**CS5560 Knowledge Discovery Management**

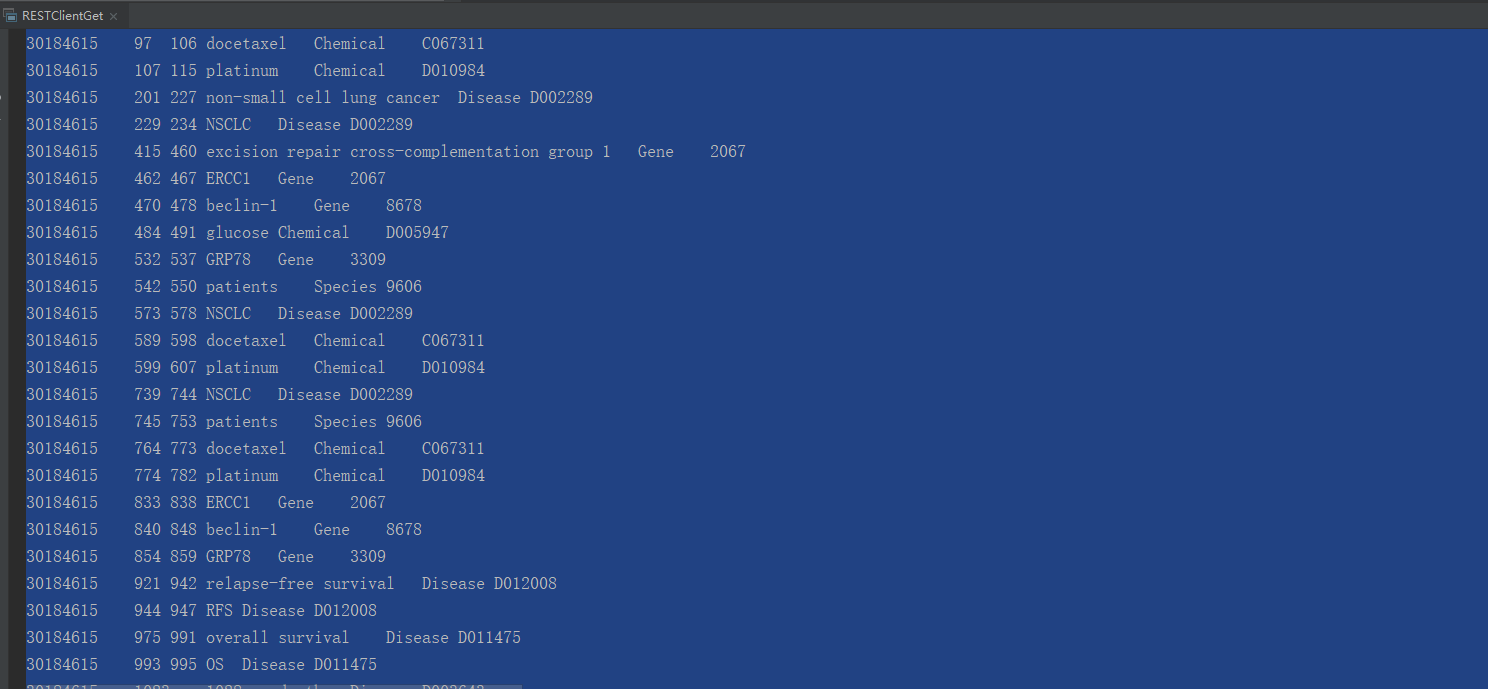
**Lab Assignment 3**

**Lab Submission before November 9th 2018 (11:59 PM).**

Submit a short lab report including screenshots and data description to Turnitin . Post your GitHub URL with Source Code (No wiki) through Lab 3 form at https://goo.gl/forms/MP2n7LQGmm2atsZo2

1. ***Report Data Statistics using tables, figures or graphs from Earlier Lab Assignments***
2. ***Medical Word Statistics: Find out the top TF-IDF and corresponding Word2Vec words.***

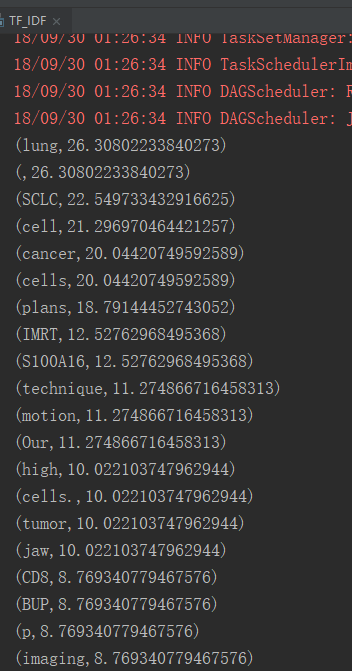
Get the medcial word:



Then using those words for tfidf and w2v:

|  |  |  |  |
| --- | --- | --- | --- |
| TF-Terms | W2v | TF-Terms | W2v |
| lung |  | Our |  |
| SCLC |  | High | autism 0.9951085448265076  does 0.9950651526451111  com 0.9943599104881287  light 0.991661548614502  autistic 0.9901211857795715  single 0.9900636672973633  childhood 0.9896146059036255  scale 0.988215446472168  or 0.988158106803894  center 0.9880214333534241  tend 0.9873254299163818  body 0.9868731498718262  but 0.9864466786384583  developmental 0.9859561920166016  any 0.9853775501251221  child 0.9847640991210938  because 0.9847579002380371  difference 0.9846501350402832  fact 0.9833556413650513  system 0.9813955426216125  asperger 0.9809575080871582  services 0.9808052778244019  very 0.9807579517364502  certain 0.9793568849563599  public 0.9791793823242188  how 0.979155957698822  trees 0.9787988066673279  regions 0.9787269234657288  significant 0.9784285426139832  than 0.9784044027328491  assert 0.9782336950302124  partly 0.9775297045707703  mental 0.9773896932601929  appear 0.9769401550292969  can 0.9761420488357544  working 0.9748108386993408  way 0.9746730327606201  for 0.9746593832969666  i 0.9746155738830566  types 0.9743771553039551 |
| cell |  | Toumr |  |
| cancer |  | Jaw |  |
| cells |  | CD8 |  |
| plans |  | BUP |  |
| IMRT |  | P |  |
| S100A16 |  | imaging |  |
| technique |  | motion |  |

(maybe because of the bad data, most of them don’t have the w2v result)



***(homeless,43.141706699094456)***

***(game,39.219733362813145)***

***(MIF,31.375786690250514)***

***(fear,28.132065825385197)***

***(lithium,27.4538133539692)***

***(fasting,27.4538133539692)***

***(death,24.615557597212046)***

***(reported,24.022893310073517)***

***(EDT,23.531840017687884)***

***(mood,23.531840017687884)***

***(pro-ana,23.531840017687884)***

***(WM,19.609866681406572)***

***(hippocampal,19.609866681406572)***

***(with PA,13.637984737907402)***

***(family history,8.523740461192126)***

***(significantly higher,6.818992368953701)***

***(cancer in,6.818992368953701)***

***(PA diagnosed,6.818992368953701)***

***(before the,5.114244276715276)***

***(diagnosed before,5.114244276715276)***

***(abbreviated MRI,5.114244276715276)***

***(prolactinoma and,5.114244276715276)***

***(age of,5.114244276715276)***

***(was reported,5.114244276715276)***

***(very rare,5.114244276715276)***

***(reported in,5.114244276715276)***

***(higher than,5.114244276715276)***

***(the age,5.114244276715276)***

***(with a,4.0464036467139195)***

***(increased risk,3.897848952390783)***

***(history of,3.897848952390783)***

***(systemic therapy,,3.4094961844768505)***

***(neuropathic breast,3.4094961844768505)***

***(extinction,19.609866681406572)***

***(DBS,19.609866681406572)***

***(GM,19.609866681406572)***

***(ECT,19.609866681406572)***

***(HIV-1,19.609866681406572)***

***(prognostic,11.933236645668977)***

***(contrast,10.394263873042087)***

***(diagnosed,10.228488553430552)***

***(AION,8.523740461192126)***

***(abbreviated,8.523740461192126)***

***(signatures,8.523740461192126)***

***(not,8.523740461192126)***

***(than,8.523740461192126)***

***(age,6.818992368953701)***

***(prolactinoma,6.818992368953701)***

***(vs,6.818992368953701)***

***(significantly,6.818992368953701)***

***(increased,5.1971319365210435)***

***(survival,5.114244276715276)***

***(cancer:,5.114244276715276)***

***(protocols,5.114244276715276)***

***(neuroma,5.114244276715276)***

***(SCC,19.609866681406572)***

***(return,19.609866681406572)***

1. ***Create a single Ontology from the approximate 50 abstracts***
   1. ***Report the entities***

***Gene***

***Disease***

***Chemical***

***Species***

***Mutation***

***Other***

* 1. ***Report the predicates***

***s\_office\_be,Other,Other,Func***

***consist\_of,Other,Other,Func***

***show,Other,Other,Func***

***offer,Other,Other,Func***

***affect\_provider\_treatment\_decision\_in,Other,Other,Func***

***be,Other,Other,Func***

***be\_in,Other,Other,Func***

***be\_in,Other,Other,Func***

***be\_significant\_cause\_of,Other,Other,Func***

***be,Other,Other,Func***

***have\_particularly\_well\_document\_in,Other,Other,Func***

***be,Other,Other,Func***

***be\_in,Other,Other,Func***

***be\_with,Other,Other,Func***

***could,Other,Other,Func***

***discuss,Other,Other,Func***

***implicate\_in,Other,Other,Func***

***understand,Other,Other,Func***

***affect\_life\_in,Other,Other,Func***

***investigate,Other,Other,Func***

***significantly\_improve,Other,Other,Func***

***lead\_pa\_intervention\_for,Other,Other,Func***

***be\_associate\_with,Other,Other,Func***

***be\_mainly\_responsible\_for,Other,Other,Func***

***use\_service\_infrequently\_in\_case\_of,Species,Other,Func***

***have,Other,Other,Func***

***should,Other,Other,Func***

***be\_in,Other,Other,Func***

***be,Disease,Other,Func***

***be\_often\_poor\_with,Other,Other,Func***

***be\_in,Other,Other,Func***

***develop\_on,Other,Other,Func***

***compare,Other,Other,Func***

***reduce,Other,Other,Func***

***differ\_between,Other,Other,Func***

***be,Other,Other,Func***

***explore,Other,Other,Func***

***be,Other,Other,Func***

***assessment\_of,Other,Other,Func***

***identify,Other,Other,Func***

***significantly\_increase\_after,Other,Other,Func***

***recover\_obviously\_at,Other,Other,Func***

***modulate,Other,Other,Func***

***be,Disease,Other,Func***

***cope\_with,Other,Other,Func***

***investigate,Other,Other,Func***

***recommend\_investigation,Other,Other,Func***

***have\_result\_from,Other,Other,Func***

***include,Other,Other,Func***

***create,Other,Other,Func***

***would,Other,Other,Func***

***currently\_use\_technology\_as,Other,Other,Func***

***have\_for,Other,Other,Func***

***be,Other,Other,Func***

***have,Other,Other,Func***

***apply,Other,Other,Func***

***test,Other,Other,Func***

***be\_integrate\_with,Other,Other,Func***

***be\_in,Other,Other,Func***

***be\_with,Other,Other,Func***

***use,Other,Other,Func***

***support,Other,Other,Func***

***produce\_outcome\_in,Other,Other,Func***

***be\_in,Other,Other,Func***

***be\_with,Other,Other,Func***

***long-term\_health\_of,Other,Other,Func***

***examine,Other,Other,Func***

***have,Other,Other,Func***

***normalize\_in,Other,Other,Func***

***conduct,Other,Other,Func***

***search,Other,Other,Func***

***be,Other,Other,Func***

***be,Other,Other,Func***

***vary\_substantially\_between,Other,Other,Func***

***accordingly\_be\_deem,Other,Other,Func***

***be,Other,Other,Func***

***be\_mostly\_moderate\_to,Other,Other,Func***

***increase,Other,Other,Func***

***be\_in,Other,Other,Func***

***may\_alleviate,Other,Other,Func***

***may\_include,Other,Other,Func***

***form\_of,Other,Other,Func***

***be\_in,Other,Other,Func***

***be,Other,Other,Func***

***provide,Other,Other,Func***

***be\_commonly\_associate\_with,Other,Other,Func***

***be\_advance,Other,Other,Func***

***will\_discuss,Other,Other,Func***

***further\_will\_describe,Other,Other,Func***

***suffer\_from,Other,Other,Func***

***have\_increase\_over,Other,Other,Func***

***identify,Other,Other,Func***

***be\_draw\_from,Other,Other,Func***

***be\_with,Species,Other,Func***

***be,Other,Other,Func***

***individual\_with,Other,Other,Func***

***highlight,Other,Other,Func***

***be\_in,Other,Other,Func***

***be\_elevated\_compare\_to,Other,Other,Func***

***be\_require,Other,Other,Func***

***however\_be\_still\_susceptible\_to,Other,Other,Func***

***norm\_in,Other,Other,Func***

***develop,Other,Other,Func***

***be,Other,Other,Func***

***presence\_in,Other,Other,Func***

***provide,Other,Other,Func***

***have\_become,Other,Other,Func***

***provide,Other,Other,Func***

***reduce,Other,Other,Func***

***explore,Other,Other,Func***

***find,Other,Other,Func***

***be\_in,Other,Other,Func***

***be,Other,Other,Func***

***be\_still\_produce,Other,Other,Func***

***be\_require\_for,Other,Other,Func***

***however\_have,Other,Other,Func***

***deep\_stimulation\_of\_be,Other,Other,Func***

***identify,Other,Other,Func***

***therefore\_use,Other,Other,Func***

***be\_in,Other,Other,Func***

***be\_in,Other,Other,Func***

***stimulation\_of\_be,Other,Other,Func***

***activation\_beyond,Other,Other,Func***

***be\_prominent\_feature\_of,Other,Other,Func***

***however\_have\_produce\_result\_due\_to,Other,Other,Func***

***be\_in,Disease,Other,Func***

***be,Other,Other,Func***

***use,Other,Other,Func***

***enhance\_object\_recognition\_performance\_compare\_to,Other,Other,Func***

***be\_protect\_by,Other,Other,Func***

***explore,Other,Other,Func***

***estimate,Other,Other,Func***

***be\_in,Other,Other,Func***

***be\_associate\_with,Disease,Other,Func***

***become,Disease,Other,Func***

***target\_dysfunction\_in,Other,Disease,Func***

***treatment\_with,Other,Other,Func***

***involve,Other,Other,Func***

***have,Other,Other,Func***

***describe,Other,Other,Func***

***first\_examine,Other,Other,Func***

***be\_in,Disease,Other,Func***

***use,Other,Other,Func***

***use\_disorder\_in,Other,Other,Func***

***be\_most\_common\_form\_of,Other,Other,Func***

***be,Other,Other,Func***

***be\_propagation\_of,Other,Other,Func***

***be,Other,Other,Func***

***report\_on,Other,Other,Func***

***determine,Other,Other,Func***

***be,Other,Other,Func***

***focus,Other,Other,Func***

***be\_recommend\_as,Other,Other,Func***

***be\_in,Other,Other,Func***

***anchor\_to,Other,Other,Func***

***characterize\_by,Other,Other,Func***

***be\_conventionally\_link\_with,Other,Other,Func***

***have,Other,Other,Func***

***suggest,Other,Other,Func***

***be\_in,Other,Other,Func***

***cause\_of\_be,Other,Other,Func***

***be,Other,Other,Func***

***be,Other,Other,Func***

***have,Species,Other,Func***

***describe,Other,Other,Func***

***increase,Other,Other,Func***

***be,Other,Other,Func***

***receive\_treatment\_after,Other,Other,Func***

***follow,Other,Other,Func***

***vary\_with,Other,Other,Func***

***have\_increase,Other,Other,Func***

***seem\_in\_accordance\_with,Other,Other,Func***

***be\_in,Other,Other,Func***

***determine,Other,Other,Func***

***have,Other,Other,Func***

***investigate,Other,Other,Func***

***produce,Other,Other,Func***

***however\_be\_significant\_moderator\_of,Other,Other,Func***

***be,Other,Other,Func***

***be\_in,Other,Other,Func***

***with\_user\_be,Other,Other,Func***

***present,Other,Other,Func***

***therapeutic\_consultation\_about,Other,Other,Func***

***be\_define\_as,Other,Other,Func***

***be\_also\_conceptualize\_as,Other,Other,Func***

***construct\_demoralization\_subscale\_across,Other,Other,Func***

***cross-validate\_finding\_in,Other,Other,Func***

***support,Other,Other,Func***

***be\_in,Other,Other,Func***

***be,Disease,Other,Func***

***change\_in,Other,Other,Func***

***be\_in,Other,Other,Func***

***relate\_to,Other,Other,Func***

***related\_to,Other,Other,Func***

***allow\_for,Other,Other,Func***

***be\_mediate\_through,Other,Other,Func***

***further\_potentiate\_and,Other,Other,Func***

***increase,Other,Other,Func***

***be\_in,Other,Other,Func***

***alter\_and,Other,Other,Func***

***from\_derived-macrophage\_be,Other,Other,Func***

***suffer\_from,Other,Other,Func***

***be\_in,Other,Other,Func***

***discuss,Other,Other,Func***

***be\_in,Other,Other,Func***

***thus\_represent,Other,Other,Func***

***explore,Other,Other,Func***

***have\_demonstrate,Other,Other,Func***

***however\_limit,Other,Other,Func***

***develop,Other,Other,Func***

***be\_most\_often\_characterize\_by,Other,Other,Func***

***be\_with,Species,Other,Func***

***may\_offer\_value\_as,Other,Other,Func***

***be,Disease,Other,Func***

***however\_often\_ignore,Other,Other,Func***

***be\_widely\_related\_to,Other,Other,Func***

***cause,Other,Other,Func***

***be\_investigate\_by,Other,Other,Func***

***be\_with,Other,Other,Func***

***be,Other,Other,Func***

***indicate,Other,Other,Func***

***examine\_validity\_in,Other,Other,Func***

***be\_in,Other,Other,Func***

***however\_pose,Other,Other,Func***

***be\_common\_in,Disease,Other,Func***

***examine,Other,Other,Func***

***be,Other,Other,Func***

***present,Other,Other,Func***

***may\_actually\_enable,Other,Other,Func***

***examine\_efficacy\_as,Other,Other,Func***

***tailor,Other,Other,Func***

***be\_in,Other,Other,Func***

***describe,Other,Other,Func***

***conduct,Other,Other,Func***

***assess,Other,Other,Func***

***be\_in,Other,Other,Func***

***report,Other,Other,Func***

***be\_positively\_associate\_with,Other,Other,Func***

***report,Other,Other,Func***

***be,Other,Other,Func***

***have,Other,Other,Func***

***be\_significantly\_higher,Other,Other,Func***

***underscore,Other,Other,Func***

***be\_with,Other,Other,Func***

***be\_associate\_with,Other,Other,Func***

***be\_biochemical\_alteration\_of,Other,Other,Func***

***regulate,Other,Other,Func***

***be\_summarize\_exemplarily\_for,Other,Other,Func***

***be\_in,Other,Other,Func***

***have\_function\_at,Other,Other,Func***

***be\_with,Other,Other,Func***

***have\_impact\_with,Other,Other,Func***

***be\_further\_complicate\_in,Other,Other,Func***

***examine,Other,Other,Func***

***secondarily\_examine\_lifetime\_cannabis\_use\_as,Other,Other,Func***

***find,Other,Other,Func***

***point\_to,Other,Other,Func***

***be\_associate\_with,Other,Other,Func***

***have,Species,Other,Func***

***be,Other,Other,Func***

***inhibit,Other,Other,Func***

***examine,Other,Other,Func***

***expose\_to,Other,Other,Func***

***use,Other,Other,Func***

***enhance,Other,Other,Func***

***be\_also\_effective\_for,Other,Other,Func***

***have,Other,Other,Func***

***influence,Other,Other,Func***

***promote,Other,Other,Func***

***be\_with,Other,Other,Func***

***also\_discuss,Other,Other,Func***

***have,Other,Other,Func***

***be\_in,Other,Other,Func***

***be\_limit\_by,Other,Other,Func***

***be\_in,Other,Other,Func***

***emerge\_at,Other,Other,Func***

***be\_serious\_chronic\_mental\_illness,Other,Other,Func***

***be\_seventh\_lead\_cause\_worldwide\_for,Other,Other,Func***

***access,Other,Other,Func***

***be\_know\_about,Other,Other,Func***

***enhance,Other,Other,Func***

***relate\_to,Other,Other,Func***

***suggest,Other,Other,Func***

***enable,Other,Other,Func***

***examine,Other,Other,Func***

***be,Other,Other,Func***

***of\_body\_be,Other,Other,Func***

***recently\_have\_expand\_to,Other,Other,Func***

***present,Other,Other,Func***

***live\_intersubjectivity\_attime,Other,Other,Func***

***be\_expression\_of,Other,Other,Func***

***be,Other,Other,Func***

***present,Other,Other,Func***

***new\_perspective,Other,Other,Func***

***be\_internalize\_disorder\_with,Other,Other,Func***

***be\_at,Other,Other,Func***

***examine,Other,Other,Func***

***systematic\_review\_of,Other,Other,Func***

***be\_conduct\_in\_accordance\_with,Other,Other,Func***

***find,Other,Other,Func***

***have,Other,Other,Func***

***propose,Other,Other,Func***

***might\_differ\_accord\_to,Other,Other,Func***

***be,Other,Other,Func***

***conduct,Other,Other,Func***

***explore,Other,Other,Func***

***be\_in,Other,Other,Func***

***assess,Other,Other,Func***

***be\_in,Other,Other,Func***

***be,Other,Other,Func***

***represent,Other,Other,Func***

***,Other,Other,Func***

***result\_in,Other,Other,Func***

***engage\_in,Other,Other,Func***

***vary\_by,Other,Other,Func***

***review,Other,Other,Func***

***treat,Other,Other,Func***

***be,Other,Other,Func***

***be\_also\_limit\_in,Other,Other,Func***

***have,Other,Other,Func***

***rise\_in,Other,Other,Func***

***reflect,Other,Other,Func***

***approximate\_dopamine\_signaling\_in,Other,Other,Func***

***be\_relate,Other,Other,Func***

***be,Disease,Other,Func***

***be,Other,Other,Func***

***support,Other,Other,Func***

***can\_lead\_to,Other,Other,Func***

***begin\_by,Other,Other,Func***

***may\_decrease,Other,Other,Func***

***be,Other,Other,Func***

***be\_with,Other,Other,Func***

***be\_in,Other,Other,Func***

***lead\_to,Other,Other,Func***

***also\_upregulate,Other,Other,Func***

***be,Other,Other,Func***

***support,Other,Other,Func***

***uphold,Other,Other,Func***

***present,Other,Other,Func***

***can\_optimize,Other,Other,Func***

***establish,Other,Other,Func***

***of\_design\_be,Other,Other,Func***

***be\_in,Other,Other,Func***

***be,Other,Other,Func***

***be,Other,Other,Func***

***empower,Other,Other,Func***

***receive,Other,Other,Func***

***content\_for,Other,Other,Func***

***finally\_be\_design\_on,Other,Other,Func***

***could,Other,Other,Func***

***be\_common\_in,Other,Species,Func***

***frequently\_present\_in,Other,Other,Func***

***should\_include\_parent\_functioning,Other,Other,Func***

***be\_use\_in,Other,Other,Func***

***prevention\_of\_be,Other,Other,Func***

***commence\_adolescence\_in,Other,Other,Func***

***be,Other,Other,Func***

***increase\_in,Other,Other,Func***

***experience\_unemployment\_as,Other,Other,Func***

***be\_in,Other,Other,Func***

***understand,Other,Other,Func***

***treat,Other,Other,Func***

***be\_in,Other,Other,Func***

***poor\_understanding\_of\_be,Other,Other,Func***

***here\_examine,Other,Other,Func***

***be\_in,Other,Other,Func***

***suffer\_with,Species,Other,Func***

***focus\_invasively\_and\_noninvasively\_to,Other,Other,Func***

***be,Other,Other,Func***

***be\_currently\_approve\_by,Other,Other,Func***

***show,Other,Other,Func***

***affect,Other,Other,Func***

* 1. ***Report the triplets***

***general\_practitioner,s\_office\_be,gp,Obj***

***cornerstone,consist\_of,psychosomatic\_specialist\_consultation\_in\_gp\_s\_office,Obj***

***preliminary\_result,show,high\_level\_of\_acceptance\_among\_patient,Obj***

***New\_digital\_technology,offer,provider,Obj***

***access,affect\_provider\_treatment\_decision\_in,real\_world,Obj***

***cognitive-behavioural\_therapy,be,treatment\_of\_choice\_for\_generalised\_anxiety\_disorder,Obj***

***significant\_room,be\_in,especially\_recovery,Obj***

***isolate\_disease,be\_in,older\_adult,Obj***

***syndrome,be\_significant\_cause\_of,mortality,Obj***

***apomorphine,be,non-specific,Obj***

***its\_use,have\_particularly\_well\_document\_in,Parkinson\_s\_disease,Obj***

***dopaminergic\_agonist,be,related,Obj***

***apomorphine,be\_in,literature,Obj***

***connection,be\_with,cognitive\_behavior\_like\_learning,Obj***

***structure,could,could\_compromise\_by\_effect\_of\_apomorphine,Obj***

***we,discuss,latest\_information\_about\_its\_effect\_on\_hippocampus,Obj***

***progressive\_neuropathic\_change,implicate\_in,recent-onset\_schizophrenia,Obj***

***benefit,understand,mechanism\_involve,Obj***

***experience,affect\_life\_in,numerous\_way,Obj***

***study,investigate,they\_difficult\_experience,Obj***

***physical\_activity,significantly\_improve,physical\_health\_across\_mental\_disorder,Obj***

***Accredited\_Exercise\_Physiologists,lead\_pa\_intervention\_for,people\_with\_mental\_illness,Obj***

***early\_intervention,be\_associate\_with,lower\_incidence\_of\_relapse,Obj***

***General\_practitioner,be\_mainly\_responsible\_for,primary\_health\_care,Obj***

***patient,use\_service\_infrequently\_in\_case\_of,somatic\_complaint,Obj***

***psychiatric\_outpatient\_clinic,have,deal\_with\_patient,Obj***

***this,should,should\_evaluate,Obj***

***long-term\_health-related\_quality,be\_in,patient\_with\_systemic\_lupus\_erythematosus\_receive,Obj***

***anorexia\_nervosa,be,characterise,Obj***

***long-term\_prognosis,be\_often\_poor\_with,severe\_developmental\_complication,Obj***

***family,be\_in,treatment,Obj***

***therapy,develop\_on,basis\_of\_dominant\_family\_system\_theory,Obj***

***objective,compare,neonatal\_outcome\_include\_gestational\_age,Obj***

***talk\_therapy,reduce,anxiety\_in\_adult\_with\_autism\_spectrum\_disorder,Obj***

***treatment\_utilization,differ\_between,adult,Obj***

***therapy,be,effective,Obj***

***we,explore,effect\_of\_ECT\_on\_functional\_connectivity\_of\_brain\_hub\_in\_depression\_patient,Obj***

***depression\_patient,be,in\_current\_study\_assess\_at\_three\_time\_point,Obj***

***resting-state\_functional\_magnetic\_resonance\_imaging,assessment\_of,clinical\_symptom,Obj***

***functional\_connectivity\_strength,identify,brain\_hub,Obj***

***fcs,significantly\_increase\_after,ECT,Obj***

***change\_fcs,recover\_obviously\_at,1\_month\_after\_completion\_of\_ECT,Obj***

***ECT,modulate,functional\_connectivity\_of\_left\_angular\_gyrus,Obj***

***anxiety\_disorder,be,most\_frequently\_diagnose\_mental\_health\_problem\_among\_american\_college\_student,Obj***

***they,cope\_with,mentalcognitive\_disability\_arise,Obj***

***deveau,investigate,type\_of\_EDT\_student,Obj***

***author,recommend\_investigation,research\_indicate,Obj***

***they,have\_result\_from,they\_anxiety,Obj***

***implication,include,continue,Obj***

***future\_research,create,peer\_run\_technology\_group\_teach\_by\_interested\_student,Obj***

***positive\_aspect\_use,would,would\_topic\_for\_group\_discussion,Obj***

***most\_college\_student,currently\_use\_technology\_as,part\_of\_they\_life,Obj***

***it,have\_for,they,Obj***

***lithium,be,mainstay\_treatment\_in\_bipolar\_disorder\_for\_its\_effectiveness\_in\_acute\_phase\_of\_illness\_in\_prevention\_of\_recurrence,Obj***

***lithium,have,mechanism\_of\_action,Obj***

***we,apply,integrate\_analytical\_approach,Obj***

***we,test,effect\_of\_treatment\_with\_lithium\_chloride\_1\_mm\_on\_transcriptome\_of\_lymphoblast,Obj***

***finding,be\_integrate\_with,gene-based\_analysis\_on\_genome-wide\_genotyping\_datum\_from\_extended\_sample\_of\_205\_bd\_patient\_characterize\_for\_lithium\_response,Obj***

***lithium,be\_in,LR,Obj***

***validation,be\_with,quantitative\_real-time\_polymerase\_chain\_reaction,Obj***

***we,use,convergent\_analysis\_of\_genome-wide\_expression,Obj***

***first\_evidence,support,involvement\_of\_zinc\_finger\_protein\_in\_lithium\_response,Obj***

***brief\_Services\_psychotherapy\_paradigm,produce\_outcome\_in,child\_s\_mental\_health,Obj***

***its\_clinical\_evaluation,be\_in,still\_its\_infancy,Obj***

***individual,be\_with,serious\_mental\_illness\_such\_schizophrenia,Obj***

***quality,long-term\_health\_of,life,Obj***

***nih-funded\_randomize\_clinical\_trial,examine,effectiveness\_of\_group\_lifestyle\_intervention\_enhance\_with\_mobile\_health\_technology,Obj***

***dysregulation,have,have\_associate\_with\_development\_of\_various\_mental\_disorder,Obj***

***alteration,normalize\_in,course\_of\_psychotherapy,Obj***

***we,conduct,comprehensive\_review\_of\_psychotherapeutic\_intervention\_effect\_on\_hpa\_axis\_in\_adult\_sample\_with\_mental\_disorder,Obj***

***we,search,four\_database\_for\_psychotherapeutic\_intervention\_study\_with\_mentally\_ill\_patient\_sample,Obj***

***Study\_quality,be,examine,Obj***

***twenty-five\_study,be,include,Obj***

***biomarker\_assessment\_methodology,vary\_substantially\_between,study,Obj***

***meta-analytical\_computation,accordingly\_be\_deem,unfeasible,Obj***

***Study\_characteristic,be,comprehensively\_review,Obj***

***biomarker\_confounder\_consideration\_rating,be\_mostly\_moderate\_to,strong,Obj***

***we,increase,comparability\_of\_psychotherapeutic\_treatment\_effect,Obj***

***literature,be\_in,adult\_with\_high-functioning\_autism,Obj***

***improving\_communication,may\_alleviate,disorder,Obj***

***communication,may\_include,information\_in\_different\_format\_aim,Obj***

***second-level\_intervention,form\_of,intervention,Obj***

***disorder,be\_in,user\_\_naturalistic\_environment,Obj***

***assist\_outpatient\_treatment,be,outpatient\_court-ordered\_treatment\_for\_people\_in\_part\_to\_treatment\_non-adherence,Obj***

***goal,provide,update\_on\_recent\_research,Obj***

***Parkinson\_s\_disease,be\_commonly\_associate\_with,motor\_symptom,Obj***

***molecular\_imaging,be\_advance,we\_knowledge\_of\_mechanism\_involve\_in\_development\_of\_behavioral\_addiction,Obj***

***chapter,will\_discuss,association\_with\_development\_of\_addictive\_behavior\_in\_pd\_include\_role\_of\_dopaminergic\_medication,Obj***

***we,further\_will\_describe,neurobiology\_of\_addictive\_behavior,Obj***

***hiv-1-infected\_patient,suffer\_from,milder\_form\_of\_hiv-1-associated\_neurocognitive\_disorder,Obj***

***suicide\_rate,have\_increase\_over,past\_several\_decade,Obj***

***study,identify,risk\_factor\_for\_first-onset\_si\_among\_high-risk\_group,Obj***

***datum,be\_draw\_from,National\_Treatment\_Improvement\_evaluation\_study,Obj***

***patient,be\_with,lifetime\_history\_of\_suicide\_attempt,Obj***

***severity\_indicator,be,evaluate\_as\_prospective\_predictor\_of\_first-onset\_SI\_in\_linear\_regression\_model,Obj***

***related\_symptom,individual\_with,current\_mental\_health,Obj***

***difficulty,highlight,importance\_of\_treatment\_accessibility,Obj***

***mental\_health\_treatment,be\_in,substance\_abuse\_program,Obj***

***eating-disorder\_psychopathology,be\_elevated\_compare\_to,non-athlete,Obj***

***athlete,be\_require,train\_at\_higher\_intensity\_for\_longer\_period\_of\_time,Obj***

***individual,however\_be\_still\_susceptible\_to,unhealthy\_physical-activity\_pattern,Obj***

***most\_ed\_assessment,norm\_in,non-athlete\_sample,Obj***

***purpose,develop,clinically\_useful\_self-report\_measure\_of\_unhealthy\_training\_behavior,Obj***

***avoidantrestrictive\_food\_intake\_disorder,be,add\_to\_revise\_dsm-5\_Feeding\_in\_2013,Obj***

***severity,presence\_in,clinical\_setting,Obj***

***we,provide,preliminary\_report\_on\_feasibility\_in\_relation\_to\_ARFID,Obj***

***use,have\_become,more\_prevalent,Obj***

***purpose,provide,clinically\_relevant\_update\_of\_recent\_select\_key\_publication\_regard\_use\_of\_atypical\_antipsychotic\_in\_population,Obj***

***damaging\_outcome,reduce,patient\_s\_risk\_of\_social\_drift,Obj***

***we\_study,explore,short-term\_economic\_cost\_of\_fep\_program\_include\_direct\_cost,Obj***

***extensive\_research,find,neuroimaging\_biomarker\_for\_psychiatric\_disorder,Obj***

***neuroimaging,be\_in,primary\_psychiatric\_disorder,Obj***

***reduction,be,key\_pathological\_feature\_associate\_with\_hiv-associated\_neurocognitive\_disorder,Obj***

***hiv\_protein,be\_still\_produce,inhibit\_by\_cart,Obj***

***complement,be\_require\_for,loss,Obj***

***c1qa\_knockout\_mouse,however\_have,same\_level\_of\_tat-induced\_synapse\_loss\_as\_wild-type\_mouse,Obj***

***subcallosal\_cingulate,deep\_stimulation\_of\_be,emerge\_experimental\_therapy\_for\_treatment-resistant\_depression,Obj***

***New\_development,identify,specific\_axonal\_pathway,Obj***

***we,therefore\_use,most\_detailed\_patient-specific\_foundation\_for\_DBS\_modeling\_currently\_available,Obj***

***activation,be\_in,scc\_region,Obj***

***regressor,be\_in,linear\_model\_predict,Obj***

***left\_cb,stimulation\_of\_be,most\_likely\_therapeutic\_target\_for\_scc\_db,Obj***

***recovery\_process,activation\_beyond,critical\_percentage,Obj***

***sex\_difference,be\_prominent\_feature\_of,pathophysiology\_of\_psychiatric\_disorder,Obj***

***preclinical\_study,however\_have\_produce\_result\_due\_to,likely\_various\_methodological\_factor,Obj***

***depression,be\_in,adult\_female\_sprague-dawley\_rat,Obj***

***rat,be,assess,Obj***

***treatment\_effect,use,body\_weight,Obj***

***chronic\_17-estradiol\_treatment,enhance\_object\_recognition\_performance\_compare\_to,ovariectomised\_rat,Obj***

***article,be\_protect\_by,copyright,Obj***

***few\_study,explore,morbidity\_of\_mental\_disorder\_among\_prisoner,Obj***

***purpose,estimate,prevalence\_of\_mental\_disorder\_in\_taiwanese\_prisoner,Obj***

***treatment\_outcome,be\_in,patient\_with\_major\_depressive\_disorder\_treat\_with\_duloxetine\_for\_6\_month,Obj***

***mood\_disorder,be\_associate\_with,significant\_psychosocial,Obj***

***major\_depressive\_disorder,become,second\_lead\_cause\_of\_disability\_worldwide\_by\_2020,Obj***

***exist\_pharmacological\_treatment,target\_dysfunction\_in,mood\_disorder,Obj***

***cognitive\_function,treatment\_with,erythropoietin,Obj***

***neural\_basis,involve,increase\_in\_hippocampal\_volume,Obj***

***molecular\_mechanism,have,have\_propose\_include\_activation\_of\_anti-apoptotic\_signalling\_pathway,Obj***

***aim,describe,potential\_importance\_of\_glycogen\_synthase\_kinase\_3-beta,Obj***

***we,first\_examine,publish\_association\_between\_EPO\_administration,Obj***

***cognitive\_deficit,be\_in,patient\_with\_mood\_disorder,Obj***

***develop\_area,use,pharmacogenetic\_study\_of\_epo\_treatment\_in\_patient\_with\_mood\_disorder,Obj***

***proportion,use\_disorder\_in,low-income\_country,Obj***

***sporadic\_creutzfeldt-jakob\_disease,be\_most\_common\_form\_of,human\_prion\_disease,Obj***

***it,be,invariably\_fatal,Obj***

***key\_event,be\_propagation\_of,beta-sheet\_rich\_conformer\_of\_physiological\_prp,Obj***

***pq912,be,inhibitor,Obj***

***we,report\_on,first\_clinical\_study\_with\_pq912\_in\_subject\_with\_biomarker-proven\_alzheimer\_s\_disease,Obj***

***aim,determine,treatment-related\_pharmacodynamic\_effect,Obj***

***exploratory\_efficacy\_readout,be,tailor\_to\_patient\_population\_with\_early\_ad,Obj***

***therapeutic\_approach,focus,capture\_by\_various\_measure,Obj***

***antipsychotic\_monotherapy,be\_recommend\_as,main\_treatment\_for\_schizophrenia,Obj***

***antipsychotic\_polypharmacy,be\_in,schizophrenia\_treatment,Obj***

***membrane-bound\_nadh-dependent\_redox\_enzyme,anchor\_to,mitochondrial\_outer\_membrane,Obj***

***incurable\_disease,characterize\_by,severe\_encephalopathy\_mental\_retardation,Obj***

***cholesterol\_biosynthesis,be\_conventionally\_link\_with,neurological\_disorder\_of\_type\_ii\_rhm,Obj***

***cyb5r3\_deficiency,have,pleiotropic\_tissue\_effect,Obj***

***its\_role,suggest,role\_in\_modulation\_of\_nitric\_oxide\_diffusion,Obj***

***its\_role,be\_in,aerobic\_metabolism,Obj***

***type\_ii\_rhm,cause\_of\_be,lipid\_metabolism\_disorder,Obj***

***neurological\_symptom,be,cause\_by\_disorder\_in\_synapse\_in\_disturbance\_of\_lipid\_metabolism,Obj***

***homelessness,be,increase\_societal\_issue\_associate\_with\_high\_rate\_of\_substance\_abuse,Obj***

***child,have,considerable\_use\_of\_psychotropic,Obj***

***we,describe,use\_of\_psychotropic\_among\_child\_with\_asd\_in\_Denmark,Obj***

***use,increase,be\_change\_in\_use\_of\_antidepressant,Obj***

***Methylphenidate,be,most\_often\_prescribe,Obj***

***,receive\_treatment\_after,two\_year,Obj***

***use,follow,psychiatric\_comorbidity,Obj***

***use,vary\_with,limited\_use\_in\_youngest\_child,Obj***

***psychotropic\_drug\_use,have\_increase,mainly\_due\_to\_increase\_in\_use\_of\_adhd\_medication,Obj***

***use,seem\_in\_accordance\_with,previous\_study,Obj***

***psychotropic\_drug\_use,be\_in,child\_with\_asd,Obj***

***purpose,determine,contribution\_of\_past\_to\_extent\_of\_opioid\_prescription,Obj***

***death\_anxiety,have,have\_propose\_as\_transdiagnostic\_construct,Obj***

***research,investigate,impact\_of\_intervention\_on\_death\_fear,Obj***

***psychosocial\_treatment,produce,significant\_reduction\_in\_death\_anxiety,Obj***

***therapy\_type,however\_be\_significant\_moderator\_of,treatment\_efficacy,Obj***

***clinical\_sample,be,give\_small\_number\_of\_included\_study\_need,Obj***

***grow\_trend,be\_in,use\_of\_internet\_media,Obj***

***sub-theme,with\_user\_be,site,Obj***

***online\_community,present,clinician\_with\_complex\_treatment\_challenge,Obj***

***Collaborative,therapeutic\_consultation\_about,pro-ana\_website\_use,Obj***

***demoralization,be\_define\_as,pervasive\_generalize\_negative\_emotional\_construct\_present\_in\_psychiatric\_disorder,Obj***

***demoralization,be\_also\_conceptualize\_as,ubiquitous\_affective-laden\_factor,Obj***

***measure,construct\_demoralization\_subscale\_across,revise\_NEO\_Personality\_Inventory,Obj***

***we,cross-validate\_finding\_in,english-speaking\_sample\_of\_patient,Obj***

***we\_result,support,its\_capacity\_account\_for\_demoralization-related\_variance\_in\_neo\_pi-r,Obj***

***presence,be\_in,neo\_pi-r\_item\_pool,Obj***

***cognitive\_deficit,be,hallmark\_feature\_of\_schizophrenia,Obj***

***important\_role,change\_in,prefrontal\_cortex\_function,Obj***

***research,be\_in,human,Obj***

***functional\_ability,relate\_to,cognition,Obj***

***functional\_disability,related\_to,cognition\_from\_that\_attribute\_to\_motor\_symptom,Obj***

***performance-based\_functional\_assessment,allow\_for,direct\_observation\_of\_activity\_of\_daily\_living\_skill,Obj***

***pathogenesis,be\_mediate\_through,infiltration\_of\_perivascular\_macrophage\_into\_brain\_with\_secretion\_of\_viral\_protein,Obj***

***cocaine,further\_potentiate\_and,catb\_neurotoxicity,Obj***

***modulation,increase,oxidative\_species,Obj***

***catb\_secretion,be\_in,macrophage\_expose\_to\_cocaine,Obj***

***pharmacological\_modulation,alter\_and,catb\_secretion\_from\_hiv-1\_infected\_macrophage,Obj***

***hiv-1\_seronegative\_donor,from\_derived-macrophage\_be,mdm,Obj***

***aged\_patient,suffer\_from,high\_risk\_for\_functional\_impairment,Obj***

***systematic\_study,be\_in,later\_life,Obj***

***review,discuss,consequence\_for\_medical\_care\_of\_elderly\_group\_of\_patient,Obj***

***gray\_matter\_volume,be\_in,patient\_with\_functional\_movement\_disorder,Obj***

***hearing-impairment,thus\_represent,vulnerability\_factor\_for\_mental\_disorder,Obj***

***association,explore,cognitive\_benefit\_of\_antithrombotic\_treatment,Obj***

***previous\_research,have\_demonstrate,clinical\_effectiveness\_of\_long-term\_psychological\_treatment\_for\_people\_with\_type\_of\_personality\_disorder,Obj***

***high\_intensity,however\_limit,they\_availability,Obj***

***we,develop,low\_intensity\_intervention\_for\_people\_with\_personality\_disorder,Obj***

***clinical\_high-risk\_state,be\_most\_often\_characterize\_by,subthreshold\_symptom,Obj***

***patient,be\_with,first\_episode\_of\_psychosis,Obj***

***diversity,may\_offer\_value\_as,as\_other\_early\_characteristic\_of\_illness\_onset,Obj***

***bipolar\_disorder,be,severe\_characterize\_by\_substantial\_clinical\_heterogeneity,Obj***

***case-control\_study,however\_often\_ignore,such\_heterogeneity,Obj***

***Citrus\_species,be\_widely\_related\_to,antihyperalgesic\_effect,Obj***

***treatment,cause,possible\_oxidative\_damage\_in\_different\_region\_of\_brain\_induce\_by\_its\_inflammatory\_reaction,Obj***

***antihyperalgesia,be\_investigate\_by,behavioral\_response\_in\_swiss\_mouse,Obj***

***treatment,be\_with,extract,Obj***

***level,be,augment\_in\_colitis-induced\_animal\_in\_relation\_to\_disease\_group,Obj***

***result,indicate,potential\_impairment\_of\_central\_nervous\_system\_function\_cause,Obj***

***purpose,examine\_validity\_in,treatment-seeking\_group\_of\_native\_Americans,Obj***

***interest,be\_in,potential\_of\_methylenedioxymethamphetamine,Obj***

***use,however\_pose,potential\_problem\_of\_neurotoxicity,Obj***

***depression,be\_common\_in,young\_people,Obj***

***study,examine,efficacy\_of\_repetitive\_transcranial\_magnetic\_stimulation\_in\_sample\_of\_young\_people\_aged,Obj***

***antepartum\_depression,be,severe\_psychopathological\_condition,Obj***

***aim,present,selection\_of\_latest\_international\_literature\_include\_recent\_study,Obj***

***update\_information,may\_actually\_enable,management\_of\_disorder\_for\_those,Obj***

***aim,examine\_efficacy\_as,universal\_prevention\_for\_depression\_in\_young\_people,Obj***

***variation,tailor,public\_health\_intervention\_to\_unique\_need\_of\_population,Obj***

***homeless\_population,be\_in,Florida,Obj***

***project,describe,other\_risk\_factor\_among\_homeless\_individual\_in\_Tampa,Obj***

***we,conduct,retrospective\_chart\_review\_on\_adult\_homeless\_patient\_see\_at\_two\_free\_clinic\_site\_operate\_by\_Tampa\_Bay\_Street\_Medicine,Obj***

***Charlson\_Comorbidity\_Index,assess,mortality\_risk,Obj***

***183\_homeless\_patient,be\_in,study,Obj***

***32.2\_,report,alcohol\_use,Obj***

***cci,be\_positively\_associate\_with,age,Obj***

***female,report,higher\_rate\_of\_anemia,Obj***

***mental\_health\_disorder,be,more\_prevalent\_in\_homeless\_population\_than\_in\_general\_population,Obj***

***homeless\_woman,have,higher\_morbidity\_than\_homeless\_man,Obj***

***rate,be\_significantly\_higher,lower\_in\_study\_population\_than\_general\_population,Obj***

***study,underscore,critical\_need\_for\_mental\_health\_initiative,Obj***

***other\_chronic\_psychiatric\_disorder,be\_with,onset\_at\_youth,Obj***

***age,be\_associate\_with,various\_psychosocial\_problem\_with\_potential\_impact\_on\_psychiatric\_pharmacotherapy,Obj***

***epigenetic\_mechanism,be\_biochemical\_alteration\_of,dna,Obj***

***they,regulate,gene\_function,Obj***

***current\_state,be\_summarize\_exemplarily\_for,schizophrenia,Obj***

***epigenetic\_alteration,be\_in,course\_of\_pharmacotherapeutic\_intervention,Obj***

***epigenetic\_mechanism,have\_function\_at,crossroads\_between\_gene,Obj***

***line,be\_with,precision\_medicine\_approach\_epigenetic\_profile,Obj***

***Age,have\_impact\_with,steeper\_slope\_of\_decline,Obj***

***relation,be\_further\_complicate\_in,schizophrenia,Obj***

***antipsychotic-nave\_schizophrenia\_patient,examine,effect\_of\_age\_on\_brain\_measure,Obj***

***we,secondarily\_examine\_lifetime\_cannabis\_use\_as,moderator\_of\_relationship\_between\_age,Obj***

***we,find,age\_effect\_on\_GM\_indicate,Obj***

***study,point\_to,effect\_of\_schizophrenia\_on\_GM\_early\_in\_illness,Obj***

***non-adherence,be\_associate\_with,increase\_rate\_of\_relapse\_among\_patient\_with\_schizophrenia,Obj***

***patient,have,response\_to\_medication\_treatment\_include\_therapeutic,Obj***

***fear,be,prone,Obj***

***caloric,inhibit,return\_of\_fear,Obj***

***present\_study,examine,effect\_fast\_on\_fear\_acquisition,Obj***

***twenty-five,expose\_to,pavlovian\_fear\_conditioning\_paradigm,Obj***

***change,use,enzyme-linked\_immunosorbent\_assay,Obj***

***one-night\_fasting,enhance,fear\_extinction\_retention,Obj***

***procedure,be\_also\_effective\_for,remote\_fear\_memory,Obj***

***plasma\_ghrelin\_level,have,negative\_relationship\_with\_fear\_response\_in\_spontaneous\_recovery\_test,Obj***

***fasting,influence,fear\_memory\_formation,Obj***

***novel\_procedure,promote,extinction-based\_therapy\_for\_fear-related\_disorder,Obj***

***evidence,be\_with,different\_profile\_of\_efficacy\_in\_childrenadolescents,Obj***

***we,also\_discuss,key\_priority\_for\_future\_research\_in\_each\_of\_area\_of\_investigation,Obj***

***many\_research\_question,have,have\_answer,Obj***

***large\_datum\_set,be\_in,spirit\_of\_Open\_Science,Obj***

***care-seeking,be\_limit\_by,embarrassment,Obj***

***recent\_advance,be\_in,statistical\_method,Obj***

***innovation,emerge\_at,Department\_of\_Veterans\_Affairs\_hospital,Obj***

***Schizophrenia,be\_serious\_chronic\_mental\_illness,result\_in\_marginalization\_for\_sufferer,Obj***

***it,be\_seventh\_lead\_cause\_worldwide\_for,disability,Obj***

***barrier,access,employment,Obj***

***little,be\_know\_about,end-of-life\_care\_for\_individual\_with\_schizophrenia,Obj***

***scop\_review,enhance,understanding\_of\_hospice\_for\_patient\_with\_schizophrenia,Obj***

***issue,relate\_to,consent\_patient\_end-of-life\_care\_decision,Obj***

***review,suggest,importance\_of\_mandatory\_interdisciplinary\_training\_practice,Obj***

***it,enable,provision\_of\_quality\_end-of-life\_care\_for\_individual\_with\_schizophrenia,Obj***

***aim,examine,difference\_in\_characteristic\_of\_104\_woman\_diagnose\_with\_compulsive\_buying\_behaviour\_treat\_at\_three\_public\_hospital\_unit\_specialize\_in\_addiction\_from\_January\_2004\_to\_December\_2015,Obj***

***significant\_between-group\_difference,be,observe\_for\_cohabitation\_status\_with\_percentage,Obj***

***scientific\_knowledge,of\_body\_be,method\_assess\_from\_they\_own\_perspective,Obj***

***frontier,recently\_have\_expand\_to,productive\_development,Obj***

***we,present,overview\_of\_current\_state\_of\_discipline,Obj***

***live\_space,live\_intersubjectivity\_attime,live\_time,Obj***

***psychopathological\_symptom,be\_expression\_of,dialectical\_modification\_of\_proportion\_of\_certain\_domain\_of\_life-world\_of\_live\_experience,Obj***

***far-reaching\_relevance,be,explore,Obj***

***article,present,two\_contemporary\_model\_for\_clinical\_practice,Obj***

***main\_characteristic,new\_perspective,they\_bring\_to\_challenge\_of\_psychiatric\_care\_in\_twentieth-first\_century,Obj***

***common\_mental\_health\_problem,be\_internalize\_disorder\_with,high\_comorbidity,Obj***

***cmhp,be\_at,when\_they\_developmental\_peak,Obj***

***intervention,examine,effect\_of\_intervention\_for\_cmhp\_in\_college\_student,Obj***

***meta-analysis,systematic\_review\_of,randomize\_controlled\_trial,Obj***

***meta-analytic\_procedure,be\_conduct\_in\_accordance\_with,PRISMA\_guideline,Obj***

***we,find,moderate\_effect\_size\_for\_depression,Obj***

***other\_intervention,have,highest\_es\_for\_depression\_among\_university\_student,Obj***

***Epilepsy,propose,diagnostic\_scheme\_for\_psychogenic\_nonepileptic\_seizure,Obj***

***management,might\_differ\_accord\_to,age\_group,Obj***

***Child\_Sexual\_abuse,be,press\_human\_right\_issue,Obj***

***we,conduct,systematic\_review\_of\_quantitative\_study\_publish\_in\_past\_decade\_on\_CSA\_in\_India,Obj***

***purpose,explore,clinical\_nurse\_specialist\_\_view\_of\_potential\_influence\_of\_mental\_health\_portal\_on\_nursing\_practice,Obj***

***alcohol\_withdrawal,be\_in,acute\_care\_patient,Obj***

***content\_validity,assess,nurse\_usability,Obj***

***Assessment,be\_in,people\_with\_neurosychiatric\_disorder,Obj***

***Tool,be,observational,Obj***

***pregnancy,represent,time\_of\_increase\_risk\_for\_intimate\_partner\_violence,Obj***

***n,,12\_hiv-positive\_pregnant\_woman\_recruit\_from\_clinical\_setting\_in\_South\_Africa,Obj***

***Partner\_dynamics,result\_in,hiv\_shame,Obj***

***result,engage\_in,context\_of\_abusive\_relationship,Obj***

***va\_reliance,vary\_by,complexity\_of\_bhc,Obj***

***aim,review,evidence\_on\_cost-effectiveness\_of\_intervention\_in\_treatment\_of\_chronic\_condition\_decade\_after\_publication\_of\_Roine\_et\_al.\_in\_2009,Obj***

***limited\_number,treat,Alcohol\_Use\_disorder,Obj***

***magnitude,be,furthermore\_relatively\_modest,Obj***

***use,be\_also\_limit\_in,clinical\_practice,Obj***

***animal\_study,have,in\_recent\_year\_have\_conduct,Obj***

***prevalence\_rate,rise\_in,U.S.,Obj***

***Food\_addiction,reflect,individual\_s\_propensity\_for\_compulsive\_eating,Obj***

***polygenic\_score,approximate\_dopamine\_signaling\_in,115\_non-hispanic\_caucasian\_young\_adult\_university\_student,Obj***

***polygenic\_dopamine\_score,be\_relate,predict,Obj***

***food\_addiction,be,in\_addition\_relate\_to\_BMI,Obj***

***polygenic\_score,be,indirectly\_related\_to\_food\_addiction\_in\_part\_through\_ventral\_striatum\_activity,Obj***

***evidence,support,utility\_of\_food\_addiction\_in\_weight\_gain\_prevention\_research,Obj***

***untreated\_mental\_disorder,can\_lead\_to,outcome,Obj***

***half,begin\_by,age\_14\_of\_lifetime\_case\_present\_by\_age\_24,Obj***

***early\_intervention,may\_decrease,financial\_burden\_associate\_with\_mental\_illness,Obj***

***atypical\_antipsychotic,be,highly\_effective,Obj***

***treatment,be\_with,most\_commonly\_prescribe\_atypical\_antipsychotic\_olanzapine,Obj***

***circulate\_insulin,be\_in,drug-naive\_schizophrenic\_patient\_with\_normal\_mif\_expression,Obj***

***hypothalamic\_mif\_expression,lead\_to,activation\_of\_appetite-related\_amp-activated\_protein\_kinase,Obj***

***Olanzapine,also\_upregulate,mif\_expression,Obj***

***increase\_plasma\_lipid\_concentration,be,associate,Obj***

***mouse,support,role\_of\_increase\_hypothalamic\_mif\_expression\_in\_metabolic\_dysfunction,Obj***

***finding,uphold,potential\_pharmacogenomic\_value\_of\_MIF\_genotype\_determination,Obj***

***health-based\_electronic\_game,present,innovative\_tool\_deal\_with\_mental\_disorder,Obj***

***design\_game,can\_optimize,health\_care,Obj***

***aim,establish,design\_for\_health-based\_electronic\_game\_model,Obj***

***health-based\_electronic\_game\_framework,of\_design\_be,design,Obj***

***determination,be\_in,model\_of\_behavior\_change,Obj***

***game\_framework\_design,be,present,Obj***

***sample,be,in\_second\_phase\_develop\_in\_field\_of\_diabetes,Obj***

***important\_component,empower,people,Obj***

***axis,receive,highest\_rating\_from\_perspective\_of\_subject,Obj***

***application\_area,content\_for,change\_behavior,Obj***

***sweet\_care\_game,finally\_be\_design\_on,diabetes\_with\_educational\_content,Obj***

***health-based\_electronic\_game,could,could\_apply,Obj***

***anxiety-related\_disorder,be\_common\_in,child,Obj***

***they,frequently\_present\_in,general\_paediatric,Obj***

***Comprehensive\_assessment,should\_include\_parent\_functioning,common,Obj***

***medication,be\_use\_in,context\_of\_psychologically\_base\_therapy,Obj***

***anxiety-related\_disorder,prevention\_of\_be,major\_public\_health\_issue,Obj***

***Prevention\_programme,commence\_adolescence\_in,antenatal\_period,Obj***

***Aggression,be,common\_transdiagnostic\_symptom\_associate\_with\_wide\_range\_of\_developmental\_health\_problem,Obj***

***without,increase\_in,severity,Obj***

***aggressive\_child,experience\_unemployment\_as,adult,Obj***

***education,be\_in,utero\_exposure\_to\_tobacco,Obj***

***aggressive\_child,understand,reason\_for\_aggressive\_behaviour,Obj***

***pharmacotherapy,treat,underlying\_developmental\_health\_problem,Obj***

***approve\_thiol-containing\_redox\_modulatory\_compound,be\_in,trial\_for\_many\_neurological\_disorder,Obj***

***its\_site,poor\_understanding\_of\_be,barrier\_to\_its\_use\_in\_neurological\_practice,Obj***

***we,here\_examine,efficacy\_of\_action\_of\_nac\_in\_rodent\_model\_of\_hemorrhagic\_stroke,Obj***

***disabling\_condition,be\_in,world,Obj***

***patient,suffer\_with,depressive\_disorder,Obj***

***field,focus\_invasively\_and\_noninvasively\_to,interface\_with\_alter\_activity\_within\_human\_brain\_for\_therapeutic\_purpose,Obj***

***appropriate\_clinical\_application,be,essential\_for\_modern\_psychiatrist,Obj***

***such\_treatment,be\_currently\_approve\_by,United\_States\_Food,Obj***

***numerous\_other\_neurostimulation\_modality,show,promise,Obj***

***common\_mental\_health\_problem,affect,quarter\_of\_population,Obj***

1. ***Report the origin of entities and predicates, example : Entity1 belongs to Abstract 1.***

|  |  |
| --- | --- |
| 1. Abstract1 | general\_practitioner  cornerstone  preliminary\_result  New\_digital\_technology  access  cognitive-behavioural\_therapy  significant\_room  isolate\_disease  syndrome  apomorphine  its\_use  dopaminergic\_agonist  apomorphine  connection  structure  we  progressive\_neuropathic\_change  benefit  experience  study |
| Abstract2 | physical\_activity  Accredited\_Exercise\_Physiologists  early\_intervention  General\_practitioner  Species,patient  psychiatric\_outpatient\_clinic  this  long-term\_health-related\_quality  Disease,anorexia\_nervosa  long-term\_prognosis  family  therapy  objective  talk\_therapy  treatment\_utilization  therapy |
| Abstract3 | we  depression\_patient  resting-state\_functional\_magnetic\_resonance\_imaging  functional\_connectivity\_strength  fcs  change\_fcs  ECT  Disease,anxiety\_disorder  they  deveau  author  they  implication  future\_research  positive\_aspect\_use  most\_college\_student  it  lithium  lithium  we  we  finding  lithium  validation |
| Abstract4 | we  first\_evidence  brief\_Services\_psychotherapy\_paradigm  its\_clinical\_evaluation  individual  quality  nih-funded\_randomize\_clinical\_trial  dysregulation  alteration  we  we  Study\_quality  twenty-five\_study  biomarker\_assessment\_methodology  meta-analytical\_computation  Study\_characteristic  biomarker\_confounder\_consideration\_rating |
| Abstract5 | we  literature  improving\_communication  communication  second-level\_intervention  disorder  assist\_outpatient\_treatment  goal  Parkinson\_s\_disease  molecular\_imaging  chapter  we  hiv-1-infected\_patient  suicide\_rate  study  datum  Species,patient  severity\_indicator  related\_symptom  difficulty  mental\_health\_treatment  eating-disorder\_psychopathology  athlete  individual  most\_ed\_assessment  purpose  avoidantrestrictive\_food\_intake\_disorder  severity |
| Abstract6 | we  use  purpose  damaging\_outcome  we\_study  extensive\_research  neuroimaging  reduction  hiv\_protein  complement  c1qa\_knockout\_mouse  subcallosal\_cingulate  New\_development  we  activation  regressor  left\_cb  recovery\_process  sex\_difference  preclinical\_study  Disease,depression  rat  treatment\_effect  chronic\_17-estradiol\_treatment  article  few\_study |
| Abstract7 | purpose  treatment\_outcome  Disease,mood\_disorder  Disease,major\_depressive\_disorder  exist\_pharmacological\_treatment  cognitive\_function  neural\_basis  molecular\_mechanism  aim  we  Disease,cognitive\_deficit  develop\_area  proportion  sporadic\_creutzfeldt-jakob\_disease  it  key\_event  pq912  we  aim  exploratory\_efficacy\_readout  therapeutic\_approach  antipsychotic\_monotherapy  antipsychotic\_polypharmacy  membrane-bound\_nadh-dependent\_redox\_enzyme  incurable\_disease  cholesterol\_biosynthesis |
| Abstract8 | cyb5r3\_deficiency  its\_role  its\_role  type\_ii\_rhm  neurological\_symptom  homelessness  Species,child  we  use  Methylphenidate  use  use  psychotropic\_drug\_use  use  psychotropic\_drug\_use  purpose  death\_anxiety  research  psychosocial\_treatment  therapy\_type  clinical\_sample  grow\_trend  sub-theme  online\_community  Collaborative  demoralization  demoralization  measure |
| Abstract9 | we  we\_result  presence  Disease,cognitive\_deficit  important\_role  research  functional\_ability  functional\_disability  performance-based\_functional\_assessment  pathogenesis  cocaine  modulation  catb\_secretion  pharmacological\_modulation  hiv-1\_seronegative\_donor  aged\_patient  systematic\_study  review  gray\_matter\_volume  hearing-impairment  association  previous\_research  high\_intensity  we  clinical\_high-risk\_state  Species,patient  diversity  Disease,bipolar\_disorder  case-control\_study  Citrus\_species  treatment  antihyperalgesia  treatment  level  result  purpose  interest  use  Disease,depression  study  antepartum\_depression  aim  update\_information  aim  variation  homeless\_population  project |
| Abstract10 | we  live\_space  psychopathological\_symptom  far-reaching\_relevance  article  main\_characteristic  common\_mental\_health\_problem  cmhp  intervention  meta-analysis  meta-analytic\_procedure  we  other\_intervention  Epilepsy  management  Child\_Sexual\_abuse  we  purpose  alcohol\_withdrawal  content\_validity  Assessment  Tool  pregnancy  n  Partner\_dynamics  result  va\_reliance  aim  limited\_number  magnitude  use  animal\_study  prevalence\_rate  Food\_addiction  polygenic\_score  polygenic\_dopamine\_score  Disease,food\_addiction  polygenic\_score  evidence  untreated\_mental\_disorder  half  early\_intervention |
| Abstract11 | atypical\_antipsychotic  treatment  circulate\_insulin  hypothalamic\_mif\_expression  Olanzapine  increase\_plasma\_lipid\_concentration  mouse  finding  health-based\_electronic\_game  design\_game  aim  health-based\_electronic\_game\_framework  determination  game\_framework\_design  sample  important\_component  axis  application\_area  sweet\_care\_game  health-based\_electronic\_game  anxiety-related\_disorder  they  Comprehensive\_assessment  medication  anxiety-related\_disorder  Prevention\_programme  Aggression  without  aggressive\_child  education  aggressive\_child  pharmacotherapy  approve\_thiol-containing\_redox\_modulatory\_compound  its\_site |
| Abstract12 | we  disabling\_condition  Species,patient  field  appropriate\_clinical\_application  such\_treatment  numerous\_other\_neurostimulation\_modality  common\_mental\_health\_problem  gp  psychosomatic\_specialist\_consultation\_in\_gp\_s\_office  high\_level\_of\_acceptance\_among\_patient  provider  real\_world  treatment\_of\_choice\_for\_generalised\_anxiety\_disorder  especially\_recovery  older\_adult  mortality  non-specific  Parkinson\_s\_disease  related  literature  cognitive\_behavior\_like\_learning  could\_compromise\_by\_effect\_of\_apomorphine  latest\_information\_about\_its\_effect\_on\_hippocampus  recent-onset\_schizophrenia  mechanism\_involve  numerous\_way |
| Abstract13 | they\_difficult\_experience  physical\_health\_across\_mental\_disorder  people\_with\_mental\_illness  lower\_incidence\_of\_relapse  primary\_health\_care  somatic\_complaint  deal\_with\_patient  should\_evaluate  patient\_with\_systemic\_lupus\_erythematosus\_receive  characterise  severe\_developmental\_complication  treatment  basis\_of\_dominant\_family\_system\_theory  neonatal\_outcome\_include\_gestational\_age  anxiety\_in\_adult\_with\_autism\_spectrum\_disorder  adult  effective  effect\_of\_ECT\_on\_functional\_connectivity\_of\_brain\_hub\_in\_depression\_patient  in\_current\_study\_assess\_at\_three\_time\_point  clinical\_symptom  brain\_hub  ECT  1\_month\_after\_completion\_of\_ECT  functional\_connectivity\_of\_left\_angular\_gyrus  most\_frequently\_diagnose\_mental\_health\_problem\_among\_american\_college\_student  mentalcognitive\_disability\_arise  type\_of\_EDT\_student  research\_indicate  they\_anxiety  continue  peer\_run\_technology\_group\_teach\_by\_interested\_student  would\_topic\_for\_group\_discussion  part\_of\_they\_life  they |
| Abstract14 | mainstay\_treatment\_in\_bipolar\_disorder\_for\_its\_effectiveness\_in\_acute\_phase\_of\_illness\_in\_prevention\_of\_recurrence  mechanism\_of\_action  integrate\_analytical\_approach  effect\_of\_treatment\_with\_lithium\_chloride\_1\_mm\_on\_transcriptome\_of\_lymphoblast  gene-based\_analysis\_on\_genome-wide\_genotyping\_datum\_from\_extended\_sample\_of\_205\_bd\_patient\_characterize\_for\_lithium\_response  LR  quantitative\_real-time\_polymerase\_chain\_reaction  convergent\_analysis\_of\_genome-wide\_expression  involvement\_of\_zinc\_finger\_protein\_in\_lithium\_response  child\_s\_mental\_health  still\_its\_infancy  serious\_mental\_illness\_such\_schizophrenia  life  effectiveness\_of\_group\_lifestyle\_intervention\_enhance\_with\_mobile\_health\_technology  have\_associate\_with\_development\_of\_various\_mental\_disorder  course\_of\_psychotherapy  comprehensive\_review\_of\_psychotherapeutic\_intervention\_effect\_on\_hpa\_axis\_in\_adult\_sample\_with\_mental\_disorder  four\_database\_for\_psychotherapeutic\_intervention\_study\_with\_mentally\_ill\_patient\_sample  examine  include  study  unfeasible |
| Abstract15 | comprehensively\_review  strong  comparability\_of\_psychotherapeutic\_treatment\_effect  adult\_with\_high-functioning\_autism  disorder  information\_in\_different\_format\_aim  intervention  user\_\_naturalistic\_environment  outpatient\_court-ordered\_treatment\_for\_people\_in\_part\_to\_treatment\_non-adherence  update\_on\_recent\_research  motor\_symptom  we\_knowledge\_of\_mechanism\_involve\_in\_development\_of\_behavioral\_addiction  association\_with\_development\_of\_addictive\_behavior\_in\_pd\_include\_role\_of\_dopaminergic\_medication  neurobiology\_of\_addictive\_behavior  milder\_form\_of\_hiv-1-associated\_neurocognitive\_disorder  past\_several\_decade  risk\_factor\_for\_first-onset\_si\_among\_high-risk\_group  National\_Treatment\_Improvement\_evaluation\_study  lifetime\_history\_of\_suicide\_attempt  evaluate\_as\_prospective\_predictor\_of\_first-onset\_SI\_in\_linear\_regression\_model  current\_mental\_health  importance\_of\_treatment\_accessibility  substance\_abuse\_program  non-athlete  train\_at\_higher\_intensity\_for\_longer\_period\_of\_time  unhealthy\_physical-activity\_pattern  non-athlete\_sample  clinically\_useful\_self-report\_measure\_of\_unhealthy\_training\_behavior  add\_to\_revise\_dsm-5\_Feeding\_in\_2013  clinical\_setting  preliminary\_report\_on\_feasibility\_in\_relation\_to\_ARFID  more\_prevalent  clinically\_relevant\_update\_of\_recent\_select\_key\_publication\_regard\_use\_of\_atypical\_antipsychotic\_in\_population |
| Abstract16 | patient\_s\_risk\_of\_social\_drift  short-term\_economic\_cost\_of\_fep\_program\_include\_direct\_cost  neuroimaging\_biomarker\_for\_psychiatric\_disorder  primary\_psychiatric\_disorder  key\_pathological\_feature\_associate\_with\_hiv-associated\_neurocognitive\_disorder  inhibit\_by\_cart  loss  same\_level\_of\_tat-induced\_synapse\_loss\_as\_wild-type\_mouse  emerge\_experimental\_therapy\_for\_treatment-resistant\_depression  specific\_axonal\_pathway  most\_detailed\_patient-specific\_foundation\_for\_DBS\_modeling\_currently\_available  scc\_region  linear\_model\_predict  most\_likely\_therapeutic\_target\_for\_scc\_db  critical\_percentage  pathophysiology\_of\_psychiatric\_disorder  likely\_various\_methodological\_factor  adult\_female\_sprague-dawley\_rat  assess  body\_weight  ovariectomised\_rat  copyright  morbidity\_of\_mental\_disorder\_among\_prisoner  prevalence\_of\_mental\_disorder\_in\_taiwanese\_prisoner  patient\_with\_major\_depressive\_disorder\_treat\_with\_duloxetine\_for\_6\_month  significant\_psychosocial  second\_lead\_cause\_of\_disability\_worldwide\_by\_2020  Disease,mood\_disorder |
| Abstract17 | erythropoietin  increase\_in\_hippocampal\_volume  have\_propose\_include\_activation\_of\_anti-apoptotic\_signalling\_pathway  potential\_importance\_of\_glycogen\_synthase\_kinase\_3-beta  publish\_association\_between\_EPO\_administration  patient\_with\_mood\_disorder  pharmacogenetic\_study\_of\_epo\_treatment\_in\_patient\_with\_mood\_disorder  low-income\_country  human\_prion\_disease  invariably\_fatal  beta-sheet\_rich\_conformer\_of\_physiological\_prp  inhibitor  first\_clinical\_study\_with\_pq912\_in\_subject\_with\_biomarker-proven\_alzheimer\_s\_disease  treatment-related\_pharmacodynamic\_effect  tailor\_to\_patient\_population\_with\_early\_ad  capture\_by\_various\_measure  main\_treatment\_for\_schizophrenia  schizophrenia\_treatment  mitochondrial\_outer\_membrane  severe\_encephalopathy\_mental\_retardation  neurological\_disorder\_of\_type\_ii\_rhm  pleiotropic\_tissue\_effect  role\_in\_modulation\_of\_nitric\_oxide\_diffusion  aerobic\_metabolism  lipid\_metabolism\_disorder |
| Abstract18 | cause\_by\_disorder\_in\_synapse\_in\_disturbance\_of\_lipid\_metabolism  increase\_societal\_issue\_associate\_with\_high\_rate\_of\_substance\_abuse  considerable\_use\_of\_psychotropic  use\_of\_psychotropic\_among\_child\_with\_asd\_in\_Denmark  be\_change\_in\_use\_of\_antidepressant  most\_often\_prescribe  two\_year  psychiatric\_comorbidity  limited\_use\_in\_youngest\_child  mainly\_due\_to\_increase\_in\_use\_of\_adhd\_medication  previous\_study  child\_with\_asd  contribution\_of\_past\_to\_extent\_of\_opioid\_prescription  have\_propose\_as\_transdiagnostic\_construct  impact\_of\_intervention\_on\_death\_fear  significant\_reduction\_in\_death\_anxiety  treatment\_efficacy  give\_small\_number\_of\_included\_study\_need  use\_of\_internet\_media  site  clinician\_with\_complex\_treatment\_challenge  pro-ana\_website\_use  pervasive\_generalize\_negative\_emotional |
| Abstract19 | \_construct\_present\_in\_psychiatric\_disorder  ubiquitous\_affective-laden\_factor  revise\_NEO\_Personality\_Inventory  english-speaking\_sample\_of\_patient  its\_capacity\_account\_for\_demoralization-related\_variance\_in\_neo\_pi-r  neo\_pi-r\_item\_pool  hallmark\_feature\_of\_schizophrenia  prefrontal\_cortex\_function  Species,human  cognition  cognition\_from\_that\_attribute\_to\_motor\_symptom  direct\_observation\_of\_activity\_of\_daily\_living\_skill  infiltration\_of\_perivascular\_macrophage\_into\_brain\_with\_secretion\_of\_viral\_protein  catb\_neurotoxicity  oxidative\_species  macrophage\_expose\_to\_cocaine  catb\_secretion\_from\_hiv-1\_infected\_macrophage  mdm  high\_risk\_for\_functional\_impairment  later\_life  consequence\_for\_medical\_care\_of\_elderly\_group\_of\_patient  patient\_with\_functional\_movement\_disorder  vulnerability\_factor\_for\_mental\_disorder  cognitive\_benefit\_of\_antithrombotic\_treatment  clinical\_effectiveness\_of\_long-term\_psychological\_treat |
| Abstract20 | we  Charlson\_Comorbidity\_Index  183\_homeless\_patient  32.2\_  cci  female  mental\_health\_disorder  homeless\_woman  rate  study  other\_chronic\_psychiatric\_disorder  age  epigenetic\_mechanism  they  current\_state  epigenetic\_alteration  epigenetic\_mechanism  line  Age  relation  antipsychotic-nave\_schizophrenia\_patient  we  we  study  non-adherence  Species,patient  fear  caloric  present\_study  twenty-five  change  one-night\_fasting  procedure  plasma\_ghrelin\_level  fasting  novel\_procedure  evidence  we  many\_research\_question  large\_datum\_set  care-seeking  recent\_advance  innovation  Schizophrenia  it  barrier  little  scop\_review  issue  review  it  aim  significant\_between-group\_difference  scientific\_knowledge  frontier |

1. ***Report common and unique entities and predications among the Topics / Abstracts***

***{ Make sure the comparison is meaningful }***

**Submission Guidelines (for all students):**

1. Submit your source code to GitHub.
2. Submit your documentation (submit your screenshots as well. The screenshot should have both the code and the output) to your Turnitin.
3. Comment your code appropriately.
4. Use the following google link to submit your assignment

(Lab Submission Link#) : https://goo.gl/forms/MP2n7LQGmm2atsZo2

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