SUMMARY, CONCLUSION, RECOMMENDATIONS AND FUTURE SCOPE OF RESEARCH WORK

4.1 SUMMARY

Sickle cell frailty is autosomal passive hemoglobin issue with phenotype variety. In this hemoglobin issue some sickle cell patients have continuous vaso-impediment and difficulties while others have minimal influenced by sickle cell and have ordinary life. Along these lines it is by all accounts a noteworthy worldwide wellbeing issue that introduces significant difficulties to our social insurance frameworks. There is undoubtedly about that, there is greatly requirement for more government funded instruction, directing and mindfulness on sickle cell frailty in India particularly tribal parts of nation. In examination with other endless infections and hemoglobinopathies, sickle cell weakness stays one of slightest comprehended and befuddling restorative conditions by medicinal services specialists and overall public. The principle objective of current study is to bolster legislature from remotely to control hemoglobin issue sickle cell sickness. The rationale of poll based study was to produce a pilot scale database on how much understudies fitting in with common range are mindful or uninformed. From this study government will get a thought regarding current status of understudies’ mindfulness and what in future should be possible and how to get ready for legitimate making mindfulness when all is said in done populace. This proceeds with exertion in sickle cell look into on youth will likewise get another course for control. The survey was in view of fundamental general data appraisal from understudies so no mental anxiety included.

Just about 250 million people for occurrence 4.5% of world masses is transporters and practically 3, 00,000 infants are considered with a foremost hemoglobinopathies reliably. The high repeat of sickle cell quality in particular areas prompts a high origination rate of homozygotes. In this way sickle cell iron insufficiency speak to around seventy rates of general hemoglobin issue. 21Almost 60 million transporters of sickle cell and 1, 20000 sickle cell homozygotes are incorporated reliably in world. 21Every 1 in 50 is carrier for sickle cell sickliness. There was 1, 86,096 sickle cell whiteness cases indicate in
Indian subcontinent according to one estimate. Considering 1981 count figures of people in India, it was assessed that there were 24, 34,170 sickle cell quality and 1, 21,375 sickle cell disease patients among tribes in India. Based on transcendence rates of sickle cell hemoglobin, it was evaluated that there were more than 50, 00,000 persons bearers/sickle cell trademark and two lakhs homozygous/sickle cell illness cases among tribal's isolated from others in India. In any case, if we look at 2011 count 1, 78, 62,455 are conveyor/sickle cell quality and 13, 39,684 sickle cell homozygotes/sickle cell disorder amongst tribes in India. The persons plague with sickle cell are generally tender to appropriately undernourished, weak to illnesses especially to powerful diseases, which incite high dismalness and mortality. The onset of age at menarche is put off for one to three years in homozygous sickle cell tormented young women, dependent upon wholesome status, parasitic infestations, and other assail conditions. The illustration of death in persons who have sickle cell fragility is bimodal, with first top incident in youth and second occurrence in people in their late 30s. Passings in midst of youth are related to compelling reasons, while those in midst of adulthood are a result of organ disillusionment from reiterated tissue destruction.

The sickle-cell quality has get opportunity to be normal in Africa in light of fact that sickle-cell trademark exhibits some impenetrability to parasites falciparum wilderness fever in midst of a segregating time of right on time youth, favoring survival of host and resulting transmission of peculiar hemoglobin quality. Despite way that a singular uncommon quality may secure against intestinal infection, legacy of two interesting qualities prompts sickle-cell iron insufficiency and gives no such confirmation, and wilderness fever is a foremost explanation behind debilitated wellbeing and end in children with sickle-cell whiteness. Expanding affirmation wilderness fever effects come about and in addition changes indications of sickle-cell iron inadequacy in Africa. As should be obvious, ranges where intestinal sickness is available and sickle cell allele is available are covering. It is obscure why individuals with sickle cell quality are impervious to jungle fever yet there are a few hypotheses:
The transporters of sickle cell have some unusual hemoglobin and when they interact with jungle fever parasite they get to be sickle. At that point those sickle cells experience spleen which disposes of sickle cells due to their sickle shape so intestinal sickness parasites additionally would be dispensed with too. The sickle cell quality causes jungle fever to stay in body for a developed time of time so it has capacity develop a guard to it. As amassing of oxygen is low in spleen and tainted cells regularly get caught in spleen so it may be conceivable that they are demolished in spleen. The intestinal sickness parasite delivers a corrosive when it is within red platelets. This corrosive creation causes red platelets to polymerize and state of cells will get to be sickle. These sickle cells are then crushed when platelets experience spleen.

It is fascinating to note that sickle cell patients in India don't demonstrate extreme clinical signs not at all like and can survive. The purpose behind above may be communication of α-Thalassemia with sickle cell illness, high fetal hemoglobin level and upkeep of life at low level of hemoglobin, and so forth is dependable. On other hand, some sickle cell quality cases those are generally simply like typical, yet indicate extreme clinical appearances and are subject to blood transfusion. This demonstrates heterogeneity of sickle cell ailment in India. By and large normal life compass of sickle cell sickness patient speaks truth 20 years as against ordinary life compass of 50 years of sickle cell characteristic. It is shocking that newborn child/neonatal death rate is right around three times higher in sickle cell bearer folks (80.3) than in typical (26.7) folks per 1000 live births. The neonatal mortality per mother is four times higher in sickle cell transporter couples than in ordinary couples.

These discoveries are inconvenient to descendants of sickle cell attribute couples and are significantly adding to high neonatal or baby death rate in India. It was first run through, studies have uncovered that innate reasons, aside from non hereditary variables, are additionally in charge of high neonatal/newborn child mortality in India. Infant death rate of Indian (national) normal of 60 in year 2003. High level of conjugal association, standing/class and topographical endogamy, absence of restorative offices, psycho-social biases, certain nonsensical conventions and convictions irritating wholesome status and
wellbeing, substantial expense of treatment, poor economy, backwardness in all circles of life are a percentage of remarkable components of these helpless individuals in India. In any case, a joint endeavor of antenatal consideration and inductive screening is by all accounts most productive methodology for hemoglobinopathies in India. A coordinated national preventive and administration wellbeing strategy for hemoglobinopathies in India are more than once over emphasized. Unless region based and need particular social insurance methodology is advanced which would be suitable, sufficient, simple to get to, and sensible, objective of wellbeing for all will remain optimistic dream in India.

The study involved basic questions like awareness on blood group, awareness on sickle cell anemia, its prevalence rate, contingency, average life span of patients, preventive measures, and awareness on autosomal nature of disease and current government facilities provided to hemoglobin disorder sickle cell anemia. Therefore awareness on hemoglobin disorder sickle cell anemia by communicating via person to person and student to student would be created and it helps in spreading awareness in community also. Students of higher secondary schools are at prime age for understanding basic information about disease and also importance of genetic and premarital counseling session. For any stress free survey, most important perspective is ethical perspective, so to be clear in that, students are asked to sign on informed consent so that to clarify that there is no mental stress or compulsion is being made to carry out survey. One awareness lecture conducted on sickle cell anemia for complete detail and basic information and understanding about disease. In addition, a poster and leaflet is also given to all schools for continues awareness in students. All questionnaire data entered into graph pad database and coded by using a numerical system. The questionnaire contained categories of race identification for participants to identify: 1) open 2) other backward class and 3) schedule tribe and schedule backward class. Gender was coded as 1) male and 2) female. Age was mentioned by students in filling blank. Frequency tables, cross tabulation and chi-square tests used to evaluate variation in currently existing sickle cell anemia knowledge among students and statistically significant p value (p=0.05)
used to determine variation in response rates. The chi square test used to group students response rates by gender.

It is always said that work done for doctorate degree should be always focused towards how beneficial it will be for population. So, this initiative is mainly design to be helpful to society by creating awareness. Awareness can always be very handy tool to control any problems. Other countries are already emphasizing on screening and education on sickle cell anemia, than our country can also do such initiatives. The simple reason for justification of topic of research is working on disease on which even our government also focusing and performing various activities to control it. Awareness program can draw attention of population where disease is prevalent. Thorough awareness program can guide to patient and guardians to manage sickle cell complication in emergencies. If by spreading awareness thorough proper step by step plan and implementation, day will come when other countries will be following same to support their healthcare system to fight against hemoglobin disorder sickle cell anemia.

By assessing awareness positive message can be convey to all schools and people that healthcare system by community pharmacist are still working with selfless motives. Secondary on regular assessment of such things students also encouraged to participate in such activities. By assessing awareness a proper idea about perception of students living in prevailing areas can also be obtained. The point which justifies this research is a community pharmacist with active participation can bring a massive change in awareness on health. In recent times even our prime minister of India emphasizing on awareness and use of social media to enhance public awareness, current study also being a part of such activity in developing India. The involvement of such important topics in study will become a boon for all tribal students because, it's important for them as very few of them only go for higher education.

In recent times we know that it is not so difficult to encourage people to accept a new practice because psychological perception of population is changing. Various systematic efforts through social, political, technological or
psychological way can be implemented to bring such new practice. One such good example through political point of view is *Swachata Abhiyaan*. Every person has perception which guides action. Many villages and population and community do not have a link between health and current sanitary practices and therefore there is no reason to modify such practices. It is unbeatable truth that sickle cell anemia is a social liability now especially in tribal areas. To control spreading of such disease and prevention is not only responsibility of government and doctors and research scientist but it is responsibility of each and every member of pharmacy field and also every members of society. Because generally in rural as well as in urban area majority were in opinion that it is responsibility of health personal only. As large number of education of sexually transmitted disease were being implemented in schools worldwide same way education on sickle cell and hemoglobinopathies can be implemented.

The destinations, legitimate structure, length and substance, fitting usage methodology & different qualities may be on pilot scale yet need to plan for legitimate sickle cell and other hemoglobin issue. For sickle cell patients’ special laws, policies, institutions, social arrangements can influence ability of sickle cell control program. Starting late, more thought ought to be paid on options of changing social course of action for sickle cell iron inadequacy neutralizing activity. The decisions may call social systems, social interventions and normal mediations. The tries apply to make social conditions and care in people which support wellbeing headway & danger diminishment can wind up being fruitful in better places. If awareness program run simultaneously with government screening program, in all colleges and school than real impact about surveillance and health education on sickle cell anemia will be possible. Aware 3 group is designed by research scholar and providing platform to perform essential role as community pharmacist. The mission is spread awareness chain and achieve healthy India by 2020. The vision is very clear healthy India can make wealthy India. As we know day by day quality of life by population is decreases and prevalence of number of new disease are increasing. Sickle cell shortcoming is a blood/hemoglobin issue. Sickle cell is most for most part winning in tribal domains/parts of India. Various states of India like Gujarat, Maharastra, Orissa,
Tamil nadu, Madhya Pradesh where prevalence rate of sickle cell whiteness is between 5-34%. There is no standard of sustain sickle cell shortcoming is open, so there is a discriminating need of monetarily sagacious organization for upgrading individual fulfillment of patients. Open care and wellbeing preparing can expect a key part in controlling this hemoglobin issue and it can animate masses towards such activities like setting up newborn child screening and premarital screening and genotype ID for sickle cell shortcoming. In current circumstance highlight centrality of care if made in fitting channelized path all things considered people, it may update adherence in wellbeing upkeep rules & assemble general major data & care among people who are affected besides those not impacted so they can be adequately perceptive to give organization in crisis condition and general improving social protection access and use with support of pharmaceutical human administrations supplier. The concept is very simple if superstar Amitabh Bachchan can be a role model in Polio elimination program then super-star Mr. Salman Khan might be proper choice for such a noble cause in creating awareness because fact is message from personality does impact in mind of people faster.

In India, Gujarat government was first to take activity in controlling sickle cell frailty. The fundamental target of control system is no labor with sickle cell sickness by 2020. The goal is keeping demise of patients from sickle cell emergency. The goal is to enhance wellbeing status in patients and along these lines personal satisfaction in patients of sickle cell pallor.

The fundamental center of this control project are early conclusion through screening of new conceived infant, antenatal screening and pre-birth screening, pre-adult screening, mass screening on mission mode, avoidance through guiding session before marriage, hereditary directing & building mindfulness in neighborhood community.4, 8

So if fitting attention to all inclusive community is made another plume will be included to present controlling system. Doubtlessly making mindfulness in tribal ranges or individuals is intense undertaking for administration. Government needs bolster from other outer human services steady framework to include
deliberately in such exercises to control proficiently and that is reason present survey is done to spread mindfulness in people groups mind that anyone can help government in supporting and making mindfulness.

In recent times we know that it is not so difficult to encourage people to accept a new practice because psychological perception of population is changing. Various systematic efforts through social, political, technological or psychological way can be implemented to bring such new practice. One such good example through political variable is ‘Swachata Abhiyaan’. Every person has perception which guides action. Many villages and population and community do not have a link between health and current sanitary practices and therefore there is no reason to modify such practices. If general population start supporting in spreading awareness in tribal areas it will help in improving overall health related outcomes.

To develop faith in a concept and topic attention must be generated. The film stars are best way to reach to people and create such faith and awareness. Superstar Amitabh Bachchan can create awareness on Polio and super star Mr. Amir Khan can create awareness on Kuposhan and Vidya balan can explain importance of clean sanitation. So in same way if a superstar who is involved in such a noble cause and who is having a huge fan following can b ideal choice to create awareness even across country in general population which is prime importance. So currently star doing such noble deeds for human beings is only being human Mr. Salman Khan, one who always supports needy people. Support from local newspaper and news channels can be most helpful in creating such kind of awareness on a regular basis for creating awareness in general tribal population. To aware pharmaceutical professionals online journals are good choice for creating awareness into them so they can utilize it to spread awareness to others.

Small scale industries like sugar factory where major tribal population are in daily contact can arrange awareness stall and posters for supportive initiatives to government. Companies like which supplies milk can add a tagline on awareness on its milk bag as a supportive initiative to government for at least
once in a month. Local and most selling brand like wafers and general good selling companies also can be a good support in such kind of initiative. Various stationary manufacturing companies can arrange poster making competition to promote awareness in school going children. The non government organization can arrange a awareness camp and start a campaign to create awareness in various communities on a regular basis and in various areas like school and colleges and gram panchayat or government offices where people get more access to such program.

India is mainly relying on its youth and higher secondary school students and teachers are best choice as they are going to be future of our country. Proper education and awareness into them can guide them in a proper direction. Because everyone knows that teen age is perfect age to absorb any message and we can mould any students towards a proper direction because they have good grasping capacity in teen age. Community pharmacist is best one to do such kind of education and awareness related activities. Because community pharmacist is link between public and health care sector so he/she can guide population very well about disease and its complications. Blood bank and pharmacist working at primary health care center can also aware population but it will increase burden on their overall responsibility. The vision is very clear ‘healthy India can make wealthy India’. As we know day by day quality of life by population is decreases and prevalence of number of new disease are increasing.

Like swine flu and Ebola which was studied by students only in textbook are now striking in various states of India. Health care sector needs to be emphasizing on control program which doesn't require more funding. Proper implementation of ideas and concept into field of community pharmacy with a stand-up responsibility by every pharmacy colleges and students can add a great improvement in health department. If every pharmacist once tries to aware community about health it will be a great help to society. The aware 3 program concept inspired from Swami Vivekananda Slogan Awake arise and do not stop till you reach goal with a group of 26 students initiated to spread awareness in community on various disease and its causes and symptoms and management
and inform about government facility available for it. Till date this group had started spreading awareness in community on various disease and its causes and symptoms and management and inform about government facility available for it. Till date this group had started spreading awareness on various parasitic diseases like malaria, dengue, Leptospirosis, Chikunguniya and current prevailing disease like Ebola and Swine flu.

Other common youth problem like Acne and old age problem like joint disorder and importance of calcium in old age is also covered. The program also achieved support from hospital in studying drug prescribing pattern in diabetes and hypertension. All work carried out is already published in international journal of pharmaceutical science and bio-scientific research for providing platform to students and to mention importance of awareness to social world. Since last fifteen years Indian pharmaceutical industries expand lot in terms of turnover but in terms of new molecular research still we are far behind than other countries. India became hub for clinical trials few years before may be because we have number of patients who ready to participate in trials for money. Now time comes when even clinical trials are shifting to china may be population is reason. Investing millions of rupees in research needs output at some point of time so aware3 program initiated with a vision to healthy India to become wealthy India. If continues awareness at village level with door to door communication spread on regular bases it will impact on vision and belief of population at one day.

Various researches was done on assessing knowledge, attitude and behavior of youth on sickle cell anemia in African and American countries but in India very few studies were carried out but that too not in general population. Blood samples were collected and involved participants were generally aware. So if population at risk, tribal population especially youth at starting age if being aware on regular basis might be better option for future of better sickle cell control program in India. The community pharmacist at graduation level if enforce to in such kind of activities it will great help to healthcare department and education system too. In such activities government should encourage graduation level community pharmacist and provide open galaxy to explore their
creativity to help government in developing healthy India. Such kind of activities is still lacking. The extreme cases in sickle cell frailty may bring about further intricacies including, strokes, bone corruption (like avascular putrefaction) and intense or incessant sort kidney disappointment. Some sickle cell patients likewise have possibly vilifying signs including jaundice because of short existence of red blood corpuscles, leg ulcers and short stature. This is frequently encouraged by variables, for example, contamination, drying out, fatigue and adjustment in temperature or climate might regularly warrant hospitalization of customers.

It is essential to make a note on social and ecological elements, liable to contribute in pathogenesis of psychopathology in sickle cell pallor. The essential component of current social environment is state of mind & impression of non-endures towards influenced persons. A few studies had affirmed importance of disparaging states of mind in youngsters having sickle cell sickness & attention is for most part on encounters of youngsters with sickle cell anemia. Predisposition hereditary screening & advising ought to be most critical center of endeavors for controlling sickle cell paleness in creating nations. The reason is screening is similarly less expensive & far less intrusive than pre-birth determination. In addition, mental & financial issues at danger are far simpler to oversee than when a few must settle on pre-birth finding & specific fetus removal. This kind of control of sickle cell infection has not been sufficiently given conspicuousness in different nations like Nigeria and Africa. For avoidance of hemoglobin issue through state funded instruction is moral and practical choice. Illustration is spreading consciousness of one’s bearer or sickness status & hereditary guiding on subject of conceptive decisions. Different alternatives like aversion through pre-birth finding and specific premature birth of influenced hatchlings are not mentally worthy by broad groups. Moreover, senior auxiliary school understudies are ordinarily seeing someone that may in end lead to marriage in future, so issue of pre conjugal screening may be of concern, as this may be influenced by existing learning and state of mind to sickle cell iron deficiency. This is vital to aversion endeavors subsequent to illness is preventable.
In this manner, understanding information about sickle cell legacy, its wellbeing and conceptive wellbeing ramifications and additionally conduct towards individual with sickle cell weakness especially among auxiliary school understudies is vital in regards to restricting spread of sicknesses. The point of this study was to survey information and conduct of auxiliary school understudies on sickle cell infections. Teaching people in general about dangers connected with sickle cell characteristic can help people settle on educated choices about quality testing and diminish bigger populace of India that enter youngster bearing age with no information of their risk.

Inherited direction gives individuals and society autonomy to settle on instructed decisions. Taught decisions are fundamental for any genetic test incorporating conveyor screening with objective that individuals can settle on best decision about testing for themselves. Genetic conditions, for instance, sickle cell illness, G6pd, Thalassemia infection are likely most broadly perceived conditions where inherited guideline may have general wellbeing significance. Instructing at threat masses about transporter status, giving them information to settle on taught decisions, and educating them on preferences and imperatives of testing can light up these individuals. The result makes free individuals who can settle on instructed decisions. As we realize that there is no standard of consideration to cure sickle cell paleness is accessible so making mindfulness in tribal populace may be one conceivable choice. The religious conviction and absence of fitting mindfulness on hereditary and premarital directing it may be exceptionally repetitive strategy to spread mindfulness in such group individuals.

Results were obtained from study conducted in various schools of 5 different talukas of valsad district to represent proper awareness study. There were 3000 students participated in awareness study. The results illustrated from study that student participants did have some general superficial knowledge of sickle cell disease. When awareness about sickle cell anemia in higher secondary students was assessed, obtained results of study showed a statistical difference in response rates for males and females, when surveyed on autosomal nature and students who responded they have heard about sickle cell anemia (P = 0.000, so P < 0.05). This result indicates there was a statistical
difference between those who have heard about sickle cell anemia and those who was aware of sickle cell anemia. This means to hear and to be aware about disease, have a lot of difference and it need to be assessed.

The current study also illustrated that there was a significant difference obtained (P= 0.0000, so P value < 0.05) on awareness between current successful program of Polio and prevailing disease sickle cell anemia. This difference can also give idea that regular awareness on any disease in general population does matter on long term. Awareness of students on sickle cell anemia constitutes a most important variable which influence acceptability of disease, improved practice and success of premarital genetic screening and counseling too. In current study majority of students have heard about sickle cell anemia but only 27.8 % were aware about autosomal nature and basic information about disease. In many countries where sickle cell anemia is highly prevalent, regular education on sickle cell anemia is now taught to general population as a part of studies in schools, though it is limited in rural schools.

Thus, current study advocates constant awareness and assessment sessions in rural schools like this study, it must be carried out to create awareness in tribal population. In current times lots of awareness tools are available like facebook, Whatsapp via internet, newspaper, television, health professionals like pharmacists, friends and family members, all options are available to create awareness in tribal areas. The low level of awareness in school students may be due to lack of background support and information from family and surroundings, may be due to respondents are not exposed to opportunities like communicating with mass, communication with professionals, which could enhance their knowledge and perception about sickle cell anemia. Therefore current study advocates that school is only platform where students can gain their knowledge and opportunities so all schools must focused on developing awareness too. The result also suggests that there is a need for community pharmacist to awake arise and to work with school teachers in promoting awareness amongst students of higher secondary schools.
From assessment of awareness in school students it advocates studies need to be done in health care workers working in tribal area for sickle cell control program and medical students about their perception on sickle cell anemia. This is just a pilot scale study for disease like sickle cell anemia, Still more research is required in tribal areas on public perception on genetic and premarital screening and counseling in sickle cell anemia in India. Few studies have assessed knowledge on sickle cell anemia in some community and all of them concluded that there is need to sensitize communities and different policies maker about sickle cell anemia including its screening and awareness. Therefore, continues education among higher secondary school students and others is therefore important in areas where sickle cell anemia is prevalent. From study it is reasoned that far reaching information about sickle cell iron deficiency in higher optional school understudies was discovered to be low paying little heed to normal mindfulness amongst understudy members, yet just few were mindful about their blood gathering and sickle cell pallor as hemoglobin issue. These outcomes proposed there is a firm requirement for quicken activity on general wellbeing mindfulness and instruction to educate them about autosomal nature of confusion like sickle cell paleness and giving accentuation of promotion on hereditary guiding at state level and national level for its control and avoidance.

If our government sickle cell anemia control program wants to yield any significant outcomes, there is a dire need to create awareness on sickle cell anemia in general population, particularly in higher secondary school students is recommended. Schools completed screening doe's impact on answers of students but not having satisfactory awareness and information regarding sickle cell anemia and government program. The constant awareness program like Polio and sickle cell comparison result indicate that there is a significant difference between two program awareness. From this we can conclude that continues awareness since years always result in positive outcomes only as happened with Polio. Hand over data to government so that it will be useful to designing a proper plan for upcoming sickle cell anemia program. Those schools where screening was not done asked to go for screening and they have
appreciated study and importance of awareness. The real success of study was all schools have appreciate work and asked to continue this program every year.

Online journal like journal of pharmaceutical science and bioscientific research in april-2015 issue supported awareness study. Honorable tribal development minister of Gujarat state Mr. Mangubhai Patel also appreciate current work which gives midas touch to study. Especially it is mandatory to mention that Honorable Dr. K. C. Patel, Member of Parliament –Valsad District, also appreciate current study and assured to help in future for same. The government officer Dr. Manoj patel, Valsad also appreciate current work and force on continue such activities in future. The important appreciation was obtained from students who have participated. Now, for perfect awareness study ending waiting for Prime minister of India and Chief Minister of Gujarat to accept my application and proposal for support which is already sent to them. For involvement of topic like importance of blood disorder in education syllabus is also suggested to education department of Gujarat state. Try to communicate with some recognized non profitable organization, religious institutions, health minister to discuss on constant awareness in school students through health education through aware 3-mission.

4.2 CONCLUSION:

From study which was executed as a backing to government, reasoned that extensive information about sickle cell frailty in higher auxiliary school understudies was discovered to be low. Despite great mindfulness amongst understudy members, however just few were mindful about their blood gathering and sickle cell iron deficiency as hemoglobin issue. These outcomes proposed that there is a pressing requirement for quicken activity on general wellbeing training to illuminate individuals about autosomal nature of sickle cell sickliness and putting accentuation on backing for hereditary directing at state and national level for its avoidance and control.

On off chance that our administration sickle cell weakness control system needs to yield any noteworthy results, there is a need to make mindfulness
about sickle cell paleness, especially in higher optional school understudies is suggested.

Each school on regular basis must asked government for sickle cell anemia screening and if possible simultaneously if vital information like blood group also need to be convey to general population. This practice will help in generating a raw data of information on how many people are screened, helpful data on blood group for blood bank and a positive impact in mind of students. From theoretical or statistical results available on sickle cell anemia and whatever may be database available but from current awareness study researcher determined that in Indian tribal village there is a dire need to raise importance of creating awareness on blood disorders like sickle cell anemia.

The study also concluded that if people from pharmaceutical background participate in such activities voluntarily on regular basis, this awareness program does make a difference in future. In current times, researchers and society is more focused towards metabolic disorders and cancer and human immune deficiency virus and more on disease. At last, obliviousness and absence of comprehension prompts disparagement of sickle cell patients and their relatives by general public as individuals they ought not relate with, else they will likewise contact ailment. This state of mind drives infirmity underground, because of unwillingness to recognize or acknowledge disease outcome is that numerous sickle cell weakness patients truly "kick bucket peacefully".

With a specific end goal to cure this circumstance, non-government associations and a few identities and online networking columnists need to end up sensibly dynamic and vocal in upgrading mindfulness and comprehension of sickle cell weakness. Though essential wellbeing couldn't care less trots there must be instructional class for advisors to handle sickle cell emergency.

This is amazingly enormous stride in right course, in that rise of club will go far in serving to handle issues of people and families known not or associated with having issues that are hereditary in beginning.

The shortage of learning on sickle cell iron deficiency in tribal zones and even in adjacent towns understudies showed that a fitting instructive section of
hemoglobin issue idea must be obliged to secured in syllabus of higher optional school understudies. This will add on accessible data to understudies who are living in tribal ranges or predominant zones.

The fundamental learning of knowing what number of individuals are conceived and living with this malady is critical. Table number 4 demonstrates that undergrads are not acquainted with what number of individuals are living with this infection. The outcomes from this study demonstrated that Q.7 and Q.10 were slightest among all other fundamental data questions. It is basic for individuals to be mindful of sickle cell paleness, and also knowing general data about this infection.

The exploration addresses on do any critical contrast amongst position and sex exists on mindfulness on sickle cell iron deficiency? The outcomes were represented that there was huge contrast on mindfulness on autosomal nature of sickness in sexual orientation and noteworthy distinction on understudies caught wind of sickle cell iron deficiency and mindfulness on autosomal nature of infection. Still general looked into writing on sickle cell malady all things considered anxieties that a critical need stays for more broad exploration and mindfulness projects to achieve at-danger populaces on seriousness of this sickness and significance of knowing whether individual is a bearer of sickle cell attribute. It is basic that at-danger populaces are all around educated on medicinal difficulties brought on by sickle cells ailment, and also their transporter status. This data will help them settle on educated choice on multiplication and hereditary directing alternatives.

The examination inquiries were “Do any critical contrast exists in middle of position and sex on sickle cell iron deficiency mindfulness? Results demonstrated a critical contrast accordingly rates for inquiries like mindfulness on blood bunch, mindfulness on autosomal nature of ailment, understudies caught wind of sickle cell and really mindful about sickle cell furthermore in examination between mindfulness on sickle cell iron deficiency and polio.

The lower rate accordingly was attention to understudies on predominance rate of sickle cell pallor in India furthermore in world. Indeed, even
understudy were less mindful about evaluated future for individuals living with sickle cell iron deficiency. All things considered, assessed future for individuals living with sickle cell ailment is around 40 years to 50 years, while normal future for people without sickle cell illness ranges from seventy years. Individuals living with sickle cell malady are assessed to lose 30 years of life and bears all through torment and confusions in examination to others living without this issue. The evaluated distinction is incredible and it is significant for general population to know natural and physical impacts of sickle cell illness. Likewise, individuals who build up this malady experience ill effects of medicinal entanglements and excessive hospital expenses. They are continually looking for restorative medications with a specific end goal to carry on with ordinary and gainful life. To have abbreviated life compass because of this sickness can be lamentable.

Proceeded with examination on sickle cell malady must be done to help enhance lives of individuals hit with this issue. It is likewise imperative for our era to know how short future is for individuals living with sickle cell illness.

Unless and until any firm research happen for administration of sickle cell iron deficiency, everywhere throughout world all human services suppliers need to make mindfulness and teach all inclusive community. By keeps spreading mindfulness emergency treatment administration in sickle cell sickliness, brief thought on legacy design in sickle cell iron deficiency and its advantages and disadvantages can be passed on to all populace. This is activity and it will be proceed with even after this so anyone can join mindfulness steady activity idea.
4.3 RECOMMENDATIONS:

More research on public's general knowledge about this disease will help determine areas where more education is needed on sickle cell anemia. The reviewed literature has focused on biological genetics of this disease.

Further studies are expected to address adequacy of interceding media battles to expand sickle cell mindfulness. It is vital to assess which media source is best in expanding general society's mindfulness on this sickness. We live in innovative age where Facebook, Whats application, Instagram, TV/open radio ads, web promotion and big names are all at present a piece of showcasing procedures used to advise overall population around a wellbeing infection or item.

In event that this same methodology was utilized to expand open mindfulness, more individuals would be educated about sickle cell paleness, and in addition their status amongst individuals who are experiencing sickle cell weakness and uninformed of it.

Another component that can help address this issue is putting open figure in bleeding edge for sickle cell infection. In a perfect world, he or she could help begin a development on sickle cell weakness mindfulness. People in general figure would more than likely create extra supports for examination, treatment, and even cures for sickle cell sickness.

Open interest would increment more medicinal preparing on this specific illness and help take out states of mind and assumptions of this sickness. With more instruction and preparing, patients will have capacity to get ideal consideration, and more focuses can be manufactured to explicitly treat this ailment in high-chance groups.

More research on medicinal services experts' recognitions and practices on overseeing sickle difficulties would likewise help expand sickle cell ailment mindfulness in therapeutic world. The looked into writing demonstrates that some torment authorities who work on sickle cell patients have lacking learning
on ailment's connected torment. In this way, doctors must keep on building solid associations with patients who have sickle cell pallor. Building up fixates that attention on this malady will permit more individuals to get suitable treatment and consideration.

Since this disorder will soon be a problem for all races, it is important that all ethnicities are knowledgeable about this disease and effects that sickle cell anemia have on human body system.

On other hand, with increase of sickle cell disease in our society, health care will became a main issue. An individual with this disease suffers from chronic health problems throughout his/her life. It is therefore imperative for treatment to be accessible to public regardless of gender, religion, race and sexual orientation. With a possible influx of urgent treatment for people with sickle cell disease, more sickle cell anemia care medical centers will need to be established. With sickle cell disease awareness in our communities and federal funding for addition sickle cell anemia research, plus our government intervention to put a plan into action to cover sickle cell anemia medical expenses, will help process of finding a cure to eliminate sickle cell anemia around world.
4.4 FUTURE SCOPE OF STUDY:

5. The study will be supportive and beneficial to government to have a database on a micro level for Valsad district, Gujarat about current status of awareness of youth about disease.

6. The study will help government to implement same program in their control program so screening program can become more efficient and effective and at least people remain aware about screening reason.

7. This program will be also useful to assess awareness of existing and prevailing conditions in rural area of Valsad district, Gujarat.

8. The program helps in development of rural youth development.

9. Awareness study may create attention from other non profitable organization and media and at point of time sickle cell anemia may be able to get more attention which will be helpful.

10. The importance of pharmacist in health education may justify importance in creating awareness and may be utilize it on a large scale.

11. May be government implement a session of education on sickle cell anemia awareness in their upcoming education schedule.

12. This current awareness concept may become sparkling event in this fight against sickle cell anemia program for nation.

13. This study also helps in extracting role of community pharmacy at graduation level so colleges and students will get a platform to perform their best at community level.
4.5 LIMITATIONS

As with any research work, this particular awareness study also had several limitations.

1. The study was restricted to only valsad district only but still if we observe in Gujarat state, most dense forest area and main prevailing area for disease was valsad so place was selected for study

2. Only 11 & 12 standard students were involved in study because higher secondary students are at age to represent youth, thus they will be considered for this awareness study so that they can have a better guidance and awareness.

3. Time and expanse are deterring factors which limit scope of this study

4. Retention of campaign message in subjects mind will be a major challenge since all subjects would be met only once at time of survey. In order, for memory retention for any campaign would be to drive or hammer message to any subject at least 3 times in audio visual medium to recollect campaign message anytime in future.

5. As study covers rural area so only Guajarati medium schools affiliated with Gujarat board are considered for sampling

6. The study was limited to specific batch only so it suggested that study should be continues for every year for proper implementation of idea.

7. Age group in current study was emphasizing teen age youth (16-18), so results should therefore only be generated with caution to designed age group.

8. The questionnaire failed to include questions that would have specifically inquired how and when participants became knowledgeable about sickle cell anemia. Another limitation was to assess knowledge on types of sickle cell anemia. These questions are important and could be used to help determine preferred method to educate college students about sickle cell anemia.
9. Thus, such information could provide a framework for developing additional health education programs on sickle cell disease on campus and in community. Not only was it important to question how students became knowledgeable about this disease, but also if they had disease or knew anyone with disease. That valid information would have helped determine if they were familiar with disease due to being exposed to a person living with sickle cell anemia.

Current study was unable to study on students’ perception about sickle cell trait and sickle cell disease concept. A second area consider for further investigation involves development of better measures designed to assess knowledge of sickle cell trait and sickle cell disease.