas public visiting public sector hospital is mostly uneducated and poor thus, have short sighted ideas about nursing profession. Keywords: Nursing, character, profession, public perception
Chang Yu Chuan	The Experience of Patients with an Implantable Cardioverter Defibrillator
GICHNDM1611058	
Gielii(Diiliolio)	Chang Vu Chuan
	Condinues on ten of National Training Indianatics Hasmital Training
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	Abstract
	This study used qualitative research design and enrolled patients receiving implantable cardioverter defibrillator (ICD) at 3, 6, and 12 months after the operation to evaluate their experiences, feelings, quality-of-life, and the degree of depression. An in-depth open interview was conducted in the Cardiology Department between January and September 2013 in a medical center in Taiwan. A total of 25 qualitative interviews including 12, 6, and 7 patients at the 3, 6, and 12 months after the procedure were performed respectively. Interviews were conducted with the use of semi-structured outline, and the data were analyzed by qualitative content analysis. We found that "physical pain" is the main reason to affect quality-of-life after ICD implantation. Among 25 patients interviewed, 14 (56%) expressed pain. During the first 3 months, 7 experienced wound pain; while 7 felt shock pain during 6-12 months after the procedure. Regarding "physiology - role", 44% reported to be affected, such
	as restricted daily activity due to fatigue or decreased endurance. For "mental health", 56% experienced negative emotion including worry, regret, fear, and frustration. Despite that, 44% also experienced positive experiences, including saving their lives, economic support, peace of mind, and contentment-cherish. The most common reason for the feeling of melancholy was "fear of sexual activity" (16%). The results of this study can help healthcare professionals to have a better understanding about depression and quality-of-life among patients with ICD in order to provide more appropriate health care to them. We suggested that in addition to the effectiveness of ICD in prolonging patients' survival, healthcare professionals should pay more attention to their mental health and quality-of-life. Key words: implantable cardioverter-defibrillator (ICD), quality of life, depressionquantitative study
Wen, Hui-Min	Entering the Dawn of a New Life: A Discussion of Life for Survivors of the Formosa
GICHNDM1611059	Fun Coast Water Park Explosion
	- an coust i with Laptoron
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	Abstract



	A dust explosion at the Formosa Fun Coast water park in Taiwan caused nearly 500 burn injury cases. One hundred of these cases involved burns over more than 20% of the total body surface area. This tragedy inundated hospitals across northern Taiwan with an unprecedented number of burn patients. Significant manpower and medical resources were targeted on related resuscitation and treatment ef-forts, with support and assistance provided by agencies and organizations nationwide. Most of the burn patients were young people in their teens and twenties, whose severe burns posed the greatest threat and challenge to their lives so far. Furthermore, their experience presented major psychosocial and physical health challenges. Patients received an array of clinical treatments such as debridement, skin grafting, dressing, and rehabilitation. Debilitating pain, skin damage, changes to body image, physical disabilities, helplessness, sadness, and anxiety have not only deeply affected the patients physically and psychologically but also created significant life stresses for their family members / companions, which requires counseling in order to facilitate
	emotional nearing. Although burn patients gradually recover as they pass through the acute, recovery, and rehabilitation phases, they will face the chal¬lenges of lifelong rehabilitation after discharge. I hope that these young victims will take courage and be brave and strong in dealing with the difficulties and challenges of daily life and will
	embrace the future with hope as they enter the dawn of their new life.
Wen, Hui-Wen	Symptoms and Associated Factors in Females with Mitral Valve Prolapse Syndrome:
GICHNDM1611060	A Symptom Theory Based Approach
	Wan Hui Wan
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	Abstract Mitral valve prolapse is a common vavular heart disease, with prevalence estimates
	valve prolapse is frequently with a constellation of symptoms. Patients are diagnosed
	mitral valve prolapse syndrome (MVPS) when symptoms are not related to structural
	change. Common MVPS includes chest pain, anxiety, palpitation, fatigue, dizziness,
	unpleasant symptoms to investigate: (1) intensity, timing, distress of MVPS, (2) the
	relationship among MVPS and associated physiological, psychological and situational
	factors, (3) important predictors of MVPS. A descriptive cross-sectional and
	correlation study design was used. The study included female patients above 20-year- old with mitral valve prolapse syndrome from a region hospital. A sample of 41 cases
	completed a demographic check list, MVPS symptom check list, Chinese Beck Anxiety
	Inventory, Chinese 3-day Physical Activity Recall record, and CheckMyHeart
	Handheld HRV 3.0 exam. Descriptive statistics, Pearson's and Spearman's correlation analysis Student T test Mann-Whitney II test Kruskal-Wallis test and hierarchical
	regression analysis were done with SPSS 17.0 software to answer the research
	questions. This study found that female patients with MVPS have low BMI, sedentary
	lifestyle, and majorly with low LF/HF ratio. Anxiety is significantly correlated with
	trequency of MVPS (r=.55, p<.001), severity of MVPS (r=.53, p<.001) and MVPS (r=.54, p<.001) and MVPS
	related life distress (r=.04, p<.001). Also, anxiety is the most important predictive factor of MVPS symptoms. These results suggested that clinical medical and nursing
	staffs could adopt the TOUS to develop multi-dimensional clinical assessment, apply
	nonpharmacological interventions in relieving the level of anxiety and encourage
	7



	physical activity	in order to reduc	e MVPS sympton	ns.	
	Keywords: mitral valve prolapse syndrome, anxiety, physical activity, heart rate				
	variability	variability			
	Using Differen	it Assessment Me	thods to Evaluate	e the Effectiveness	s of Cleaning in
		Ot	tpatient Departi	nent	
			I-Chen Hung		
	Center for Infe	ction Control. Na	tional Taiwan U	niversity Hospital	. Taipei, Taiwan
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			An-Chi Chen		
	Center for Infe	ction Control, Na	tional Taiwan Ui	niversity Hospital	, Taipei, Taiwan
LChen Hung			Inna Tan Wana	_	
GICHNDM1611061	Contor for Info	ation Control No	jann-ray wang tional Taiwan U	; nivarsity Haspital	Tainai Taiwan
Gielin (Divitoritovi	Denartment of	of Internal Medici	ne. National Taiv	wan University H	osnital. Tainei.
	Department	internar wreater	Taiwan	wan oniversity in	ospital, raipel,
			Wang-Huei Shen	g	
	Center for Infe	ection Control, Na	tional Taiwan U	niversity Hospital	l, Taipei, Taiwan
	Department of	of Internal Medici	ne, National Taiv	wan University H	ospital, Taipei,
		Taiwan			
			Abstract		
	ADSUFACE Purnose: Environment cleanliness is important to prevent microbial colonization			l colonization and	
	healthcare-associated infections at hospitals. This study used different assessment				
	methods to evaluate the effectiveness of cleaning in a busy outpatient				
	department(OPE) that serves 20,	000 person-time	s daily.Methods:	We prospectively
	used adenosine	triphosphate bio	luminescence as	say(ATP) and tr	aditional culture-
	based method (a	erodic colony cou during March an	nt, [ACC]) for ti d April 2015. En	ne cleanliness que	ality of nign-touch
	at 8AM that has	been cleaned from	n 6 different dens	artment 15 clinics	including 4 high-
	touch surfaces (keyboard, telephone, desk and door knob). Results: In total, 58 high-				
	touch surfaces were studied. Clean pass rate by ATP method with the benchmark of				
	500 relative light	units (RLU) was	58.6%, which w	as less than the p	ass rate of 93.1%
	by ACC method	, with the bench	mark of 2.5 CFU	J/cm2 (P < .001)	(Table 1.). Only 4
	telephones (26.7	%) were identifi	ed as cleaning f	failure by ACC	method, with the
	bacterial counts	ranging from 3.	6 to 9.5 CFU/cm	2. Door knobs (7 value was 701 D	(6.9%) were most
	4596)	e surfaces, with t	ne meulan ATT	value was /01 K	LU (Talige 270 to
	1390).				
	Table1. clean pas	s rate after clean	ing using differer	nt assessment met	hods
			ACC	ATP	
	Site	n	%	%	
	door knob	13	100	23.1	
	desk	15	100	60.0	
	telephone	15	73.3	53.3	<u> </u>
	keyboard	15	100	93.3 59.6	D < 001
	totai	58	93. I	38.0	r < .001



	Conclusions: In this study, ATP method identified more areas where routine cleaning might be failed than ACC method. ATP method provide a simple, quick and quantified test that can detect whether cleaning is inadequate, although it may represent either bioburden, organic debris including dead bacteria or a combination of both. In hospital area with low microbiological counts, using ATP method may provide additional information of cleaning efficacy.
Yu, Tsui-Mien	A Study of Needs Assessment to Professional Learning Web of Nursing Stations in a
GICHNDM1611062	Hospital
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	Abstract
	This study aimed to investigate the most in-demand types of content in a Professional
	Learning Website among a group of nurses and examine factors affecting the nurses' demand for content. A descriptive and correlational study design was used. Random cluster sampling was adopted to select 43 wards of nurses out of 70 at a hospital in northern Taiwan who had agreed to participate in a cross-sectional survey conducted
	using a self-structured questionnaire. In total, 571 questionnaires (96%) were returned out of 600. The nurses achieved an average Professional Learning Website demand score of 4.03 (SD = 0.70). The top three most in-demand contents were respectively instructions on nursing routines for common diseases, common
	medication information, and instructions on preparations for common physical examinations. The three least in-demand contents were respectively the purpose of the website, post-learning tests, and online forum. Factors such as the nurses' age, marital status, education, hospital department. Clinical Nursing Ladder status, and work
	experience could cause significant differences in their demand for content. Findings
	nurses and therefore could aid future design of a Professional Learning Website
	Different versions of Professional Learning Website may be developed to suit the
	different needs of nurses and help them save time searching for information such as the website will focus on nursing procedure or standard introduction in the medical-
	surgical wards.
	Key worus: medical center, nursing station, Professional Learning Website, need
Shu Chin, Hsu GICHNDM1611063	Effects of Mental Functions by Laughing Qigong Program (LQP) to Elderly Residents with Normal Cognition at Long-Term Care Institutions
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	Abstract
	In years, many psychological health-oriented researches were related to "Laughter"
	and "Emotional Disturbance". However, experimental interventions were insufficiently focused on elderly residents with normal cognition at long-term care
	institutions.For understanding the psychological and physiological effectiveness of laughing qigong program (LQP) on cognitive normal elderly residents at Long-Term
	Care Institutions, a method of Quasi-Experimental Design was adapted, LQP applied as the intervention variance, participants who are elderly residents in five institutions.



	Three of five institutions were selected randomly to be experimental group, and other two to be controlled group. Daily cares of both two groups were kept the same, but LQP was administrated in different time schedule. Furthermore, each group was screened by Mini-Mental State Examination to determine normal cognitive status. Statistical comparisons were made by the Brief Symptom Rating Scale-5, Geriatric Depression Scale, The Face Scale and Cortisol index. Analysis of statistical menthod use non-parametric Mann-Whitney U Test and Wilcoxon Signed Ranks Test.Key findings of psychological effectiveness of LQP in Experimental Group have statistical significance; GDS, FS (both of those, $P < .05$), BSRS-5 ($P=.07$).The Cortisol index ($P=.08$). Summary of the research, according to psychological and physiological effectiveness, is that LQP intervention can facilitate mental health to elderly residents who having normal cognition at long-term care institutions in Taiwan. Keywords: Laughing Qigong Program (LQP)
Chen Meiwen GICHNDM1611064	A Survey of the Bleaching Liquid Concentration for Cleaning Environment in a Medical Center in Taiwan
	Chen Meiwen Nursing, Taiwan Chen Meiwen 005045@ntuh.gov.tw betty005045@gmail.com
	Abstract Background. Medical institutions are a complex environment where nurture a lot of different microbial flora. For the reasons to avoid cross infection and keep the safety of hospital staff, patients and guests, the key solution is to keep the environment clean. The best Concentration of disinfectant bleach (sodium hypochlorite Sodium Hypochlorite) used in the medical environment was recommended to 500 to 600ppm. The cleaning staff need to dilute the original packet which was 6% concentration of disinfectant bleach with water to 0.06% (600ppm) in a medical center. Aim. The aim of survey is to check the diluting process and result of bleaching liquid concentration for cleaning environment. Methods. This survey was conducted with observational method from 6/8~6/13 2016 in a medical center in Taiwan. The reliability of bleach concentration test machine was checked by test-retest. A total of 53 units of the cleaning staff to be tested, including 39 outsourcing cleaning staffs at general wards, 14 self-employed cleaning staffs at intensive care units. Results. Both of outsourced staffs and self-employed staffs diluted bleach liguid with step completion rate of 100%, the average concentration 509.4ppm (SD= 67.78). The diluted bleach liguid less than 500ppm are 23 units(43.4%) and the rest 30 units (56.6 %)was 500ppm above. All of the bleach packed opened within 0-4 days with an average 0.3 days and abided by the process of dilution principles. Conclusions. The results showed whether the outsourcing staffs or self-employed staffs followed up the bleach dilution policy. There are still 23 units (434%) diluted bleach liguid less than 500ppm. Further investigation is needed to find if there are any systemic problem.
Lee, Hung-Chun	Explore the Predictors of Falls Events for Residents Living in one Long-Term Care Facility
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Abetr act

	Adstract
	Background: The risk factors related to fall in elderly residents in the institution.
	However, information regarding the relationship, predictor residents of institutions to
	the fall event, for elderly residents is not available in recent study.Objective: This
	study aimed to explore the predictors of falls events for residents living in one of north
	long-term care facility. Methods: This retrospective and prospective research studied
	the elderly residents in an institute in Tainei (N = 133). The data were collected by
	nurnesive sempling. The main fools were health status disease factors drug type
	purposite sampling. The main tools were nearly status, usease factors, unug type,
	institution type, and fail risk factors scales, analyzed by SFSS software package for
	lositic regression analysis.
	Results: This research showed: 1. The fall risk factors affecting studied subjectives
	were gender (t = -3.48, P<.001), health status \lfloor (activities of daily living (t = -47, P)
	<.01), balancing function. (t = 38, P $<.01$), and gait function scores (t = 31, P $<.001$),
	cognitive function ($t =53$, P<.001), behavioral and psychological symptoms ($t =39$,
	P<.001), all to the level of statistical significance: 2. Risk factors and disease factors
	affecting the study subjectives also showed a statistically significant difference in the
	fall: 3. Among study of the impact of fall risk factors, institutional care model ($F =$
	28.99, $P < 0.01$) showed a statistically significant difference: 4. The main factors to
	predict whether the falls will happen were length of admission time in the institute
	$(\Omega R = 1.12, P < 0.5)$ the standing balance function ($\Omega R = 0.7, P < 0.5$) and sit down
	ection (OR = 12 P < 05), the standing balance random (OR $100, 110, 100, 100, 100, 100, 100, 100$
	factors of institutional residents gender health status disease factors and treatment
	modulities are all falling risk factors length of admission time in the institute and
	halance function were for important variables to predict a fall event. The findings of
	this study may be a reference in the development of fall prevention caring strategy in
	long term care facility in the future
	Kowwords: Institutional residents falls risk footors
	Non Formal CNE Drogram Darriers to Darticination: A Comparative Study emong
	Homital Nurses of Two Provinces in Palietan
	Hospital Purses of Two Trovinces in Takistan
and a	Zafar Ishal Channa
	Nursing Cell, Shaheed Zulfiqar Ali Bhutto Medical University (SZABMU/PIMS),
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Zafar Iqbal Channa	
GICHNDM1611066	
	The Application of Communication Privacy Management Theory in HIV Disclosure
	in Adolescents: Review of Literature
Ad	Celestine Ashimosi
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price Aller	celehaw@yahoo.com
Celestine Ashimosi	Abstract
GICHNDM1611067	Background: Research shows that children infected with HIV are transitioning into
	adolescence and adulthood. With this comes the challenge of disclosure of their status
	from and to various parties. Forms of disclosure include disclosure by caregiver to
	child and by child to peers or sexual partners. HIV disclosure has been proven to be a

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strategic prevention measure as it greatly affects adherence to ART and informs individuals' decisions including having protected sex or abstaining from sex. WHO recommends disclosure of HIV status to adolescents (WHO 2011) and pre-disclosure counseling on effect of disclosure (WHO 2013). Management of private information, such as HIV status, is a complex process requiring utmost care so that one does not reveal too much that may be detrimental or leave out very important aspects when disclosing such information. The Communication Management Theory (CPM) as hypothesized by Sandra Petronio (2002) expresses significance of interpersonal communication and explains how individuals decide whether to conceal or reveal private information. CPM works on assumptions that boundaries define how the process of management of private information works. This review explored the application of CPM in disclosure of HIV status by adolescents and young adults and how turbulence on these boundaries affects this process.Methodology: Articles were obtained online mainly from PubMed and Google Scholar databases including references from full articles. Key terms searched were HIV disclosure, adolescents and youth. 35 articles met the inclusion criteria. Articles were reviewed to find any content related to HIV disclosure in adolescents, communication factors that influence disclosure and effects of disclosure.Results: With increased access to ART, children infected with HIV are growing into adolescents and young adults and as they grow, they gain more independence over their lives and consequently have more control over information they are privy to and this includes their HIV status. The commonest reason for HIV positive adolescents not sharing their status is their concern about the privacy of this information. Stigma and discrimination have always been challenges that come with disclosure of positive HIV status especially in Africa. ALHIV go to great lengths to hide their HIV status from people who are even close to them for fear of this information being leaked out therefore crossing boundaries created around this information. Mothers of ALHIV consider themselves rightful owners of information on disclosure of the adolescents' status while the adolescents on the other hand are disturbed by this control exerted by others over information they consider their own and having limited control over disclosure of their status. Conclusion: Because of their autonomy, adolescents desire to be given the full rights to decide how, when and who to disclose their status to. Disclosure of HIV status in HIV positive adolescents requires collective participation of the health care providers, the caregivers and the affected adolescent though consultation and respect of boundaries surrounding this information.

Disclosure Status Among Hiv Infected Children Aged 7-14 Years Attending Ampath Clinic, Eldoret- Kenya

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Abstract

Background and Objectives: HIV status disclosure among children is the process of making secret HIV status information known. It is an important public health goal as it is needed in behaviour change, prevention of new infections and improvement in the management of HIV and disclosure outcomes. This study was carried out to determine the disclosure status and associated factors among HIV infected children aged 7-14 years attending AMPATH (Academic Model Providing Access To Health Care) clinic, Eldoret- Kenya.Methods: The study adopted a hospital based cross-sectional study

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	design with a target population of 296 HIV infected children and their primary caregivers. Interviewer administered questionnaires were used to collect information on their disclosure status and the factors that are associated; Chi square test and logistic regression was done to test the strength of associations between the dependent and the independent variables and the resulting odds ratios was used to interpret the associations.Results: The children's mean age was 11.16years SD(2.204). More than half (55%) were females. The mean age of disclosure was 10.94years SD (1.967). Most of the children were under the care of a female caregiver 42.6 %, with majority being married and had a father as the head of the household. Majority were either unemployed or doing casual jobs. Most of the children were not aware of their status (59%). High disclosure levels were associated with higher education levels P(<0.0001), Child's advanved age P(<0.0001), Urban residence P(0.005) Caregiver attendance at counseling sessions P(0.002), transition to second or thirdline Antiretroviral regimen P(0.001) and cargivers who already shered their status with child P(0.0001). Conclusion: Majority of caregivers have not disclosed HIV status to their infected ability of caregivers have not disclosed HIV status to their infected actions in the status infected for the status infected in the status to the infected and shale a status infected for the status to the infected and based shale and the status to the infected and based shale and the status to the infected and based shale and shale a status and the status with child P(0.001).
	children. The sociodemographic and clinical factors found to influence HIV status disclosure were; child's higher level of education, child's advanced age, urban residence, transition to second or thirdline ARV regimen, HIV infected caregiver who shared their status with the child and caregiver attendance at counseling session. Healthcare providers should ensure that caregivers of HIV infected children are provided with counseling support during their routine clinic visit as this was highly assoiciated with disclosure.
Tsou, Suo-Han	A Project to Reduce the Error Rate of Implementing Nursing Accounting Information
GICHNDWI1011009	System by Medical ward Nursing Stati of a Medical Center in Taipei
	Tsou, Suo-Han Department of Nursing, National Taiwan University Hospital, Taiwan <u>sohansohan226@gmail.com</u>
	Abstract
	Purpose: Medical material management and cost control is an important part of medical institution. With the rapid development of medical environment, digital information system gradually adopted into the medical environment could advance the quality of health care and optimize care processes. And the adoption of the nursing accounting information system will reduce the mischarge and losses. Since 2014, nursing accounting information system was implemented to our hospital. Because of the unfamiliar procedures, mischarge was not reduced significantly and there was still a shortage of medical material. Hospital cost loss was virtually
	generated. Thus, the purpose of this project was to reduce mischarge of implementing nursing accounting information system by nursing staff. Method: The project design was conducted to analyze the mischarge of the first month (October) implemented nursing accounting information system and account papers recorded by medical ward
	nursing staff of a medical center in Taipei during 2014. Among these recorded accounts, an expert panel was called to further analyze factors that might be related to mischarge. The main reasons for the analysis of mischarge were (1) part of the accounts could not be recorded directly by nursing accounting information system; (2)
	nursing staff did not click nursing accounting information system correctly; and (3) nursing staff did not check the accounts again. According to the main reasons, the solutions discussed by the expert panel were (1) establishing a check system; (2) creating slides about the details of nursing accounting information system; (3)



	arranging education and training of nursing accounting information system; and(4)
	setting up an accounting advisory communications team. The duration of the
	intervention was from November to December 2014. And the evaluation was provided
	in January 2015. Final, collected the accounts and analyzed the mischarge during
	January 2015. Furthermore, computed the error rate of January 2015 and compared
	with October 2014 to evaluate the results. Results: The error rate of implementing
	nursing accounting information system was reduced from 1.8% (October 2014)
	to1.4% (January 2015). And the cost of mischarge was reduced from 11,088.4
	NT/month to 5,354.4 NT/month. Among the accounts, the mischarge was 49. The
	major reason of mischarge was nursing staff did not click nursing accounting
	information system correctly (n=15, 30.6%). The second reason was part of the
	accounts could not be recorded directly by nursing accounting information system
	(n=11, 22.4%). The accounts could not be recorded directly by nursing accounting
	information system were recorded manually by nursing staff. Most of the mischarge
	could be improved by using check system to monitor accuracy of the accounts.
	Besides, the completion of the records documented by nursing information system
	could be improved at the same time. Furthermore, the cost of mischarge was reduced
	significantly. In conclusion, from the project, most of the mischarge could be
	improved by implementing nursing accounting information system. But initially nursing accounting information system was not so convenient that nursing staff
	avnosted So there were many complaints. Therefore, in the process of implementing
	the project listened the suggestions from nursing staff and communicated with
	hospital information team to gain the more convenient nursing accounting
	information system And thus increase the time of caring natients and ontimize the
	auality of health care.
Su-Ying, Kung	A Project to Improve Nurses "Hand Hygiene 5 Time" Implementation Rate
GICHNDM1611070	
	Su-Ying, Kung
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	Abstract
	The purpose of this study is to carry out a hand hygiene project and boost on the
	practical implementation. We launch this project at medical ward on September in
	2013. Clinical observation Sixteen stati nurses were anticipated the study as observed
	targets. wash the implementation rateiviay or june are
	100%, July, August, September are 50%, 87.5%, 50%, Integrated original was
	reached because a. wash your nands before touching the patient or the implementation of acoptic technique 50% week your hands after context with a
	nuplementation of aseptic technique 50%, wash your nanus after contact with a notion of northern scientific technique 50%. Essential factor i 1. Leak of acquition of
	patient of perform aseptic technique 50% Essential factor : 1, Lack of cognition of
	nursing time for hand-nygiene 5. 2, propagand among the masse not enough.3, lack
	common sense checklist. The intervene was adopted WHO standard including: 1.
	Advocacy 5 timing of implementation and follow-up; 2. Set of 5 time guidelines,
	streamline processes; 3. Asign a pioneer to demonstrate; 4. Promote with films and
	posters; 5. Settle own all the device for hand hygiene. Checklist that developed as
	to grade the quality of implementation rate during alinia case. In the second was found
	to grade the quality of implementation rate during chine care. In the result, we found that the wash 5 timing correct implementation rate from only 56 30/, up to 900/, offer
	mail the wash 5 thining correct implementation rate from only 50.5% up to 80% after project implemented. To sum up, the project had enhanced the frequency of correct
	project implemented. To sum up, the project had enhanced the frequency of correct



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hand hygiene rate. We will check and compare the infection rate after one year implementation. Hope the evidence convince to the effectiveness of the project. Keywords : infection control , hand hygiene 5 time Kung, Su-Ying
Protective Factors against Suicide Attempt among Iranian Adolescents: A Qualitative Study
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Amir Mansouri Paramedical School, Gerash University of Medical Sciences, Gerash, Iran
Abstract A suicide attempt is common among adolescents around the world. Many countries have taken steps to reduce the high incidence of suicide attempts and prevent people from killing themselves. They also provide care to accelerate the process of recovery among those who commit suicide. The aim of this study is a qualitative evaluation of protective factors against suicide attempts among adolescents who recently attempted suicide. In this qualitative study, 18 adolescents with a mean age of 17.44 ± 1.15 who were all single were selected via purposive sampling from among those referred to two hospitals in Shiraz (southern Iran). Data were collected via semi-structured in-depth interviews and were analyzed by using conventional approaches to qualitative content analysis. Three main categories and nine sub-categories were extracted from the data. The main categories included: (a) individual factors (lack of mental conflict, religious beliefs, fear of death, thinking about family, hope for the future); (b) social factors (interaction with friends, social stigma of suicide attempt); and (c) professional advice and support (psychological counseling, spiritual counseling). The findings of this study can guide health professionals to take measures to prevent suicide attempts, communicate with people who are at risk of suicide and to prevent relapse of those who are in recovering period after attempted suicide. Key words: Adolescent; Content analysis; Protective factors; Qualitative research; Suicide attempt
Biosynthesis of pH responsive shape memory hydrogel and its biomedical potential Ahmad Mohammed Gumel Dept. of Microbiology & Biotechnology, Federal University Dutse, Nigeria sarki2gumel@yahoo.com dr.gumel@fud.edu.my Abstract Multifunctional hydrogels combining the capabilities of cellular pH responsiveness and shape memory, are highly promising for the realization of smart membrane filters, controlled drug released devices, and functional tissue-engineering scaffolds. Free radical biocatalytic polymerization catalyzed by immobilized Candida antarctica lipase B was used to fabricate the pH-responsive and shape memory hydrogel using

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	(PHA-PEGMA) as macromer. The accelerative wound healing potential of the biosynthesized smart PHA based hydrogel was evaluated herein. The thermal stability of the measurement highly dependence the PECMA function from 10 to 50% (mass)
	Similarly, the change in PEGMA fraction was also found to highly influence the
	hydrogel's hydration rate (r) from 2.83 x 10-5 to 7.63 x 10-5 mL/s. The hydrogel's aquilibrium weight swelling ratio (ga) protein release and its diffusion coefficient
	(Dm) were all found to be pH dependent. For example, increasing the phosphate
	buffer pH from 2.4 to 13 resulted in increased qe from 2 to 16 corresponding to the
	-250 g each were randomly assigned to four groups of six rats. Rats in group I
	(negative control) were dressed with sterilized gum acacia paste in 10% normal saline while BECMA clone hydrogel (BH) was used to dress group H (secondary control)
	rats. Group III rats were dressed with PHAs cross-linked PEGMA hydrogel (PPH).
	For the positive control (group IV), the rats were dressed with Intrasite®
	revealed a significant difference in area closure and re-epithelialization on days 7 and
	14 in PPH or Intrasite® gel group compared to gum acacia or PEGMA-alone groups. Furthermore wounds dressed with PPH or Intrasite® gel showed evident collagen
	deposition, enhanced fibrosis and extensively organized angiogenesis on day 14
	compared to the negative control group. The findings suggested that topical application of PPH accelerated the rats' wound healing process by improving
	angiogenesis attributed to the increased microvessel density (MVD) and expressions of
	treatment of cutaneous wounds in rats, and could be a potential novel agent in the
	management and acceleration of wound healing in humans and animals.
	Renewable polymers; Composites; Hydrogel; PHA; PEGMA; Wound Healing.
Dr. OlfatGamil Shaker	Are TLR4; Asp299Gly (rs4986790), Thr399Ile (rs4986791), NOD2/CARD15; 1007fs (3020ins(C) (rs2066847) and SIBT1 (rs12778366 polymorphisms associated with
GICB3SC1611052	colorectal cancer in Egyptian patients?
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	Abstract
	A wide variety of genes have been associated with colorectal cancer (CRC) development and progression. Toll-like receptors (TLRs) and the nucleotide-binding



	oligomerization domain (NOD)-containing proteins (Nods) are two important families of microbial sensors. They play a critical role inthe host initial sensing of microbial agents by the recognition of conserved structures. SIRT1) is one of the mammalian homologue of silent information regulator 2 (Sir2). SIRT1 expression is increased in various human malignant tumors such as colon and breast cancer. This study aimed to assess whether polymorphism in TLR4; Asp299Gly (rs4986790), Thr399Ile (rs4986791), NOD2/CARD15; 1007fs (3020insC) (rs2066847) and SIRT1 (rs12778366), all involved in innate immune response and inflammation, as well as serum TLR4 levels is associated with the risk for CRC in an Egyptian population of 77 CRC patients and 36 healthy controls. Results showed that polymorphisms in the TLR4; Asp299Gly (rs4986790), Thr399Ile (rs4986791), NOD2/CARD15; 1007fs (3020insC) (rs2066847) were not associated with CRC. Higher serum levels of TLR4 was observed in CRC patients than in the controls. SIRT1 (rs12778366) TT genotype was associated with CRC. In conclusion, our data suggest that SIRT1 (rs12778366) but not TLR4; Asp299Gly (rs4986790), Thr399Ile (rs4986791) and NOD2/CARD15; 1007fs (3020insC) (rs2066847) SNPs has significant association with CRC.
	Keywords: Colorectal cancer; single nucleotide polymorphism; TLR4; NOD2; SIRTI
With the second seco	The Target Study of Chinese Medicine Nuberxiaone Treatment Effect of Tuberculosis Yanbo Ling Army Tuberculosis Prevention and Control Key Laboratory, Institute of Tuberculosis Research, the 309th Hospital of Chinese PLA, Beijing 100091, China ybling2008@163.com Junxian Zhang Army Tuberculosis Prevention and Control Key Laboratory, Institute of Tuberculosis Research, the 309th Hospital of Chinese PLA, Beijing 100091, China Xueqiong Wu Army Tuberculosis Prevention and Control Key Laboratory, Institute of Tuberculosis Research, the 309th Hospital of Chinese PLA, Beijing 100091, China Abstract We study the targets of the Chinese medicine of NIUBEIXIAOHE treatment effect on tuberculosis via transcriptomics technologies.64 BALB/c mice were randomly divided into five groups as follow: blank control group, M.vaccae group, Iow dose group of Niubeixiaohe, high dose group of Niubeixiaohe, and isoniazid group. The mice were given distilled water or different doses of Niubeixiaohe extract by alimentary canal for 6 weeks, but the mice in M.vaccae group need be injected intramuscularly with M.vaccae vaccine, isoniazid and the control group were also given saline by intramuscular injection one time at 2 weeks interval, totally injected 3 times. RNA was extracted by blood, and was analyzed with transcriptome technologies. After Chinese medicine treatment, antibody production was inhibited and Th2-type immune weakened, so the transformation from Th2 to Th1 played a role in anti-TB. After drug treatment, the gene Synj2 was down-regulated, especially M.vaccae was down-regulated very significant, indicating that phagocytosis of M. tuberculo
	M.vaccae.
Mohammed Amin Azzi	The Impact of E-Commerce to Improve the Quality of Banking Services



GICB3SC1611054

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Abstract

	This note aims to demonstrate the impact that come out of electronic commerce to improve the quality of banking services, and to answer the questions raised in the problem, also aims to find out the methods applied in the banks to improve the quality of banking. And it was identified conceptual framework for electronic commerce and electronic banking. In addition to the inclusion of a case study includes the Algerian Popular Credit Bank to measure the impact of electronic commerce on the quality of banking services. Has been focusing on electronic banking services as a field of modern knowledge including fields are characterized by high module in content and content, where banking management concluded that the service and style of electronic submission is the only area to compete and improve their quality. After studying the exploration of some of the banks operating in Algeria and concluded that the majority relies sites especially on the Internet to introduce itself and its affiliates as well as the definition of customer coverage for traditional and electronic which are still at the beginning of the road where only some plastic cards, e-Banking, Bank of cellular , ATM and fast transfers. The establishment of an electronic network that requires the use of effective banking system overall settlement of all economic sectors, also requires the Algerian banks ready to receive this technology through modernization of management, and modernization of services (expand the use of credit cards, electronic money, and expansion of the Internet). As well as the development of the banking services inevitable impose itself in determining the future of banking and evelopment, has also been reached that there is the impact of electronic commerce on the improvement of banking services through the provision of information base and extensive refresher on-site research and development, and apply strategies Marketing, all of which help banks to increase the performance of its services and not the
	nature of the service itself and clear impact also by changing the shape or location of service from traditional to electronic which works to reduce and the costs of providing high quality corrige and thus access to the largest segment
K.Narasimhulu GICB3SC1611055	A Review on Recent Advances and Applications of Regenerative Medicine
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	Abstract Regenerative medicine is a broad field that includes tissue engineering but also incorporates research on self-healing – where the body uses its own systems, sometimes with help foreign biological material to recreate cells and rebuild tissues and organs. The terms "tissue engineering" and "regenerative medicine" have become largely interchangeable, as the field hopes to focus on cures instead of treatments for complex, often chronic, diseases. This field continues to evolve. In addition to medical applications, non-therapeutic applications include using tissues as biosensors to detect biological or chemical threat agents, and tissue chips that can be

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	used to test the toxicity of an experimental medication. Regenerative medicine empowers researchers to grow tissues and organs in the laboratory and safely implant them when the body cannot heal itself. Importantly, regenerative medicine has the potential to solve the problem of the shortage of organs available for donation compared to the number of patients that require life-saving organ transplantation, as well as solve the problem of organ transplant rejection, since the organ's cells will match that of the patient. It refers to a group of biomedical approaches to clinical therapies that may involve the use of stem cells. Regenerative medicine acts by a combination of several technological approaches including the use of soluble molecules, stem cell transplantation, tissue engineering etc. Some of the examples of regenerative medicines include; the injection of stem cells or progenitor cells, the induction of regeneration by biologically active molecules; and the transplantation of in vitro grown organs and tissues. In this paper, the recent advances and applications of regenerative medicine were discussed
	Key Words: Tissue engineering, regenerative medicine, cell therapy, organ transplant, stem cells
	Microfabricated Flexible Electrodes for Blocking the Sciatic Nerve of a Frog
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	Abstract According to the statistics 5.6 million people in the current U.S. population (1.9%) are

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Suffered Troub paragosis (Doubley, Gusson, & Turber, 2009). Functions in nervous system (Prodanov, Marani, &Holsheimer, 2003). In this method, the nerves are stimulated by the electrodes to awake the muscles. But, it is hard to control the localization of the stimulation (FES) is a known method to restore the lost functions in adjacent nerves, causing pain (Cockerham et al., 2008). For this reason, blocking current should be applied to terminate the unwanted stimulations. Since the applied DC blocking current is desired to be as low as possible (Prodanov, Marani, &Holsheimer, 2003). So, we aim to reduce the blocking current applied with our microfabricated planar and flexible electrodes compared to classical method. In classical method, cables are used for blocking. In our research, we compared the minimum required blocking currents. For applying the blocking currents we used flexible electrodes, planar electrodes and cables. Required experiments were done in-situ along the sciatic nerve of a frog. In terms of high surface area and fitting contact with the sciatic nerve, planar electrode is more proper than cables. The results showed that the planar electrodes reduce blocking current by %50-70 compared to classical method. Furthermore, we compared the values of blocking currents of flexible electrodes to the values of planar electrodes and cables. Since the flexible electrodes are more efficient to reduce the blocking current to with 505 compared to cables. In conclusion, we observed that the flexible electrodes are more efficient to reduce the blocking current compared to planar electrodes and cables. In conclusion, we observed that the flexible electrodes are more efficient to reduce the blocking current compared to planar electrodes and cables. In conclusion, we observed that the flexible electrodes are classical method. From this aspect, our flexible electrodes in smaller sizes will be suitable for other implantable medical applications such as paralyzed facial nerves in the future. Twis work is supported b		suffered from nevelusis (Denelloy, Cibson, & Turney, 2000) Functional Electrical
Summation (PE-S) is a known metnico to restore ne lost functions in nervous system (Prodanov, Marani, &Holsheimer, 2003). In this method, the nerves are simulated by the electrodes to awake the muscles. But, it is hard to control the localization of the stimulation. Therefore, it causes non-targeted stimulation in adjacent nerves, causing pain (Cockerham et al., 2008). For this reason, blocking current should be applied to terminate the unwanted stimulations. Since the applied DC blocking current in large quantities damages the nerves permanently, the blocking current is nerves, causing pain (Cockerham et al., 2008). For this reason, blocking current is pained to blocking current applied with our microfabricated planar and flexible electrodes compared to classical method. In classical method, cables are used for blocking. In our research, we compared the minimum required blocking currents. For applying the blocking currents were done in-situ along the sciatic nerve, planar electrode is more proper than cables. The results showed that the planar electrodes reduce blocking currents of McNobe of the sciatic nerve, planar electrodes and cables. Since the flexible electrodes surround the nerve better, it has more contaxt surface area compared to others. We measured that the flexible electrodes and cables. Since the flexible electrodes are more efficient to reduce the blocking current ownpared to planar electrodes are more efficient to reduce the blocking current compared to planar electrodes are more efficient to reduce the blocking current compared to planar electrodes are more efficient to reduce the blocking current compared to planar electrodes are more efficient to reduce the blocking current compared to planar electrodes are more efficient to reduce the blocking current compared to planar electrodes are more efficient to reduce the blocking current compared to planar electrodes are more efficient of without here the supported by The Scientific and Technological Research Council of Turke		surfered from paratysis (Doneney, Gloson, & Turner, 2009). Functional Electrical
(Prodanov, Marani, &Holsheimer, 2003). In this method, the nerves are stimulated by the electrodes to awake the muscles. But, it is hard to control the localization of the stimulation. Therefore, it causes non-targeted stimulation in adjacent nerves, causing pain (Cockerham et al., 2008). For this reason, blocking current is desired to be as low as possible (Prodanov, Marani, &Holsheimer, 2003). So, we aim to reduce the blocking current applied with our microfabricated planar and flexible electrodes compared to classical method. In classical method, cables are used for blocking. In our research, we compared the minimum required blocking currents. For applying the blocking currents, we used flexible electrodes, planar electrodes and cables. Required experiments were done in-situ along the sciatic nerve of a frog. In terms of high surface area and fitting contact with the sciatic nerve, planar electrodes is more proper than cables. The results showed that the planar electrodes reduce blocking currents by 560-70 compared to classical method. Furthermore, we compared the values of blocking current by %80-95 compared to cables. In conclusion, we observed that the flexible electrodes are more efficient to reduce the blocking current to planar electrodes and cables. Since the Bestible electrodes are more efficient to reduce the blocking current compared to planar electrodes and cables. In conclusion, we observed that the flexible electrodes are more efficient to reduce the blocking current compared to planar electrodes and cables. Since the Public Health Center, Wonju, Republic of Korea Kang Yoon Kim GICB3SC1611058 Warner Study instituted a simple approach to stimulate bone regeneration for tooth tissue engineering. Kang Yoon Kim GicBass Engineering, Kang Yoon Kim GicBass Engineering, Kang Yoon Kim Dupanic Fluid Flow Hubit Health Center, Yoosu, Republic of Korea Kang Yoon Kim GicBass Engineering, Kang Yoon Xima Hubit Engineering Kang Yoon Kim GicBass Engineering, Kang Yoon Xima Hubit Hubit Health Center, Sis		Stimulation (FES) is a known method to restore the lost functions in nervous system
the electrodes to awake the muscles. But, it is hard to control the localization of the stimulation. Therefore, it causes non-targeted stimulation in adjacent nerves, causing pain (Cockerham et al., 2008). For this reason, blocking current should be applied to terminate the unwanted stimulations. Since the applied DC blocking current in large quantities damages the nerves permanently, the blocking current is desired to be as low as possible (Prodanov, Marani, &Holsheimer, 2003). So, we aim to reduce the blocking current applied with our microfabricated planar and flexible electrodes compared to classical method, cables are used for blocking. In our research, we compared the minimum required blocking currents. For applying the blocking currents, we used flexible electrodes, planar electrodes and cables. Required experiments were done in-situ along the sciatic nerve, planar electrode is more proper than cables. The results showed that the planar electrode reduce blocking currents by %50-70 compared to classical method. Furthermore, we compared the values of blocking currents of flexible electrodes surround the nerve better, it has more contact surface area and fitting contact with the sciatic nerve, planar electrodes and cables. Since the flexible electrodes and classical method. Furthermore, we compared the values of blocking current by %60-95 compared to cables. In conclusion, we observed that the flexible electrodes are user efficient to reduce the blocking current by %60-95 compared to cables. In conclusion, we observed that the flexible electrodes and classical method. From this aspect, our flexible electrodes in smaller size will be suitable for other implantable medical applications such as paralyzed facial nerves in the future. This work is supported by the Scientific and Technological Research Council of Turkey (TUBITAK) 113S081 grant. Keywords : FES, Flexible Electronics, Nanotechnology, Neuro engineering Dynamic Fluid Flow Induces the Ostogican Differentiation of Human Bone-Derived Mesenchymal Stem		(Prodanov, Marani, & Holsheimer, 2003). In this method, the nerves are stimulated by
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		differentiation in vitro. Human bone-derived mesenchymal stem cells (hBMSCs) were
cultured with LESS to generate cultures containing hone-like formations. To		cultured with LFSS to generate cultures containing hone-like formations. To
distinguish between osteodifferentiation and hone-like formation, cells were cultured		distinguish between osteodifferentiation and hone-like formation, cells were cultured
either with or without fluid shear stress. The calcium content and alkaline		either with or without fluid shear stress. The calcium content and alkaline



	phosphatase (ALP) activity of hBMSCs were used as indicators of osteogenesis. Cell viability and proliferation after stimulating with LFSS for 10–60 min/day were higher than with longer stimulations. Mineralized nodules formed when osteoblasts were cultured with an induction medium, a marker of osteogenic differentiation. ALP activity tended to increase after 10 and 60 min/day of stimulation. In addition, LFSS conditions also increased gene expression of IBSP, RUNX2, COL-I, ALP, OCN, and OPN, as shown by reverse transcriptase–polymerase chain reaction. From the results
	of a proteomics array, LFSS groups were intensely expressed with several factors (EGF, HGF, IGF, TGF, and PDGF). Furthermore, CD146 and Stro-1 expression increased in cells treated with 30 min/day and decreased in cells treated with 120 min/day, as determined by cell surface antigen analysis by fluorescence-activated cell-sorting analysis. These results strongly showed that LFSS at the proper intensity and time enhanced the differentiation and maturation of hBMSCs In conclusion, an appropriate level of LFSS can potently and positively modulate proliferation and
	differentiation in hBMSCs.
	Antimicrobial Activity of Rhamnolipid and Bs15 against Escherichia Coli and Their Synergistic Interaction
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	Abstract
	Biosurfactants (BS) are low toxic, biodegradable chemical with surface tension
	lowering property. They have additional immunological, anticancer and antibacterial
	activity. We have isolated two potential biosurfactants, rhamnolipid and lipopeptide type biosurfactant BS15 from Decudemonas acruginese and Bacillus stratesphericus
	respectively. The objective of our study was to evaluate the antimicrobial potential of
	both the biosurfactants against Escherichia coli and simultaneously establish their
	synergistic interaction. The individual minimum inhibitory concentration (MIC) of
	rhamnolipid and BS15 against E. coli were evaluated. The fractional inhibitory
	concentration (FIC) index of the two BS against E. coli clearly implied a strong
	biosurfactants was bactericidal at much lower concentration than that of the
	individual BS. The cell permeation efficiency of the biosurfactants was substantiated
	by increase in the factors like cellular protein release, cell surface hydrophobicity and
	crystal violet content. The cell wall disrupting capacity was finally confirmed by
	fourier transform infrared spectroscopy (FTIR) and scanning electron microscopic
	(SEM) study. Thus we were pioneer in finding the potential synergistic interaction of



		the combination of two biosurfactants that could prove to be a promising alternative of traditional antibiotics in near future
		Keywords: Rhamnolipid, Synergistic interaction, Minimum inhibitory concentration,
		Fractional inhibitory concentration, Bactericidal activity
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		Ming Chen Wong Ph D
		Surface Modification and Mechanics of Riomaterial Lab. Department of Riomedical
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		Abstract
		The cell culture is the process of dispersal cells grown out of natural environment
		composed of nutrient solutions, a suitable surface to support the growth of cells, and ideal conditions. In cell biology, research often relies on developing in vitre models to
		enable the growth of cells in the laboratory to investigate a specific biological
		mechanism or process under different test conditions. An issue in Cell culture of the
		living cells in vitro is the absence of the cell culture techniques of simulating a well-
		developed environment. Although most of the research papers mention the regular 2D
		cultivation has to be replaced by three dimensional cell culturing (3D) for better
		simulation of in vivo conditions, yet they only define the platforms of the culturing
		methous including the scallold techniques and scallold-ifee techniques, with scallolds made from either natural or synthetic materials for cells to aggregate. This survey
		enhances the growth environment for cultured cells. In this naner, we explore an
ļ		system of the atmospheric plasma-surface modification using the Helium cold
		atmospheric pressure plasma jet of needle-type, which has the distinct hydrophilic



	and hydrophobic characteristic of the modified slide glasses. This is then followed by
	the MTT assay of the fibroblast(L929) and cell attachment investigation to discuss the
	cell growth under a modified environment, which contributes to advancing basic
	research, increasing the accuracy of the condition of 3D cell culture.
	The experiment confirmed that the difference of hydrophilic and hydrophobic affect
	the situation of cell attachment. The slide glass modified by plasma has no
	cytotoxicity. It provides cells the closer survival microenvironment in vivo to reach 3D
	cell culture. In further, it develops into biomaterials.
	Nootropic and antidepressant-like effects of Musa sapientum L.
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GICD55C1011002	Ayesha Saleem
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	Abstract
	Banana (Musa sapientum L.) one of the foremost tropical fruits, is commercially
	imperative in world trade. Banana is not only provides nutrition as well as it is also
	cheapest. All parts of the banana plant have been used for medicinal purpose.
	Different parts of banana has various activities such as hypoglycaemic, hypolipidemic,
	anti hypertensive, wound healing, diuretic, anti ulcerogenic activities .The present
	study was aimed to investigate the role of banana fruit and peel in depression and
	memory functions. Locally bred albino Wistar mice were divided into control and 2
	test groups (n=6). Control rats were received drinking water while test groups were
	treated with extract of banana peel and suspension of banana fruit. Behavioral
	activities of animals were monitored 15 days post administration of banana peel
	extract fruit suspension. Depression-like symptoms were measured by forced
	swimming test (FST). Anxiety like behavior was monitored using light-dark transition
	test and plus maze activity test and memory functions of rats were assessed by morris
	water maze (MWM) test. In the present study both banana peel and fruit increased
	the anxiety in mice as compared to control. A significant increased in FST was
	observed in both banana peel and fruit treated animals suggesting antidepressant like
	effects. Moreover learning and memory assessed by MWM showed increased memory
	function in both banana peel and fruit treated animals as compared to control
	animals. It is suggested that both banana peel and fruit have anti-depressant like
	activity and also nootropic effects.
	Key words: Banana peel, Banana fruit, depression, anxiety, memory function
	Plasmepsin II as a Potential Drug Target for Resistant Malaria
00	GunjanKatval
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and and have	Abstract
	Malaria is a disease caused by parasites of genus Plasmodium, is among the most
	widespread infectious diseases in the world, afflicting and killing several all over the



GunjanKatyal GICB3SC1611063	world. The evolution of the ability to prevent vacuolar accumulation of weak bases has led to the emergence of drug-resistant strains of P.falciparum. 37 putative targets were shortlisted out of 546 proteins which were selected initially from Medicine for Malaria Venture (MMV), and GSK library for studying homology with human targets using BLAST. Nine targets with homology, less than 40%, were considered for further study. With in silico structure-based drug design approach, the differences in binding energies of the substrate and inhibitor were exploited between target sites of parasite and human. Three targets including Plasmepsin II, which is an aspartic protease, is an essential component of its haemoglobin-degradation pathway and hence a novel target for anti-malarial. Drug development were finally selected to perform docking studies with 13469 leads predicted by GSK against malaria from ChEMBL and TDR targets database v5 using Discovery Studio The docking studies show several promising molecules from GSK library with more effective binding as compared to the already known inhibitors for the drug target. Finally the compounds which were having top hits were validated by Auto Dock.
GunjanKatyal GICB3SC1611063	In silico Studies on Selected Drug Targets for Combating Drug Resistance in Plasmodium falcifarum D. Bhaskar SavitribaiPhule Pune University, Pune, India N. R. Wadehra SavitribaiPhule Pune University, Pune, India M. Gulati SavitribaiPhule Pune University, Pune, India
	A. Narula SavitribaiPhule Pune University, Pune, India R. Vishnu SavitribaiPhule Pune University, Pune, India R. Vishnu SavitribaiPhule Pune University, Pune, India G. Katyal SavitribaiPhule Pune University, Pune, India Abstract With drug resistance becoming widespread inPlasmodium falciparum infections, the development of the alternative drugs is the desired strategy for prevention and cure of malaria. Three drug targets were selected to screen promising drug molecules from the GSK library of 13469 molecules. Using an in silico structurebaseddrug designing approach, the differences in binding energies of the substrate and inhibitor were exploited between target sites of parasite and human to design a drug molecule against Plasmodium. The docking studies have shown several promising molecules from GSK library with more effective binding as compared to the already known inhibitors for the drug targets. Though stronger interaction has been shown by several molecules as compared to the reference, few molecules have shown the potential as drug candidates though in vitro studies are required to validate the results. In case of thymidylate synthase-dihydrofolatereductase (TS-DHFR), three compounds have shown promise for future studies as potential drugs.



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	Keywords—Drug resistance, Drug targets, In silico studies, Plasmodium falciparum.
	Plasmepsin II as a Potential Drug Target for Resistant Malaria
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	Abstract With drug resistance becoming extensively pervasive in Plasmodium falcinarum
	infections, research for alternative drugs is becoming mandatory for prevention and cure of malaria. Increased resistance against anti malarials such as chloroquine and sulfadoxin/pyrimethamine, has resulted in developing new drug therapies. Aspartic proteases called plasmepsin are present in different species of Plasmodium. With the use of in silico structure-based drug design approach, the differences in binding
	energies of the substrate and inhibitor were exploited between target sites of parasite

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and human. The docking studies show several promising molecules from GSK library
with more effective binding as compared to the already known inhibitors for the drug
targets. Stronger interactions are shown by several molecules as compared to the
reference molecules which have shown to be the potential as drug candidates. Key
Words Aspartic protease, Drug resistance, Drug targets, Inhibitors, in silico studies,
Plasmepsin, Plasmodium falciparum

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» 12th International Conference on Healthcare, Nursing and Disease Management (HNDM), 09-10 Dec 2016, Kuala Lumpur

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» 13th International Conference on Nursing and Midwifery (ICNM), 26-27 May 2017, Lisbon

» 14th International Conference on Healthcare and Life Science Research (ICHLSR), 17-18 June 2017, Singapore

» 14th International Conference on Nursing and Midwifery (ICNM), 17-18 June 2017, Singapore

» 15th International Conference on Healthcare & Life-Science Research (ICHLSR), 24-25 June 2017, Kuala Lumpur, Malaysia

» 15th International Conference on Nursing & Midwifery (ICNM), 24-25 June 2017, Kuala Lumpur, Malaysia

» 16th International Conference on Healthcare & Life-Science Research (ICHLSR), 15-16 July 2017, Bali, Indonesia

» 16th International Conference on Nursing & Midwifery (ICNM), 15-16 July 2017, Bali, Indonesia

11th International Conference on Biotechnology, Bio Informatics, Bio Medical Sciences and Stem Cell Applications (B3SC), 21-22 Sept, 2016, London, Imperial College London, South Kensington Campus | London SW7 2AZd



» 17th International Conference on Healthcare & Life-Science Research (ICHLSR), 22-23 July 2017, Bangkok, Thailand

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