October - December Issue

STATE INSTITUTE OF HEALTH & FAMILY WELFARE, RAJASTHAN

SIHFW e-newsletter

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State Institute of Health & Family Welfare
South of Doordarshan Kendra,
Jhalana Institutional Area, Jaipur
www.sihfwrajasthan.com
sihfwraj@ymail.com

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From the Director's desk

Dear Friends!

With passing time, we have accepted the presence of Covid-19 around us. Not only we are successfully fighting it and but also we have been keeping ourselves safe through regular hand hygiene practices, use of mask and social distancing.

Though it has lowered our pace but it has not lowered our spirits and now keeping the ball rolling on, SIHFW brings out its next issue of e-newsletter. This time we have focused on food safety – the adulterants and how we can test them through simple techniques.

We hope this issue is informative for one and all.

Best Wishes!!

Dr. R.P. Doria

Director-SIHFW

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Food Safety and Standards Authority of India (FSSAI) conducts testing of food for different type of adulterants and contaminants to ensure safe food to the citizens. Such testing is done by FSSAI notified laboratories.

However, the labs testing require specialized equipments and trained persons. There are some common adulterants and contaminants that can be tested by the people themselves. Here we would see some of the common foods as milk and milk products; oils and fats; sugars; food grains; salts and spices and easy to conduct tests that can be done at home by people.

Food item	Adulteration	Testing method
		Put a drop of milk on polished slanting surface.
		Pure milk either stays or flows slowly leaving a
	Water in milk	white trail.
		Adulterated milk will flow immediately without
		leaving a mark.
		Shake the milk thoroughly.
	Detergent in milk	Pure milk forms thin layer of foam.
		Adulterated milk forms dense lather.
Milk and milk		Add sample of Paneer; Khoya; Chenna with 5 ml of
products		water. Cool and add 2-3 drops of tincture of iodine.
	Starch in milk and	Pure milk does not change color.
	milk products	Adulterated milk changes color to blue.
		(for testing milk - adding water and boiling is not
		required)
	Mashed potato,	Add ½ teaspoon of ghee/butter in transparent glass
	sweet potatoes and	bowl. Add 2-3 drops of tincture of iodine.
	other starches in	Pure ghee/butter does not change color.
	ghee/ butter	Adulterated ghee/butter changes color to blue.
Oils and Fats	Other oil in Coconut	Take coconut oil in transparent glass. Refrigerate for $\frac{1}{2}$
Olis uliu ruts	Oil	hr.

		Pure coconut oil solidifies
		Other oils remain as separate layer.
	TOCP (Tri-Ortho-	Take 2 ml sample of oil. Add little amount of yellow
	Cresyl-Phosphate)	butter (solid).
	in oils and fats	Adulterated oils/fats turn red immediately.
		Take a transparent glass of water. Add a drop of honey
		in it.
		Pure honey will not disperse.
		Adulterated honey will disperse in water.
	Sugar solution in	Take a cotton wick dipped in honey and light with
	honey	match stick.
Sugars and		Pure honey will burn.
Confectionaries		Adulterated honey will not burn due to addition
		of water or even if it burns it will make cracking
		sound.
	Chalk powder in sugar/ jaggery	Take transparent glass of water. Add 10gms of sample.
		Adulterants will settle down at the bottom of
		the glass.
		Take transparent glass of water. Add 2 teaspoons of
	Added colour in	food grains and mix thoroughly.
		Pure food grains do not leave color.
Food grains	food grains	Adulterated food colors leave colors in water
		immediately.
		Take a teaspoon of rice in a plate. Sprinkle small
	Turmeric in Sella	amount of soaked lime (chuna used in paan).
	rice	Pure rice grains do not form red color.
		Adulterated grains form red color.
Salts, Spices	Fausian markisles in	Burn small quantity of hing in a stainless steel spoon.
and	Foreign particles in	Pure hing will burn like camphor.
Condiments	hing	Adulterated hing will not produce bright flames
		- Addres area ming will not produce origin numes

	like camphor.
	Take a pinch of crushed hing in a small transparent glass
	container. Add 1 teaspoon of water and shake well.
	Pure hing will produce milky white solution with
	no sediments.
Danaya soods in	Put small amount of black pepper in a glass of water.
Papaya seeds in	Pure black pepper settles at the bottom.
black pepper	Papaya seeds float on the surface of water.
	Take a glass of water. Sprinkle chili powder on the
	surface.
Synthetic colors in	Pure chili powder do not leave colour while
chilli powder	descending.
	Adulterated chili powder starts descending in
	colour streaks.
	Take a glass of water and add a pinch of hing. Add 2-3
0. 1.1.	drops of tincture of iodine.
Starch in hing	Pure hing solution does not change colour.
	Adulterated hing with starch shows blue colour.
	Take a glass of water. Add a spoonful of salt.
Chalk in common	Salt adulterated with chalk will make the
salt	solution white and insoluble impurities will
	settle down.
Exhausted cloves in	Take a glass of water. Add ½ teaspoon of cloves.
cloves	Pure cloves will settle down.
CIOVES	Other adulterated particles will float.
Grass seeds colored	Rub small amount of cumin seeds on palm.
with charcoal dust	Adulterated cumin seeds will leave blackish
in cumin seeds	mark on the palm.
Lead chromate in	Take a glass of water. Add whole turmeric in it.
turmeric whole	Pure turmeric will not leave color.

		Adulterated turmeric will appear bright in
		colour and leave colour immediately.
		Take a glass of water. Add a teaspoon of turmeric
		powder.
	Artificial color in	Pure turmeric powder leaves light yellow colour
	turmeric powder	while settling down.
		Adulterated turmeric powder leaves strong
		yellow colour while settling down.
		Cut a piece of potato. Add salt and wait for a minute.
	Difference between	Add two drops of lemon juice.
	common salt and	Iodized salt will make the potato turn blue.
	iodized salt	Common salt will not make the potato turn
		blue.
		Artificial saffron is made with maize cobs soaked in
		sugar and colored with coal tar.
		Pure saffron does not break easily.
	Colored dried	Take a small quantity of water in glass. Add small
	tendrils of maize	quantity of saffron leaves in it.
	cob in saffron	Pure saffron colour will give colour as long as it
		is allowed to stay in water.
		The colour of adulterated saffron dissolves
		rapidly in water.
		Take a filter paper and spread few tea leaves. Sprinkle
		water to wet filter paper. Wash filter paper under tap
		water and see filter paper against light.
Beverages	Used tea in tea	Pure tea leaves will not stain filter paper.
	leaves	Adulterated tea leaves with coal tar will leave
		stain.
		Take small amount of tea leaves and place it in the
		center of the filter paper. Add water drop by drop at the

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heap of the tea leaves.

Tea leaves adulterated with colored tea, water will dissolve the added color and leave streaks of colors in the filter paper.

Take small quantity of tea leaves in a glass plate. Move a magnet through the tea leaves.

Iron filings in tea leaves

- Pure tea leaves will have no filings seen on magnet.
- Tea leaves adulterated with iron filings will have iron filings on magnet.

Sensory evaluation of food products

Food item	Adulterant	Testing method
Milk	Synthetic milk	✓ Gives bitter taste.
		✓ On rubbing between fingers gives soapy feeling.
Black pepper/	Coated with	✓ Gives kerosene like smell.
Cloves	mineral oil	
		Add a teaspoon of chilli powder in water. Rub the
		residue of chilli powder.
Chilli powder	Brick powder/	✓ If there is grittiness, shows presence of sand/ brick
Cilili powdei	Talcum powder	powder.
		✓ In case of white residue, when rubbed gives soapy
		and smooth feel indicates presence of soap stone.
Cloves	Oil extracted cloves	✓ Small size and shrunken appearance.
Cioves	Oil extracted cloves	✓ Natural strong pungency is less pronounced.
Curry	I I a a	✓ When rubbed in palm or dissolved in water there is
Sugar	Urea	smell of ammonia in case adulterated with urea.
		✓ Dough prepared with maida mixed atta, less water is
Atta	Resultant Atta/	required.
Atta	Maida	✓ Atta chapatti taste lightly sweetish while those made
		of maida are insipid or tasteless.
Sago	Sand/Talcum	✓ Gritty feeling when placed in mouth.
(Sabudana)	Sand/ Talcum	
Powdered	Common salt	✓ Will taste salty
Spices	Common salt	
	Artificial sweetener	✓ When tasted, lingering sweetness on tongue for a
Sweets	(added in place of	long time and then leaves bitterness.
	sugar)	

Health news briefs....

WHO reveals leading causes of death and disability worldwide

According to WHO's 2019 Global Health Estimates, Non-communicable diseases now make up 7 of the world's top 10 causes of death. This is an increase from 4 of the 10 leading causes in 2000.

Heart disease has remained the leading cause of death; however, it is now killing more people than ever before.

Alzheimer's disease and other forms of dementia are now among the top 10 causes of death worldwide. Women are disproportionally affected: globally, 65% of deaths from Alzheimer's and other forms of dementia are women. Deaths from diabetes increased by 70% globally, with an 80% rise in deaths among males.

In 2019, pneumonia and other lower respiratory infections were the deadliest group of communicable diseases and together ranked as the 4th leading cause of death. However, compared to 2000, lower respiratory infections were claiming fewer lives than in the past.

The estimates clearly highlight the need for an intensified global focus on preventing and treating cardiovascular diseases, cancer, diabetes and chronic respiratory diseases, as well as tackling injuries, as set out in the agenda for the UN Sustainable Development Goals.

(https://www.who.int/news/item/09-12-2020-who-reveals-leading-causes-of-death-and-disability-worldwide-2000-2019)

2021 designated as the International Year of Health and Care Workers

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The year 2021 has been unanimously designated as the *International Year of Health* and Care Workers (YHCW), recognizing the dedication and sacrifice of the millions of health and care workers at the forefront of the Covid-19 pandemic.

The Member States expressed commitment to the ethical principles and practices of the Code, urging prioritization of support and safeguards for the countries with the greatest vulnerability, including greater investment.

(https://www.who.int/news/item/11-11-2020-2021-designated-as-the-international-year-of-health-and-care-workers)

Evidence-based Impact of National Deworming Day in India

The National Deworming Day (NDD), a flagship program of the Ministry of Health and Family Welfare, is implemented, since 2015, as a biannual single day program implemented through the platforms of schools and anganwadis. Albendazole tablet, is used for treatment of intestinal worms in children and adolescents as part of Mass Drug Administration programs globally. In the last round of deworming earlier this year in the country (which was halted due to the COVID pandemic), 11 crore children and adolescents were administered Albendazole tablet across 25 States/UTs.

As per the follow-up prevalence surveys, initiated by the MoHFW, compared to the baseline prevalence survey Chhattisgarh, Himachal Pradesh, Meghalaya, Sikkim, Telangana, Tripura, Rajasthan, Madhya Pradesh and Bihar have shown substantial reduction in worm prevalence.

Rajasthan, which implements an annual round only due to low baseline of 21.1 in 2013, has seen significant reduction to the level of less than 1% in 2019 as per the survey.

(https://www.pib.gov.in/PressReleasePage.aspx?PRID=1666053/20.10.2020)

WHO World Malaria Report 2020: India continues to make Impressive Gains in reduction of Malaria Burden

The World Malaria Report (WMR) 2020 released by WHO, which gives the estimated cases for malaria across the world, based on mathematical projections, indicates that India has made considerable progress in reducing its malaria burden.

India is the only high endemic country which has reported a decline of 17.6% in 2019 as compared to 2018. The Annual Parasitic Incidence (API) reduced by 27.6% in 2018 compared to 2017 and by 18.4% in 2019 as compared to 2018. India has sustained API less than one since year 2012.

India has also contributed to the largest drop in cases region-wide, from approximately 20 million to about 6 million. The percentage drop in the malaria cases was 71.8% and deaths were 73.9% between 2000 to 2019.

Malaria Elimination efforts were initiated in the country in 2015 and were intensified after the launch of National Framework for Malaria Elimination (NFME) in 2016 by the Ministry of Health and Family Welfare. National Strategic Plan for Malaria Elimination (2017-22) was launched by the Health Ministry in July, 2017 which laid down strategies for the next five years.

(https://www.pib.gov.in/PressReleasePage.aspx?PRID=1677601/02.12.2020)

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Important Health Days/ Week - January - March 2021

January 30	World Leprosy Eradication Day
February 4	World Cancer Day
February 12	Sexual and Reproductive Health Awareness Day
March 6	Glaucoma Day
March 11	No Smoking Day
March 12	World Kidney Day
March 15	World Disabled Day
March 16	Measles Immunization Day
March 24	World Tuberculosis Day

SIHFW's Activities.....

Training Courses, Meetings and Workshops

<u>Health Area</u>	Trainings/ Meetings/ Workshops
	Consultation Meeting for Adolescent Health Trainings of School
	Teachers in collaboration with IPE Global (2 batches)
	Master ToT on Adolescent Health for Govt. School Teachers from
Adolescent Health	Dholpur under UDAAN IPE Global project (2 batches)
Adolescent Health	Meeting for School Health Program with DIET/SCERT
	Training on RKSK for Medical Officers (2 batches)
	Training for MTs for giving training to Peer Educators (7 batches)
	Induction training of Peer Educators (3 batches)
Save the Girl Child	Training on PCPNDT IMPACT software for Appropriate Authorities
Save the diff child	from districts (2 batches)
	Workshop on Child Death Review (6 batches)
	ToT on HBYC (2 batches)
	ToT on SAANS (5 batches)
Child Health	Training on F-IMNCI for Staff Nurses (1 batch)
	Training on NSSK for Medical Officers (2 batches)
	Training on NSSK for Staff Nurses (1 batches)
	Training on NSSK for ANMs (1 batches)
	Training on FBNC (2 batches) ToT of ASHA
Community Processes	Training on ASHA Facilitators Handbook (13 batches)
,	Training on VHSWNC for ASHA Supervisory level (18 batches)
	Training of Community Action for Health (2 batches)
	ToT on Injectables for Medical Officers
Family Welfare	ToT on Laproscopic Sterilization
	Training on Laproscopic Sterilization for Doctors (4 batches)
Food Safety	Training of Food Safety Supervisors for Street Food Vendors under FSSAI

	Foundation Course for Newly Recruited Medical Officers (2	
Foundation/ Induction	batches)	
	, and the second	
	Review meeting of Covid-19 and seasonal diseases	
IDSP/ Covid-19	Review of Microbiology Labs	
ibsi / covid 17	Training on Oxygen Therapy for Medical Officers (11 batches)	
	COVID-19 Vaccine preparedness meeting for Rajasthan by ITSU	
Immunization	Training on Routine Immunization for Medical Officers (10 batches)	
	Training on Routine Immunization for Health Workers (22 batches)	
	Webinar on experience sharing and cross learning under Dakshta	
	(12 batches)	
	ToT on SBA	
Maternal Health	Training of MOs on Safe Abortion (3 batches)	
	Training on Skilled Birth Attendant (12 batches)	
	Refresher Training on Skilled Birth Attendant (4 batches)	
	Training of Medical Officers on BEmOC (9 batches)	
	Review meeting for Finance and Logistic Consultants under NVHCP	
	Review Meeting cum training for District Coordinators under NTCP	
	Sensitization program cum training for Counselors/ Psychologists under NTCP	
	Training on Vector Borne Diseases for Medical Officers (4 batches)	
National Health Programs	Training of Pharmacist under NVHCP	
	Training on Malaria Microscopy for Lab Technicians (2)	
	Training on ASHA NCD Screening (3 batches)	
	Training on NPCDCS for BPMs (4 batches)	
	Training under NVHCP for Medical personnels	
	Training on Rabies (2 batches)	
Professional Development	Training on Appreciative Enquiry under UNICEF	
Dublia Duirrata Danta analii	Orientation on tools for External Evaluation of UPHCs running	
Public Private Partnership	under PPP mode	

SIHFW's participation

- Dr. Vishal Singh, Faculty and Ms. Richa Chhabra, SRO attended the training provided to the hired agency for developing e-training module for Antara at New Delhi on Oct. 1-2, 2020.
- Data Collection from UPHCs of Jaipur I, Jaipur II, Sikar and Ajmer covered under the 'External Evaluation of UPHCs running on PPP mode' was done by the SIHFW Staff on Oct. 7-8, 2020.
- Hand-holding support for establishing Skill Lab under Saans Project with Save The Children was provided at Tonk by Dr. Aditya Atreya, Registrar; Dr. Richa Chaturvedy, Consultant – RCH (Med.) and Mr. Aseem Mohd. Malawat, Consultant – RCH (Mgmt.).
- Review meeting of Covid-19 and seasonal diseases and documentation of Covid-19 activities was done at Ajmer, Churu and Bikaner and was presided by Dr. Ravi Prakash Sharma, Director and facilitated by Dr. Richa Chaturvedy, Consultant RCH (Med.) Mr. Aseem Mohd. Malawat, Consultant RCH (Mgmt.) and Ms. Archana Saxena, RO.
- Virtual sessions on "Orientation on smooth functioning of VHSNC" organized with DM&HS, in zone-wise batches were attended and sessions were presided by Dr.
 Vishal Singh, Faculty.

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Activites in photos



Foundation Course for Medical Officers - Virtual Session



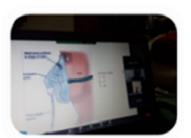
Orientation of LISA software to Medical Officers at SIHFW



Training on ASHA Facilitators Handbook at SIHFW



Foundation Course for Medical Officers - Classroom Session at SIHFW



Training of Medical Officers on Oxygen Therapy



Training on VHSNC at HFWTC Ajmer



Group Work during Training on VHSNC at HFWTC Ajmer



Training on VHSNC at SIHFW

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Training of Trainers on NSSK



Training on ASHA Facilitators Handbook



Workshop on Child Death Review



Training on VBDs under NVBDCP



Training on Routine Immunization for Health Workers



Training on VBDs for MOs



Training on Rabies



Training on Malaria Microscopy for LTs



Meeting regarding Covid-19 vaccination preparedness



Foundation Course for newly recruited MOs



Training on RI for Health Workers at district



Training on VHSNWC at district