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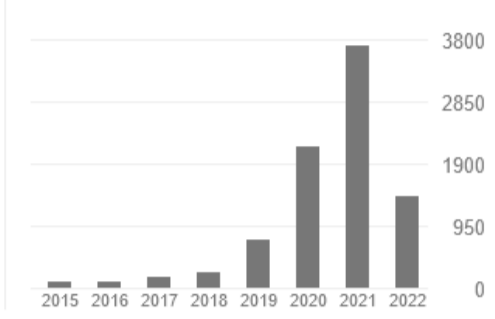
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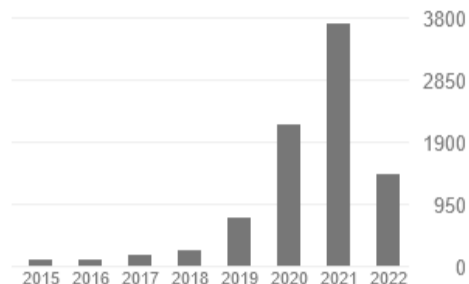
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 Irina Popova, Sergey Shabunin, Yury Vatnikov, Sergey Yagnikov, Arfenia Karamyan, Nikolay Babichev, Svetlana Suslina, Alfiya Ibragimova, Alexey Shvets, Darya Radeva, Nikolay Sakhno, Valentina Semenova

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[The Practicability of the Application of Vitamin D in Combination with Vitamin K for the Improvement of Bone Tissue Metabolism](#)

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[The Aspects and Stages of Reversible Thinking of Secondary School Students in Resolving the Problems of Fractional Numbers](#)

 Lalu Saparwadia, Cholis Sa dijahb, Abdur Rahman As aric, Tjang Daniel Chandrad.

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👤 *Shaima Ahmed Rahim*

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👤 *Endri Endri, Desi Susanti, Lamminar Hutabarat, Torang P. Simanjuntak, Susi Handayani*

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👤 *Mohapatra D, Jena S, Prusty S K, Sahu P K*

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👤 *Rasha Salih Nuhair, Nabeel Mahdi Abid, Shaymaa Z.Al-Rumaidh*

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👤 *Dusadee Ayuwat and Nattapon Meekaew*

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👤 *Harun Achmad, Huldani, Yunita Feby Ramadhany.*

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👤 *Suleiman Mohammed Saeed, Dusadee Ayuwat*

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Review Article

[Study of Regional Factors Influencing the Consumer Demand for Medicinal Drugs for Outpatient Treatment of Patients with Community-Acquired Pneumonia](#)

👤 *Taisiya Ivanovna Kabakova, Andrey Borisovich Goryachev, Adisa Arsenovna Umirova, Gasbulla Suleymanovich Barkaev, Natal'ya Nikolaevna Kuvshinova, Elena Yur'evna Lemeshchenko, Oleg Nikolaevich Afanas'ev.*

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[Mechanisms of Antibiotics Resistance in Bacteria](#)

👤 *Thualfakar Hayder Hasan, Raad A. Al-Harmoosh*

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[Prediction and Pregravid Preparation of Women with High-Risk Development of Gestational Diabetes Mellitus](#)

👤 *Orazmuradov A.A., Damirova S.F., Savenkova I.V., Arakelyan G.A., Barinova E.K., Haddad Kh*

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[Aquaporin-5, Subunit Beta in the Sodium Channel Epithelium, Lung Ultrasonography Examination in Transient Tachypnea of the Newborn](#)

👤 *Herlina Uinarni, Bachtiar Murtala, Muhammad Nasrum Massi, Andi Dwi Bahagia Febriani, Ristianiah Rose Effendy, Mochammad Hatta, St. Maisuri T Challid, Mirna Muis, Ema Alasiry, Burhanuddin Bahar, Huldani, Harun Achmad.*

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Review Article

[Purification of Urokinase Enzyme from Serum Blood of Patients with Pneumonia](#)

👤 *Aya Jasim Mohammed, Asmaa Hashim Shaker*

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[The Influence of Red Ginger Extract in Menopause Climacterium Period of Total Cholesterols in Covid-19 Pandemic Period in East Java](#)

👤 *Siti Mudrikatin*

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Review Article

[Ecological Modeling Research of Transformations of Unsymmetrical Dimethylhydrazine and N-Nitrodimethylamine](#)

Alma Ormanbekovna Bimaganbetova, Kairat Rizabekovich Uteulin, Anuar Bulatovich Atygaev, Olga Alekseevna Fedorina, Yelena Yurievna Stepanova, Yerlan & 1040; chmedovich Bekeshev

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[Cortisol, IL-6, TNF Alfa, Leukocytes and DAMP on Exercise](#)

Huldani, Ilhamjaya Pattelongi, Muhammad Nasrum Massi, Irfan Idris, Agussalim Bukhari, Agung Dwi Wahyu Widodo, Herlina Uinarni, Austin Bertilova Carmelita, Adelgrit Trisia, San Gunma, Bagas Kara Adji Prayudhistya, Harun Achmad.

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[Biochemical Study to Assess the Level of Galectin-1 in Type 2 Diabetic Patients with Renal Failure Undergoing Hemodialysis](#)

Rasha Hasan Jasim and Wedyan Mohammed Turki.

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[Probabilistic Liability as an Economic Category in Valuation and Analytical Procedures](#)

Alexander Viktorovich Shchepot'ev

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Review Article

[Antibacterial Chitosan of Milkfish Scales \(Chanos chanos\) on Bacteria Propyromonas gingivalis & Agregatibacter actinomycetemcomitans](#)

Harun Achmad*, Arni Irawaty Djais, Miftahul Jannah3 Austin Bertilova Carmelita, Herlina Uinarni, Evi Mustikawati Arifin, Huldani, Aminuddin Prahatama Putra

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[International Protection of Human Rights During the Covid-19 Pandemic Fight](#)

Ouarda Belkacem Layachi.

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[The Role of National Legislation and International Treaties in Protecting Confidential Information for Nuclear Defense](#)

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Review Article

[Corona Virus Infectious Disease 19 \(COVID-19\) in Various Reviews](#)

👤 *Huldani*, Herlina Uinarni, Bayu Indra Sukmana, Thomas Tommy, Muhammad Fadli Said, Edyson, Amiruddin Eso, RyantoKarobuana Sitepu, EviMustikawati Arifin, Ferra Olivia Mawu, Arie Adrianus Polim, IwanKurnia Effendi, Yustinus Charles Ariestiyanto, Hutasoit Charles Martamba, Wafa Ahdiya, Muhammad Hasan Ridhoni, Harun Achmad*

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[Modeling of Epidemic Transmission and Predicting the Spread of Infectious Disease](#)

👤 *Ismail Husein, Dwi Noerjoedianto, Muhammad Sakti, Abeer Hamoodi Jabbar*

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[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.30

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[Learning Basic Fundamental Movement Skills Through Local Wisdom Traditional Games Urang Banjar](#)

👤 *Arie Rakhman, Basuki Wibawa, Rusmono*

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[Evaluation of the Nomenclature of Herbal Expectorants on Russian Pharmaceutical Market: Current Status and Future Prospects](#)

👤 *Kakhramanova S.D., Bokov D.O., Rendyuk T.D., Janulis V., Sakr M., Samylina I.A., Potanina O.G.5, Nikulin A.V., Nasser R.A*

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[The Development of Assessment Rubric on The Integrated Thematic Textbook in Elementary School Classes in Indonesia](#)

👤 *Alipin, Basuki Wibawa & Rusmono.*

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Review Article

[Evaluation of Discrepancy between GeneXpert \(MTB/RIF\) Assay and Drug-Susceptibility Test Result](#)

👤 *Erlina Burhan, Gassani Amalia, Darayu Calvert Wilson*

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[Estimated Methane Gas Emissions \(CH₄\) from the Utilization of a Biogas Technology as an Alternative Fuel Source in Ploso Ngamban Village, Kendal, Ngawi East Java](#)

👤 *Wildani Mahmudah, Shella Azen Noviasari, Dhany Damayanti, Gigih Prihantono.*

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[Polysaccharides of Crude Herbal Drugs as a Group of Biologically Active Compounds in the Field of Modern Pharmacognosy: Physicochemical Properties, Classification, Pharmacopoeial Analysis](#)

👤 *Bokov D.O., Sharipova R.I., Potanina O.G., Nikulin A.V., Nasser R.A., Samylina I.A., ChevidaeV V.V., Kakhramanova S.D., Sokhin D.M., Klyukina E.S., Rendyuk T.D., Janulis V., Krasnyuk I.I. (junior), Bessonov V.V.*

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[Diagnosis and Treatment of Sexual Concepts in the Curricula from the Foundation of Education Perspective for Higher Basic Stage Students](#)

👤 *Bassam Ahmad Alshorman.*

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[Spatial analysis of the effect of soil on natural plant diversity and used in traditional medicine in the Najaf district center](#)

👤 *Iman Abdelhusein Alattabi, Hassan Abdullah Hassan, Safaa M. Almudhafar*

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[Permitting for Sustainable Natural Resources Management in Indonesia](#)

👤 *Muhammad Ilham Arisaputra, Anshori Ilyas, Zulkifli Aspan, Dian Utami Mas Bakar, Ariani Arifin.*

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[The Effectiveness of a Cloud Computing-based Learning Program in Enhancing Students' Motivation to Learn Islamic Education in UAE](#)

👤 *Mohammad Abdulsalam Suliman Al Arood, Majed Zaki Aljallad, Nashaat Baioumy*

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[Inhibitory Power Test of White Rice Bran Extract \(*Oryza sativa* L.\) with the Solution of Ethanol and Aquades on *Porphyromonas gingivalis* \(In Vitro\) Bacteria](#)


👤 *Harun Achmad, Marhamah F. Singgih, Huldani, Al Frida Ramdhani, Yunita Feby Ramadhany*

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[Methodical Basis for Analysis of Monosaccharide Profile of the Polysaccharide Complex in the Mixture Herbal Product \(Pectorales Species No 2\)](#)

 *ChevidaeV V.V., Bokov D.O., Potanina O.G., Nikulin A.V., Nasser R.A., Samylina I.A., Sokhin D.M., Sergunova E.V., Bobkova N.V., Kovaleva T.Yu., Rendyuk T.D., Janulis V., Morokhina S.L., Grikh V.V., Krasnyuk I.I. (junior), Galiakhmetova E.K., Moiseev D.V.*

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[Situational Leadership with the STIFIn Genetic Intelligence Approach](#)


 *Andhika P. Widyadharma, Nurul Ulfatin, Sugeng Utaya, Achmad Supriyanto.*

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[Knowledge and Practice of Cement Factory Workers in Relation to Respiratory Symptoms: A Cross-Sectional Study](#)


 *Sadeel A. Shanshal, Harith Kh. Al-Qazaz**

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[Coltsfoot Leaves \(Tussilago farfara L.\) ? A Promising Source of Essential Amino Acids](#)

 *Chromchenkova E.P., Bokov D.O., Bessonov V.V., Samylina I.A., Kakhramanova S.D., ChevidaeV V.V., Sokhin D.M., Balobanova N.P., Evgrafov A.A., Krasnyuk I.I.(junior), Kudashkina N.V., Galiakhmetova E.K., Marakhova A.I., Moiseev D.V*

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[Photodynamic Therapy as Adjunctive Treatment of Chronic Periodontitis: A Systematic Review](#)

 *Oktawati S, Rukmana A, Patimah, Wahab RF, Syafar IF, Wahab W.*

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[Prevalence of virulence factors genes of Escherichia coli isolated from pregnant and non-pregnant women with urinary tract infection in Diyala Iraq](#)

 *Saba J. Jawad AL Zubaidi*

SRP. 2020; 11(6): 1420 - 1427

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Review Article

[Successful Treatment of Alopecia Totalis with Topical Calcipotriol: Serial Case Report and Review of the Literature](#)

👤 *Evi Mustikawati Arifin, Farida Tabri, Khaeruddin Djawad, Siswanto Wahab, Suswardana, Harun Achmad, Huldani, Bambang Surif, Muh. Husni Cangara, Agussalim Bukhari, Burhanuddin Bahar, Firdaus Hamid, Muh. Nasrum Massi.*

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[Human Leukocyte Antigen \(HLA-G\) Expression and Soluble HLA-G Levels in Women with Breast Cancer from Basrah Province in Iraq](#)

👤 *Hadeel Saleem Touma, Wafaa Sadoon Shani, Talaat Sadoon Shani*

SRP. 2020; 11(6): 871 - 877

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[Biosecurity Application of Small Scale Chicken Abattoir in Sidoarjo, East Java, Indonesia](#)

👤 *Faisal Idea, Muhammad Thohawi Elziyad Purnama.*

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[Assessment of the Health Condition of Nursing](#)

👤 *Dinara I. Kupensheyeva, Dinara A. Ospanova.*

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[A Systematic Review of Oral Myofunctional Therapy, Methods and Development of Class II Skeletal Malocclusion Treatment in Children](#)

👤 *Harun Achmad, Nurul Mutmainnah, Yunita Feby Ramadhany.*

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[Gold Nanoparticle: Synthesis, Functionalization, Enhancement, Drug Delivery and Therapy: A Review](#)

👤 *Ihsan A. Mohammed, Fatima J. Al-Gawhar*

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[A Review of Stunting Growth in Children: Relationship to the Incidence of Dental Caries and its Handling in Children](#)

👤 *Harun Achmad, Sri Ramadany, Fajriani, Bayu Indra Sukmana, Nydia Hanan, Edina Hartami, Huldani, Nurul Mutmainnah, Yunita Feby Ramadhany, Monica Imanuelly Pagala*

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[Nanocomposite Assisted Green Synthesis of Polyvinylpyrrolidone-Silver Nanocomposite Using Pandanus atrocarpus Extract for Antiurolithiatic Activity](#)

👤 *Abdullah Hasan Jabbar, Hayder Shkhair Obayes AL-Janabi, Maytham Qabel Hamzah, Salim Oudah Mezan, Alaa Nahad Tumah, Amira Saryati Binti Ameruddin, Mohd Arif Agam*

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[The Influence of Employer Reputation and Professional Recognition on Student Interest Become Public Accountant](#)

👤 *Meiryani, Dinda Ainy Bening, Dezie Leonarda Warganegara, Setya Ambar Pertiwi.*

SRP. 2020; 11(6): 236 - 243

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.37

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[Role of Endovascular Trans catheter Selective Arterial Embolization In Management of Acute Gastrointestinal Bleeding](#)

👤 *Mohamed A.Abdelrasoul, M.Sc. Mohamed AlGariieb, MD* Amr Mahmoud, MD and Haytham M.Nasser, MD.*

SRP. 2020; 11(6): 1443 - 1451

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.206

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[A Systematic Review of Oral Myofunctional Therapy for Future Treatment in Pediatric Obstructive Sleep Apnea \(OSA\)](#)

👤 *Harun Achmad, Huldani, Nur Hildah Inayah, YunitaFeby Ramadhany.*

SRP. 2020; 11(6): 522 - 528

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.80

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[Hypolipidemic and Antioxidant Effects of FenugreekNigella Sativa Combination on DiabeticPatients in Iraq](#)

👤 *Falah Hassan Shari, Hanan H. Ramadhan, Rasha N. Mohammed, Dawood CH. Al-Bahadily*

SRP. 2020; 11(6): 911 - 915

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[Analysis of Miscarriage Occurrence per Population Group](#)

👤 *Vartanyan Elen Arayevna, Gridnev Oleg Vladimirovich, Belostotsky Andrey Victorovich, Pesennikova Elena Vasiliievna, Kuchits Ekaterina Olegovna.*

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[A Systematic Review of Gene Therapy as Treatment of Oral Squamous Cell Carcinoma](#)

👤 *Harun Achmad, Fajriani, Yayah Inayah, Marhamah F. Singgih, Syakriani Syahrir, Hendrastuti Handayani, Sherly Horax, Sri Ramadhany, Yunita Feby Ramadhany.*

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[Determination of Nitrite in Meat by Azo Dye Formation](#)

👤 *Tamathir Abbas Hamoudi, Aveen Faidhalla Jalal, Nabil Adel Fakhre.*

SRP. 2020; 11(6): 535 - 542

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.82

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[The Mediating Impact of High Level of Innovation among the Knowledge and Training of the Employees in SMEs of Thailand](#)

👤 *Wannaporn Buddhapoompitaka, Wuttipong Krobbuabanb, Narumol Limlahapunc, Kanyamon Kanchanathaveekuld.*

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[Predictor Factors of Phlebitis Incidence for Children in Hospital Private in Sidoarjo, Indonesia](#)

👤 *Abdul Aziz Alimul Hidayat, Sukadiono, Endry Wijayanti*

SRP. 2020; 11(6): 249 - 253

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.39

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[Identification of Sexual Behavior in Community at Risk of Oral Human Papillomavirus Infection](#)

👤 *Aisyah Rachmadani Putri Gofur, Taufan Bramantoro, Retno Palupi.*

SRP. 2020; 11(6): 543 - 549

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.83

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[Virulence Factors of *Klebsiella pneumoniae* Isolates from Iraqi Patients](#)

👤 *Saade Abdalkareem Jasim, Sumaya Ayad Abdulrazzaq, Sarah ibrahim hashoosh, Raed Obaid Saleh*

SRP. 2020; 11(6): 916 - 921

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[Allogeneous Freeze-Dried Platelet-Rich Plasma Promotes Peripheral Myelin Repair in Chronic Constriction Nerve Injury](#)

👤 *Saka Winias, Desiana Radithia, Adiantuti Endah Parmadiati, Bagus Soebadi, Diah Savitri Ernawati, Priyo Hadi, Rina Soesilowati.*

SRP. 2020; 11(6): 254 - 258

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.40

Review Article

[The Influence of Synchronous Acceptance of Scientific and Governmental Innovation, Investment in High Scientific Information and R&D Reserve on Production-Oriented Innovation Presentation in SMEs of Thailand](#)

👤 *Narumol Limlahapuna, Jaruaipornpat Leesomsirib, Kanyamon Kanchanathaveekul*

SRP. 2020; 11(6): 1463 - 1474

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.208

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[NSAIDs pattern of use in Nasiriya City-South of Iraq](#)

👤 *Layth Jabbar, Afrah Thiab, Faez Khalaf, Alaa Kadhem.*

SRP. 2020; 11(6): 259 - 261

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.41

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[Purification by Ketoconazole Adsorption from Sewage](#)

👤 *Raikhan Beisenova, Symbat Tulegenova, Rumiya Tazitdinova, Olga Kovalenko, Gulzhazira Turlybekova.*

SRP. 2020; 11(6): 550 - 554

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[A Review: A Novel of Efforts to Enhance Liposome Stability as Drug Delivery Approach](#)

👤 *Iyan Sopyan, Insan Sunan K, Dolih Gozali.*

SRP. 2020; 11(6): 555 - 562

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[The Influence of Advance Unit Centralization, Advance Unit Formalization, and Ecological Competitiveness on the Exploitative Innovation in the Manufacturing in Thailand](#)

👤 *Kanyamon Kanchanathaveekula, Jaruaipornpat Leesomsirib, Boonthong Uahiranyanon, Wannaporn Buddhapoompitakd.*

SRP. 2020; 11(6): 1475 - 1486

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.209

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[Spectrophotometric Determination of Mesalazine via Oxidative Coupling Reaction](#)

👤 *Ahlam Ahmed Shehab, Dawood Habboo Muhammed*

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[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.130

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Ali Najeh Al-Awwady, Ali Nima Hasan, Wisal Abdul-Mahdi Kadhim

SRP. 2020; 11(6): 1487 - 1491

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.210

Review Article[A Comparative, Randomized, Double-Blinded, and Vehicle-Controlled Study for the Reduction in Facial Pigmentation after Treatment with both Tranexamic Acid and Tranexamic Acid Ethyl Ester](#)

Alaa A. Ali, Zaid Mahdi Jaber Al-Obaidi, Ayad M.R. Rauf, Hasanain Shakir Mahmood.

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[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.86

Review Article[Monitoring and evaluation of Lean implementation in pediatric pharmacy: A study of mother and child hospital in Jakarta](#)

Acim Heri Iswanto

SRP. 2020; 11(6): 939 - 945

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.132

Review Article[A Rehabilitation Program Using Some Rehabilitative Exercises and Thermal Equipment to Treat a Torn Ligament in the Shoulder Joint in Athletes](#)

Wissam Shallal Mohammed, Riad Hassan Saleh, Nagham Salman Kareem

SRP. 2020; 11(6): 1492 - 1499

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.211

Review Article[Comparative Characteristics of Treatment Methods in Dogs Isosporosis and Giardiasis](#)

Svetlana Shemyakova, Sergey Shabunin, Sergey Engashev, Veronika Lykhina, Yury Vatnikov, Evgeny Kulikov, Anna Orlova, Alfia Ibragimova, Tatiana Lobaeva, Alexander Strizhakov, Valentina Semenova, Marina Bolshakova.

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[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.87

Case Report[Regulatory and Legal Regulation of Assistance and Social Aspects of Medical Maintenance of Patients with Inborn Errors of Immunity: Case Study](#)

E.V. Zaitseva, A.V. Nechkin

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[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.14

Review Article[Antihyperglycemic and Antihyperlipidemic Effects of Methanolic Seeds Extract of Pandanus odoratissimus in Alloxan-Induced Diabetic Rats](#)

 Sri Endarti Rahayu

SRP. 2020; 11(6): 946 - 953

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.133

Review Article

[The Role of Women in Mitigation of Forest and Land Fires based on Local Wisdom](#)


 Evi Feronika Elbaar, Mayang Meilantina

SRP. 2020; 11(6): 930 - 938

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.131

Review Article

[Association of Th-Tc protein CD28+ and Periodontal Inflammation among Indonesian Women with SLE Disease](#)

 Nanda Rachmad Putra Gofur, Kusworini Handono, Nurdiana, Handono Kalim, Cesarius Singgih Wahono, Sri Poeranto, Wisnu Barlianto.

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[Determinants of Profitability: Evidence of the Pharmaceutical Industry in Indonesia](#)

 Endri Endri, Lisdawati, Desi Susanti, Luqman Hakim, Sugianto Sugianto.

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[Risk of Malnutrition during Hospital Admission: A Comparison of Two Nutritional Screening Tools in the Vietnamese Context](#)

 Son Van Nguyen, Huong Thi Lan Nguyen, Ngoc Huy Nguyen, Hanh Duc Nguyen, Hung Trong Nguyen.

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[The In Vitro Inhibitory Effects of Red Pomegranate \(*Punica granatum* Linn\) Extract on *Fusobacterium Nucleatum*'s and *Porphyromonas Gingivalis*'s Growth](#)

 Sri Hernawati, Pratiwi Soesilawati

SRP. 2020; 11(6): 954 - 959

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[Pathogenesis, diagnosis and treatment of GERD patients with asthma as extra esophageal manifestations](#)

 Afrita Amalia Laitupa, Iswan Abbas Nusi.

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[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.141

Review Article[Original and Innovative Advances in the Synthetic Schemes of Coumarin-Based Derivatives: A Review](#)

Yasser Fakri Mustafa, Moath Kahtan Bashir, Mahmood Khudhayer Oglah.

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Review Article[Factors that Predict Hospital Pharmacy Practice in Vietnam](#)

Bay Van Vo, Montaya Sunantiwat, Somying Pumtong, Trung Quang Vo, Luerat Anuratpanich.

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Review Article[Medication therapy management application and pharmacist readability to provide the service in Saudi Arabia](#)

Badriyah Shadid Alotaibi, Nasser Hadal Alotaibi, Abdulaziz Alodhayani, Rneem Alsalamah, Amirah Alothman, Amani Almotairi, Khaled Nijr Alotaibi, Khlood Aldossary, Salem ALSuwaidan.

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[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.85

Review Article[IN VITRO ADDITION OF BENZYLADENINE \(BA\) AND THIAMINE ON GROWTH OF ABACA BANANA SHOOTS](#)

Ari Wijayani

SRP. 2020; 11(6): 960 - 962

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.135

Review Article[The Moderating Effect of Leadership on the Relationship of Employee Satisfaction, Customer Orientation, and Organization Performance](#)

Kovit Wongsurawat, Kittisak Jermsittiparsert

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Susan Zwyea, Rafid A Abdulkareem.

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[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.91

Review Article[FACTORS AFFECTING FARMER'S DECISION TO CONVERT PEPPER GARDEN INTO COAL MINING AREA](#)

Achmad Zaini, Mariyah, Andi Siddik, Rusdiansyah SRP

SRP. 2020; 11(6): 963 - 971

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.136

Review Article

[Determination of the Ciprofloxacin Hydrochloride Drug in Some Pharmaceuticals using Manufactured Membrane Selective Electrodes](#)

 *Abdul Majeed K. Ahmed, Imad Tarek Hanoon, Seemaa Hameed Ahmed.*

SRP. 2020; 11(6): 622 - 626

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.92

Review Article

[Effect of Oral Estradiol Valerate versus Vaginal Sildenafil on Endometrial Receptivity Evaluated by Ultrasound and Pregnancy Rate in Iraqi Infertile Females](#)

 *Sundus Ali Dawood, Huda Ali Hussaini, Mufeda Ali.*

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[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.93

Review Article

[Inhibition of Type I Collagen Expression in Fibrosis Prevention after Trabeculectomy: *Oryctolagus cuniculus*](#)

 *Nurwasis*

SRP. 2020; 11(6): 972 - 978

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.137

Review Article

[Antimicrobial Evaluation for Novel Solution of Iron Oxide Nanoparticles Functionalized with Glycine and Coated by Chitosan as Root Canal Final Irrigation](#)

 *Rafid J. Al-Badr, Hussain F. Al-Huwaizi.*

SRP. 2020; 11(6): 633 - 642

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.94

Review Article

[Effect of Short Period Simultaneous Stimulation of Transcranial Direct Current Stimulation on Occupational Therapy to Brain-Derived Neurotrophic Factor Serum in Stroke Patients](#)

 *Adrian Utomo, Sri Mardjati Mei Wulan, Lukitra Wardhani*

SRP. 2020; 11(6): 979 - 982

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.138

Review Article

[Biological Activity of Active Compounds Extracts Tannins, Alkaloids, Glycosides and Saponins from *Cuscuta lehmanniana*](#)

 *Mostafa .Qahtan Al-Smail, Firas Adnan Hussein, Omar Tariq Al-Azawi, Jasim Khudir Ali Abed.*

SRP. 2020; 11(6): 643 - 649

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.95

Review Article

[PURSE LIQUID SUGAR WITH IODINE FORTIFICATION](#)


 *Fungki Sri Rejeki, Diana Puspitasari, Endang Retno Wedowati*

SRP. 2020; 11(6): 1075 - 1081

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.153

Review Article

[The Natural Antioxidant Activity of Black Mulberry and its Others Function](#)

 *Insan Sunan Kurniawansyah, Iyan Sopyan, Andriati Khoerunnisa*

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[The Relationship of Vitamin D Serum Levels with The Lowering of The Left Ventricular Systolic Function in Women with Locally Advanced Breast Cancer Undergoing Doxorubicin Chemotherapy](#)


 *Rheno Arditya, Hantoro Ishardyanto, Achmad Lefi, Edwin Danardono4*

SRP. 2020; 11(6): 983 - 986

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Review Article

[Assessing the Fat Mass and Obesity Associated Gene Polymorphisms \(rs17817449 and rs1588413\) in Obesity and Type 2 Diabetes Mellitus](#)

 *Abdulhussein A. Algenabi, Majid K. Hussein, Najah R. Hadi, Fadhil A. Nasser, Ghizal Fatima, Hayder A. Al-Aubaidy.*

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[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.97

Review Article

[Mobile Application Development Process for Diabetes Patients in Primary Care Unit, Bangkok, Thailand: A Case Study of EASYDM Mobile Application](#)

 *Nusaree Sripath, Nutta Taneepanichskul, Surasak Taneepanichskul*

SRP. 2020; 11(6): 1100 - 1107

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.157

Review Article

[Determination of Capsaicin Levels in Capsicum annum Linn Ethanolic Extract using Thin Layer Chromatography Analysis](#)

 *Mohammad Sukma Nadi, Faisal Fikri, Muhammad Thohawi Elziyad Purnama.*

SRP. 2020; 11(6): 661 - 664

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.98

Review Article

[Combined Assessments of Multi-panel Biomarkers for Diagnostic Performance in Coronary Artery Disease: Case-Control Analysis](#)

 *Amir Al-Mumin, Hayder Abdul-Amir Makki Al-Hindy, Mazin Jaafar Mousa*

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[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.99

Review Article[Effects of Dried Bovine Amniotic Membrane as Prosthetics of Abdominal Fascial Defect Closure Observed by the Expression of Platelet-Derived Growth Factor in Rattus norvegicus Wistar Strain](#)

👤 Nurul Huda Didiek Putra, Fendy Matulatan, Maryono Dwi Wibowo, Edwin Danardono

SRP. 2020; 11(6): 987 - 991

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Case Report[The Relationship of Family Support and Patients' Knowledge with The Treatment Adherence of Hypertension Patients](#)

👤 Tintin Sukartini, Putri Mulyasari, Erna Dwi Wahyuni.

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Review Article[Detection of Haemophilus influenzae Type b in Pneumonic Adult Patients in Iraq Represents a Demographic Change in Bacterial Pathogenicity](#)

👤 Ghassaq T. Alubaidi, Sattar Gaber Ajeel, Dalyia A. Hamoodi, Ilham Ahmed, Israa Wajeh, Enas Saad.

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Review Article[The Relationship of Religiosity with Resilience of Adult-Assisted Residents in Community Institutions](#)

👤 Hanik Endang Nihayati, Rifky Fauzi Maulida, Erna Dwi Wahyuni.

SRP. 2020; 11(6): 1111 - 1115

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Review Article[Synthesis and Antibacterial Evaluation of Some Azo-Schiff Base Ligands and Estimation the Cadmium Metal by Complexation](#)

👤 Ekhlash Q. Jasim, Erfan A. Alasadi, Rajaa H. Fayadh, Munther A. Muhamman-Ali.

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Review Article[Transient Receptor Potential Cation Channel Subfamily V Member-1 and Matrix Metalloproteinase-8 Expression of Capsaicin Administration in Periodontitis](#)

👤 Jenny Sunariani*, Titien Suhartini, Latief Mooduto, Gadis Meinari Sari, Ari Triwandini, Yuliati Yuliati

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Review Article[Public Health welfare in Digital-based Resources Transformation from Social Capital and Information Sharing: Creative Industries from Village](#)

 I Ketut Setia Sapta, Nengah Landra, I Wayan Gede Supartha, Daru Asih, Made Setini.

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[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.102

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[The correlation between Caregiving Burden and Family Interaction Pattern of Patient with Mental Disorders at Home](#)

 Ah. Yusuf, Yosevin Karunia Nababan, Lailatun Ni mah.

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[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.160

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[Watermelon, Kalium, and Kidney Health: A Review Literature](#)

 I Wayan Artana

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[Solid Lipid Nanoparticles Delivery Systems for Colon Cancer Chemotherapy: A Critical Review](#)

 Basma Y. Al-Najjar, Saad A. Hussain.

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[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.168

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[The Effect of Single Type Black Garlic \(*Allium Sativum* L.\) Extract on the Cell of Langerhans Islets and the Kidney Tubular Microscopy in Male Wistar Rats \(*Rattus Norvegicus*\) Models of Diabetes Mellitus](#)

 Gita Sekar Prihanti, Alifa Faradilla, Masita Rahman.

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[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.46

Case Report

[The Correlation Between Dietary Patterns with Nutritional Status on 10-12 Years Old Student](#)

 Eka Mishbahatul M.Has, Titis Wahyu Ningtias, Setho Hadisuyatmana

SRP. 2020; 11(6): 2111 - 2114

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.161

Review Article

[Learning from COVID-19, Will this Pandemic Reappear: A Reflection for Indonesian Children Future](#)

 Eka Airlangga, A. Akrim

SRP. 2020; 11(6): 1008 - 1015

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.144

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[Protection Effect of Gray Mangrove Extract to Oxidative Stress after Mixed Periodontopathogen Bacteria Infection-Animal Models](#)

 Dian Mulawarmanti, Syamsulina Revianti.

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[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.47

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[The Implementation of Theory of Planned Behaviour in Identifying First Aid Behaviour in Accidents](#)

 Erna Dwi Wahyuni, Lailatun Ni'mah, Zaenab Zaenab.

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[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.162

Review Article

[Effect of Gum Arabic Administration on Some Physiological and Biochemical Parameters in Chronic Renal Failure Patients](#)


 Meena S.Farman, Maryam I.Salman, Hajir SH. Hamad

SRP. 2020; 11(6): 697 - 701

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.103

Review Article

[PSYCHOLOGICAL PREPARATION MODEL USING HYPNOSIS APPROACH FOR PATIENTS BEFORE GASTROINTESTINAL ENDOSCOPY](#)

 Tintin Sukartini, Nursalam Nursalam, Erna Dwi Wahyuni, Ratri Ismiwiranti

SRP. 2020; 11(6): 1016 - 1021

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[The Effects of Lecture, Brainstorming, Demonstration \(CBD\) to Mother's Knowledge, Attitude, and Behavior About Stunting Prevention on Toddler](#)

 Esti Yunitasari, Meyta Rahayu, Iqlima Dwi Kurnia

SRP. 2020; 11(6): 1131 - 1136

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.163

Review Article

[Sargassum duplicatum Extract Reduced Arthritis Severity Score and Periarticular Tissue Matrix Metalloproteinase-1 \(Mmp-1\) Expression in Ajuvan Arthritis Exposed to Cold Stressor](#)

 Fitri Handajani, Sulistiana Prabowo

SRP. 2020; 11(6): 302 - 307

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.48

Review Article

[Isolation and Diagnosis of the Fatty Acids from Curcuma longa and the Seeds of Prunus avium L \(Cherry Plants\) and Studying their Effect on the Growth of Leishmania tropica Promastigotes in In Vitro](#)

 Maksood Adil Mahmoud Al Doori

SRP. 2020; 11(6): 702 - 709

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.104

Review Article

[The Relationship of Peer Group and Perception with the Intention of Smoking in Young Men](#)

👤 *Fifa Nasrul Ummah, Yuni Sufyanti Arief, Iqlima Dwi Kurnia.*

SRP. 2020; 11(6): 1137 - 1141

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.164

Review Article

[RISK FACTORS FOR PSYCHOLOGICAL IMPACT AND SOCIAL STIGMA AMONG PEOPLE FACING COVID-19: A SYSTEMATIC REVIEW](#)

👤 *Nursalam Nursalam, Tintin Sukartini, Diah Priyantini, Dluha Mafula, Ferry Efendi*

SRP. 2020; 11(6): 1022 - 1028

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.146

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[The Effect of Cobalt \(II\) Chloride in the Viability Percentage and the Induced Hypoxia Inducible Factor -1 \$\alpha\$ of Human Adipose Mesenchymal Stem Cells \(HAMSCs\): An In Vitro Study](#)

👤 *Alexander Patera Nugraha, Eric Priyo Prasetyo, Mefina Kuntjoro, Igo Syaiful Ihsan, Aristika Dinaryanti, Helen Susilowati, Eryk Hendrianto, Ida Bagus Narmada, Diah Savitri Ernawati, Andreas Pratama Nugraha, Fedik Abdul Rantam.*

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Review Article

[Synthesis Liquid Membrane Electrodes of Cephalexin Hydrochloride](#)

👤 *Huda Ghalib Salman, Dalia M. Jamil, Amina M. Abass, Ahmed Ahmed*

SRP. 2020; 11(6): 710 - 716

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.105

Review Article

[Synthesis and Properties of Soluble Aromatic PolyetheretherKetones](#)

👤 *high-temperature polycondensation, oligo ketone, acceptor-catalytic polycondensation, polyaryletheretherketone, heat resistance, tensile strength, fire resistance.*

SRP. 2020; 11(6): 315 - 321

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.50

Review Article

[Simple chemical synthesis of zinc oxide and copper oxide nanoparticles for biological protection](#)

👤 *Nibras Abdul-Ameer Aboud, Wafaa M.S Alkayat, Dhia H Hussain.*

SRP. 2020; 11(6): 1189 - 1195

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.173

Review Article

[DEVELOPMENT OF PERIOPERATIVE CARE INSTRUMENTS BASED ON SDKI SLKI SIKI IN OPERATING ROOM](#)


 Nursalam Nursalam , Haris widodo, Erna Dwi wahyuni, Ferry Efendi

SRP. 2020; 11(6): 1029 - 1035

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.147

Review Article

[THE DEVELOPMENT OF SELF-REGULATION MODELS BASED ON BELIEF IN PATIENTS WITH HYPERTENSION](#)

 Nursalam Nursalam, Riza Fikriana, Shrimarti Rukmini Devy, Ahsan Ahsan

SRP. 2020; 11(6): 1036 - 1041

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.148

Review Article

[Socially Responsible HRM and Pharmaceutical Employees' Work-Life Balance: Can Positive Affect and Perceived Morality Significantly Mediate in the Indonesian Context?](#)

 Yusro Hakimaha, Sutardib, Djatmiko Noviantoroa, Yasmina Martinia, Hasyunaha

SRP. 2020; 11(6): 1196 - 1204

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.174

Review Article

[Antibacterial Activity Tests of Staphylococcus aureus and Phytochemical Screening in Family Asteraceae, Clusiaceae, Phyllanthaceae](#)


 Prasetyorini Djarot, Novi Fajar Utami, Noerma Veonicha, Anggita Rahmadini, Afrizal Nur Iman.

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[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.51

Review Article

[Synthesis and Biological Activities of 3,5-Disubstituted-4-Hydroxycinnamic Acids Linked to a Functionalized Coumarin](#)

 Mahmood Khudhayer Oglah, Moath Kahtan Bashir, Yasser Fakri Mustafa, Eman Tareq Mohammed, Raghad Riyadh Khalil

SRP. 2020; 11(6): 717 - 725

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.106

Review Article

[DEVELOPMENT FAMILY CAREGIVER EMPOWERMENT MODEL \(FCEM\) TO IMPROVE FAMILY CAREGIVER CAPABILITY ON TYPE 2 DIABETES SELF-MANAGEMENT](#)

 Rondhianto Rondhianto, Nursalam Nursalam, Kusnanto Kusnanto, Soenarnatalina Melaniani

SRP. 2020; 11(6): 1042 - 1051

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.149

Review Article

[A Monoterpenoid Isolated from Citrus Aurantifolia Peel and Its Potential as An Antibacterial for The Inhibition and Eradication of Streptococcus Mutans Biofilm](#)

 Jeffrey Jeffrey, Sunarjati Sudigdoadi, Dikdik Kurnia, Mieke Hemiawati Satari.

SRP. 2020; 11(6): 1205 - 1210

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.175

Review Article

[Evaluating Customer Satisfaction with Pharmaceutical Counseling Services using the Kano-Model Approach](#)

 *Liudmila A. Lobuteva, Alina D. Yermolaeva, Alisa V. Lobuteva, Oksana V. Zakharova, Oxana V. Kartashova*

SRP. 2020; 11(6): 1 - 6

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.01

Review Article

[Insilico Test of Functional Role of rs8068318 Polymorphism of Arterial Hypertension-Associated TBX2 Candidate Gene](#)


 *Maria Yu. Abramova, Tatyana A. Usacheva, Inna N. Sorokina, Irina N. Verzilina, Irina S. Polyakova, Vladimir F. Kulikovsky*

SRP. 2020; 11(6): 7 - 10

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.02

Review Article

[The Role of Polymorphism of Hereditary Thrombophilia Candidate Genes in the Development of Arterial Hypertension in Women with Preeclampsia.](#)


 *Oleg V. Golovchenko, Maria Yu. Abramova, Oksana B. Altukhova, Irina N. Verzilina, Natalya A. Rudyh, Vladimir F. Kulikovsky*

SRP. 2020; 11(6): 11 - 15

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.03

Review Article

[Polymorphism of CYP2C9 Gene in Patients with Stable Angina Pectoris and its Significance in Pathogenesis of the Disease](#)

 *Olesya V. Romaschenko, Eduard A. Snegin, Nina I. Zhernakova, Petr K. Alferov, Lyudmila R. Zakirova, Vadim V. Rumbesht, Natalia D. Grischenko, Olga A. Osipova*

SRP. 2020; 11(6): 16 - 20

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.04

Review Article

[Potential Effect of Ammonium Chloride on the Optical Physical Properties of Polyvinyl Alcohol](#)

 *Aws Maseer Nejres, Hameed Khalid Ali, Safaa Polus Behnam, Yasser Fakri Mustafa*

SRP. 2020; 11(6): 726 - 732

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.107

Review Article


[DETERMINANTS PSYCHOLOGICAL DISTRESS OF INDONESIAN HEALTH CARE PROVIDERS DURING COVID-19 PANDEMIC](#)

 *Sumarti Endah Purnamaningsih Maria Margaretha, Christantie Effendy, Hari Kusnanto, M. Hasinuddin*

SRP. 2020; 11(6): 1052 - 1060

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.150

Review Article[New Approaches in Assessing the Clinical and Patho-morphological Aspects of Obstetric Pathology in the Structure of the Mother-Placenta-Fetus using Atomic Force Research](#)

 Tatyana V. Pavlova, Vasiliy A. Petrukhin, Anton N. Kaplin, & 1045;lena S. Malyutina, Alina V. Selivanova, Lyudmila O. Zem-lianskaia

SRP. 2020; 11(6): 21 - 25

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.05


Review Article[Taxonomy of Impressions on Political Ecology Among Abrenian Youth: A Challenge to Academic Integrity and Future Voter Education Program](#)

 Lemyrose B. Balmaceda, Ed. D..

SRP. 2020; 11(6): 1211 - 1221

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.176

Review Article[Physicians? and Senior Medical Students? Knowledge of Drugs Contraindicated for Arterial Hypertension Treatment according to the Phystarh Study](#)

 Roman A. Bontsevich, Yana R. Vovk, Anna A. Gavrilova, Galina G. Prozorova, Galina A. Batisheva, Olga G. Kompaniets, Olena V. Myronenko

SRP. 2020; 11(6): 26 - 30

[» Abstract](#) [» PDF](#) DOI: 10.31838/srp.2020.6.06

Review Article[Morphofunctional Aspects of Bone Tissue at Osteoporosis](#)

 Vladimir F. Kulikovskiy, Tatyana V. Pavlova, Ilya P. Bashuk, Natalia B. Pilkevich, Lubov A. Pavlova

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PURSE LIQUID SUGAR WITH IODINE FORTIFICATION

Fungki Sri Rejeki¹, Diana Puspitasari², Endang Retno Wedowati³

^{1,2,3}Study Program of Agroindustrial Technology, University of Wijaya Kusuma Surabaya, Indonesia

ABSTRACT

Sugar is one of the basic needs of society, especially its role as a sweetener whose needs are increasing. Therefore, alternatives to other sweeteners are needed as sugar substitutes, such as by developing glucose syrup (liquid sugar) from starch. Kimpul (*Xanthosoma sagittifolium*) as one type of root crop has a great opportunity to be developed because it has high carbohydrate content (34,2g/100g). Application of the use of kimpul liquid sugar as a sweetener requires testing of nutritional and health aspects. Therefore, it is necessary to test the nutritional, caloric value and glycemic index of purse liquid sugar. With the research of the process of making purse liquid sugar with iodine fortification, the benefits of sugar can be more efficient and effective.

This study aims to: (1) determine the process engineering to increase iodine levels through a fortification process and (2) determine the nutritional value, caloric value, glycemic index value, and iodine content of purse liquid sugar.

This study used a single factor randomized block design that is the concentration of Iodine (KIO₃), with 4 levels, namely : K₁ : 30 ppm; K₂ : 40 ppm; K₃ : 50 ppm; and K₄ : 60 ppm and repeated three times. The parameters tested were organoleptic tests of taste, color, and aroma, °Briks, water content, ash content, reducing sugar content, caloric value, glycemic index (GI), and iodine content.

The results showed that (1) Iodine fortification did not significantly affect the organoleptic properties of taste, color, and aroma. (2) Iodine fortification significantly affect the parameter of reducing sugar content and iodine content of kimpul liquid sugar. (3) The iodine fortification did not decrease the value of the glycemic index of the kimpul liquid sugar product.

Keywords: Liquid sugar, purse, fortification, iodine

Correspondence:

Fungki Sri Rejeki¹

^{1,2,3}Study Program of Agroindustrial Technology, University of Wijaya Kusuma Surabaya, Indonesia

INTRODUCTION

Kimpul (*Xanthosoma sagittifolium*) as one type of the root crop has a great opportunity to be developed because it has various benefits and can be easily cultivated. Kimpul can be developed as a potential producer of non-rice carbohydrates. Kimpul tubers contain high carbohydrates, namely 34.2g / 100g, so that potential for further processing into kimpul starch and subsequently into other processed products. The research results of (Puspitasari, Rahayuningsih, & Rejeki, 2015) stated that kimpul flour has the following chemical composition : water content 12,35%, carbohydrate content 82,05%, protein content 2,71%, Ca content 0,23%, ash content 2,70%, fat content 0,22%, amylose content 22,03%, amylopectin content 34,27%, starch content 56,26%, crude fiber content 3,43%, gel strenght 0,23N, gelatinization temperature 90,67°C, and flour absorbability on water 7,95.

Iodine is a mineral material and including the essential nutritional elements although the amount is very little in the body. Iodine is needed in the synthesis of the thyroxine hormone secreted by the thyroid gland. Thyroxine hormone is very needed in the regulation of metabolism. Humans cannot make the iodine element in their body like they make protein or sugar. Humans obtain iodine from outside their bodies through the absorption of iodine contained in food and drinks consumed. Iodine is needed for the production of thyroid hormone which is important for brain growth and development (Zahrou et al., 2016) and (Pandav, Yadav, Srivastava, Pandav, & Karmarkar, 2013). Iodine deficiency is a result of iodine intake in food that is inadequate and as a consequence causes several side effects on growth and development especially at an early age (Tonacchera et al., 2013). Iodine deficiency (ID) in women of childbearing age is a concern for global public

health, because it will have an impact on fetal nerve development and cognitive function (Bouga, Lean, & Combet, 2018). On an international scale fortification of iodine supplements for risk groups and vulnerable groups are considered the most successful micronutrient interventions (Abeshu & Geleta, 2016). Reduction on the program of iodized salt addition on foods resulting in iodine deficiency disease reappears globally (Winger, König, House, & Technology, 2008) and (Dest, Kulkarni, Abraha, Worku, & Sahle, 2019). Iodine intake should not be excessive, because exposure to high concentrations of iodine is likely to cause iodine-induced immune phenomena (Vithanage et al., 2016).

Fortification is a safe and effective way to increase micronutrient intake and restore the amount lost during processing by providing essential nutrients in food (Nagar, Popli, Gupta, & Research, 2018). Food fortification provides opportunities to increase nutrient intake and has the potential to promote early age growth and development (Okeyo & Metabolism, 2018). Fortification in children's menus shows a significant effect on the increase in serum micronutrient concentrations (Das, Salam, Kumar, & Bhutta, 2013). Double fortification of salt with iodine and iron has good stability especially if stored in closed conditions (Helmyati, Narendra, Septi, Rochyana, & Endri, 2014). Salt and flour fortification (as well as several other foods) with iodine and iron are priorities for improving health in developing countries (Horton, Mannar, & Wesley, 2008). National iodine fortification policy in India can improve basic numeracy and literacy skills by 2,67 - 5,83% (Tafesse, 2018). Iodine fortification needs to be developed in materials other than salt so that humans do not consume too much salt which will adversely affect blood vessels. (Mirmiran et al., 2013). Fortification of staple foods other than salt with iodine (or with other

vitamins and minerals) is related to population health. Careful processing, packaging, and storage of fortified salts remain stable for a period of six months sufficient for distribution and consumption (Diosady, Alberti, Ramcharan, Mannar, & Bulletin, 2002).

This study aims to (1) develop an iodine fortification model that has been implemented in salt, which will be developed in sugar, and (2) developing purse liquid sugar products/produk gula cair kimpul into iodized sugar so that it gives added value to the purse/kimpul commodity.

Research Methods

Research on purse liquid sugar with iodine fortification was carried out in the Agricultural Industrial Technology laboratory, Faculty of Engineering, University of Wijaya Kusuma Surabaya. Kimpul material is obtained from the agricultural market in Malang Regency which produces kimpul/purse, NaCO₃, α-amylase enzyme and glucosidase enzyme, NaOH 1%, and KIO₃.

The experimental process of processing the purse liquid sugar with iodine fortification with iodine concentration (KIO₃) treatment consisted of :J₀ : 0 ppm; J₁ : 30 ppm; J₂ : 40 ppm; J₃ : 50 ppm; and J₄ : 60 ppm. The treatment was repeated three times. The experimental unit is the process of making 1 liter of purse liquid sugar with iodine according to the treatment.

The making of kimpul/purse starch conducted with the stages (1) peeling the purse tuber, (2) washing and cutting the purse tuber, (3) Soak the purse pieces in 5% salt solution for 10 minutes, (4) wash clean then drained, (5) grind the purse/kimpul until smooth and extract in a ratio of 4: 1 (water: taro tubers) then squeezed using a filter cloth, (6) Add water to the taro dregs of purse in a ratio of 4: 1 (water: taro dregs) then extract again. (7) Precipitate starch milk for 8 hours, then dry the starch which formed at 60°C temperature for 6 hours, then grind and sift the starch with a 100 mesh sieve.

The making of purse liquid sugar with the addition of iodine conducted with the stages (1) weigh 300 g of purse starch, (2) Add distilled water/aquades to a volume of 1,000 ml, (3) starch suspension is heated at 95°C temperature until gelatinized, (4) conducted the Iodine solution addition according to the treatment namely for treatment J₀: not given, J₁: 0,03 cc KIO₃, J₂: 0,04 cc KIO₃, J₃: 0,05 cc KIO₃, J₄: 0,06 cc KIO₃, (5) α-amylase enzyme addition of 3 ml and hydrolyzed at 100°C temperature for 60 minutes, (6) The result of liquidation is then saccharified with the enzyme of amiloglucosidase and heated at 60°C temperature for 72 hours with stirring every 12 hours.

Research variables include °Briks, water content, ash content, reducing sugar content, iodine content and organoleptic test on taste, color and aroma/flavor. The selected process then will be calculated the calorie value and the Glycemic Index (GI)

Organoleptic test data processing which is ordinal data using the Friedman Test. While the chemical test data

processing is done by analysis of variance, if there are any differences conducted the Duncan test with a confidence level of 95%.

An alternative selection was made to determine the best treatment in the process of making the purse liquid sugar with enzymatic hydrolysis. The concept of the expected value decision is to choose a decision that has a maximum pay-off (profit or use) or a minimum cost (loss or sacrifice). For kimpul/purse liquid sugar products, quality parameters used for the selection of the best alternative processes are aroma/flavor, color, taste, reducing sugar, iodine, calories, and GI.

Research Result

1 Organoleptic Test

a. Taste

Based on the results of the Frequency Analysis, the percentage score acquisition for the taste parameters is shown in Figure 1. Friedman Test Results for score acquisition of the purse liquid sugar taste showed that there was no significant difference among treatments, with the $F_{\text{calculate}}$ amounted to 1,646. Panelist test results on taste showed that the differences in sweetness in the purse liquid sugar which produced due to iodine fortification treatment did not affect the panelists' preferences.

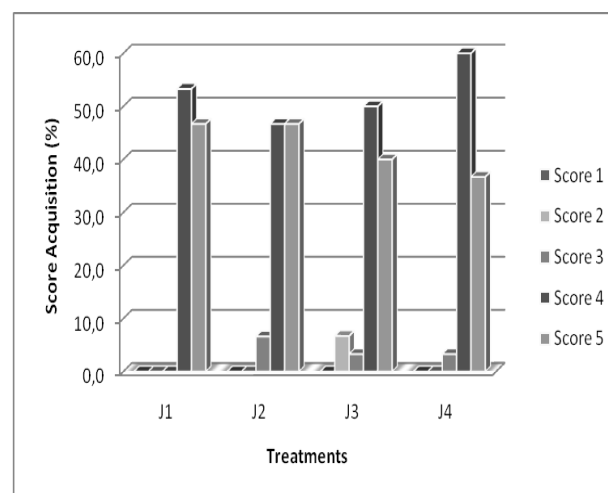


Figure 1. Diagram of the Percentage Data for the Acquisition of Purse Liquid Sugar Taste Parameters Score with Iodine Fortification

b. Aroma/Flavor

Based on the results of the Frequency Analysis, the percentage score acquisition for the flavor parameters is shown in Figure 2. Friedman Test Results for score acquisition of the purse liquid sugar flavor showed that there was no significant difference among treatments, with the $F_{\text{calculate}}$ amounted to 1,228.

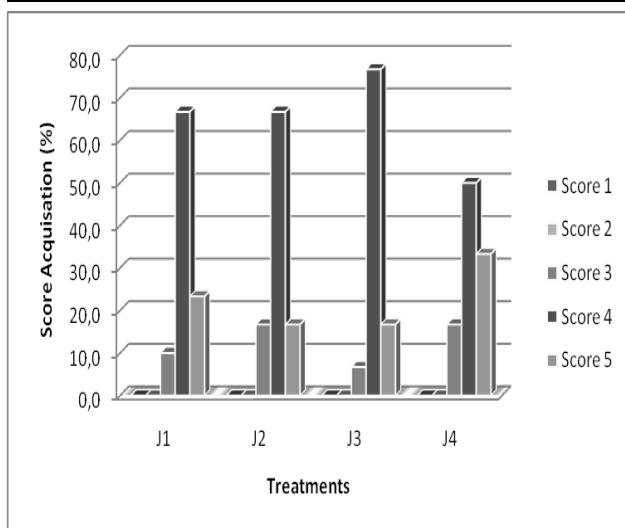


Figure 2. Diagram of the Percentage Data for the Acquisition of Purse Liquid Sugar Flavor Parameters Score with Iodine Fortification

c. Color

Based on the results of the Frequency Analysis, the percentage score acquisition for the color parameters is shown in Figure 3. Friedman Test Results for score acquisition of the purse liquid sugar color showed that there was no significant difference among treatments, with the $F_{\text{calculate}}$ amounted to 0,421.

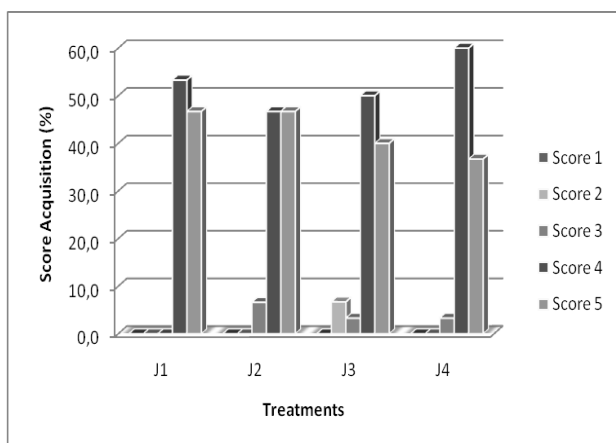


Figure 3. Diagram of the Percentage Data for the Acquisition of Purse Liquid Sugar Color Parameters Score with Iodine Fortification

2. Chemical Test

a. Briks Degrees

$^{\circ}$ Brix measurements were performed to determine the degree of sweetness of purse liquid sugar with iodine fortification at different concentrations. Data and graphs of $^{\circ}$ Brix of Purse Liquid Sugar with iodine fortification can be seen in Figure 4.

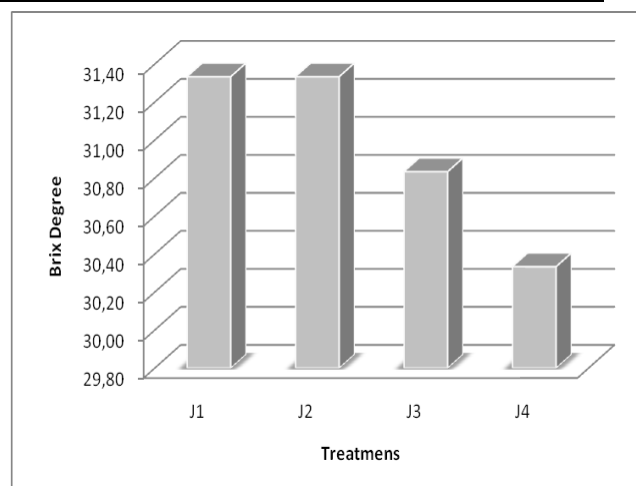


Figure 4. Data Diagram for Briks Degrees of Purse Liquid Sugar with Iodine Fortification

The results of the variance analysis showed that there was no significant difference in the treatment of iodine concentrations of $^{\circ}$ Briks of purse liquid sugar produced, although the higher levels of added iodine would tend to cause the lower $^{\circ}$ Briks produced. This is probably due to the addition of iodine will not cause a decrease in enzyme activity.

b. Ash Content

Measurement of ash content was carried out to determine the water content of purse liquid sugar with iodine fortification at different concentrations. The measurement results of the ash content of the purse liquid sugar can be seen in Figure 5. The results of statistical analysis show that there is no significant difference among the treatments. This is likely due to the addition of iodine added only to very small amounts, with a concentration range of 30 to 60 ppm, so it hasn't caused a significant increase in ash content.

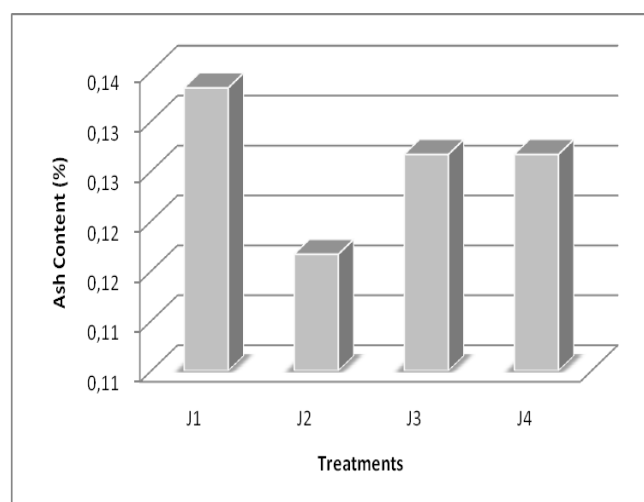


Figure 5. Diagram of Ash Content (%) of Kimpul/Purse Liquid Sugar with Iodine Fortification

c. The Reducing Sugar Content

The measurement of reducing sugar content is carried out to determine the reducing sugar content of purse

liquid sugar with iodine fortification at different concentrations. The measurement results of the reducing sugar content of purse liquid sugar can be seen in Figure 6. The results of the statistical analysis show that there is no significant difference in the reducing sugar content of purse liquid sugar.

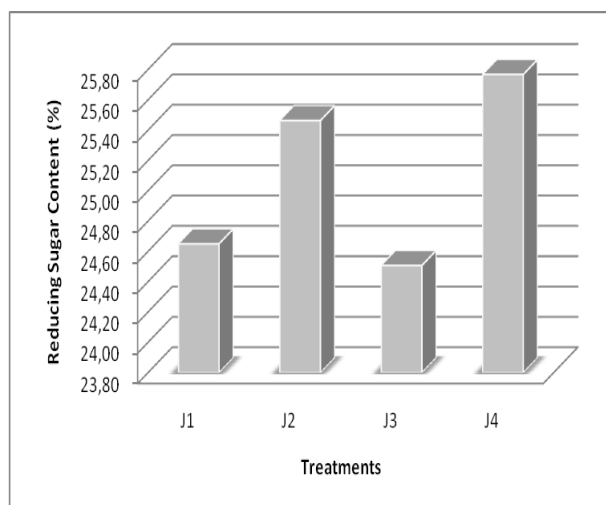


Figure 6. Diagram of the Reducing Sugar Content (%) of Purse Liquid Sugar with Iodine Fortification

d. **Calorie**

The results of statistical calculations show that there is no significant difference among the treatments on the calorie value of the purse liquid sugar produced. This is probably due to the addition of iodine at low concentrations does not cause changes in pH and because iodine is not included in the heavy metal group, then it does not inhibit the work of enzymes.

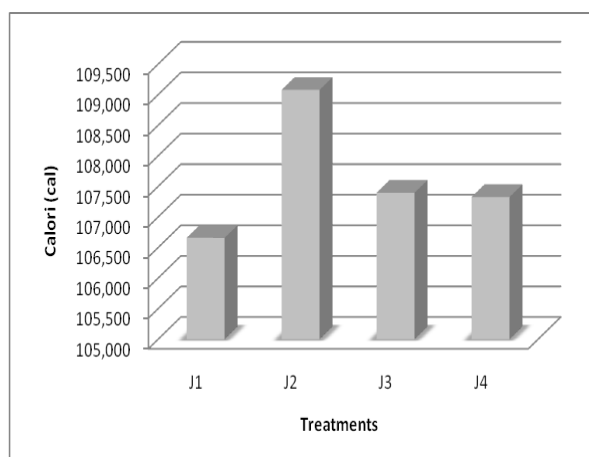


Figure 7. Diagram of the Amount of Purse Liquid Sugar Calories with Iodine Fortification

e. **Iodine Content**

The results of the statistical analysis showed that there were significant differences in the treatment of the iodine content of purse liquid sugar produced. The higher the concentration of iodine added, the higher the content of iodine in the purse liquid sugar produced. The iodine content found in the purse liquid sugar ranges from

10,0667 ppm to 17,667 ppm, which is still in the range allowed for food products.

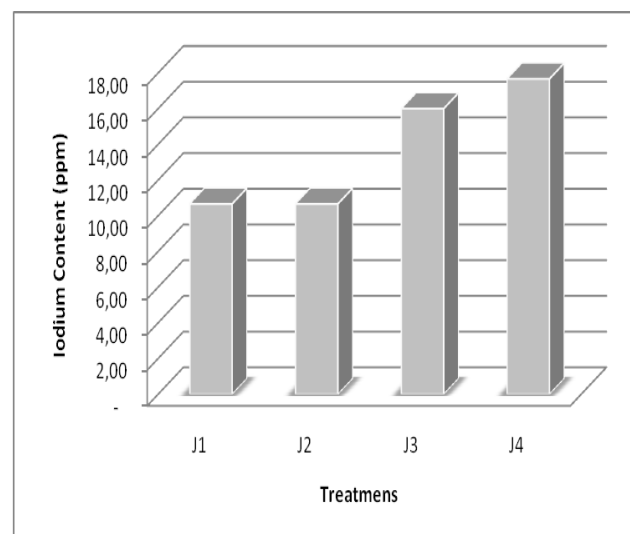


Figure 8. Diagram of Iodium Content (ppm) of Purse Liquid Sugar with Iodine Fortification.

Table 1. Average content of iodine in purse liquid sugar with the addition of iodine in the making process (ppm)

Treatment	Iodium Content
J0 = 0 ppm	0,0000 c
J1 = 30 ppm	10,0667 b
J2 = 40 ppm	10,0667 b
J3 = 50 ppm	16,0000 a
J4 = 60 ppm	17,6667 a

Information : the average value followed by the same letter is not significantly different based on the Duncan test of 5%

f. **Glycemic Index (GI)**

Calculation of the glycemic index (GI) value/score is based on the increase in blood sugar of experimental animals (mice) during observation. Observation of blood sugar content was carried out at 0, 15, 30, 60, and 90 minutes after giving samples of purse liquid sugar products to animals. The observation results of an increase in blood sugar content of mice for the test of purse liquid sugar with iodine fortification can be seen in Figure 9.

Table 2. An Increase in Blood Sugar Content of Mice after given the purse liquid sugar with iodine fortification

time (minutes after treatment)	Glucose	Control (0 ppm)	J1 (30 ppm)	J2 (40 ppm)	J3 (50 ppm)	J4 (60 ppm)
0	0	0	0	0	0	0
15	280	280	169	23	245	219
30	343	346	313	31	309	248
60	311	195	257	20	195	190
90	160	62	65	72	63	82

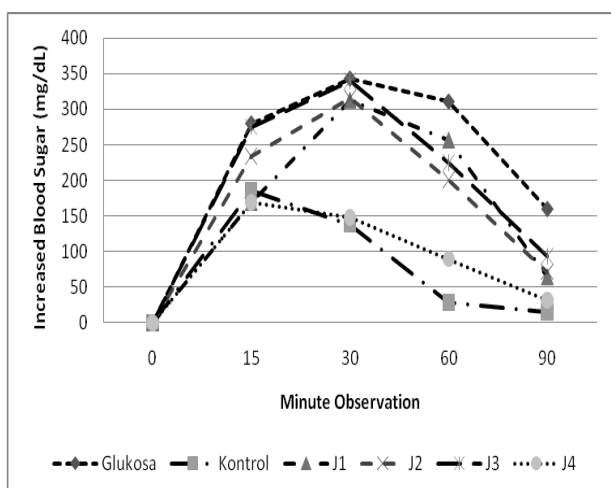


Figure 9. Graph of an Increase in Mice Blood Sugar Level/Content (Liquid Sugar with Iodine Fortification)

Based on observations of an increase in blood sugar levels at 0, 15, 30, 60, and 90 minutes then made a quadratic regression curve. The quadratic regression equation is then integrated into finding the area under the curve. To calculate the GI value, the area under the curve is compared to the area under the curve for glucose as standard. Glucose GI value is 100. From the calculation results obtained, that the glucose GI value is 100, the smallest IG value of J4 process is 67,81. Based on the calculation of the GI value, then the resulting purse liquid sugar is still included in the high GI group (GI > 55).

Table 3. GI (Glycemic Index) Value of Liquid Sugar with Iodine Fortification

Treatment	Area	GI Value
Glucose	25315,83	100,00

Control	20712,42	81,82
J1 = 30 ppm	19821,06	78,30
J2 = 40 ppm	19452,24	76,84
J3 = 50 ppm	19261,35	76,08
J4 = 60 ppm	17167,14	67,81

3. Alternative Selection

The alternative selection is done in order to choose the best alternative treatment. The selection criteria to be taken into consideration are the aroma/flavor, color, taste, reducing sugar, iodine, calories, and GI. Determination of the weight of the importance of each selection criteria is conducted by using the AHP (*Analytical Hierarchy Process*). Weight determination is done to determine the weight or size of the parameters in each selection criteria considered. Whereas the determination of the best alternative uses the Expectation Value method.

The alternative process chosen for processing of purse liquid sugar with iodine fortification is J4 treatment (addition of iodine with a concentration of 60 ppm) with a total expectation value of 5,26, and with the composition as presented in Table 4.

Table 4. Quality and Value of the Calorie of Selected Processed Liquid Sugar Products

No.	Parameter	J4
1.	Reducing sugar content (%)	25,770
2.	Water content (%)	73,060
3.	Ash content (%)	0,130
4.	Protein content (%)	0,012
5.	Fat content (%)	0,012
6.	Carbohydrate Content (%)	26,793
7.	Iodine Content (ppm)	17,670
8.	Calorie Value (kal)	107,327
9.	Glycemic Index Value	67,810

DISCUSSION

The treatment of KIO3 concentration did not cause differences in organoleptic variables which included the taste, aroma/flavor and color of purse liquid sugar. Research by (Kaushik & Arora, 2017) concluded that yogurt fortification showed no different sensory and physicochemical properties compared to unfortified yogurt (control). Development of low-fat buffalo milk products with 0.5% b-glucan fortification, causing more attractive colors (Bhaskar et al., 2017). Research by (Ghadge, Prasad, Kadam, & chemistry, 2008) showed that superior sensory quality yogurt was obtained by fortification of 10% apple pulp and 5 percent honey concentration. (Gaur, Waller, & Andrade, 2019) states that the addition of micronutrients to yogurt will not affect on the sensory format of consumption. Research by (Roncolini et al., 2019) concluded that fortification of bread protein with mealworm powder (MP) significantly affected the texture and level of consumer preferences related to bread appearance, and crust color. In line with the statement of (Clifton et al., 2013) that fortification of bread with iodized salt only affects on the iodine content,

does not affect on the appearance of bread. Various types of food used for fortification include cereals and cereal-based products, milk and milk products, tea, fats and oils, beverages and seasonings such as salt, sugar and soy sauce (Nagar *et al.*, 2018). Milk, iodine, cornmeal, and vegetable oil as an introduction to fortification in order to provide complementary foods for breast milk. Fortification has a significant impact on children's growth and cognitive abilities (Okeyo & Metabolism, 2018). Some micronutrient fortifications show insignificant effects on height and weight (Das *et al.*, 2013). Treatment of KIO₃ concentration did not cause differences in the chemical properties of purse liquid sugar, including Briks degrees, ash content, reducing sugars, and calorie value. In line with the research results of (Kaushik & Arora, 2017) which concluded that the fortification on yogurt does not affect on the physicochemical and texture properties. Research by (Ozturkoglu-Budak, Akal, & Yetisemiyen, 2016) concluded that fortified yogurt has higher protein and lower solid content. According to Gaur *et al.*, 2018 fortification has no effect on the physico-chemical properties of yogurt. According to the research by (Malahayati, Muhammad, Bakar, Karim, & Volume) Steamed rice noodles are recommended for fortification purposes because they produce better rice noodles in terms of chemical properties, quality of ripeness and texture and retention of vitamin A, folic acid and iron. The research by (Rebellato, Klein, Wagner, Pallone, & technology, 2018) concluded that the form of iron compounds used in fortification of flour affected on the quality and / or stability parameters of the samples studied.

The iodine content in the purse liquid sugar is significantly different among the treatments, the more KIO₃ given the higher the iodine content. In line with the statement by (Clifton *et al.*, 2013) that fortified bread with iodized salt increases iodine intake. (Charlton, Probst, & Kiene, 2016) stated that the results of the evaluation of the iodized salt fortification program in bread in Australia in 2009 showed an association between fortified bread intake and an adequacy of iodine intake.

CONCLUSION

The treatment of iodine concentration did not cause differences in organoleptic variables including taste, aroma/flavor and color. The iodine content in purse liquid sugar is significantly different among the treatments, the more KIO₃ given the higher the iodine content, and for variable of Briks degrees, ash content, reducing sugars, calorie values and iodine content did not differ.

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