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Impact of the COVID -19 Pandemic on Ayurveda Practice & Research: An Observational Output

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ABSTRACT: Impacts of diseases can be assessed through various changes in society after an insurgence of new disease. It remarkably influences the existing system and can be interpreted as positive, negative or neutral based on the sensible variables. Although negative impacts are noted in terms of lock down of Ayurveda hospitals, clinics, Ksharasutra clinics (Para-surgical practice for anorectal diseases) and panchakarma centers. There is a significant drop of OPD strength due to lock down and shut down process. IPD services of most of Ayurveda hospital is closed down or running with very less patients. There is a mass drop out/partial drop out of research subjects from ongoing clinical trials and new patient's recruitment is not possible for close down of clinical laboratories. But positive impact is more as it creates awareness to opt Ayurveda kwatha, nasya, pranayama and yogasana to prevent COVID-19 which reached every house of India. More funds are diverted for clinical trials of Ayurveda formulations in COVID-19, purchase of sanitizer, masks, PPE kits etc and awareness. AYUSH Sanjeevani app is much successful procedure to monitor the AYUSH advocacy in COVID-19. Ayurveda Kits for corona have been distributed in venerable groups and front-line warriors by different Ayurveda Colleges and Institutes. Many Institutes conducted Webinars on Practice of Ayurveda Immuno-booter in COVID-19 from unlock-3 onwards to aware the practicing doctors. Controversies raised for evidence of the efficacy and safety of Ayurveda formulations in COVID-19 but preliminary evidences showed Ayurveda formulations like AYUSH-64 and others showed better clinical output compared to conventional standard therapy in clinical trials. It was concluded that Positive impact is more than the negative Impact on Ayurveda practice and research in the COVID-19 pandemic situation.

Key words- Positive impact, Negative impact, COVID-19, AYUSH Sanjeevani app, AYUSH advisories

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INTRODUCTION

Impact is the remarkable influences on the existing system by forced invade of a new think as like-pandemic disease. This impact can be interpreted as positive, negative or neutral based on the sensible variables. It is an essential exercise to assess impact of serious illness in pandemic form for its negative and positive influence on the economy, society, public policy, preventive, promotive and curative health, quality of life, environment and to allocate research project for maximum benefit with minimum waste of funds and manpower¹. Health impact assessment (HIA) is a combination of procedures, methods and tools used to evaluate the potential health effects of a policy, programmer or project. Using qualitative, quantitative and participatory produce techniques, HIA aims to recommendations that will help decision-

makers and other stakeholders make choices about alternatives and improvements to prevent disease/injury and to actively promote health². COVID -19 pandemic has a significant remark in many areas which are reflected in Wikipedia. But its impact on Ayurveda practice and research is not found either in Wikipedia or another search engine in internet platform. Therefore, an attempt was taken to assess the impact of COVID -19 pandemic in Ayurveda practice & Research.

Ayurveda is a live traditional system of health care with an unbreakable practice since 3000 years. Ayurveda gained importance in its own country where it was originated after the establishment of Department of AYUSH in 2003. Then National Rural health mission (NRHM) includes Ayurveda (one of the components of AYUSH) as alternative therapy option to integrate with western medicine to serve the people of India in better way in 2005. Ayurveda health care is more focussed after the establishment of AYUSH ministry in 2014³. Central council of Research in Ayurveda Sciences (CCRAS) has also intensified the specific research-based programme and project and renamed its institute as specific system based to create more data on practice of Ayurveda & initiate research in 2016. Herbal medicine is used by 75–80% of the world population, mainly in developing countries for primary health care². But only 6.9% of Indian population favored AYUSH system of medicine as evident in NSSO survey in 2014⁴. Many committees recommended that more awareness and research are required to Popularize the system. Many patients prefer Ayurveda after dissatisfied or frustration with contemporary medicine, low cost of Ayurveda medicine in comparison to allopath, easy excess to Ayurveda physician, last option and less side effect⁵. More over some patient choose Ayurveda primarily based on their personal experience and strong recommendation of other people^{6,7}. The Ayurveda diagnostic process is subjective and patient oriented, some of diagnostic tools such as Prakruti

(Constitution) assessment Parikshya (Pulse diagnosis) are also patient centric. The treatment always personalized and classified as Sodhana (Purificatory) and Samana (Palliative). The Sodhana therapy is also called as *Panchakarma* therapy or detox therapy where *snehana* (oleation) and *swedana*(Sweating) are preparatory therapy which need personal contact of panchakarma technician and Ayurveda physician. Ksharasutra, leech therapy and *uttaravasti* are para surgical procedures mostly practice in Ayurveda hospitals. The researches in Ayurveda are academic research in post graduate centers and special research in Research centers. Some of the academia and Institutes have been conducting clinical trial. animal experiments and other researches likeepidemiology, Clinical Pharmaco epidemiology etc^{8,9}.

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MATERIALS AND METHODS

The Impact is measured by observing different activities of Ayurveda Institutes and following leading newspapers, Journals and wave site.

Impact of COVID-19 Pandemic

COVID-19 Pandemic impact on almost all sectors of India and luck down impact on supply chain, decrease government income, collapse tourism, reduce consumer activities and raised unemployment. Government has announced variety measures and release extra budget to handle the impact from food security to health care sector. COVID-19 Pandemic has political, educational, religious (closed down of temple, churches, Masjids), psychological impacts and found increase of domestic violence. The positive impact of covid-19 on environment is that 25% reduction of carbon emission and 50% reduction of nitrogen oxide emission which save COPD patients from execration¹⁰. If health care sector is considered, then various clinical guidelines are issued for management of COVID-19 patients as well as normal patients. Research Councils under the Ministry of AYUSH, Government of India have also issued advisory based on the Indian traditional medicine practices i.e. Ayurveda, Homeopathy and Unani before the outbreak in India¹¹. A consensus statement in Ayurveda management and prevention was developed for COVID-19¹².

Impact on Avurveda Practice & **Research** – In the first & 2^{nd} phase of lockdown. many Ayurveda hospital discharged their IPD patients. The private Panchakarma hospitals and message centers are completely closed down which are partial depend on tourism ¹³. All parasurgical procedures and invasive panchakarma procedure are stopped due to outbreak of COVID-19. In this stage more asymptomatic cases and carriers are found, which would amplify the chances of infection, therefore Ayurveda doctors managed the research and general cases by wearing surgical mask, hand wash by sanitizers. After that PPE kit was provided to some doctors those are doing COVID duty¹⁴. Ayurveda doctors postponed the wellness therapy and medication to nonurgent cases. IPD services of most of Ayurveda hospital is closed down from Lock down -1 or running with a smaller number of patients. In the Unlock process, some of the Ayurveda hospital and Medical colleges converted to COVID hospital by its State government. Some of AYUSH doctors sacrificed their life also.

Time line	Activities	Impact	
Lock down 1	Public Transport system	Most hospital's IPD &OPD services	
(25 th March to 14 th	stopped, strict on mobilities of	closed. only service provided for	
April	person. Strict enforcement of	urgent case. Mask and snitizer	
(21days)	law and order.	supplied to Covid warrior. OPD	
	AND ADDRESS OF TAXABLE	strength less, subject droped out in	
		clinical trial	
Lock down -2	Some relaxation for patients,	Ayurveda hospital converted to	
15 th April to 3 rd May	doctors	COVID hospital. Doctors worked	
(19 days)		with Mask & sanitizer	
Lock down -3	Some relaxation for patients,	OPD of Ayurveda hospital with	
4 th May to 17 may	doctors	Social distance. Doctors paramedics	
(14 days)		are wearing PPE kit	
Lock down -4	Some relation	Promotion of Sanjeevani app with	
18May to31st May		PPE kit	
Un lock 1	Some relaxation, social	Clinical labrotory open, patient	
1 st June to 30 th June	distancing, hand wash, Mask	recruitment in some project	
	use is compulsory with weekly	started .and promotion of AYUSH	
	two days shout down	sanjeevani app.	
Un lock 2	social distancing, hand wash,	Promotion of AYUSH Sanjeevani	
1 st July to 31 st July	Mask use is compulsory with	app, Tele Medicine Practice in	
	weekly two days shout down	some Institutes	
Un lock 3	social distancing, hand wash,	Webinar of Ayurveda Immuno	
1 st August to 31 st Aug	Mask is use is compulsory with	boosters, Tele medicine practice	
	weekly two days shout down		
Unlock 4	Full relaxation on mobilities	Webinar of Ayurveda Immuno	
1 st Sep to 30 th Sep	with Mask, Public transport	boosters, Telemedicine, Corona Kit	
	services are reappeared.	distribution to Vulnerable group	
Unlock -5	Full relaxation on mobilities	OPD functioning with Mask use,	
	with Mask, Public transport	social distancing, Tele medicine	
1 st Oct-31 st Oct	services are reappeared	stopped in some Institute, Corona	
		Kit distribution to Vulnerable	
		group, IPD services of some	
		Institute reopened, Press conference	
		and news in press and electronic	
		media.	

Table No-1. Milestone of lock and unlock process in COVID-19 pandemic and its impactin Ayurveda Practice and Research

The impact on Ayurveda Research is also noted in many centers, the trial subject cannot continue the clinical trials due to lock down and shut down principle of government and unavailable of public transport. There is a mass drop out/partial drop out of subjects from ongoing clinical trials and new patient's recruitment is not possible for close down of clinical laboratories. There is more ongoing research on Immuno boosting properties and preclinical studies¹⁶. In the midst of the Pandemic, MoHW, in collaboration with Niti Aayog, released Telemedicine Practice Guidelines enabling Registered Medical Practitioners to provide healthcare in remote settings using telemedicine. These guidelines are recognized by some of the Ayurveda hospitals. The patient's attendance dropped up to 80% of most of Ayurveda hospitals. The clinical trials cases dropped out the trial due to lock down process. Whereas new trials on COVID-19 was encouraged, but clearance from state government to conduct trial on covid-19 was a top job in many states. More positive impacts were generated when Prime Narendra Modi Minister endorsed traditional ways to boost the immune system, directing people to follow the guidelines issued by the AYUSH ministry

to avoid contracting Covid-19. The prime minister also asked those practicing traditional medicines to utilize the platform of tele-medicine and reach out to the people to generate awareness in the fight against the Covid-19 pandemic. Phyto therapeutic agents containing higher concentration of sesquiterpene, poly phenols and flavonoids have inhibited the production of inflammatory cytokines and prostaglandin which are more produced in COVID-19. Yastimadhu, Gilay and Aswagandha has equal effect on cough as codeine. The Anu taila nasya has special power to prevent COVID-19. More than 70% of Indian population has been using Ayurveda Kwatha (Decoction), Haldi milk, Use Chaubanprash and practice Yogasana and pranayama for prevention of COVID-19. clinical research More studies on Ayurveda interventions have been undertaken as prophylaxis and as an add-on to standard care to COVID 19. A Collaborative clinical study was proposed as a joint initiative of Ministry of AYUSH, Ministry of Health and Family Welfare (MoHFW) and the Ministry of Science & Technology through Council of Scientific & Industrial Research (CSIR) with technical support of ICMR. The Interdisciplinary AYUSH R&D Task Force has formulated

and designed clinical research protocols for prophylactic add-on studies and interventions in COVID-19 positive cases through a thorough review and consultative process of experts of high repute from different organizations across the country for studying four different interventions viz. Ashwagandha, Yashtimadhu, Guduchi +Pippali and a polyherbal formulation (AYUSH-64) developed by CCRAS. Ayush Sanjivani application-based study for impact assessment of acceptance and usage of AYUSH advisories in its role in the prevention of COVID 19 is initiated in all Ayurveda Institutes and hospitals. The Ministry of AYUSH has developed Ayush sanjeevani mobile app, for generating data of large population with a target of 5 million people¹⁶. The Researchers are worked hard to reach to expected outcomes include to generate data on acceptance and usage of AYUSH advocacies and measures among the population and its impact on the prevention of COVID-19. Various Webinar has been conducted by different Ayurveda medical colleges and research Institutes to sensitize the Ayurveda doctors regarding the usefulness of Rasayana drugs (Immuno boosters) in COVID-19 situation. The corona kits are distributed to venerable by many Ayurveda colleges and groups

Institutes. The time line with different impact is presented in Table no1.

DISCUSSION

Although negative impacts are more noted in terms of lock down of Ayurveda hospitals and Ksharasutra and panchakarma centers. There is a significant drop of OPD strength due to lock down and shut down process. As Ayurveda diagnostic process is subjective and patient oriented, some of diagnostic tools such as *Prakruti* (Constitution) assessment and Nadi Parikshya (Pulse diagnosis) are need direct patient contact and treatments are also patient centric so more drop in patient's ratio are observed in Ayurveda Hospitals. But positive impact is more as it create awareness to opt Ayurveda kwatha, nasya, pranayama and yogasana to prevent COVID-19. Ayurveda reached every house of Indian.

CONCLUSION

Positive impact is more than the negative Impact on Ayurveda practice and research in the COVID-19 pandemic situation.

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REFERENCES

- 1. Mardinoglu A, Nielsen J. Editorial: The Impact of Systems Medicine on Human Health and Disease. *Front Physiol*, Published 2016.
- 2. Shroff FM. What is ayurvedic health care and how is it applicable to the Modern Day. J Nutr Hum Health. 2017;1(2):17-29
- 3. Samal Medicinal Plants and related development in India: A peep into 5-year plans of India. Ind I Helath Sci Biomed Res 2016; 9:14-9
- Samal, Janmejaya (8 November 2015). <u>"Situational analysis and future directions of AYUSH: An assessment through 5-year plans of India"</u>. *Journal of Intercultural Ethnopharmacology*. 4 (4): 348–354.
- 5. M. M. Pandey, S. Rastogi, and A. K. S. Rawat, "Indian herbal drug for general healthcare: an overview," *The Internet Journal of Alternative Medicine*, vol. 6, no. 1, p. 3, 2008
- 6. Samal, Janmejaya; Dehury, Ranjit Kumar (18 October 2018). "Utilization, preference, perception and characteristics of people adopting traditional and AYUSH systems of medicine in India: a systematic review". *Journal of Complementary and Integrative Medicine*. 16 (2)
- 7. Panda AK, Jaikrishnan (2006) Consumer demand of traditional medicine in Chennai rural. Aryvaidyanan 19: 180-183
- 8. <u>https://science.thewire.in/the-sciences/ministry-of-ayush-task-force-clinical-trials-herbs-prophylactics/</u>
- 9. Edwards SJ. Ethics of clinical science in a public health emergency: drug discovery at the bedside. *Am J Bioeth*. 2013;13(9):3-14. doi:10.1080/15265161.2013.813597
- 10.Bobdey S, Ray S, Going Viral Covid-19 impact assessment : A prospective beyond Clinical Practice .J Mar Med Soc 2020;9-12.
- 11.Advisory for Corona virus, Homoeopathy for Prevention of Corona virus Infections,

 Unani Medicines useful in symptomatic management of Corona Virus infection. Press

 Information
 Bureau.

 Available
 online

 at: pib.gov.in/Pressreleaseshare.aspx?PRID=1600895
 (accessed August 13, 2020).

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- 12. Ashok Kumar Panda, Amit Kumar Dixit, Suvendu Rout, Biadyanath Mishra, Umesh V. Purad, Sarbeswar Kar. Ayurveda Practitioners Consensus to Develop Strategies for Prevention and Treatment of Corona Virus Disease (COVID-19). J Ayurveda Integr Med Sci Jan-Feb 2020;5(1) 98-106
- 13.S.Muralidharan, Parthasarathy Karthikeyan, Ayurveda Tourism in India: practice and Polices, (2016). Asian Journal of Research in Social Sciences and Humanities, Vol. 6, No.6, pp. 1043-1052.
- 14.David Blumenthal entitled, Covid-19 -Implication for the Health care systems, New England Journal of Medicine, July 22, 2020, DOI: 10.1056/NEJMsb202108
- 15.Gautam S, Gautam A, Chhetri S, Bhattarai U. Immunity Against COVID-19: Potential Role of Ayush Kwath [published online ahead of print, 2020 Aug 17]. J Ayurveda Integr Med. 2020;10.1016/j.jaim.2020.08.003. doi:10.1016/j.jaim.2020.08.003
- 16.Y. Elsayed, N.A. Khan **,Immunity-boosting spices and the novel coronavirus** ACS Chem Neurosci, 11 (12) (2020 Jun 17), pp. 1696-1698,
- 17.<u>https://www.devdiscourse.com/article/health/1040184-research-studies-on-ayurveda-</u> interventions-and-ayush-sanjivani-app-launched