

Adverse Effects of Wireless Sensor Technology to Debilitating in Numbness

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Abstract Background: Numbness is a complex sensor disease in legs, feet, lower parts of the body or entire body. Yet Medical professionals are facing the insufferable supplementing causes of numbness in an individual's body as a very important global health issue since the 20th century. **Objective:** The study aims to evaluate the applications of the fluctuated and processed radio frequencies that affect limbs or other organs of the body within and around the individual's body boundary at GPS locations. Everyone uses a mobile phone within a GPS location, but none can know its impact. **Methods:** This impact identifies through ISNAH Experiment on cat and dog through application of the processed wireless sensor networks at open activities eyes and GPS positions. **Results:** This study represents the numbness with sudden pain due to misuse of wireless sensor networks towards an individual's body at a light and dark environment. The research also focuses on the more effective enlarging causes of numbness in dark than light environments according to diagnosis. These findings replicate the implication in numbness through operative treatment and recovery that the surgeons provide, which cannot improve efficiently due to abusing wireless sensor networks. The study also found that the digitized health systems are at risks to insecure advanced sensor technology. **Conclusion:** Systematic healthcare awareness is vital for management with modern technological devices but such awareness is still below par, which is alarming to individual's good health. The study suggests future research trajectories of a new sophisticated alternative secure treatment approach to promote healthcare in the priority of Sustainable Development Goals 2030.

Keywords Numbness, GPS Location, Body boundary, Sensor Networks, Environment, Diagnosis

1. Introduction

The world is a mixture of science, arts and technology in living advances [1]. People use the innovative technology for various purposes, but none can be aware of its impact in daily life [2]. Because, technology in advances is fluctuating every step with clouding systems, which is alarming due to lack of dynamic security [3,4]. Misusers track human beings and others with insecure sensor technology to produce

CASSID (Common Acute Sensor Sudden Infections and Disorders). Numbness is one type of CASSID. Nowadays numbness increases in legs or feet or lower parts of the body suddenly among human beings [5,6,7,8]. Numbness of the body is a silent sensor disease, which is numbed from the waist down to the legs [9,10]. Suddenly some male or females may feel numbness in their legs and feet or lower part of the body or entire body because of sitting / sleeping in a position that puts too much pressure on the nerves or reduces blood flow or lacks of body electron movement [11,12,13,14]. However, continuing or unexplained numbness may be a mark of a causal medical condition [15,16,17]. Long-term numbness or a tingling feeling in the legs, feet, part of body or entire body may be because of

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Received: Aug. 9, 2021, Accepted: Aug. 23, 2021, Published: Sep. 8, 2021

Published online at <http://journal.sapub.org/ijvmb>

conditions in several ways, such as multiple sclerosis, diabetes, peripheral artery disease, fibromyalgia or unwanted sensor networks [18,19,20,21,22]. A lack of pharmacological tools has delayed our understanding of the physiological mechanisms of causal tingling paraesthesia [23]. It may feel the sensation in the entire leg, below the knee, in different areas of the foot or lower part of the body within a body boundary of the existing GPS locations [24,25,26,27]. From higher study research, the researcher finds new ideas of the reasons any person might experience numbness in the legs, feet or lower part of the body or in the full body suddenly numbness, along with identified symptoms, treatment with recovery systems [28,29,30,31, 32].

The aim of the study is to find out the root causes of numbness through processed wireless sensor networks to solve with core challenges in worldwide public health security.

2. Materials and Methods

The study conducted with the processed radio frequency

towards individuals at GPS locations. The research was a part of a PhD research experiment at Universiti Malaysia Sarawak (UNIMAS), Malaysia. The research period was October 8, 2014 to October 31, 2017. The methods included sample size and design, Setting ISNAH Experiment, Tracking Individuals, data collection, data compilation, data analysis and interpretation illustrated sequentially as below.

2.1. Sample Size and Design

The sample size was two species, (a) Dog-7 individuals, and (b) Cat- 7 individuals. Both species were male and female. All individuals were categories according to Feline Body Mass Index (FBMI) including:

- (i) Underweight individual (<18.5)
- (ii) Normal weight individual, ($18.5\text{--}24.9$), and
- (iii) Excess weight individual (overweight plus obesity) ($25+$)

Individual's setting design was varied in different parameters with light and dark environment, such as: (1) Open eyes condition, (2) Standing stage, (3) Sleeping stage, and (4) Running stages.

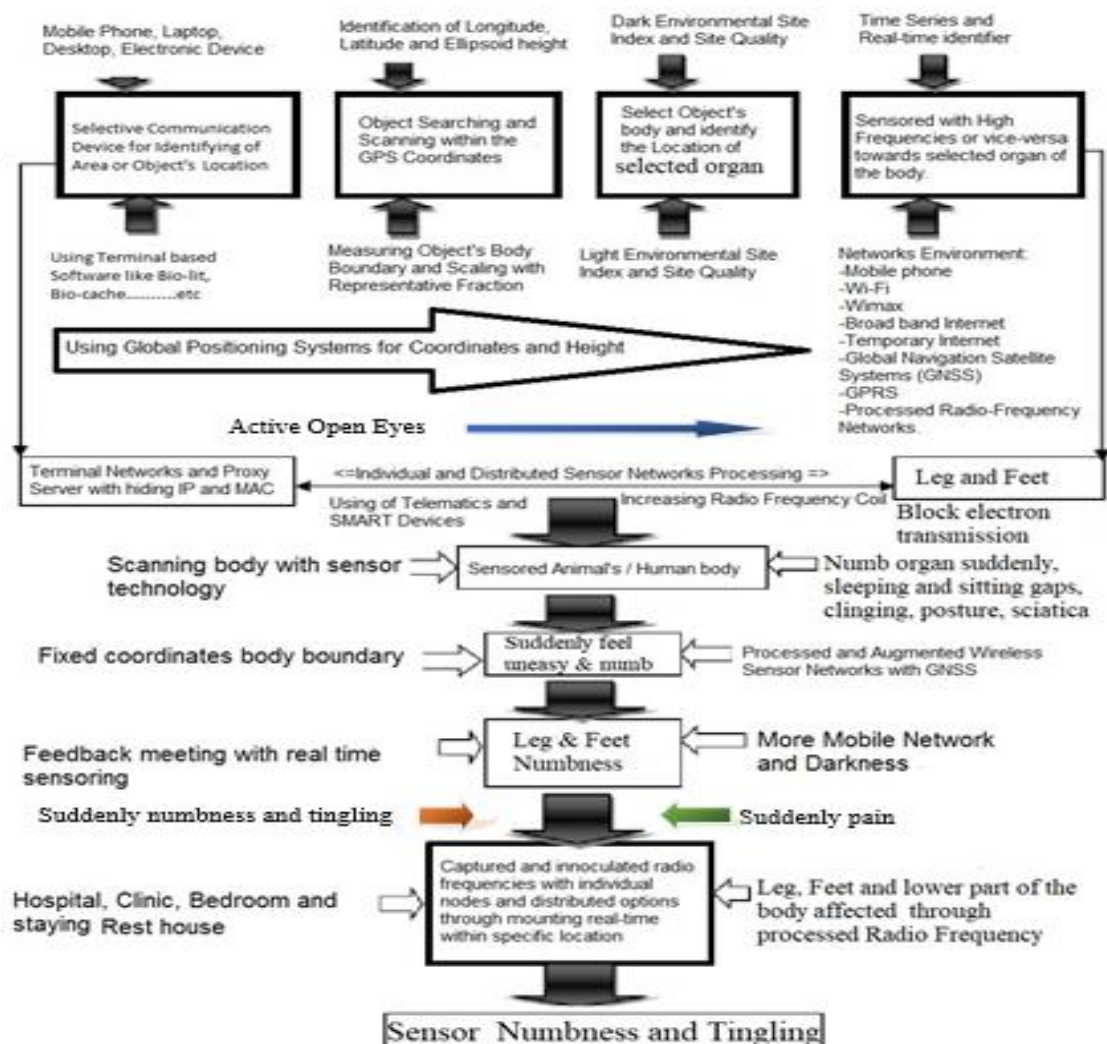


Figure 1. Setting ISNAH Experiment [2]

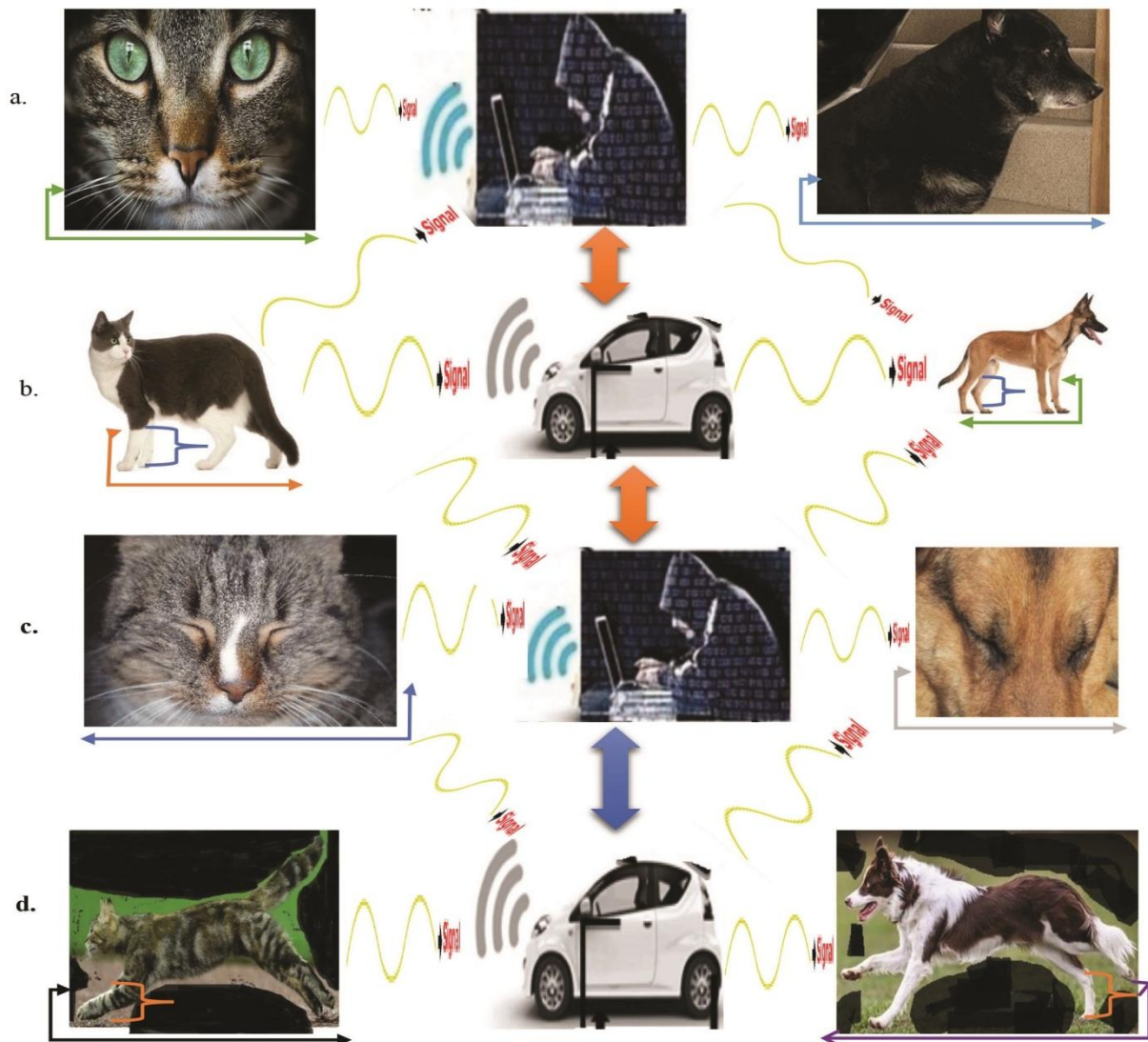


Figure 2. Tracking at GPS locations with the Processed Wireless Sensors at (a) Individual's opening eyes stage, (b) Individual's standing stage, (c) Individual's sleeping stage, (d) Individual's running stages

2.2. Setting ISNAH Experiment

The study focused on the ISNAH Experiment, which indicates Impact of Sensor Networks towards Animals and Human beings. The setting of ISNAH experiment includes different steps (Figure 1), such as:

- i) Select Individuals and sensor devices
- ii) Searching and scanning process at GPS Coordinates
- iii) Detect individual's organ with sensor scanner, particularly Limb
- iv) Track the selected organ of individuals
- v) Recognize the tracked organ with update physical status.

2.3. Tracking Procedures

Before tracking, we took different parameters separately from each individual [84], such as:

- (A). 7 dog individuals consisted of average (i) temperature 36.7°C, (ii) breathing rate 192 bpm, (iii)

per minute respiration 25, (iv) blood pressure 122/180 mmHg, and (v) FBMI 24.7

- (B). 7 cat individuals consisted of physiological indicators with average (i) temperature 36.4°C, (ii) breathing rate 210 bpm, (iii) per minute respiration 23, (iv) blood pressure 121/175 mmHg, and (v) FBMI 24.2. The study designated two healthy species with calculated Feline Body Mass Index (FBMI). We used the web calculator using rib cage circumference and length of the lower back leg from the knee to the ankle [81]. The different tracking procedures was shown in Figure 2 with signals.

The trackers misuse the innovative sensor technology with tracking, sensing and digital poisoning to increase CASSID (Common Acute Sensor Sudden Infections and Disorders) towards animals and human body [2,82]. The dog and cat were put inside the iron cage (size: 3.5'x 2'x2.5') with an active cell phone, sensor device and GPS. Tracking system includes nodes and distributed sensors with images and

particles. Node Tracking procedure is for one individual and distributed sensor particles are for groups of individuals at light and dark environments discretely or vice versa. The selected individuals were housed in a room with controlled temperature and other physiological indicators [83] on the priority of static and dynamic motion sensors. During tracking time, the study detected the individual's fixed GPS (Global Positioning Systems- longitude-latitude and ellipsoid height) and GNSS (Global Navigation Satellite Systems) positions with built-in Sensor Telematics. Due to built-in tracking software, the integrated methods used for tracking with the processed wireless sensor networks targeted an individual's body and identified its observation, impact and implication at fixed and changeable GPS / GNSS positions. This study envisaged the tracking effect of fluctuated biosensors for digital poisoning taking in matter-of-fact novel research idea to investigate issue hoisted study in advanced technology, specifically SMART devices. From the ISNAH experiment, the Automated and Processed Radio Telemetry System is more quickly tracked in dark than that of light environments.

2.4. Data Compilation and Analysis

All collected quantitative and qualitative related biosensor data from primary and secondary sources were checked for accuracy and validity from the tracking points at GPS sensor information and related sources were also verified. The accumulated and administered sensor data were involved in the preparation of the data master sheet and integrated into suitable systems used in the findings, discussion and other sections sequentially. All collected data intended for analysis and interpretation using update analysis software like MS Excel 2019, SPSS version 27 and R programming ver. 3.6.

3. Results

Occurring of Numbness with Sensor Technology

Due to misuse of fluctuated radio frequencies within a GPS location, any animal or human being suffers in numbness in actual time within a specific radius of the individual's body boundary. The processed frequencies create the digital poisoning within the circumference of an individual's optical distance. Because of this, its blocked electron movement or blood circulation with poisoning in

GPS location. If any person misuses the telematics or relevant sensor device towards he / she or both of them, they suffer in numbness at the poisoned location.

Suddenly or after a few moments at sitting or sleeping, a male or female's legs go numb temporarily because of their posture or staying in an existing environment. This numbness creates chronic or long-lasting pain in a part of the body, which is almost always a sign of an underlying medical condition or physical structure. Suddenly causes of numbness includes:

- (i) fluctuated radio frequency in legs and hands at GPS positions,
- (ii) posture due to active open eyes at fixed GPS location,
- (iii) sleeping gaps due to active processed sensor networks at hypothalamus,
- (iv) injury due to block electron transmission with processed signalling,
- (v) sitting gap due to fluctuated radio signals,
- (vi) diabetes due to misuse of wireless sensor networks,
- (vii) clinging gap due to block electron transmission,
- (viii) lower back issues due to fluctuated radio signals,
- (ix) Sciatica due to fluctuated radio signals,
- (x) tarsal tunnel syndrome due to fluctuated radio signals,
- (xi) carpal tunnel syndrome due to fluctuated radio signals,
- (xii) peripheral artery disease due to fluctuated radio signals,
- (xiii) tumours due to fluctuated radio signals,
- (xiv) abnormal growths due to fluctuated radio signals,
- (xv) Fibromyalgia due to fluctuated radio signals,
- (xvi) multiple sclerosis due to fluctuated radio signals,
- (xvii) stroke due to fluctuated radio signals, and
- (xviii) sickness due to use of digital sensing alcohol.

There are some specific symptoms for numb legs or feet or the lower part of the body. Numbness is just one of the many symptoms associated with temporary and chronic numbness. Many people with numbness in their body organs experience additional symptoms at the same time or intermittently including (a) tingling, (b) burning, (c) tickling, (d) itching, (e) crawling feeling under the skin, which as shown in Figure 3.

Some findings showed the causes of numbness due to fluctuated radio frequency, which as shown in Table 1.

Table 1. Some reasons for numb legs, feet or lower part or whole body due to processed sensors

Reasons	Finding Characteristics
Fluctuated Radio Frequency	Optimum uses of radio frequency are suitable for body boundaries. It is helpful to movement or straightness of the body or part of the body. But suddenly fluctuated sensor radio frequency is harmful to all living beings. Any male or female can be affected in numbness due to misusing of fluctuated sensor radio frequency within GPS locations. Besides, there are other causes in body numbness and tingling, posture, injury, diabetes, lower back breakdown, sciatica irritation, Tarsal tunnel syndrome, Peripheral artery disease, Tumours, Abnormal growth, Fibromyalgia, Multiple sclerosis and stroke.
Others	Sleeping, clinging and sitting gaps are also causes in numbness due to misusing wireless sensors.

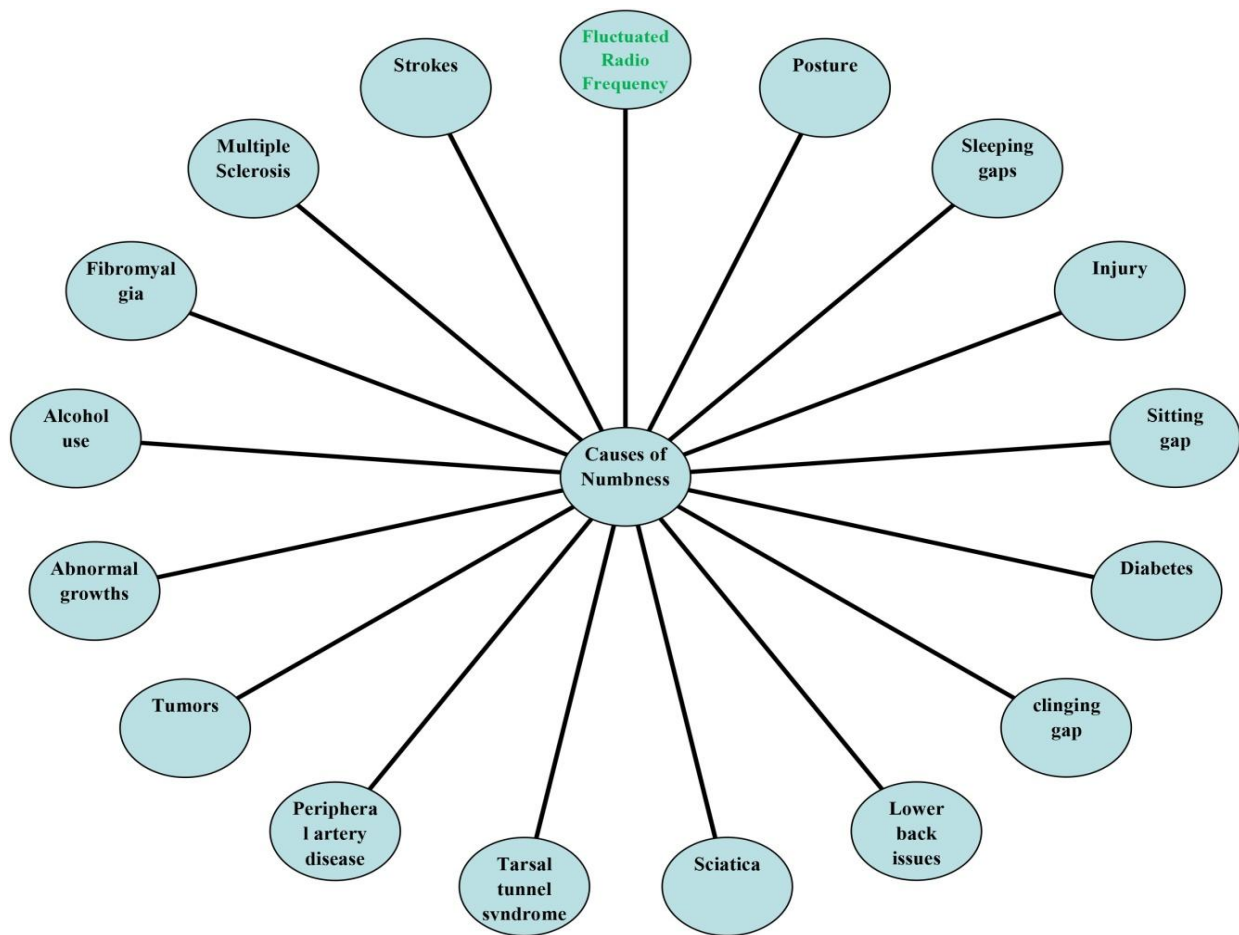


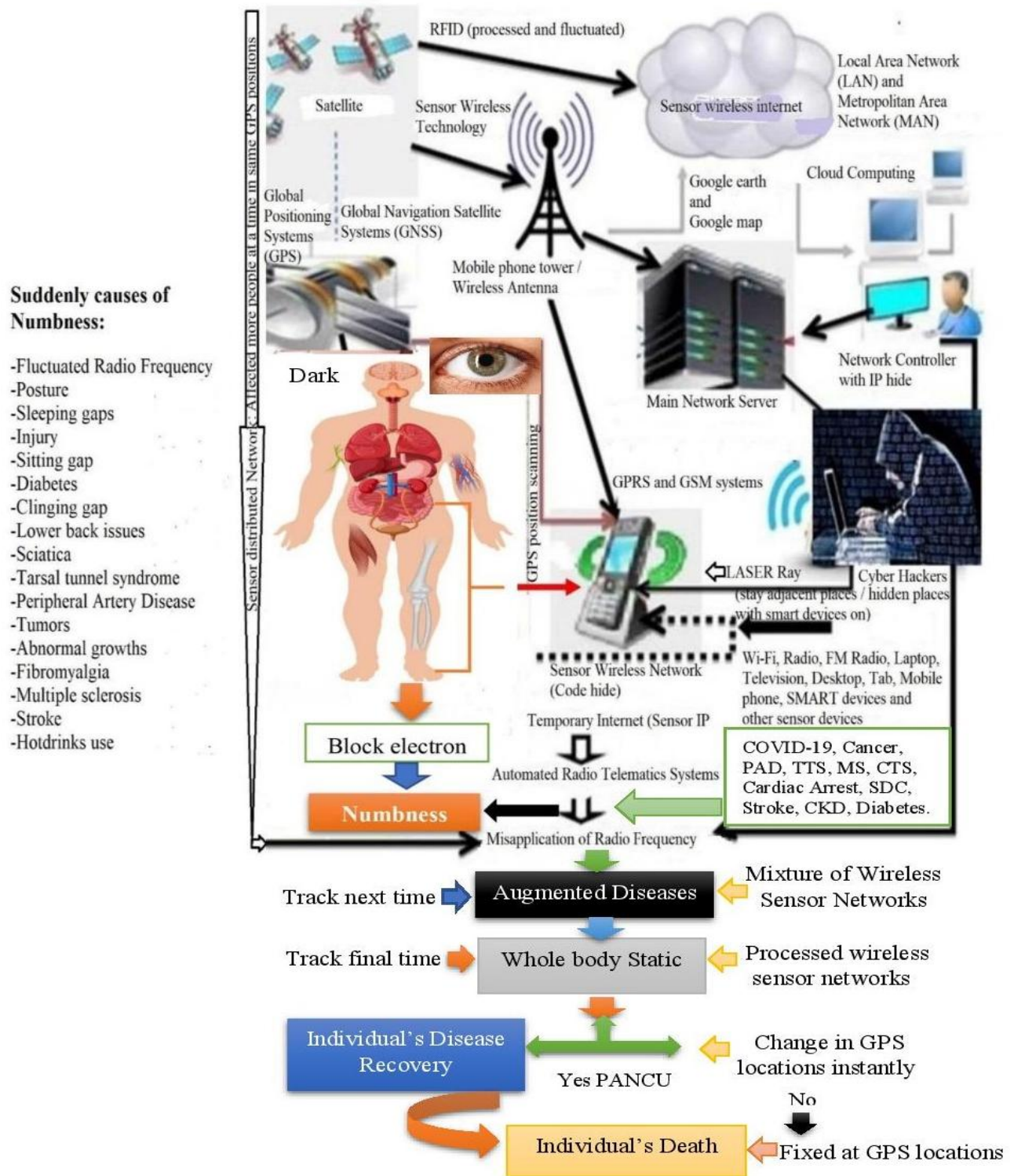
Figure 3. Causes of Numbness of the body or part of the body

If an individual suffers from numbness, he/she can take some simple steps to protect his/her limbs, reducing discomfort and improving mobility. Many people believe it is a crippling and practicable part of growing old. But effects are changing through the expansion of innovative technology. Treatments are better with innovative technology due to open-closed eyes systems, which are illustrated in the discussion part. Plenty of aged-people are well with little in numbness owing to sensor technological awareness. The entire body converts into static due to misuse of the processed wireless sensor networks, which as shown in Figure 4.

The study mentioned that he/she is sitting or sleeping at home or in the office. If he has a mobile phone or sensor device around him with open eyes, his location is easily identified. Even if he doesn't have a mobile phone, we can know your location through laughing, crying, yawning, coughing, sneezing, talking, speaking, flattering, or being with open eyes. The distance between the various parts of an individual's body knew through the telematics device around him, and then digital scanning does with software like

Computed Tomographic scan or Magnetic Resonance Imaging, the individual's hand, legs or lower part of the body or whole body feel numb suddenly. Remote sensing device then applied the fluctuated-frequencies with electromagnetic force to the connective tissue in the area via telematics. After a few moments, fluctuated mobile sensor particles in the blood vessel contract, the blood flow stops and the connective tissue becomes useless, then the leg or hand or lower part of the body becomes numb. In a light environment, numbness occurs in 25 minutes and in a dark environment, it takes 12 minutes. On the other hand, Individuals with Obesity categories affect numbness at less time than other BMI categories in Figure 5.

However, optimum uses of radio frequency are suitable for body boundaries. It is helpful to movement or straightness of the body or part of the body. But suddenly fluctuating sensor radio frequency is harmful to all living beings. It can affect any male or female in numbness due to misuse of fluctuated sensor radio frequency within GPS locations.



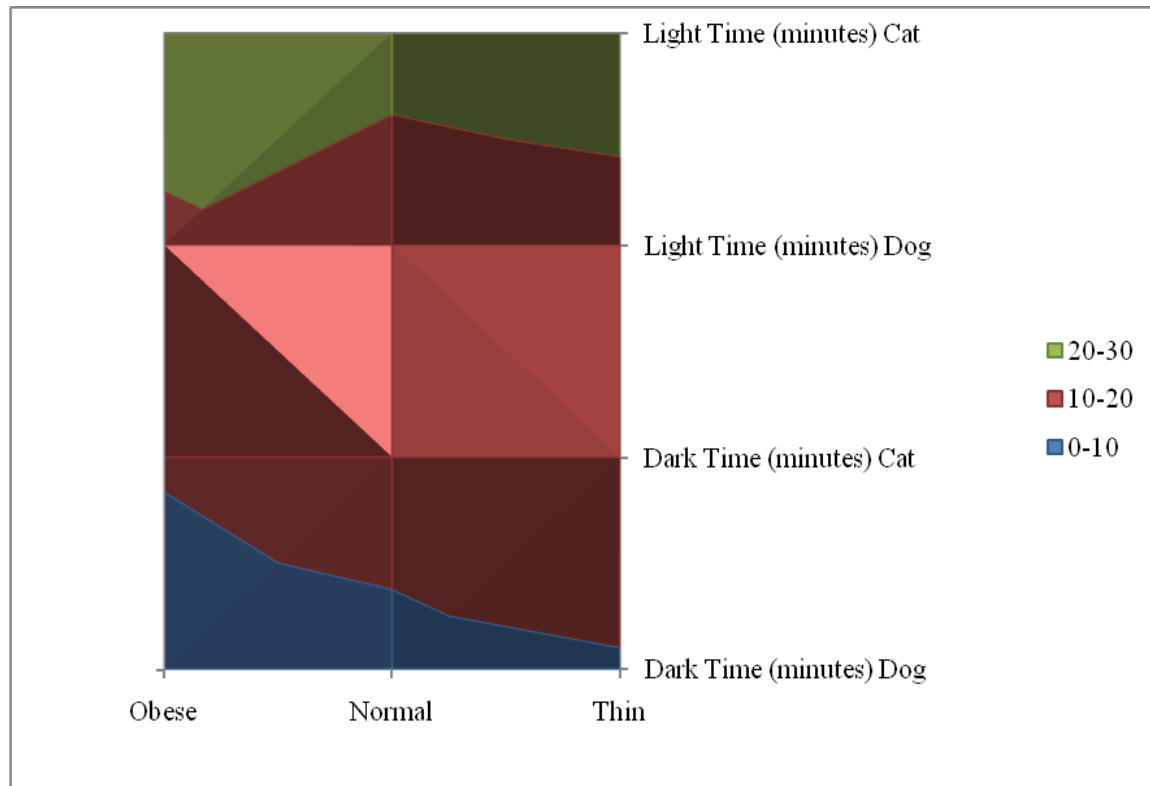


Figure 5. Adverse Effect of Numbness towards Individuals with BMI Categories

4. Discussion

The study on numbness in technology is rare due to lack of experts and innovative technology. But the misuse of innovative technology continues towards human beings, animals and other objects. From the study, it identified the secured public health software. If secured software for health is available in the market, the pandemic sensor disease, numbness will reduce from the community worldwide. There are some tools regarding the sensor numbness, which illustrated as below:

4.1. Numbness Experiences

Sensor technology is a blessing to all generations for sound health in a sound mind. But some cyber hackers are misusing the processed radio frequency with sensor technological devices and optical sights within GPS locations [33,34,35]. They create abnormal situations towards an individual's body within the body boundary area. Then he/she affects numbness either temporarily or long-lasting [36,37,38,39]. Many people say their legs have "fallen asleep", which is termed medically as transient paraesthesia [40,41,42,43,44,45]. Habits that can cause the body or part of body to fall asleep including:

- crossing the legs for too long,
- sitting or kneeling for long periods,
- sitting on the feet,
- wearing pants, shoes, socks, gloves that are too tight [50,51,52,53,54].

Most people with fibromyalgia experience a variety of

symptoms including (i) stiffness and soreness for no apparent reason, especially in the morning or after sleeping, (ii) chronic exhaustion, (iii) memory problems and difficulty thinking clearly, sometimes called fibro-fog, (iv) restless leg syndrome [51,52,53,54,55]. Almost everyone with fibromyalgia suffers symptoms in over one part of their body for at least 3 months at a time. Any other symptoms do not accompany numbness in the legs and feet or are not long term, it is unlikely to be caused by fibromyalgia. The tarsal tunnel is a narrow space on the inside of the ankle [56,57]. Male or female with tarsal tunnel syndrome felt numbness, burning, tingling, and shooting pain in their ankles, heel and feet. It linked this type of nerve damage to reduced levels of B vitamins, such as B-1 (thiamine), B-9 (folate), and B-12, which is caused by excessive alcohol intake [58,59,60,61]. The legs are one of the most common parts of the body affected by Peripheral Artery Disease (PAD) [62,63,64]. Most people with PAD experience pain and cramping in their entire body or part of the body, or in their legs and hips, when they are walking or going upstairs [65,66,67,68,69]. Some with PAD also experience leg numbness and weakness. Symptoms of PAD typically go away after a few minutes of rest [70,71,72,73,74]. However, the mentioned causes occurred by the missing of sensor technology, carpal numbness sensor and tarsal numbness sensor effect in hands and legs at fixed GPS location, which as shown in Figure 6. Though they may occur as usual, either certain conditions. The numbness can cause problems correlated to sensing, feeling, and moving of the body or part of the body [58]. The numbness occurs in two ways, such as:

- (1) Natural numbness due to causes of different diseases.
- (2) Artificial numbness due to misusing with sensor technologies.

Again,

Artificial numbness occurs CASSID [2] in two ways, such as:

- (a) Individual numbness with Node Sensors at fixed GPS positions.
- (b) Group numbness with distributed sensors at changeable GPS and GNSS positions.

4.2. Sufferings due to Sensor Technology

Some patients suffer from the symptoms such as numbness in their hands or feet. After lying on one side of the bed at night for a while, the hands and feet on that side feel numb. Because of these reasons, it is difficult to sleep at night. Sometimes, if the patients hold something in their hands for some time, their hands feel numb. After a while they cannot hold on anymore. The doctor observed the patients' history that they could not even hold the mobile

phone in their ears for long while talking on the mobile phones [52]. Many wonders why this could happen, which needs to find the root causes. Because of this problem, the blood circulation in hands and feet is less than normal [75]. Then the pain occurs due to fluctuated pressure on the cervical spine or neck and lumbar spine, or the nerves in the waist [76]. The numbness also happens in some diseases including cervical spondylosis, carpal tunnel syndrome, lumbar spondylosis, varicose veins, peripheral neuropathy, diabetic neuropathy and motor-neuron disease. Due to lack of vitamins or minerals, the patients suffer from numbness. But the numbness occurs suddenly, the study takes the instant time towards patients' numbness seriously due to misuse of fluctuated radio frequency. Because of which the numbness later becomes severe, it becomes difficult to get rid of the disease. Therefore, if such symptoms occur, it is necessary to take the advice of a specialist without delay and take treatment for recovery after diagnosing the cause [77]. Occasionally the limbs become numb, which is a symptom of some sensor diseases through misapplications of sensor technology within a GPS location.

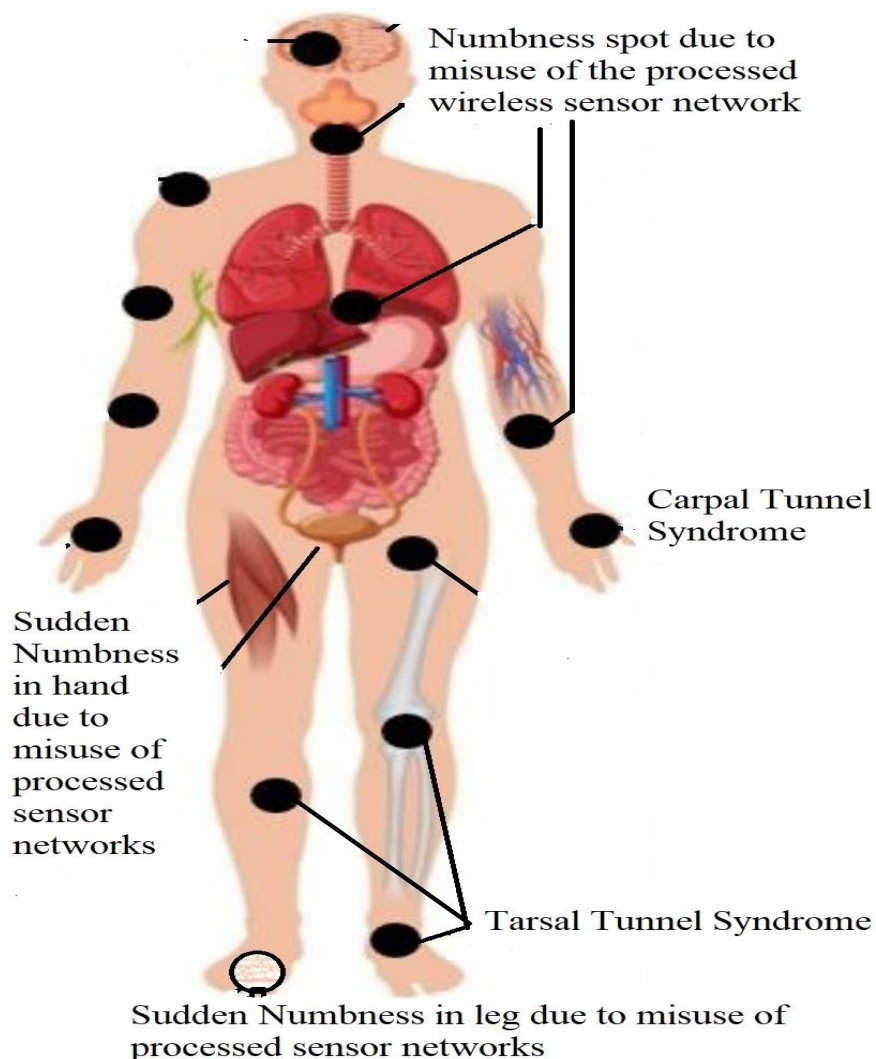


Figure 6. Misuse of Processed Wireless Sensor Networks for Numbness [80]

4.3. Accidents due to Numbness

Numbness in hands and legs occurs at object accidents at landscape, seascape or skyscape. During driving or flying time, cyber hackers track the driver's hand or leg within a GPS location. After tracking, hand or leg numbs, and the running vehicle is out of control. When the driver uses a mobile phone while driving or puts the mobile phone nearby the engine. Cyber hackers block electron transfer at the

hand-leg-brain due to the driver's active open eyes, active cell phone and active vehicle identification number (VIN). Trackers misuse the motion sensor towards the vehicle and causes an accident instantly at changeable GPS position, which as shown in Figure 7.

Driver's Active open eyes + Active mobile phone + Driving Car ==> Tracking by tracker for accident.

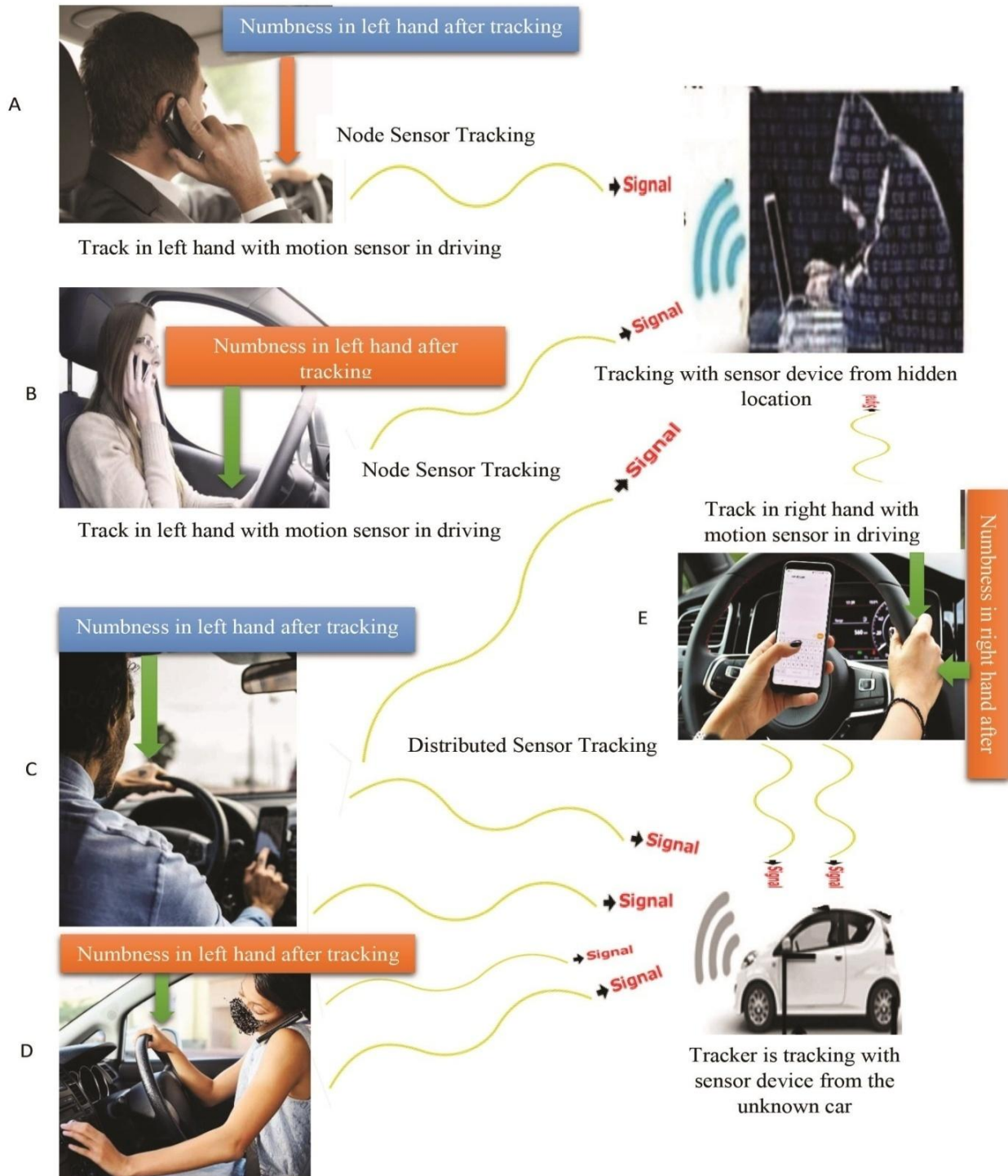


Figure 7. Tracking with motion sensor towards driver's hands with numbness occurring accidents

4.4. Treatment and Medication

The proper treatment for numb legs, feet or part of the body depends entirely on the cause at different environmental conditions including light and dark conditions. Firstly, home medications are self-awareness, body

movement, changing GPS location and tightly closed eyes, which are positive to recover for long-term numbness in the hands, legs, feet or other organs of the body. There are some options listed in Table 2 as below:

Table 2. Medication systems for recovery of numbness

Parameters	Characteristics	Remarks
Antidepressants	Some antidepressants, such as duloxetine and milnacipran, have approved to treat fibromyalgia.	(i) Wearing anti-radiation sunglasses, (ii) Tightly closed eyes, changing body GPS location instantly, (iii) To restrict on beside cell phone and sensor devices, (iv) To keep silent till 10 to 15 minutes.
Corticosteroids	Some corticosteroids can help reduce chronic inflammation and numbness associated with conditions such as MS.	
Gabapentin and pregabalin	Medications that block or change nerve signalling may help reduce numbness associated with conditions such as fibromyalgia, MS, and diabetic neuropathy.	

Table 3. Home-based remedy systems for recovery of legs or feet numb

Parameters	Remedies
Wearing Sunglasses	Sunglasses can control unwanted radio frequencies that can recover numbness in a light environment.
PANCU	Set up Personal Area Network Control Unit (PANCU) at fixed GPS location.
Taking sensed food	Sensor food creates sense with blood connection for development of the immune system to reduce numbness. Patients can take sensed foods like garlic, peeper, black cumin... etc.
Using Ice	Ice can help reduce swelling that can put pressure on nerves. If he/she applies cold compresses or wrapped ice packs to numb legs and feet for 10-12 minutes at a time several times daily.
Rest	Many of the conditions that cause leg and foot numbness, such as nerve pressure, improve with rest.
Massage	Massaging numb legs and feet helps improve blood flow and may reduce symptoms.
Heat	Heat can sometimes help loosen stiff, sore, or tense muscles that can put pressure on nerves and cause numbness. However, avoid overheating numb legs and feet, as this may or worsen inflammation and cause pain and numbness.
Epsom salt baths	Epsom salts contain magnesium, a compound known to increase blood flow and circulation. Epsom salts can be used for numbness.
Exercise	A lack of proper exercise can weaken the heart and blood vessels, reducing their ability to pump blood to the lower limbs. Activities such as yoga, Pilates and regular exercise can promote blood flow and reduce chronic inflammation or pain.
Supportive devices	Braces and specially designed footwear can help reduce nerve pressure caused by conditions such as injury, tarsal tunnel syndrome, or flat feet.
Sleep	Many of the chronic conditions associated with leg and foot numbness are known to worsen with a lack of proper sleep. Sound sleep can help recover numbness.
Mental techniques	People with conditions that cause chronic numbness, such as MS and fibromyalgia, should try to focus on the fact that the periods of numbness are often short-lived and go away on their own.
Stress reduction	Stress tends to make the symptoms of viral nervous system disorders worse, which reduce numbness through its management.
Inspection	He/she makes sure to inspect his/her feet for sores and blisters. This is important regardless of the cause of numb or tingling legs or feet. Numbness can prevent them from feeling injuries, which can lead to infections that could spread to other areas of the body.
Balanced diet	Malnutrition, especially vitamin B deficiencies, can cause nerve damage leading to numbness. Getting enough vitamins and other nutrients can also reduce chronic inflammation and pain, which can cause numbness.
Bracing	For people experiencing too much pressure on the nerves, braces can help to relieve that pressure, and any subsequent pain and numbness. Supportive shoes can also help.
Avoidance hot drinks	Alcohol contains toxins that can cause nerve damage and numbness. Alcohol also usually makes the symptoms of chronic pain and inflammatory conditions worse and can even cause flare-ups of symptoms.
Avoid pain killer	For pain management, the patient can avoid pain killers, which affect in kidney or birth disease for a long time. Expert physician's advice can follow alternatively according to the type of numbness situation.

4.5. Home-based Remedies

Home remedies that may help to relieve uncomfortable numbness in the legs, feet or lower part of the body through following parameters [2,78,79,80,85], which as shown in Table 3.

4.6. Challenges

At present, developing countries have no reliable secure sensor data despite substantial investments in digital health systems due to lack of sensor security [2,54,55]. The crowdsourcing data about providers, facilities and health measures is likely to grow more individuals with wireless sensor networks at risk. Artificial health intelligence and the internet of everything are used for better care and diagnosis, but these are expensive innovative technologies and lack effective security. Besides, PANCU is expensive and rare in market [1].

5. Conclusions

In conclusion, the research is pioneer, particularly new trends and advances linking with diagnosis and technological treatment. The study identifies the numbness of limbs or part of the body within GPS locations because of the fluctuated radio frequencies. Based on this research, human beings and animals are not secure due to misuse of processed frequencies with body boundary wireless sensor networks in the existing environment. However, the study has attempted to improve a complete scenario of the speeding up causes of numbness in hands, feet, lower part of the body or complete body due to disseminating the fluctuated, homogenous and processed wireless sensor particles. The findings of this study obviously show sensor network security and dynamic health policy towards present and rationalized generations. Everyone stays at optical sight with body boundaries and innovative technology, but none can be aware of its security systems. So, policy-makers, health experts and sensor technologists should develop a dynamic, secure health system in the future.

6. Declarations

Funding

This research work is a part of PhD research, which was funded by the Zamalah Postgraduate Scholarship of Universiti Malaysia Sarawak (UNIMAS), Kota Samarahan, Sarawak, Malaysia and also sponsored by the Information and Communication Technology Division (ICTD), Dhaka, Ministry of Posts, Telecommunications and Information Technology, Government of People's Republic of Bangladesh. The funders had no role in the design of the research, in data collection, analyses or final interpretation of data, in the writings of the manuscript, or in the decision to publish the findings.

Data Availability

The data being used to support the findings of this research work are available from the corresponding author upon request.

Competing Interests

The authors declare no potential conflict of interests in this research work.

ACKNOWLEDGEMENTS

The authors acknowledged the authority of Universiti of Malaysia Sarawak (UNIMAS), Sarawak, Malaysia for providing the Zamalah Postgraduate Scholarship for the completion of the PhD degree. The authors are also grateful to the authority of the Information and Communication Technology Division (ICTD), Ministry of Posts, Telecommunications and Information Technology, Government of People's Republic of Bangladesh, for a PhD Fellowship during the higher study in Malaysia. The authors acknowledged the Authority of North East Medical College, Sylhet, Bangladesh for kind support.

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