

Dimensions Study Law Ethics Health Hospital in Era Industry 4.0

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Abstract

Law is something tool countries that have objective for put things in order, reconcile, and organize life something nation to achieve it something justice and balance between right And obligation. Development technology no can denied has change life people man from each era. Every day life we tangent with technology , okay that telephone handheld, social media or even equipment house ladder. Revolution industry 4.0 can unite digital world and physique as well as offer opportunity new for collect, distribute and use information. This matter potential for increase efficiency and push innovation in scale big in the company. According to Savitri (2019) with appearance revolution industry 4.0 will lots technology help jobs man for increase production in the company, as well can speed up the work process and maximize hours in work including on hospital. This study use approach juridical normative which is conducted through collection of sourced secondary data from regulation legislation, jurisprudence, documents policy government, articles journal scientific, books, and other related sources with subject study. This study discuss about how understanding law, ethics hospital health and Revolutionary Era industry 4.0, how impact and challenge from era revolution industry 4.0 in field health, and how method face challenge law ethics health in revolutionary era industry 4.0. Results study studied that Revolution Industry 4.0 is phenomenon Which collaborate technology cyber And technology automation. Revolution industry 4.0 is known also with the term " *cyber physical system* ". draft its implementation centered on automation. Helped technology information in process its application, involvement power man in the process can reduce. With thereby, effectiveness and efficiency on something environment work with itself increase. In world industry, this matter impact significant on quality work and cost production. However actually, not only industry, all over layer public also can get benefit general from this system; found also that is check -up medical possible for can done in house inhabitant alone with comfortable. Besides that, public isolated can get maintenance medical through telemedicine. Combination technology physics, digital and biology including pill for arrange release drug, robot Which respond thought patient as well as psychotherapy in a way *virtual reality* can combined in something application medical in future. However, opinion UNI Europe disclose that around 38% executive health believe that they enough for revolution industry 4.0. This matter imply that effort provider service health for integrate revolution industry 4.0 to in habit life they need improved. If provider service health no visit ready, role and business they will taken switch by troops from startups digital; existence IT in era revolution industry 4.0 like sword eyed tw , on one side give great opportunity good Because help in face various problem health, so health public must realized moreover formerly by public that alone besides depend on knowledge medical and nursing as well as development pharmacy ; how to deal challenges in the era of industrial revolution 4.0, namely progress technology must balanced with adaptive, collaborative, regulation uphold tall ethics, education to society, profession healthas well as regulators.

Keywords: Dimensions, Study Law, Home Pain , Industrial Era 4.0

1. INTRODUCTION

Law is something tool countries that have objective for put things in order, reconcile, and organize life something nation to achieve it something justice and balance between right and obligation. Law is set regulation the legislation contains about order and management restrictions system orderly something public and by

because that must obeyed by public that alone. On in principle law is reality and various statements variety for ensure exists adjustment freedom and will somebody with other people, who on basically law arrange connection man in public based on various principles variety too. Law arrange connection composed law from ties between individual and public and between individual that which one ? reflected in right and obligation. In his business regulate, law adapt interest individual with interest public with the best. Remember that public that alone from the individuals who cause it happen interaction, then will always happen conflict or tension between interest individual and interest individual with interest public. law try accommodate tension or conflict that the best. The law is written down in form norm made for obeyed, so If something norm violated so will worn penalty. The consequences that arise from enforcement penalty This is guarantee from government or authorities for provide a sense of security for inhabitant country so that If there is inhabitant country that feels himself is at in circumstances that are not safe so government or authorities must give protection fair law for inhabitant the country. John Rawls stated that law become fair when truly in its implementation in accordance with soul from system law positive. The reason that happened desired goal achieved from law is justice.

According to K. Berten, the word “ethics” originates from language greece ancient, namely ethos (singular form) or ta etha (plural form). Ethos means place stay, field grass, cage, habit or customs, morals, character, feelings, attitudes, and method think. Meanwhile, Ta Etha said means custom habit. However, in fact general ethics understandable as knowledge what is normal we do. In dictionary general Indonesian (WJS Poerwandaminto, 2002) is knowledge knowledge about principles morals (morals). Another meaning about ethics from Prof. DR. FRANZ Magniz Suseno. He give understanding that ethics is seeking knowledge orientation (knowledge that gives direction and footing on action man). If man own clear orientation, will life with any method or follow various party but He capable determine his fate alone. With thus, ethics can help man for responsible answer on his life. Ethics is thinking critical about various teachings and moral view. Ethics often called moral philosophy, because relate with custom customs, norms, and values that become handle in something group or somebody for arrange act in demand. Whereas hospital is form organization service nature of health comprehensive covers aspect promotive, preventive, curative and rehabilitative, as well as center reference health public. Hospital as provider service health own different characteristics with organization other, with exists characteristics the can influence climate inside organization hospital (Mayasari, 2013). Ethics state is something behavior in accordance with morals or no, as well climate ethics reflect procedure organization, policy, and practice with moral consequences (Prabowo, 2012). Development technology no can denied has change life people man from each era. every day life we tangent with technology, okay that telephone handheld, social media or even equipment house ladder. Revolution Industry 4.0 can unite digital world and physique as well as offer opportunity new for collect, distribute and use information. This matter potential for increase efficiency and push innovation in scale big in the company.

According to Savitri (2019) with appearance revolution industry 4.0 will lots technology help jobs man for increase production in the company, as well can speed up the work process and maximize hours in work. From the explanation the revolution industry 4.0 is a revolution new thing that emerges, revolution based technology that can in a way direct help man in finish his job, with appearance technology new so will impact for world industry, business, and source power man. No only technology inside the factory will changed, however system management from a company like system technology, business, and source power man also will changed. According to Schwab (2019) Revolution Industry 4.0 emerges be marked with exists breakthroughs new to the field technology that includes field wide like intelligence artificial (Artificial Intelligence -AI), internet of things everything (Internet of Things- IoT), vehicles automation, 3 -dimensional (3D) printing, nanotechnology, biotechnology, materials science, energy storage, as well as computing quantum. In revolution industry 4.0 sources Power man need own appropriate competency with development from revolution industry 4.0. According to Hardjosoendarmo in Mislani Sihite (2018) college tall need own graduates who have competence for face revolution industry 4.0 such as, capabilities think critical as well as make decision, ability in finish problem, ability think innovative, ability communicate and cooperation, ability in field knowledge knowledge, abilities in hold not quite enough answer, ability or intelligence emotional (Emotional Intelligence), ability social in adaptability, ability leading (Leadership), Creativity, ability in field technology. With own wrong one from competence the so will support HR capabilities in facing the Era of Revolution Industry 4.0. The development of the internet has start revolution industry 4.0. With the internet, a production process can arranged virtually and each other connected with exists system computing cloud(*Cloud*), analysis data, and IoT (*internet of things*). (Tanpommas, 2018). Era of revolution Industry 4.0 delivers challenge real ones that don't light in sector health. Besides bonus demographics which overflow, challenge other Also there is on realm innovation technology service health (Sihombing, 2019).

2. METHODOLOGY

This study adopt method juridical normative, which emphasizes on analysis to regulation legislation, documents policies, as well literature relevant laws with dimensions study law, Ethics health house sickness (Hospital) in the Era industry 4.0; this approach chosen for deepen framework reviewing law dimensions study law, Ethics Health House Sickness (Hospital) in the Era industry 4.0 , evaluate obedience to norm existing laws , and identify challenge emerging law in implementing era 4.0 at hospital. Analysis done through collection of sourced secondary data from regulation legislation, jurisprudence, documents policy government, articles journal scientific, books, and other related sources with subject study. This approach possible researcher for understand and interpret framework law in a way comprehensive, as well analyze the implications to dimensions study law, ethics health house sickness (Hospital) in the Era industry 4.0. In this study is expected can give based recommendations implementation for strengthen dimensions study law , ethics health house sickness (Hospital) in the Era industry 4.0.

3. RESULTS AND DISCUSSION

Definition Law , Ethics Hospital Health and Era Revolution Industry 4.0

Law is regulations made for arrange act in demand man. By lexical, legal is regulation or customary official considered confirmed binding by ruler or government. Law also covers rule form constitution as well as regulation related, rules in society, and determined decision by enforcer law. According to opinion a number of expert , as following ;

1. Utrecht : law is a set of life instructions (either commands or prohibitions) that regulate rules in a society which should be obeyed by members of society and if violated can result in action from the government of that society
2. Van Apeldoorn : law is a social phenomenon; there is no society that does not know the law, so the law becomes an aspect of culture such as religion, morality, customs and customs.
3. Immanuel Kant : law is the totality of conditions for people's free will to be able to adapt to the free will of other people, by following the rules regarding freedom.
4. Thomas Hobbes : Laws are orders from people who have the power to rule and enforce their orders on other people.
5. SM Amin : law is a collection of regulations consisting of norms and sanctions.
6. JCT Simorangkir and Woerjono Sastropranoto : law is a coercive regulation, which determines human behavior in the social environment which is made by an official competent body, violations of this regulation result in action being taken, namely by punishment.

The word " ethics " According to K. Berten originate from Language Greece ancient, namely ethos (singular form) or ta etha (plural form). Ethos means place stay, field grass, cage, habit or customs, morals, character, feelings, attitudes, and method think. Meanwhile, Ta Etha said means custom habit. Furthermore according to the *Latin* word Ethics, namely related with words *mores* and *ethos*, which means morals, customs habits, character, feelings, attitude which good, and which worthy. Generally second say this in suite *mores of community* (politeness society) and *ethos of the people* (morals man). So ethics very related with morals and morals, which is mark sublime in act in demand and also relate very tightly with heart conscience (Darwin & Hardisman, 2014). According to Priharjo (1995), ethics is something discipline which started with identify, organizing , analyze and decide behavior man with apply principles for determine behavior which good to something situation which faced. According to Martin (1993), ethics defined as “ *the discipline which can act as the performance index or reference for our control system* ”. With Thus, ethics will give sort of limitation or standard Which will arrange association man in in group social. According to dictionary big language Indonesia, ethics explained with differentiate three meaning as following : (1) Knowledge about what which good and what the bad one and about right and obligation moral (morals) (2) Gathering principle or value if you mind with morals (3) Values regarding right and wrong that are held a group or society. (Purnama, simdos unud.ac.id,2016).

Ethics health public is something order moral based on system applicable value universally deep existence prevent development risk on individual, group and public which result in suffering sick and disability as well increase empowerment public for life healthy and prosperous. Ethics health public very different with ethics medical which state that in operate work medical a doctor don't influenced by considerations personal, a doctor must always remember obligation protect life creature human, a doctor treat friend his colleague as he alone want to treated , a doctor must still look after health himself (Purnama, simdos unud.ac.id, 2017). Revolution Industry 4.0 is phenomenon which collaborate technology cyber And technology automation. Revolution Industry 4.0 is known also with the term " *cyber physical system* ". Draft its implementation centered on

automation. Helped technology information in process its application, involvement power man in the process can reduce. With thereby, effectiveness and efficiency on something environment work with itself increase. In world industry, this matter impact significant on quality work and cost production. However actually, no only industry, all over layer public also can get benefit general from this system. (Rizkinaswara, 2020). Definition about Industry 4.0 is diverse because still in stage study and development. Chancellor Germany, Angela Merkel (2014) opinion that Industry 4.0 is transformation comprehensive from whole aspect production in industry through merger technology digital and Internet with industry conventional. Schlechtendahl et al (2015) emphasize definition to element speed from availability information, that is a environment industry where all over the entity always connected and capable share information one with which other. Understanding which more technical be delivered by Kagermann et al (2013) that Industry 4.0 is integration from *Cyber Physical System* (CPS) and *Internet of Things and Services* (IoT And IoS) to in the process industry covers manufacture and logistics as well as other processes. CPS is technology for combine between world real with cyberspace.

This merger can materialized through integration between physical processes and computing (technology *embedded computers* and network) in a way *close loop* (Lee, 2008). Hermann et al (2015) add that Industry 4.0 is term for mention bunch technology and organization chain mark form *smart factory*, CPS, IoT And iOS. *Smart factories* are factory modular with technology CPS Which monitor process physique production then display it virtually and do decentralization taking decision. Through IoT, CPS capable each other communicate and work the same in real time incl with man. iOS is all application service that can utilized by every holder interest good internally and between organization. There is six principle design Industry 4.0 that is *interoperability*, virtualization, decentralization, ability *real tim*, oriented service and nature modular. Based a number of the explanation above, Industry 4.0 can interpreted as the industrial era in which all over entities that exist within it can each other communicate in a way *real time* when just with based utilization internet technology and CPS use reach objective achieved creation mark new or optimization existing value there is from every process in industry. Number four on term Industry 4.0 refers on that revolution to four. Industry 4.0 is unique phenomenon if compared to with three revolution industry which precede it. Industry 4.0 announced in a way a priori Because incident in fact not yet happen and still in form ideas (Drath & Horch, 2014). Term Industry 4.0 alone in a way official born in Germany specifically moment hannover fair held on in 2011 (Kagermann, Lukas, & Wahlster, 2011). Germany own interest which big related matter this because industry 4.0 becomes part from policy plan its construction which called high-tech strategy 2020. Policy the aim for maintain Germany so always be at the forefront in world manufacturing (Heng, 2013). A number of other countries too join in as well as in realize draft Industry 4.0 However use term which different like *smart factories*, *industrial internet of things*, *smart industry*, or *advanced manufacturin*. Although own mention different terms, all of them own the same purpose that is for increase Power competitive industry each country in face market very global dynamic. Condition the caused by rapidly development utilization digital technology in various field (Prasetyo & Sutopo, 2018).

Impact Era Revolution Industry 4.0 On Field Health

Sector health is most likely sector get profit from Revolution Industry 4.0 because joining system physics, digital and biology, though sector this possible also the least ready accept. The economist intelligence units do survey against 622 leaders business from various industries throughout world which strengthe the metter. Various detailed data about health and fitness status somebody can collected by telephone handheld and tool fitness which used daily. Data the can used for study health and also potential for transform health individual and needs the medical. The study the economist intelligence unit said that part doctor believe that technology telephone clever very role in empowering patient for arrange health in a way proactive. There is lots impact from revolution industry 4.0 in field health. There is change and progress in field healt, specifically in implant tooth, surgery beauty, and oncology. Planning and placement implant tooth which appropriate done with imaging 3d modern and system planning maintenance implant. This approach has introduced and allowed for transfer virtual planning to procedure clinical, possible for that operation not enough invasive, placement implant which adequate, subtraction inconvenience post operations, and making structure prosthetics before procedure surgery. Surgery orthognathic moment this has use 3D technology for increase planning and results surgery. This during technology two dimensions (2D) own limitations for identify, especially for patient with asymmetry face. However 3D technology makes it possible presentation accurate form 3D Which complex for reconstruction model framework craniofacial and for predict results end guide intraoperative like splint surgery, guide determination position, and plan navigation preoperative designed in a way digital and prepared with simulate operation on model picture CT 3D. Business which needed for splint closing surgery 3d printing for surgery orthognathic more a little than splint artificial in a way manual use arc advance conventional and model casting

tooth on articulator. Besides that, there is potency *telemedicine* which explored by lots provider service health. *Telemedicine* is monitoring and treatment patient from distance far through sensors which connected to Internet. Treatment elderly which suffering disease chronic expected can helped by exists *telemedicine*. In the future check up medical possible for can done in house inhabitant alone with comfortable. Besides that, public isolated can get maintenance medical through *telemedicine*. Combination technology physics, digital and biology including pill for arrange release drug, robot which respond thought patient as well as psychotherapy in a way *virtual reality* can combined in something application medical in future. However, opinion UNI Europe disclose that around 38% executive health believe that they enough for revolution industry 4.0. This matter imply that effort provider service health For integrate Revolution Industry 4.0 to in habit life they need improved. If provider service health no visit ready, role and business they will taken switch by troops from startups digital. There is a number of technology used in the field biotechnology medical and develop on era Revolution Industry 4.0, including :

1. Clustered Development Regularly Interspaced Short Palindromic Repeat (CRISPR) / CRISPR-associated protein (Cas) 9 system rapidly in a very short time and has been used for various gene target on man, bacteria, fish zebras, worm *C. elegans*, plant, *Xenopus tropicalis*, rats, mice, etc. This method used researcher for make *point mutation* (deletion or insert) in gene target certain through single gRNA. CRISPR has developed over the years the last 20 years from what started as a DNA sequencing tool with function biological which no is known become editor genome which has succeed used in test with various cell. matter this useful in biology synthetic, screening genome functional, modulation transcription, and therapy gene.
2. Tool computing in silico has help search drug new by developing small molecules over three decades as well is strategy which very effective for develop a new drug. Over the last decade there has been an increase in method computing invention drug like docking molecular, pharmafore modeling and mapping, design de novo, calculation similarity molecular and screening virtual based order proteins. However along walking time, needed technology computing in silico which very advanced. Finally appear process *high throughput screening* which based by more sophisticated in silico programs and very computers qualified. molecule drug own lots challenge for penetrate various biological barriers in order to bond effectively effective on targets, even at low concentrations. Toxic effects in organisms can caused by existence off-target reactions from something molecule although potency drug the in a way pharmacological enough tall. Problem main in development of a drug is toxicity. Often in stages development, toxicity new detected lately.
3. Microbiota intestines can role in give rise to disease specific to humans and maintain health directly. This matter show that combination antibiotics, probiotics And prebiotic Which cause change composition microbes commensals may be a new therapeutic approach. To help understand interaction complex bacteria and cell "host" as well as their relationship is pathophysiological a phenotype is required perspective 'system', so that can done change in composition microbiota intestines in status disease. Appearance metagenomics and metabonomics that is technology 'omics' can applied to study the molecular level of gut ecology microbes. Data the will give opportunity for disclose function physiological from microbiota intestines for human health. In the future, in the treatment of patients will utilise microbiota intestines for various disease which the more complex. Amount target potential microbiome on genome man own total more from 3,000 target. For arrange microbiome And as a result restore homeostasis ecology intestines from host, can used combination antibiotics, probiotics and prebiotics. Metagenomics 'omics' technology platform and metabolomics catch variation biochemistry in a way holistic and dynamic which related with condition pathophysiology from hosts so that approach therapy the can monitored and evaluated. as a result, integration data metabonomics and metagenomics will produce pharmacological and clinical data can be the basis for the development of diagnostic and prognostic tools which comprehensive about disease complex
4. Correlation simple between clinical syndrome and analysis pathological starting from the late 19th century underlies contemporary views human disease. Approaches to disease diagnosis, prognosis, and this treatment is not yet completely perfect and available serious shortcomings for the modern era of genomic medicine because this method is a derivative derived from reductionist analysis and principle experimentation although already used dozens year as well as good for world medicine. Appearance era new systems biology more promises to see treatment from holistic side because it can quantify system changes in man. This matter can straighten up diagnosis, define predilection disease, develop treatment strategy in a way individual based on molecular pathobiology modern as well data complete genomes are available for populations and individuals. Biology system apply computational models and

mathematics on complex biological systems. Engineering engineering approach to scientific biological research in this case is used. Example of use system holistic is project *sequencing* genome man on in 2000 which is a collaborative project in the field of genetics. Benefits of using a holistic approach based network is that we can characterizing various type disease with a system based on molecular interactions between cells and tissues and organs without following system principles reduction semiempirical. Treatment which obtained with biology system this in period front will bring revolution new for practice medical. (Hidayaturrahmah , 2019)

Challenge which Confronted Ethics Health in Era Revolution Industry 4.0

Era revolution industry 4.0 give challenge which No light in sector health. Apart from the demographic bonus abundant, challenging others too there is on realm innovation technology service health .

1. Health Public

Prevalence disease infectious especially still TB tall. Beside that, pattern a life that doesn't healthy also push increasing disease no infectious such as stroke, heart and diabetes. System manage environment which bad become notes, like pollution air, water, waste dangerous and poisonous. All form pollution the can give rise to problem light health until serious. (Sihombing, 2019). Freedom information in era digital this also often called as a disruptive era, namely an era where technology and public can develop in a way dynamic in very time fast, good in matter positive nor negative and can become viral only in count second . In field health, information outstanding free often not can accountable the truth And become misleading hoax public. Of course matter this can become challenge for the workers health public especially part promotion health because circulated wrong information about health will very influential for pattern behavior healthy in environment public (Iro , 2019)

2. Medical

There is presumption that profession doctor will experience competition. If formerly doctor which determine all diagnosis and treatment, now patient can look for all information in a way free without depend with doctor. With the existence of the watson intelligence program (Product from IBM which was launched since 2015), patient no need meet doctor and go to hospital. Only with enter data- data to in program watson, patient can obtain information regarding diagnosis and choice possible treatment chosen. no can denied that development technology has change industry health in a way radical. This matter of course give rise to worry on para practitioner health that service medical conventional which emphasize exists stare advance between doctor and patient will is lost

3. Nursing

In the era industry 4.0 this knowledge nursing must adopt development technology because handling patient in century front also will different along walking time. Nursing in century front will leads on use robot which can replace a number of function nursing. This matter no possible done with support technology moment this already created robot which can give drug. Utilization technology and intelligence artificial operate various technology start from process production and distribution to consumer, what we can be certain of is will give chance new for increase power competitive industry and change style life (Liputo , 2019)

4. Pharmacy

Existence I.T in era revolution industry 4.0 like sword eyed two, on one side give great opportunity good because help in face various problem health. But, in side other if utilized person no responsible answer can, can become boomerang for patient because his safety can forgotten. Use drug can, can no rational. Because, society can buy online, without there is even a little bit instruction from power medical or pharmacist (Great, 2019).

Method Face Challenge Ethics Health In Era Revolution Industry 4.0

Progress technology must balanced with adaptive regulation ,collaborative, upholding tall ethics, education to society , profession health as well as regulators. Public need join in as well as reflect condition And readiness sector health Indonesia To use face Revolution Industry 4.0.

1. Health Public

Face revolution Industry 4.0, then a expert health public must own certain skills. Like ability for think critical, ability communication, collaboration, problem solving, ability adapt with technology and other etc (Rahma , 2019). Era of revolution industry 4.0 this is the *post truth* era. By therefore we need alert and public must the more intelligent sort information so that no trapped on hoax. Matter the Because presence dissertation technology with content will can form mark new in society. For respond existing

challenges, FK -KMK UGM has develop channel information health trusted which given Name INAHEALTH since in 2017. As wrong one movement promotion health digital, until moment this channel INAHEALTH in YouTube *platform* has subscribed more from 5000 customer. Through channel this information, public expected the more easy for find source information health which Trusted And can ward off *hoax* in media digital. Besides that, Wisaksono Adhi, as manager INAHEALTH Also expect exists collaboration more wide together *content creator* and power health public, so that can multiply information Interesting health and trusted in society and increase literacy health in public (Iro, 2019)

2. Medical

In the era of revolution Industry 4.0 or what is called the era of disruption this, innovation in the field education, incl education medicine ,must notice various characteristics and trend public in this era. Matter that like all round digital, *internet of thing, big data, artificial intelligence, roboting, augmented reality*, and other etc. In respond presence this era, Higher Education has transform role college tall for produce graduate of which no only as *agent of education and research* but also become *agent of culture, knowledge, and technology transfers*. College tall pushed so that graduates capable become *agent of economic development* (Knight, 2020)

3. Nursing

A nurse must can balance and adapt with environment around which is based technology. Factors that important is skills and competence nurse in power medical in a way consistent. Need improved in accordance development and prioritize safety patient. Nurse also must have *critical thinking* have idea innovative , and adaptive to facing changing eras all element good that patient and power medical other. Role nurse no limited give care nursing (ASKEP) but must own skill counseling for convey education on patient, phenomenon the has change characteristic service nursing from service focal only based on working professional service on mastery knowledge knowledge and technology nursing. There are five (5) softs the most needed skills in facing the era revolution industry 4.0, namely :

- a) Creativity : A nurse have the ability to create something Which new for give idea creative in solving problems or as the ability to see relationships which new between elements which already there is previously. Generally creativity as person, process, press, products. Fourth, this each other related, namely a creative Person who involves himself in process (Process) creative, and with encouragement and support (Press) from environment, produce product (Product) creative. So that creativity and innovation very important in face era revolution industry 4.0 in all things
- b) Persuasion : Nurse must use communication which used for influence and convincing person other. Through persuasion every nurse try influence patient beliefs and expectations. Persuasion on in principle is effort convey information and interact between humans in conditions where both parties party you're welcome understand and agreed for do something which important for second split party.then we can build connection each other believe (BHSP) to patient we so thatthey more open inside process service health
- c) Collaboration: Power health must can form interaction, discussion, compromise, cooperation which relate with individual, group or a number of party health other, besides that, collaboration means own values which the same and strong as a component effective collaboration. has direction objective which the same, perception determination for look for solution for heal patient by because that collaboration very inneed between fellow energy healty
- d) Adaptation : Nurse capable adjust/adapt against increasingly rapid global growth in the era of revolution Industry 4.0 so that nurses will not even be less competitive with technology though
- e) Time management : Nurses must have a listthe planning that will be done so that it will be well organizedgood and until develop time to productivitytime to achieve goals effectively and efficiently (Liputo, 2019)

4. CONCLUSION

Laws are regulations created to regulate human behavior. Lexically, law is a regulation or custom that is officially considered binding and confirmed by a ruler or government. Law also includes rules in the form of laws and related regulations, rules in society, and decisions made by law enforcers. Whereas health ethics is taken from the word ethics which is a discipline which begins with identifying, organizing, analyzing and deciding human behavior by applying principles to determine good behavior in a given situation faced while the Industrial Revolution 4.0 is a collaborative phenomenon technology cyber And technology automation.

Revolution Industry 4.0 known also with term “ *cyber physical system* ”. Sector health is sector which most possible getprofit from the Industrial Revolution 4.0 because joining system physics, digital and biology. There is change and progress within field health, specifically in implant tooth, surgery beauty, and oncology as a dimension that is developing in the era of industrial revolution 4.0 presents challenges that are not easy health sector. Apart from the abundant demographic bonuses, there are challenges other also there is on realm of innovation technology service health. The way to face challenges in the era of industrial revolution 4.0 is progress technology must be balanced with regulations that are adaptive, collaborative, upholding ethics, educating the public, health professionsas well as regulators.

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