## 8.1.6

## Quality maintenance record

- Temperature chart register
- Cold chain management, storage guidelines

January 2020

, DATE	MORNING	AFTERNOON	EUINING	DAME AND SIGH	DATE	MORNING	AFTERNOOP	FUINING	
2 90/12/2019	2-	3,	4.	As. Umesh	1/1/2-20	2:	3	2	AND LILY
21 [1812-19	3.	2-	<i>3</i> .	an monisha	2/1/2020		2	3.	an. Month.
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2 26/12/16/19	4.	2	3.	St8. monisha	6/1/2080	2.	3.	3.	din. Salma
. 271 12 12019	2-	2.	3.	St. Scullinci	7/119020		2.	2	SM R Dasell
28 112 18619	4.	<i>ਹ</i> .	3.	60. 2. Desolve	8/1/2020		2.	3 ·	SIN Sopna
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2 27-11120le	3.	2.	2.	dis R. Deseth - 1212				
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	A CO	IND PO	Departir	easor & Head, cant of Paediatrics, cel College, Dhule MSA 17/2/90	010 2.	3.	2.	1971. monisha
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	District on the last				**************************************		t t	N. J. J variable
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March 2020

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9 2412124.	2.	3.	3.	SIN. Sopna	2 13 12010	2.	3.	3.	STB. Q. Desall
2 2512166	۵.	8-	2.	SIB. R. Desell	31312020	2	2.	3.	Ab. Umeth
2 26111102		₹.	3-	8/N. Scohna	41312020	3.	3 *	2.	JIN. Sapra.
2 27 21 2020	4.	3.	2.	an manisha	5/8/2020	3	3.	4.	AN. Sculmo.
2 28 12 12-12		2.	2.	Sim. Ub	61312010	2.	2.	3 "	JIN. Manish.
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			the American California			Was a manager of			114
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APRIL 2020

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2 2118 126 60	4.	3.	2.	UN. Sapra	31412080	4.	3	2	5N. 48
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	COICAL			Jey :-	13/412020	3.	3.	3.	SiN. months.
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May - 2020

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Come	Mocality	T HUT CO.		Sign of	Oate	morning	After Noon	- Co	
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8 1912.40	4.	3.	J.	STO R. Desch				200	AN Spra
L	3.		Lance of the second		8/5/2020	3°C	2º C		
291411020	3.	2.	2.	AN months	9/5/2020	3000	30	2°c.	8/N Sadkang
30 191 2010	2	2.	2 =	AN Sagna	11/5/2020	2°c	g.	200	21H Expres
	100 M			refessor & blood	12 5 2020	4	3°c	2°E	B)B Sandip
		Manage	Depai	rofessor & Manualrics, inference of Paccharrics, Manualrical College, Dhule [M.S.]	13/5/2020	2°C	46	3°e	Shi Lily
	EDICAL CO	246	E.W.		14/5/2020	<i>o</i> e c	3°6	200	sles unesh
	12/1CM	1-12-1		***			77		-1
	S. S.	HOS/P			15/2/2020	2° č	32	2°	BIM maniri
	OHUL	£*)			16/5/20205	4° c	30	2°c	Kly Marie
A - 13					18/5/2020	2°C	3.6	3°C	Shi sadram
					19/5/2020	2°¢	2°c	ű.	SAR Sadip
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				1		E	- 1 1 c	56	614 DEC 75

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			Evening	Mame Rige			Jun 2	Granica	i Name & sign
Oal-e	moming	Afternoon	Evening	Hame & signed Recorder	Date	morning	Afternoon	Every J	of percorder
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28 5 2020	2°C	3°C	s°e	shearna.	2/6/2020	3°C	u*c	DE	Bln sadnang
26/1/2020	-3°C	\$ YB	3°6.	B/B sandip	3/6/2020	2°c	20	gc_	8/B umesh
27/5/2020	űс	3°C	5°C	8/B Rajoh	4/6/2020	\$ C	2° C	2°C	sp rajesh
08/5/2020	e°f	e°C	3°C	3/M manished	C 6 2020	3° c	2°C	28	8/4 manishq
29 5 2020	2°C	3°C.	3°C	all Lily	6 6 2020	3 6	2°C		8/H Sodhan
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S. S. A.					12/6/2020	gt.	3°c	2°C	\$M monisty
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1 2 2					17/6/2020	2°C	3°c	2°C	SIN Orpali Pato
					18/6/2000	μ <sup>e</sup> c	20	86	sliv sadrang
		1000 10			19/5/2020	2°c	3€	2.0	alm Wangpa
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	1	Tagana	Evening	Name & signal			uly 2020	Evening	Namelof 194)
	morning	Affermoon	1 8	Recorder	Date	Morning	Afternoon	1	perorder
2020	2¢	200	38	, BM manisha	1 7/2020	3°c	e°6	2°C	Sodhara
020	i de .	3°€	£Ç	sled manisher	2 7 2020	n° c	3c	q?c	81 nt round
8020	\$6	2°G	3°€	8/B fajesh	3/7/2020	2°€	3°¢-	£c.	StB Pages
2000 -	2°G	2°C	3°6	5/H Sadbarg	4 7/2020	2°C	2°c	orc.	SIMILITY
1020	i.e.	3°¢	₹¢.	8/4 tily	6/4/2020	2°C	3°C	26	SIN-Bipals
202.D	5€	2°¢	3°€	slo umed	· 대1412020	4°c_	2°C	2°€	SI N-FORMS
2020	920	3°E	2℃	3/N-saping	8/1/2020	20€	20	3°€	SIB-Umo
2020	2°G	3°€	3°G	els sandip	9 9 2020	- ŠĒ	2,G .	9°C	814-1717
2620	2℃			PM- sadhang	10/7/2020	2°6	3°C	250	2811 mani
			9	Jestinos.	11/2/000	2°C	26	g*c	SIB Ume
O HE	DICAL COLLEGE SHEET SEED SEED SEED SEED SEED SEED SEED S		professor Department	Seadlaincs Paedlaincs	13/7/2020	3c	2°ĉ	ge	Jern-lily
F'S A.C.P.	SS HS		*CPM"		14/8/2020	3°c	4°c	2°c	Str. mans
The state of the s	HULE				15 7/2020	Ц°с	2°C	3°C	&N. Ospaq
	3.74510				16/4/2020	₫¢.	2°C	40	SIB Umesh
					17/4/2020	2°c	36	3°F	SIN. Bipa
					18 7/2020	2°c	2°€	2° £	Discoult
					20/7/2020	3°F	216	3° x 200	N.W. W.R.

'Oate	morning	'Afterneon	Evening	of Recorder	Oak	morning	Afternoon	Evening	Name & sign
24 7/2020	2°c	ű.c.	2c	SM Sopra	3/8/2000	2°c	4° e	2°c	8/H offali fat
22/7/2020	3°C	2°c	20	8/B Pajesh	4 8 2020	3 c	2° c	36	ola Pajech
08/7/2020	3°c	40	2°c	sky adhan		8°€	o°c _	2°0	sly sudrang
24/7/2020	2c	2°c	₫°C .	.S/M manish	e 813800	2°C	3.5	3°c	elm manisha
25  7 2020	2º C	3°C	2°F	8/8 manitha	7/8/2020	2°C	ge.	2°C	2/2 Umesh
27/4/2020	3c	ž°c .		3/8 umesh	8 8 2020	g°c .	4°c	2°c	BIM Lity
02/7/2020	žc.	. 3c	200	8/M manish	16/8/2020	- 6°C	. Se	2°c	2/14 Sadhang
29/7/2020	. CC	200	2°c	SIM Lily	11/8/2026	Že.	3°c	2°C	81M Sapra
30/4/2020	3°6	3°c	2°C	8) N Sadharia	12/8/2026	3%	2°c	₂°c	est orpuli fat
31 7 2020	2℃	_3€	2°c.	sly Pipali	13/8/2020	L'c	2°c	3°C	SIN sadharg
					14/8/0020	2°c	ge.	2°€	SIM Sapra
	EDICAL COL				17/8/2010	3°c	2°C	Je.	AlB Umech
S A C.	OHULE		Profess Department A c pM Medical	of Poediatrics, of Poediatrics, office, Once (M.S.)	19/8/2020	2°c	3°c	2°c	8/H- Lily
	OHUI EX				19/8/2020	4°c	2°c	2°c	814 Shaphikal
					20/8/2020		3%	200	sH-manisha
	management with a service of				21/8/200	2°c	3°c	2°C	8/8 Fajedo
							1		Professor Ashed,

		1	Gening	Mame & stga			eptember	[ Evening	Name & sig
Oate	Morring	Afternoon	9	of peroses	Date	Morning.	Aflomoon	1	of Records
99/3/2020	4'e	2° C	5°C	8/M meuhap	1 9 2020	300	25€	8° 6	ald raily
24 8 2020	. gc	₽¢.	2°C	8/H mounishing	2 9 2020	Pc	40	2°€	gla umesh
25 8 2020	2°C	3°c	2°C	3/4 L9/4	4/9/2020	500	ರೇ	2°C	eld manish
26 8 2020	3°C	3.5	2°C	3/B Sandip	5/9/2020	3°c	2° C	3°C	alm Sadhar
07/8/2020	2° C	gc.	29 C	8/B Rajesh	7/9/2020	115,°C	2°€	3°€	els randij
28/8/820	2°C	ζς.	3°e	8h Lily	9 9 2020	0°c	2°C	ge_	8/8 Pajesh
29/8/2020	Ĵc .	2°c	2°c	ele umech	09 9 200	Sc.	200	206	8/N Lily
30/8/1020	3%	200	32	8 IN sapra	10/9/2020	<i>\$</i> °C	3°c	2°C	SIN sadkar
	IEDICA:				11 9 2020	2°c	3°c	2°c	Bla umesh
	MEDICAL CO	e contraction of the contraction			12 8 2020	gc.	2°c	3°c	sle sandip
MESA	HULEN		a oot	Sept & Hero Sent of paediatrics (MSE)	14/3/2020	్లిం	g°c	400	8/o Rojech
	AULE *		Departi ACP,MARS	Veu, Chede	15 9 2020	80	2°c	3°c	8/4 Sadhen
				11	18/9/2020	2%	3 2	2°C	ald supra
					17/9/2020	3E	£°	L° C	SIN manes
					18 9 2020	3 <sup>6</sup> c	ű.	2°c	Bly Lily
				•	19 9 2028	28	3°c	2%	Sb Umsh
				-	21/9/2020	8°c	2°c	S°c _	JA Likesa
*									STORE CON

			,			and	har 2020		72 08-1-1
	morning	Afterneon	Evening	Name fisign	Date	morning	Afternoon	Evening	of Recorder
620	9°c	2.8 C	o°c .	814 manisha	- Indoor	9°c	3°c	2°c	3/4 Sadhard
	ű°с	2°c	2°c	10.00		3°c.	2°c	2°c	SIN LITY
	· Žc	300	₫c.		Con Carlo	3.	48	200	8/M sagra fedi
000	. sc.	2°c	3°c	elu sorpra polit		. Šc	2.6	2°C	ele surdip
200	. åe	20	2°c	SIA Rajesh	4/10/2020	- Sc	3°c	3°c	8H Sopra
3270	Se	g.	£	814 Pala 1	8 10 2020	3°c	Žč.	2°c	all sandip agg
220	200		သိုင	elm shadishold	9/10/2020	2°€	3c	3°E	8/H Dipali patit
1020	3°c	200	હે	AN LPIY	12/10/2020	2°c	3c	2°c	ely shashitalq
				Jug	13/10/2020	g°c.	2°c	3°C	814 sadhang
1	JEDICAL.	Cal	Departition of the control of the co	essor & Head ent of Paediatrics and Cullege, Drule (M.S.)	14/10/2020	2°c	2°c	3°c	DIN Lily
4	19/9/	161	ACT		15/10/2020	2°c	3°c	2°c	ely manerh
	FSA				16/10/2020	g°c .	2°c	2°€	Ple Sandip Marc
	OHULE	***			17/10/2020	3°c	200	. 3%	SIM Soying
				4 .	19/10/2020	Le .	3°c	2°c	SIN Lily
-					20/10/2020	2%	3°c	2°c	sly manches
		Audition		7.	21/10/2020	2°c	- 3°c	2°c	sls Rafesh
1					22/10/2020	1	LONG BE TO SE	p Dec	roles of Lands of Chicago St.
	2020 2020 2020 2020 2020 2020 2020	2020 4° c 2020 4° c 2020 2° c	2010 3°C 2°C 2010 4°C 2°C 2010 2°C 3°C 2010 2°C 2°C 2010 2°C 2010 2°C 2°C 2010 2	1000 3°C 2°C 0°C 2000 4°C 2°C 0°C 2000 4°C 2°C 2°C 2000 5°C 3°C 3°C 2000 5°C 2°C 3°C 2000 5°C 2°C 2°C 2000 5°C 2°C 2°C 2000 5°C 2°C 2°C 2000 5°C 2°C 3°C	of Recordence of the manishing of the second	2°C 2°C 2°C 8'M manishy 1 10 2020  2020 4°C 2°C 8'M manishy 1 10 2020  2020 5°C 3°C 8'M sapry 11 6 10 2020  2020 5°C 2°C 8'M sapry 11 6 10 2020  2020 5°C 2°C 8'M sapry 11 6 10 2020  2020 5°C 8°C 8'M sapry 11 6 10 2020  2°C 8°C 8'M sapry 11 10 2020  2°C 8°C 8'C 8'M sapry 11 10 2020  2°C 8°C 8'C 8'M sapry 11 10 2020  2°C 8°C 8'C 8'M sapry 11 10 2020  2°C 8°C 8'M sapry 11 10 2020  2°C 8°C 8'C 8'M sapry 11 10 2020  1020 5°C 8°C 8'C 8'M sapry 11 10 2020  1020 5°C 8°C 8'C 8'M sapry 11 10 2020  1020 5°C 8°C 8'C 8'M sapry 11 10 2020  1020 5°C 8°C 8'C 8'M sapry 11 10 2020  1020 5°C 8°C 8'M sapry 11 10 2020  1020 10 2020  1020 10 2020  1020 10 2020  1020 10 2020  20 10 2020  20 10 2020  20 10 2020	Morning   Apternation   Eventles   Oak   Morning	Morning Afternoon   Evening   Morning   Afternoon     1	1   1   1   1   1   1   1   1   1   1

Nesta		1001-	Eventing	Non- O ca		AL PROPERTY OF THE PARTY OF THE	lember 202		Mamel sign
* Date	morning	Affermoon	7	Name & sign of peconder	Date	morning	Afterneon	Evening	of Remoder
23/10/2020	₽¢.	3°c	3°c .	BIM sudkara	Y	<u>ಲೆ</u> c	g°c.	g° c	SIN Offall Foot?
24/10/2020	900	2°C	2-2	1914 shashikala		2°c	48	3°s	8)N sandip
	3.c			Litt a montold	4/11/200	,0°C	20℃	2°c	an supra
26/10/2020	- 3°c	200	2°C	8/A Umechai					BM Lily
27/10/2020	2°e	a c	2°c		5/11/2020	3°c	- 3c	₫°.	MA
241/0/2020	2 e	uc	2-5	SIR Sardip Boy	6)11/2020	2c	Je .	2°C	alm stockital
98 16 2020	. <i>§</i> c	Žc	3°c	And manishing	मी।।[2020	ί°ς	3°c	3°C	ely manishq
29/10/2020	£c.	3°c	3°C	an uly	9/11/2020	2°c	3°c	s,c	BH Lily
31/10/2020	, Ec	° 2.c	<u>2°c</u>	Shi sapra '	10/11/2020	2°c	2°c	Se.	918 Rajesh
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March 2021

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May 2021

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July 2021

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#### MAINTENANCE OF COLD CHAIN

Cold chain is the system of transporting, storing and distributing vaccine in a potent state at recommended temperature till it is administered to an individual. Maintaining the cold chain is of utmost importance.

The potency of the vaccines can get affected irreversibly if the temperature is not maintained within the recommended range during the storage, transport, retailing and administering the vaccine.

The recommended temperature range for most of the vaccine is from 2°C to 8°C. Few vaccines are stored at a frozen state. The different types of cold chain equipment are Walk- in freezers, walk- in coolers, deep freezer, ice lined refrigerator (ILR), purpose built refrigerator, domestic refrigerator, isothermic cold boxes and vaccine carriers.



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#### PRECAUTIONS TO BE TAKEN WHILE STORING VACCINES IN ILR

The ILR has two sections- the top and the bottom

- The bottom of the refrigerator is the coolest place. The DPT, DT, TT and hepatitis B vaccines should not be kept directly on the floor of the refrigerator as they can freeze and get damaged.
- The DPT, DT, TT and hepatitis B vaccine along with diluents are to be placed in a basket.
- The thermometer should also be placed in the basket along with the vaccines as this gives the correct temperature.
- If no basket is available, place two rows of empty/ water containers filled with ice packs on the floor of the ILR.

# PRECAUTIONS TO BE TAKEN WHILE STORING VACCINES IN VACCINE CARRIERS

Vaccine carriers are used by health workers for carrying vaccines (16-20 vials) to sub centers or to villages or for delivery of vaccines from the supplier's shop to the vaccination clinic. They maintain the cold chain during transport and for one day's use in the field. The inside temperature of a vaccine carrier is maintained between 2 and 8 °C with four frozen ice packs for one day (if not opened frequently).

- Only vaccine carriers with four ice packs should be used.
- Do not leave vaccine carriers in the sunlight.
- Do not open the lid unnecessarily as this may allow heat and light into the carrier and may spoil the vaccine.
- Do not drop or sit on the vaccine carrier. This can damage the carrier.

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#### PROTOCOL FOR KEEPING VACCINES SAFE

#### **DURING IMUNIZATION SESSIONS**

- Avoid opening refrigerator door/ cooler frequently.
- Reconstitute vaccines immediately prior to administration.
- When the vaccines are outside the vaccine carrier, keep them out of direct sunlight and away from other sources of heat and ultraviolet light
- Avoid handling vaccines any more than absolutely necessary. Take out the vaccine and diluents from the cooler only as per requirement.

#### PROTOCOL FOR KEEPING VACCINES SAFE DURING POWER FAILURE

- During a power failure of four hours or less, the refrigerator door should be kept closed.
- During power failures more than four hours, if the backup generator facility is not available, identify an available unit at other nearby site and shift the vaccines to the alternative storage site.
- If a refrigerator with a backup generator has not been located or is not working, and for power failure of more than four hours, store vaccines in a cooler with conditioned ice packs/ gel packs.
- Continue to monitor the temperature of the vaccines by placing the thermometer probe inside a vaccine box inside the cooler.



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#### PRECAUTIONS TO BE TAKEN WHILE STORING VACCINES

#### IN DOMESTIC REFRIGERATOR

- Vaccines must never be stored in the door of the refrigerator.
- Place freeze tolerant vaccines (measles, mumps, rubella, oral poliomyelitis—OPV and bacillus of Calmette and Guerin—BCG) in the shelves identified as being the coldest.
- Freeze sensitive vaccines (DTP containing vaccines; Hib, pneumococcal, influenza, hepatitis, inactivated polio vaccine (IPV) and some varicella vaccines) should be placed on shelves identified as having more stable temperature (e.g.no "cold spots")
- Store the vaccines in enclosed plastic containers/ labeled baskets.
  - This will allow easy identification of vaccines and minimizes time spent with the door opened searching for vaccines.
  - Enclosed plastic containers will help to stabilize temperatures a little and provide some protection in borderline freezing episodes as well as against effects from the cooling plate and blasts of cold air from outlets.
- Do not crowd the shelves by overfilling the vaccines. Allow space between containers for air circulation.
- Storage of vaccine against refrigerator walls increases the risk of freezing.
   Ensure a gap of at least 4 cm from all walls of refrigerator and between two large packs of vaccines.
- Keep a distance of at least 4 cm above and below the vaccine container to allow free circulation of air.
- Rotate stock so vaccines with the shortest expiry date are used first.





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#### PROTOCOL FOR MAINTENANCE OF THE VACCINE REFRIGERATOR

- Refrigerator break downs should be repaired immediately.
- Regularly check the door seals to ensure that a good seal is maintained.
   Replace the seals if they are damaged or cold air is leaking from the refrigerator.
- Refrigerators that are not frost free should be defrosted regularly to
  prevent ice buildup. If the freezer is not frost free, ice should not be
  allowed to build up more than ¼ inch. Ice buildup reduces the efficiency
  and performance of the refrigerator.
- During defrosting or cleaning of the refrigerator, move the vaccines to a second refrigerator.
- If there are exposed coils on the back of the refrigerator, keep them clean and dust free to improve efficiency.



DEAN

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### ADVERSE EVENTS, SIDE EFFECTS, COMPLICATIONS REPORT

No serious side effects/ adverse drug reactions due to vaccination conducted at the hospital were observed.



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