

NATIONAL INSTITUTE OF TECHNOLOGY, RAIPUR(C.G)

Sonali Kesharwani
Email: sonalikesharwani47@gmail.com
Roll No: 21111062

February 16, 2022

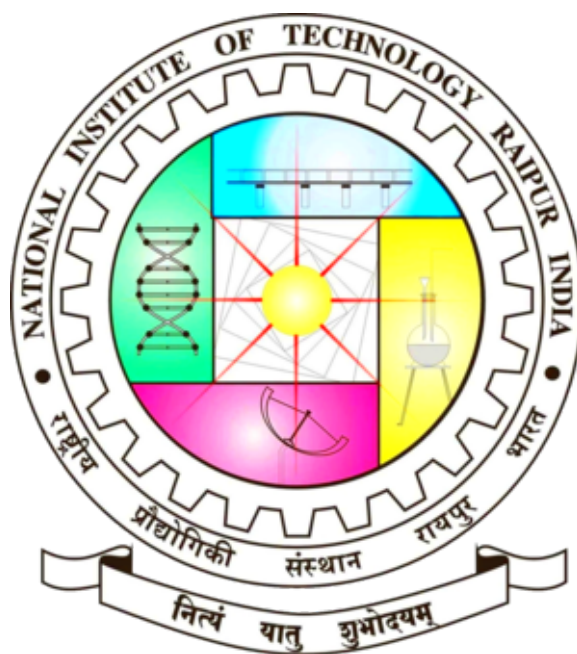


Figure 1: National Institute of Technology, Raipur

Project Report on:
VIRTUAL REALITY A NEW TOOL FOR DRUG
REHABILITATION
UNDER THE SUPERVISION OF DR. SAURABH GUPTA SIR

ACKNOWLEDGEMENT-

I would like to express my special thanks of gratitude to my professor Dr. Saurabh Gupta sir who gave me golden opportunity to do this wonderful project of Basic Biomedical.

Who also helped me in completing my projects . I came to know about so many things.

I am really thankful to them. Secondly , I would also like to thanks to my parents and friends who helped me a lot in finalizing this project within limiting time frame.

Sonali Kesharwani

21111062

Email: sonalikesharwani47@gmail.com

Phone. No: 9696519760

NIT Raipur

ABSTRACT

Addiction is a brain disease which interrupt the sensation of addict's and it's a insurmountable for recovering and rehabilitation . In addiction treatment craving and trigger was challenge to addict in fully recovering and rehabilitation. The way of helping addicts from temptation, scrubbing, craving and succeed to soberity goals. Virtual reality is a power fool tools and has a life saving innovative potential in addiction rehabilitation program.It join users to virtual scenario which is just like imagining which distract their mind and make them feel better . Virtual reality helps the patient to distract from their real life which make them more reliveable. Virtual reality is computer generated environment that stimulates . experience through senses and perception with headset. VR creates a fully immersive environment and completely shuts out the outside world.



Figure 2: VR

1 INTRODUCTION

Addiction is a disease of brain it interrupt an addicts ability of taking good choices and make good decision

yet we generally expects and addicts who as a brain disease to make disease brain to better choice you know we accuse them of a lack of will power they don't understand the consequence of their action . Sometime this type of addiction make people criminal because they unable to understand what they do and and for his addiction things they do anything . Addiction of anything lock their mind, person unable to understand what was going on.



Figure 3: Virtual Reality Headset

Fortunately, science thinking about and start working over a long time . The innovation of leader thinking of solution. Virtual Reality allows the people to go behind the compile screen to go into the world where the small molecules or protecting are being visualized and to really interact with them it allow chemist to both identifying potential drug molecules and then also optimize them more efficiently so it extremely important to be able to visualize these protein structure because they are so complex that understanding of patterns of how these molecules are spatially oriented with each other and how they interact tremendously helps the professional design of drugs. I like that it provide really a different perspective on the realities that were used to looking at you can touch them, you can move them, you can move in and

outside of them. So you imagine that you being people into your virtual world

WHAT IS VIRTUAL REALITY?

Virtual reality is computer generated environment that stimulates experience through senses and perception with headset. VR creates a fully immersive environment and completely shuts out the outside world. The user must be able to explore these 3D environment using VR headset lens and controller which might have sensors on them for users to be able to experience VR content

LEARNING TO SAY NO——

When addicts ready to avoid abusing drugs there are many cases that run through their head. People faced relapsing problem that means the addicts want to avoid but they unable to do because still they have another friends or person in society who themselves struggling their own addiction which fraught them . With virtual reality addicts can practice these without worrying the affect of saying no. By successfully saying no to addiction a virtual setting



Figure 4: An image to show the feeling of togetherness

,addicts can feel more confident saying no once they leave treatment. Virtual reality program that addiction treatment centre can use to help them in practice saying no in temptation situation.

USING VR AS AN ADDICTION TREATMENT TOOL——

Virtual reality program system allows addict to immersed them in different environment to adopt therapeutic support also the practice them in a variety of situation involving addiction of drugs. When patients arrive at a rehab facility in an agitated state, Virtual reality has been helpful in counteracting negative emotion. This method is low risk path to run through different high risk path. These therapies have the potential for use often addiction treatment as well, such as when an addict is anxious and need immediate feedback.

HOW VIRTUAL REALITY WORKS:

Virtual reality is all about using a device 3D video or image camera to create a three-dimensional world that a user can manipulate and explore later or in real time using VR headsets and lenses, while feeling he or she is in that stimulated world. The user will see a life-size image and the resulting perception is that they are the part of that stimulation. Virtual reality involves a headset to immersed addicts in virtual world which is different from the reality. The picture or images addicts seen in VR make them realize that they are in different world but actually they are in present world . It helps to interact the world around you. The world are we seen is depend on type of treatment you got and it also depend on filmed used by special VR camera. It doesn't matter



Figure 5: A child is wearing a VR headset

what was the scene we seen , these virtual world given chances to

approach their addiction in a safe ,honest way without fear of relapsing ,succumbing to temptation.

Benefits of Virtual Reality Treatment On Addiction:

People who suffered from drug addiction , searching a way to sobriety which is insurmountable for them. Sometime a possibility is occur that people recovered but the path of fraught with temptation is ahead and this can back leads addicts to addiction. Virtual reality helps them in sobriety and give opportunity to fought against their addiction by keeping them in virtual world and distract them from their real life.

Fighting Craving:

Craving is the strongest desired to do something as mind seek out the chemicals it grown the intense craving among addicted. These craving lead the directs the addicted from sobriety. Virtual reality helps addict to fought against intense craving.

Conclusion:

No matter from what type of drugs a person be addicted for all they faced pressure and temptation to relapse . VR build the confident to fought against the addiction. By experiencing these fears in a safe environment ,they can build up the skill set they need to confidently manage these experience take on in their lives and avoid falling back into addiction cycle again.

We need to really brave now when imaging them problem and have to work hard to fulfilled these goals. We need to make sure that the used of virtual reality in addiction treatment is based on human touch and on the partnership of addicted and their care takers and is based on technology that can given use the absolute best success rate the best treatment and skills the best care when it comes to people

REFERENCE

<https://www.niznikhealth.com/research-articles/virtual-reality-and-drug-rehabilitation-the-future-of-addiction-treatment/>

<https://youtu.be/3FivpQ8oV90>

https://youtu.be/Eh_4Be1FPsY

<https://youtu.be/IVfmkds2PcQ>

<https://youtu.be/kgtnVI3k4Ik>

Figure 6: Reference's not clickable links