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Review Article

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Comparison of Regulatory Bodies of Pharmaceutical Industry in U.S. and India

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Abstract The Central Drug Standard Control Organization (CDSCO) is the national administrative body for Indian Pharmaceutical and Clinical Devices. Its headquarters are in New Delhi, India. Its annual budget is USD \$ 265,000,000. Inside CDSCO, the Drug Controller General of India (DCGI) manages pharmaceuticals and clinical devices, underneath the extent of Ministry of Health and Family Welfare whereas the Food and Drug Administration (FDA) in United State is responsible for regulating Pharmaceutical drugs for humans and animals, organic products, medical devices, cosmetics, food and substance emitting radiation. Its headquarters are in White Oak Campus, Maryland. Its annual budget is \$ 3.16 billion. The FDA is driven by the Commissioner of Food and Drugs, assigned by the president with the guidance and assent of the Senate. Further Commissioner delineate to the Secretary of Health and Human Services.

Keywords proximate, ultimate, chemical compositions and FTIRS

Introduction

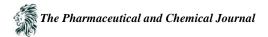
Regulatory Bodies of Pharmaceutical Industry in India Central Drug Standard Control Organization



National Regulatory Authority of pharmaceutical industry in India is CDSCO. Its parent department is Directorate General of Health Services, Ministry of Health and Family Welfare.

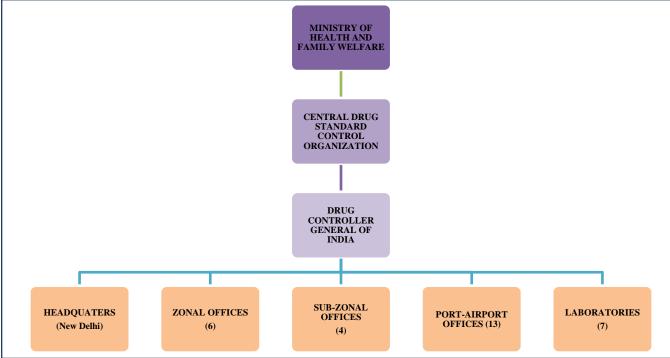
The head office is situated in New Delhi and furthermore has six zonal offices, four sub zonal offices, thirteen Port workplaces and seven research centers spread the nation over. Its annual budget is USD \$ 265,000,000 [1-3].

Drug Controller General of India is a division (DCGI) of the Central Drugs Standard Control Organization of the Government of India answerable for endorsement of licenses of indicated classifications of medications, for example, blood and blood items, IV liquids, immunizations, and sera in India. DCGI also sets principles for assembling, deals, import, and conveyance of medications in India [4]. The Ministry of Health and Family Welfare



is an Indian government service accused of wellbeing strategy in India. It is likewise liable for all administration programs identifying with family arranging in India [5].





The central government have set up these zonal offices, Sub-Zonal offices and Port offices, to work collectively with the state control administration and help them in procuring uniform imposition of the Drug Act [6].

- Zonal Offices: Ghaziabad, Chennai, Mumbai, Kolkata, Ahmedabad, Hyderabad
- Sub-zonal Offices: Bangalore, Varanasi, Goa, Jammu, Indore, Guwahati, Baddi.
- Port Offices: Ahmedabad, Chennai Port, Chennai Airport, Bangalore, Hyderabad, Goa, Kochi, Delhi, Kolkata Port, Kolkata Air Cargo, Mumbai Air Cargo, Mumbai Nhava Sheva, Mumbai Custom House.
- Laboratories: Kolkata, Mumbai, Chennai, Guwahati, Chandigarh, Kasauli and Hyderabad. These are central drug testing laboratories to conduct quality control tests.

Function

For regulating imported medications, the CDSCO jointly works with the Drugs Technical Advisory Board and the Drugs Consultative Committee, while the Central Drugs Laboratory attempts testing of such medications. The central and state authorities were established under the Drug and Cosmetics Act 1940 and Rules 1945. The task shouldered by both the central and state authorities are been summed up as follows [7]:

Functions of Central Authority

- Setting down norms of medications, beautifying agents, diagnostics and gadgets.
- Setting down administrative measures, amendement to Acts and Rules.
- Regulating market authorization of drugs which are new.
- Authority approving license for Antibodies, Sera, blood donation centers and large volume parenteral.
- The preparation and issuing of Indian Pharmacopeia.



Function of state authority

- Approval of license for manufacturing, sale and distribution of drugs.
- Quality check of drugs and cosmetics manufactured and marketed by specific state unit.
- Review of unsatisfactory medications.
- Regular investigations or examinations.

Regulatory Bodies of Pharmaceutical Industry in USA Food and Drug Administration



The United States Food and Drug Administration (FDA or USFDA) is an administration association of the Department of Health and Human Services. The FDA is liable for securing and advancing general wellbeing through the control and oversight of sanitation, tobacco items, dietary enhancements, prescribed and over-the-counter drugs (medications), immunizations, biopharmaceuticals, clinical gadgets, electromagnetic radiation transmitting gadgets (ERED), cosmetics, animal food sources and feed, blood transfusion and veterinary items [8].

The FDA is driven by the Commissioner of Food and Drugs, selected by the President with the exhortation and assent of the Senate. Secretary of Health and Human Services is been reported by the commissioner. Janet Woodcock is the acting magistrate, starting at 20 January 2021 [9].

The FDA has its central command in unincorporated White Oak, Maryland [10]. The organization likewise has 223 field workplaces and 13 research facilities situated all through the 50 expresses, the United States Virgin Islands, and Puerto Rico [11]. In 2008, the FDA started to present representatives on outside nations, including China, India, Costa Rica, Chile, Belgium, and the United Kingdom [12].

Structure

- Department of Health and Human Services
 - Food and Drug Administration
 - 1. Office of the Commissioner
 - 2. Office of Operations^[13]
 - A. Office of Equal Employment Opportunity
 - B. Office of Human Resources
 - C. Office of Finance, Budget and Acquisition
 - D. Office of Information Management and Technology
 - i. Office of Informatics & Technology Innovation
 - ii. Office of Information Management
 - E. Office of Security Operations
 - F. Office of Facilities Engineering and Mission Support Services
 - 3. Center for Biologics Evaluation and Research-(CBER)
 - 4. Center for Devices and Radiological Health-(CDRH)
 - 5. Center for Drug Evaluation and Research- (CDER)
 - 6. Center for Food Safety and Applied Nutrition (CFSAN)
 - 7. Center for Tobacco Products-(CTP)
 - 8. Center for Veterinary Medicine-(CVM)
 - 9. Oncology Center of Excellence-(OCE)
 - 10. Office of Regulatory Affairs
 - 11. Office of Clinical Policy and Programs
 - 12. Office of External Affairs



- 13. Office of Food Policy and Response
- 14. Office of Minority Health and Health Equity
- 15. Office of Policy, Legislation, and International Affairs
- 16. Office of the Chief Scientist
- 17. Office of Women's Health
- 18. National Center for Toxicological Research-(NCTR).

Functions

The FDA, officially U.S. Food and Drug Administration, guarantees that all items are protected, viable and reasonable and that customers approach the most recent items. Functions of FDA are as follows [14]:

- Food guidelines: The FDA directs food items through the Center for Food Safety and Applied Nutrition (CFSAN).
- Regulation of Drugs and Related Products.
- Regulation of Tobacco Products: It builds up explicit principles for execution, carries out new notice names, examines pre-market demands for better than ever tobacco merchandise and sets up and forces limitations with respect to notices and advancements of tobacco items.
- Research: The Food and Drug Administration is additionally liable for directing exploration and research to assist with working on general wellbeing by helping with the speedy execution of new controlled items. The FDA conducts assessments on hazards and deals with the danger choices in regards to the wellbeing, worth and adequacy of regulated product.
- Protecting people in general from electronic product radiation and assuring that foods are protected, healthy, clean and appropriately named.
- Assuring beautifying agents and dietary enhancements are protected and appropriately marked.

Conclusion

There are numerous contrasts among India and the US medical care frameworks. The essential ones include: the degree of use; the idea of medical services support, and the idea of inclusion. As indicated by different reports, the US spends near 18% of its GDP on medical services contrasted with not exactly only 4% of GDP by India. The normal consumption per capita in USA is more than \$10,000 and in India it is under \$100. This distinction is enormous. Thus, also is the idea of medical care support. In USA there is wide and broad quality help through both public and private offices. In India, the private area overwhelms quality medical care conveyance which limits access for some poor or helpless residents. This uniqueness is increased by the way that on the grounds that a larger part of Americans have some type of protection inclusion - simply 10 to 12 percent need to pay for medical services out of their own pockets. Conversely, around 70% of Indians don't have any health care coverage. Along these lines, they need to pay out of their own pocket for clinical benefits. Regardless of these distinctions which seem colossal, there are a few similitude's of extensive extent in the idea of the medical care frameworks also. The World Health Organization (WHO) gave its sole positioning of wellbeing frameworks in 2000. The US positioned 37 and India positioned 112 out of 191 nations [15-18].

References

- [1]. "Centre allots Rs. 1750-cr to CDSCO to strengthen drug regulatory system across the country". Pharma Biz. Archived from the original on 1 October 2015. Retrieved 23 July 2014.
- [2]. "India's Central Drugs Standard Control Organization (CDSCO)". Pacific Bridge Medical. Dec 29, 2012. Archived from the original on 2012-12-17. Retrieved Dec 29, 2012.
- [3]. https://globaledge.msu.edu/industries/pharmaceuticals/regulatory-agencies
- [4]. CENTRAL DRUGS STANDARD CONTROL ORGANIZATION (accessed on 18 Oct 2014) archived 2014.10.23
- [5]. "Suspension of anti-diabetes drug takes industry by surprise". The Hindu. June 27, 2013. Retrieved August 1, 2013.



- [6]. https://cdsco.gov.in/opencms/opencms/en/Home/
- [7]. https://www.jli.edu.in/blog/roles-and-responsibilities-of-cdsco/
- [8]. "Animal Food & Feeds". Food and Drug Administration. Archived from the original on March 22, 2015. Retrieved March 14, 2015.
- [9]. Kaplan, Sheila (January 20, 2021). "Hahn Leaves F.D.A.; Woodcock Named Acting Commissioner". The New York Times. Archived January 22, 2021, at the Wayback Machine
- [10]. "White Oak Campus Information". Food and Drug Administration. February 9, 2011. Archived from the original on April 21, 2016. Retrieved May 12, 2017.
- [11]. "FDA Overview" (PDF). Food and Drug Administration. Archived (PDF) from the original on November 1, 2013. Retrieved August 30, 2012.
- [12]. "FDA's International Posts: Improving the Safety of Imported Food and Medical Products". Food and Drug Administration. Archived from the original on August 10, 2010. Retrieved April 10, 2010.
- [13]. "Office of Operations Organization". Organization Charts. Food and Drug Administration. April 15, 2015. Archived from the original on July 22, 2015. Retrieved July 12, 2021
- [14]. https://www.master-of-health-administration.com/faq/what-are-the-major-functions-of-the-food-and-drug-administration/
- [15]. https://www.fda.gov/about-fda/fda-basics/what-does-fda-do
- [16]. https://www.outlookindia.com/newsscroll/healthcare-india-and-us-can-learn-from-each-othercomment/1754707
- [17]. https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.businessstandard.com%2Farticle%2Feconomy-policy%2Fcdsco-to-get-a-new-name-govt-invites-suggestions-fromstakeholders-118090601476_1.html&psig=AOvVaw31A3J09g-TX4jcPvpm8XnP&ust=1627553129332000&source=images&cd=vfe&ved=2ahUKEwjivaSCwoXyAhUN GHIKHS2tDKQQr4kDegUIARC3AQ
- [18]. https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.raps.org%2Fregulatoryfocus%25E2%2584%25A2%2Fnews-articles%2F2016%2F9%2Ffda-to-hold-one-advisory-committee-foreach-initial-

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