

**Table S3:** Initial literature search from SCOPUS.

Title	Authors	DOI
Preconception carrier screening and prenatal diagnosis in thalassemia and hemoglobinopathies: challenges and future perspectives	Traeger-Synodinos J., Hartevelde C.L.	10.1080/14737159.2017.1285701
Low oxygen saturation and severe anemia in compound heterozygous Hb Louisville [ $\beta^{42}(\text{CD}1)\text{Phe}\rightarrow\text{Leu}$ ] and Hb La Desirade [ $\beta^{129}(\text{H}7)\text{Ala}\rightarrow\text{Val}$ ]	Kamseng P., Trakulsrichai S., Trachoo O., Yimniam W., Panthan B., Jittorntam P., Niparuck P., Sanguanwit P., Wananukul W., Jindadamrongwech S.	10.1080/10245332.2016.1231989
The epidemiologic transition of thalassemia and associated hemoglobinopathies in southern Taiwan	Wang H.-C., Hsieh L.-L., Liu Y.-C., Hsiao H.-H., Lin S.-K., Tsai W.-C., Liu T.-C.	10.1007/s00277-016-2868-7
Diagnosis of common hemoglobinopathies among South East Asian population using capillary isoelectric focusing system	Srivorakun H., Fucharoen G., Sanchaisuriya K., Fucharoen S.	10.1111/ijlh.12585
Detection of the common South-East Asian $\beta^0$ -thalassemia mutations in samples with borderline HbA2 levels	Rungsee P., Kongthai K., Pornprasert S.	10.1515/cclm-2016-0470
Practice of iron chelation therapy for transfusion-dependent thalassemia in Southeast Asia	Azman N.F., Abdullah W.-Z., Mohamad N., Bahar R., Johan M.F., Diana R., Sarifah B.H., Yusoff S., Nasir A., Othman A., Sukeri S., Ibrahim M.I., Hussein A., Hassan R., Yahya P., Hassan R., Zilfalil B.A.	10.5372/1905-7415.1006.524
Molecular Epidemiology of Hemoglobinopathies in Cambodia	Munkongdee T., Tanakulmas J., Butthep P., Winichagoon P., Main B., Yiannakis M., George J., Devenish R., Fucharoen S., Svasti S.	10.3109/03630269.2016.1158723
Progress Toward the Control and Management of the Thalassemias	Fucharoen S., Weatherall D.J.	10.1016/j.hoc.2015.12.001
Hematological Practice in Hong Kong and China	Kwong Y.-L., Ha S.-Y., Chan V.	10.1016/j.hoc.2015.11.010
$\beta^2$ -Thalassemia Haplotypes in Romania in the Context of Genetic Mixing in the Mediterranean Area	Cherry L., Calo C., Talmaci R., Perrin P., Gavrilă L.	10.3109/03630269.2015.1124113
Prevalence of $\beta^{\pm}$ -thalassaemia genotypes in pregnant women in northern Thailand	Pharephan S., Sirivatanapa P., Makonkawkeyoon S., Tuntiwechapikul W., Makonkawkeyoon L.	10.4103/0971-5916.182622
Molecular Heterogeneity of Thalassemia among Pregnant Laotian Women	Wongprachum K., Sanchaisuriya K., Dethvongphanh M., Norcharoen B., Htalongsengchan B., Vidamaly V., Sanchaisuriya P., Fucharoen S., Fucharoen G., Schelp F.P.	10.1159/000438739
When to consider transfusion therapy for patients with non-transfusion-dependent thalassaemia	Taher A.T., Radwan A., Viprakasit V.	10.1111/vox.12201
Development of hemoglobin typing control materials for laboratory investigation of thalassemia and hemoglobinopathies	Pornprasert S., Tookjai M., Punyamung M., Pongpunyayuen P., Jaiping K.	10.1515/cclm-2015-0113

Thalassemia screening using different automated blood cell counters: Consideration of appropriate cutoff values	Chaitraiphop C., Sanchaisuriya K., Inthavong S., Fucharoen G., Sanchaisuriya P., Changtrakun Y., Fucharoen S.	10.7754/Clin.Lab.2015.150720
Characterization of Deletions of the HBA and HBB Loci by Array Comparative Genomic Hybridization	Sabath D.E., Bender M.A., Sankaran V.G., Vamos E., Kentsis A., Yi H.-S., Greisman H.A.	10.1016/j.jmoldx.2015.07.011
Prevalence of thalassemia and hemoglobinopathy in eastern India: A 10-year high-performance liquid chromatography study of 119,336 cases	Mondal S.K., Mandal S.	10.4103/0973-6247.175424
Health-related quality of life and health utility values in beta thalassemia major patients receiving different types of iron chelators in Iran	Seyedifar M., Dorkoosh F.A., Hamidieh A.A., Naderi M., Karami H., Karimi M., Fadaiyrayeny M., Musavi M., Safaei S., Ahmadian-Attari M.M., Hadjibabaie M., Cheraghali A.M., Sari A.A.	
Effect of combined versus monotherapy with deferoxamine and deferiprone in Iron overloaded thalassemia patients: A randomized clinical trial	Hejazi S., Safari O., Arjmand R., Qorbani M., Pourrostami K., Safari A., Hemmati A.	10.22038/ijp.2016.6871
Risk assessment of gene variants for neonatal hyperbilirubinemia in Taiwan	Weng Y.-H., Chiu Y.-W., Cheng S.-W., Yang C.-Y.	10.1186/s12887-016-0685-8
Two independent genetic origins of $\beta^+$ -thalassemia Due to -31 A to G mutation in thai and japanese populations	Lerttham W., Fucharoen G., Yamsri S., Fucharoen S.	
Hemoglobin constant spring among southeast asian populations: Haplotypic heterogeneities and phylogenetic analysis	Jomoui W., Fucharoen G., Sanchaisuriya K., Hoa Nguyen V., Fucharoen S.	10.1371/journal.pone.0145230
Understanding the contrasting spatial haplotype patterns of malaria-protective $\beta^+$ -globin polymorphisms	Hockham C., Piel F.B., Gupta S., Penman B.S.	10.1016/j.meegid.2015.09.018
Acute non-atherosclerotic ST-segment elevation myocardial infarction in an adolescent with concurrent hemoglobin H-Constant Spring disease and polycythemia vera	Rattarittamrong E., Norasetthada L., Tantiworawit A., Chai-Adisaksopha C., Hantrakool S., Rattanathammethee T., Charoenkwan P.	10.4081/hr.2015.5941
Molecular Scanning of $\beta^+$ -Thalassemia in the Southern Region of Central Java, Indonesia; a Step Towards a Local Prevention Program	Rujito L., Basalamah M., Mulatsih S., Sofro A.S.M.	10.3109/03630269.2015.1065420
The Effect of Nonsense Mediated Decay on Transcriptional Activity Within the Novel $\beta^+$ -Thalassemia Mutation HBB: c.129delT	Forster L., Ardakani R.M., Qadah T., Finlayson J., Ghassemifar R.	10.3109/03630269.2015.1065270
Prevalence of thalassemia carriers among the Lahu hill tribe population, Chiang Rai, Thailand	Apidechkul T.	10.5372/1905-7415.0904.423
A novel $\beta^+$ -thalassemia caused by DNA deletion-inversion-insertion of the $\beta^+$ -globin gene cluster and five olfactory receptor genes: Genetic interactions,	Singha K., Fucharoen G., Hama A., Fucharoen S.	10.1016/j.clinbiochem.2015.03.023

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Molecular spectrum of $\hat{\Gamma}$ -globin gene mutations in the Aegean region of Turkey: first observation of three $\hat{\Gamma}$ -globin gene mutations in the Turkish population	Onay H., Aykut A., Karaca E., Durmaz A., Solmaz A.E., $\hat{\Gamma}$ -yulu $\hat{\Gamma}$ ., Ayd $\hat{\Gamma}$ nok Y., Vergin C., $\hat{\Gamma}$ -zk $\hat{\Gamma}$ nay F.	10.1007/s12185-015-1796-y
Genetic heterogeneity of the $\hat{\Gamma}^2$ -globin gene in various geographic populations of Yunnan in southwestern China	Zhang J., He J., Zeng X.-H., Ge S.-J., Huang Y., Su J., Ding X.-M., Yang J.-Q., Cao Y.-J., Chen H., Zhang Y.-H., Zhu B.-S.	10.1371/journal.pone.0122956
Genetic determinants of $\hat{\Gamma}^2$ -thalassemia intermedia in Pakistan	Khan J., Ahmad N., Siraj S., Hoti N.	10.3109/03630269.2014.1002136
Discrimination of various thalassemia syndromes and iron deficiency and utilization of reticulocyte measurements in monitoring response to iron therapy	Winichagoon P., Kumbunlue R., Sirankapracha P., Boonmongkol P., Fucharoen S.	10.1016/j.bcmd.2015.01.010
Sequence and analysis of a whole genome from Kuwaiti population subgroup of Persian ancestry	Thareja G., John S.E., Hebbar P., Behbehani K., Thanaraj T.A., Alsmadi O.	10.1186/s12864-015-1233-x
Retrospective analysis of 14 cases of disseminated infection with osteolytic lesions	Qiu Y., Zhang J., Liu G., Zhong X., Deng J., He Z., Jing B.	10.1186/s12879-015-0782-6
The prevalence and spectrum of $\hat{\Gamma}$ -Thalassemia in Guizhou Province of South China	Huang S.-W., Xu Y., Liu X.-M., Zhou M., Li G.-F., An B.-Q., Su L., Wu X., Lin J.	10.3109/03630269.2015.1041037
The spectrum of $\hat{\Gamma}$ -thalassemia mutations in Kermanshah Province, West Iran	Alibakhshi R., Mehrabi M., Omidniakan L., Shafieenia S.	10.3109/03630269.2015.1070732
A large cohort of $\hat{\Gamma}^2$ -thalassemia in thailand: Molecular, hematological and diagnostic considerations	Yamsri S., Singha K., Prajantasen T., Taweenan W., Fucharoen G., Sanchaisuriya K., Fucharoen S.	10.1016/j.bcmd.2014.11.008
Detection of Hb Constant Spring (HBA2: C.427T>C) Heterozygotes in Combination with $\hat{\Gamma}^2$ -Thalassemia or Hb e Trait by Capillary Electrophoresis	Pornprasert S., Saoboontan S., Punyamung M.	10.3109/03630269.2015.1027827
Clinical and Molecular Characteristics of Non-Transfusion-Dependent Thalassemia in Kuwait	Adekile A.D., Azab A.F., Al-Sharida S.I., Al-Nafisi B.A., Akbulut N., Marouf R.A., Mustafa N.Y.	10.3109/03630269.2015.1053489
Effect of iron chelator desferrioxamine on serum zinc levels in patients with beta thalassemia major	Sultan S., Irfan S.M., Kakar J., Zeeshan R.	
Known and new hemoglobin A2 variants in Thailand and implication for $\hat{\Gamma}^2$ -thalassemia screening	Panyasai S., Fucharoen G., Fucharoen S.	10.1016/j.cca.2014.09.003
Prevalence of Alpha thalassemia in microcytic anemia: A tertiary care experience from north India	Sharma M., Pandey S., Ranjan R., Seth T., Saxena R.	10.4084/MJHID.2015.004
Population screening and prevention strategies for thalassemias and other	Chatterjee T., Chakravarty A., Chakravarty S.	10.3109/03630269.2015.1068799

hemoglobinopathies of Eastern India: Experience of 18,166 cases		
Interaction of Hb Grey Lynn (Vientiane) [ $\beta^{91}(\text{FG3})\text{Leu}>\text{Phe}(\beta^{1})$ ] with Hb E [ $\beta^{26}(\text{B8})\text{Glu}>\text{Lys}$ ] and $\beta^{\pm}$ -thalassemia: Molecular and hematological analysis	Singha K., Fucharoen G., Fucharoen S.	10.7754/Clin.Lab.2014.141112
Mutation spectrum of $\beta^2$ -Thalassemia and other hemoglobinopathies in Chittagong, Southeast Bangladesh	Chatterjee T., Chakravarty A., Chakravarty S., Chowdhury M.A., Sultana R.	10.3109/03630269.2015.1078810
Craniofacial manifestations of $\beta^2$ -thalassemia major	Javid B., Said-Al-Naief N.	10.1016/j.oooo.2014.08.020
Validation of the immunochromatographic strip for $\beta^{\pm}$ -thalassemia screening: A multicenter study	Winichagoon P., Kumpan P., Holmes P., Finlayson J., Newbound C., Kabral A., Li B., Nuinoon M., Fawcett T., Tayapiwatana C., Kasinrerak W., Fucharoen S.	10.1016/j.transl.2014.10.013
Community participation for thalassemia prevention initiated by village health volunteers in Northeastern Thailand	Jopang Y., Petchmark S., Jetsrisuparb A., Sanchaisuriya K., Sanchaisuriya P., Schelp F.P.	10.1177/1010539511430520
$\beta^2$ -Globin genes: Mutation hot-spots in the global thalassemia belt	Kumar R., Sagar C., Sharma D., Kishor P.	10.3109/03630269.2014.985831
Coexistence of malaria and thalassemia in malaria endemic areas of Thailand	Kuesap J., Chaijaroenkul W., Rungsihirunrat K., Pongjantharasatien K., Na-Bangchang K.	10.3347/kjpp.2015.53.3.265
Treatment of $\beta^2$ -thalassemia/hemoglobin E with antioxidant cocktails results in decreased oxidative stress, increased hemoglobin concentration, and improvement of the hypercoagulable state	Yanpanitch O.-U., Hatairaktham S., Charoensakdi R., Panichkul N., Fucharoen S., Srichairatanakool S., Siritanaratkul N., Kalpravidh R.W.	10.1155/2015/537954
The prevalence of hemoglobinopathies in young adolescents in the province of Muğla in Turkey: Results of a screening program	Topal Y., Topal H., Ceyhan M.N., Azik F., Çapanoğlu M., Kocabağ C.N.	10.3109/03630269.2015.1046185
Mutation screening for thalassaemia in the Jino ethnic minority population of Yunnan Province, Southwest China	Wang S., Zhang R., Xiang G., Li Y., Hou X., Jiang F., Jiang F., Hu C., Jia W.	10.1136/bmjopen-2015-010047
Increasing prevalence of thalassemia in America: Implications for primary care	Sayani F.A., Kwiatkowski J.L.	10.3109/07853890.2015.1091942
The effect of thalassemia on erythrocyte reference intervals in a representative Han Chinese adult population	Xu J.-H., Hao X.-K., Mu R.-Q., Pan B.-S., Zhang J., Peng M.-T., Wang L.-L., Huang X.-Z., Ma Y.-Y., Zhao M., Guo W., Qiao R., Chen W.-X., Jiang H., Shang H.	10.7754/Clin.Lab.2014.140905
Detection of deletion $\beta^{\pm}$ -thalassemia mutation [ $-\beta^{\pm}(3.7)$ , $-\beta^{\pm}(4.2)$ ] by quantitative PCR assay	Seeratanachot T., Shimbhu D., Charoenkwan P., Sanguanserm Sri T.	
Sonographic markers of fetal $\beta^{\pm}$ -thalassemia major	Li X., Zhou Q., Zhang M., Tian X., Zhao Y.	10.7863/ultra.34.2.197

Diagnostic pitfalls of less well recognized HbH disease	Farashi S., Najmabadi H.	10.1016/j.bcmd.2015.08.003
Medium-based noninvasive preimplantation genetic diagnosis for human $\hat{\alpha}$ -thalassemias-SEA	Wu H., Ding C., Shen X., Wang J., Li R., Cai B., Xu Y., Zhong Y., Zhou C.	10.1097/M D.0000000000000669
Identification of Hb Constant Spring (HBA2: C.427T > C) by an Automated High Performance Liquid Chromatography Method	Wisedpanichkij R., Jindadamrongwech S., Butthep P.	10.3109/03630269.2015.1027828
The homozygous hemoglobin EE genotype and chronic inflammation are associated with high serum ferritin and soluble transferrin receptor concentrations among women in rural Cambodia	Karakochuk C.D., Whitfield K.C., Rappaport A.I., Barr S.I., Vercauteren S.M., McLean J., Prak S., Hou K., Talukder A., Devenish R., Green T.J.	10.3945/jn.115.218636
Genetic hemoglobin disorders rather than iron deficiency are a major predictor of hemoglobin concentration in women of reproductive age in rural prey veng, Cambodia	Karakochuk C.D., Whitfield K.C., Barr S.I., Lamers Y., Devlin A.M., Vercauteren S.M., Kroeun H., Talukder A., McLean J., Green T.J.	10.3945/jn.114.198945
Melioidosis in the non-endemic setting: Not only in diabetic travelers returning from Southeast Asia	Bottieau E., Vlieghe E.	10.1016/j.tmaid.2015.09.002
Epidemiology of hepatitis C virus in Iran	Taherkhani R., Farshadpour F.	10.3748/wjg.v21.i38.10790
Hemoglobin e and glucose-6-phosphate dehydrogenase deficiency and plasmodium falciparum malaria in the chittagong hill districts of Bangladesh	Shannon K.L., Ahmed S., Rahman H., Prue C.S., Khyang J., Ram M., Haq M.Z., Chowdhury A., Akter J., Glass G.E., Shields T., Nyunt M.M., Khan W.A., Sack D.A., Sullivan D.J.	10.4269/ajtmh.14-0623
Risk factors for malaria and adverse birth outcomes in a prospective cohort of pregnant women resident in a high malaria transmission area of Papua New Guinea	Stanisic D.I., Moore K.A., Baiwog F., Ura A., Clapham C., King C.L., Siba P.M., Beeson J.G., Mueller I., Fowkes F.J., Rogerson S.J.	10.1093/trstmh/trv019
Dengue virus infection of erythroid precursor cells is modulated by both thalassemia trait status and virus adaptation	Sornjai W., Khungwanmaythawee K., Svasti S., Fucharoen S., Wintachai P., Yoksan S., Ubol S., Wikan N., Smith D.R.	10.1016/j.viro.2014.10.004
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Molecular epidemiological characterization and health burden of thalassemia in Jiangxi Province, P. R. China	Lin M., Zhong T.-Y., Chen Y.-G., Wang J.-Z., Wu J.-R., Lin F., Tong X., Yang H.-T., Hu X.-M., Hu R., Zhan X.-F., Yang H., Luo Z.-Y., Li W.-Y., Yang L.-Y.	10.1371/journal.pone.0101505
Running exercise alleviates trabecular bone loss and osteopenia in hemizygous $\hat{\beta}^2$ -globin knockout thalassemic mice	Thongchote K., Svasti S., Teerapornpuntakit J., Krishnamra N., Charoenphandhu N.	10.1152/ajpendo.00111.2014

Molecular characterization of $\hat{\Gamma}$ $\pm$ - and $\hat{\Gamma}$ $^2$ -thalassaemia among Malay patients	Mohd Yatim N.F., Abd. Rahim M., Menon K., Al-Hassan F.M., Ahmad R., Manocha A.B., Saleem M., Yahaya B.H.	10.3390/ijms15058835
A simple and highly sensitive elisa for screening of the $\hat{\Gamma}$ $\pm$ -thalassemia-1 southeast asian-type deletion	Pata S., Khummuang S., Pornprasert S., Tatu T., Kasinrerkw W.	10.1080/15321819.2013.838963
The prevalence and molecular spectrum of $\hat{\Gamma}$ $\pm$ - and $\hat{\Gamma}$ $^2$ -globin gene mutations in 14,332 families of Guangdong Province, China	Yin A., Li B., Luo M., Xu L., Wu L., Zhang L., Ma Y., Chen T., Gao S., Liang J., Guo H., Qin D., Wang J., Yuan T., Wang Y., Huang W.-W., He W.-F., Zhang Y., Liu C., Xia S., Chen Q., Zhao Q., Zhang X.	10.1371/journal.pone.0089855
Interaction of hemoglobin Grey Lynn (Vientiane) with a non-deletional $\hat{\Gamma}$ $\pm$ -thalassemia in an adult Thai proband	Singha K., Fucharoen G., Fucharoen S.	10.11613/bm.2014.019
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HLA-A, HLA-B, HLA-DRB1 allele and haplotype frequencies in 6384 umbilical cord blood units and transplantation matching and engraftment statistics in the Zhejiang cord blood bank of China	Wang F., He J., Chen S., Qin F., Dai B., Zhang W., Zhu F.M., Lv H.J.	10.1111/iji.12064
Measurement of HbA2 by capillary electrophoresis for diagnosing $\hat{\Gamma}$ $^2$ -thalassemia/HbE disease in patients with low hbf	Prasing W., Pornprasert S.	10.1309/LMGD96HES3DZRBZM
The correlation of $\hat{\Gamma}$ $\pm$ -globin gene mutations and the XmnI polymorphism with clinical severity of Hb E/ $\hat{\Gamma}$ $^2$ -thalassemia	Charoenkwan P., Teerachaimahit P., Sanguansermisri T.	10.3109/03630269.2014.952744
A newly modified hemoglobin h inclusion test as a secondary screening for $\hat{\Gamma}$ $\pm$ 0-thalassemia in southeast asian populations	Fucharoen G., Yooyen K., Chaibunruang A., Fucharoen S.	10.1159/000355187
Phenotypic expression of Hb F in common high Hb F determinants in Thailand: Roles of $\hat{\Gamma}$ $\pm$ -thalassemia, 5' $\hat{\Gamma}$ -globin BCL11A binding region and 3' $\hat{\Gamma}$ $^2$ -globin enhancer	Prakobkaew N., Fucharoen S., Fuchareon G., Siriratmanawong N.	10.1111/ejh.12201
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ARKRAY ADAMS A1c HA-8180T analyzer for diagnosis of thalassemia and hemoglobinopathies common in southeast Asia	Kunwandee J., Srivorakun H., Fucharoen G., Sanchaisuriya K., Fucharoen S.	10.1309/LMmh649poetqrex1
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Blood transfusion from a Hb e trait donor can affect $\hat{\beta}^2$ -thalassemia diagnosis	Pornprasert S., Jaiping K.	10.3109/03630269.2014.926913
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New mathematical formula for differentiating thalassemia trait and iron deficiency anemia in thalassemia prevalent area: A study in healthy school-age children	Sirachainan N., Iamsirirak P., Charoenkwan P., Kadegasem P., Wongwerawattanakoon P., Sasanakul W., Chansatitporn N., Chuansumrit A.	
Routine screening for $\alpha$ -thalassaemia using an immunochromatographic strip assay for haemoglobin bart $\hat{\epsilon}$ ™s	Prayalaw P., Fucharoen G., Fucharoen S.	10.1177/0969141314538611
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State of the art and new developments in molecular diagnostics for hemoglobinopathies in multiethnic societies	Harteveld C.L.	10.1111/ijlh.12108
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Alpha thalassaemia in tribal communities of coastal maharashtra, India	Deo M.G., Pawar P.V.	
Pattern of hemoglobinopathies and thalassemias in upper Assam region of North Eastern India: High performance liquid chromatography studies in 9000 patients	Baruah M.K., Saikia M., Baruah A.	10.4103/0377-4929.134680
Five hemoglobin variants in a double heterozygote for $\hat{\beta}^{\pm}$ and $\hat{\beta}^2$ -globin chain defects	Singha K., Fucharoen G., Fucharoen S.	10.1159/000353123

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Hb Cibeles [ $\beta$ 2 CD25(B6) (Gly $\rightarrow$ Asp)]: a novel alpha chain variant causing alpha-thalassemia	de la Fuente-Gonzalo F., Nieto J.M., Vinuesa L., Sevilla J., D��az-Mediavilla J., Villegas A., Gonz��lez F.A., Ropero P.	10.1007/s12185-014-1663-2
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Novel approach to reactive oxygen species in nontransfusion-dependent thalassemia	Tyan P.I., Radwan A.H., Eid A., Haddad A.G., Wehbe D., Taher A.T.	10.1155/2014/350432
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