

WEEKLY EPIDEMIOLOGICAL REPORT

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Temperature Monitoring with Fridge-tag - Part 2

This is the final of series of two articles on Fridge-tag. Parts and the some functions of the Fridge-tag were discussed in the first article.

Reading lowest temperature with violated preset alarm levels

Two different screens will be displayed once the user moving the blinking arrowhead to the preset alarm levels violated day after repeatedly pressing the READ button.



Figure 6 Visualizing the history of a Fridge-tag with preset alarm level violations - First display

The 1st screen will be displayed the following

- blinking arrowhead
- Corresponding date (19.09.2016)
- The starting time of the temperature violation

"min." sign (When showing the minimum temperature duration "min." sign will appear while displaying highest temperature "max." will appear)



Figure 7 Visualizing the history of a Fridge-tag with preset alarm level violations - Second dis-

Once the reader visualizes the two displays the warning symbol will disappear. Until such time the warning sign will be appear in the display.

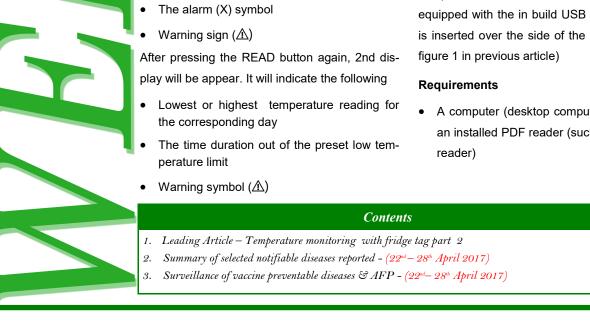
■ Visualizing the temperature records with PDF reader

Although we can visualize the highest and the lowest temperature for the day and preset alarm violations only for last 30 days, details for last 60 days can be visualized, after connecting to a computer. Please note that the Fridge Tag is equipped with the in build USB connector which is inserted over the side of the Fridge-tag (refer

 A computer (desktop computer / laptop) with an installed PDF reader (such as Adobe PDF reader)

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- · Adobe PDF reader can be downloaded from Adobe website
- A functioning Fridge-tag

Connect the Fridge-tag into the computer via USB connector.

Based on the windows version in the computer select (Double click) the My Computer/ Computer/ This PC on the desktop or in start menu.

Windows explorer will appear in the screen. Double click and open the FRIDGE-TAG2.

Automatically generated "pdf" file will be appear and by double clicking on the file reader can visualize the recording as a table. If the reader wants to get a printout, follow the same procedure to print the pdf document.

After visualizing and taking the printout, To ensure smooth

- Display the highest and lowest temperatures reached with their duration
- A user friendly device

Monitor Temperature with Fridge-tag

Fridge-tag in the refrigerator should be checked at least once a day. When checking the morning temperature, inside the refrigerator check whether the temperature is being maintained between +2°C and +8°C after obtaining the last temperature reading (previous day afternoon).

If the Fridge-tag indicates a warning signal, record as "Alarm" in the cold chain record and inform IMMEDIATELY to the MOH.

PDF document of the Fridge-tag® 2

Identification number: PCAA69583
Activation date: 09.06.2016
Date and time of report creation: 31.05.2017 11:39h
Upper alarm limit: Above +8.0°C for 10h
Lower alarm limit: Below -0.5°C for 1h

					Lower alarm	limit			Upper alarm	limit			
1	Vo.	Date	Events*	Average	Status	Min.	Duration	Alarm	Status	Max.	Duration	Alarm	Signature / notes
-		(dd.MM.yyyy)		temp.		temp.	out of	trigger		temp.	out of	trigger	Action taken
							range	time			range	time	
ŀ	1	Today		+5.7°C	In progress	+5.1°C	0min		In progress	+6.3°C	0min		
2	2	30.05.2017		+5.7°C	ok	+5.2°C	0min		ok	+6.4°C	0min		
3	3	29.05.2017		+5.7°C	ok	+4.4°C	0min		ok	+6.4°C	0min		
- 17		20.05.2017		· E 700	-l-	- E EIO	Omin		-le	.0.110	Omin		

functioning of the Fridge-tag, proper USB-port disconnection of the device is recommended. Therefore always use the "safely remove hardware" function on your computer before removing the Fridge-tag manually from the computer.

Advantages of the Fridge-tag

- Fridge-tag have a inbuilt USB connector
- No need of a special software to read the recordings
- Once connected to a computer, an automatically generated PDF document will display the information
- Can visualize recordings of 30 days on Fridge-tag display and 60 days recording after connecting to a computer
- Preset alarms for high/low (above +8°C continuously for 10 hours and low (-0.5°C continuously for 1 hour) temperature exposures

References

Berlinger & Co. AG, Fridge-tag® 2 with internal sensor, viewed 12 December 2017, pamphlet, Berlinger & Co. AG, Switzerland Berlinger & Co. AG, Fridge- tag® 2 storage temperature monitoring with USB port, viewed 12 December 2017, pamphlet, Berlinger & Co. AG, Switzerland

World Health Organization, Introduction of Fridge-tag®, viewed 12 December 2017, pamphlet, WHO, Geneva

Compiled by

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Table 1: Selected notifiable diseases reported by Medical Officers of Health 22nd - 28th April 2017 (17th Week)

9	*	100	09	93	100	92	92	80	100	94	93	20	100	75	80	64	100	92	83	71	28	100	82	100	78	91	62	84
WRCD	<u>*</u>	63	13	20	91	46	85	55	83	94	86	25	80	20	40	36	43	85	62	36	56	26	47	91	61	45	23	28
nani-	ш	1	4	0	4	2	0	0	143	48	0	က	0	7	2	1	7		49	2	114	49	ტ	4	0	4	0	449
Leishmani- asis	⋖	0	0	0	0	0	0	0	15	2	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	19
gitis	Ф	12	15	53	16	24	19	23	10	4	20	2	0	0	2	15	12	15	19	15	21	7	99	20	85	34	7	519
Meningitis	⋖	0	0	1	1	0	0	3	0	1	0	0	0	0	0	0	0	1	2	1	0	1	1	0	7	2	0	21
xodı	В	145	125	229	123	18	91	138	96	81	140	0	9	17	4	84	71	28	258	85	166	101	125	38	148	105	94	2546
Chickenpox	∢	6	0	4	9	1	0	2	4	4	8	0	0	0	П	0	н	7	7	3	2	Э	6	1	4	1	0	75
ian es	В	0	1	0	1	0	0	1	1	1	0	0	0	0	1	0	0	0	П	0	0	0	н	0	0	0	0	∞
Human Rabies	∢	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Viral Hepatitis	М	9	7	1	8	4	7	0	9	С	4	7	0	1	1	4	7	13	10	1	7	7	70	11	28	7	0	155
H	∢	0	0	0	П	0	0	0	0	0	0	0	0	0	0	0	0		ო	0	0	1	7	0	0	1	0	6
Typhus Fever	Ф	1	8	3	09	п	81	21	23	12	341	6	7	2	Э	0	н	7	20	10	10	3	59	09	16	37	0	763
Ϋ́L	⋖	0	0	0	3	0	11	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	6	2	0	0	0	27
Leptospirosis	В	35	26	106	19	70	17	81	19	39	22	2	0	15	œ	10	7	_∞	32	9	28	19	31	47	187	20	4	811
Lepto	∢	2	0	3	П	0	3	9	0	9	1	0	0	1	0	1	0	0	0	0	0	7	0	0	10	0	0	36
Food Poisoning	Ф	9	8	18	0	0	0	6	15	2	36	0	0	2	1	9	0	ю	2	0	5	0		2	4	14	259	393
Fo Pois	⋖	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Fever	Ф	16	12	4	4	0	10	2	7	0	19	c	н	12	е	10	н	т	0	2	1	2	9	0	4	3	1	132
Enteric Fever	∢	2	0	0	0	0	0	0	0	0	2	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	D.
Encephalitis	Ф	1	11	3	4	0	2	2	2	9	8	0	0	0	0	8	н	н	7	2	1	4	ъ	3	20	4	4	130
Encep	⋖	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	1	0	0	0	0	П	0	0	4
Dysentery	ш	35	15	21	34	8	11	19	14	16	101	9	4	7	2	53	6	_∞	25	18	14	18	88	22	77	23	20	611
Dyse	⋖	0	0	0	↔	0	2	0	0	0	2	0	0	0	↔	7	0	т	н	0	0	0	7	1	Ж	0	0	18
Fever	Ф	9671	6664	2604	1270	497	161	2128	1198	1504	2465	220	393	360	106	2692	233	4098	1918	828	761	1443	388	99	432	1825	1149	45700
Dengue Fever	⋖	751	637	188	130	34	7	108	91	102	120	10	14	6	7	332	28	143	192	138	54	54	71	55	31	191	107	3586 4
RDHS Division		Colombo	Gampaha	Kalutara	Kandy	Matale	NuwaraEliya	Galle	Hambantota	Matara	Jaffna	Kilinochchi	Mannar	Vavuniya	Mullaitivu	Batticaloa	Ampara	Trincomalee	Kurunegala	Puttalam	Anuradhapur	Polonnaruwa	Badulla	Monaragala	Ratnapura	Kegalle	Kalmune	SRILANKA

Source: Weekly Returns of Communicable Diseases (WRCD).

Table 2: Vaccine-Preventable Diseases & AFP

22nd - 28th April 2017 (17th Week)

Disease			ı	No. of Ca	ses by I	Province	e		Number of cases during current	Number of cases during same	Total number of cases to	Total num- ber of cases to date in	Difference between the number of		
	w	С	S	N	Е	NW	NC	U	Sab	week in 2017	week in 2016	date in 2017	2016	cases to date in 2017 & 2016	
AFP*	01	00	01	00	00	00	00	00	00	02	00	29	17	70.6%	
Diphtheria	00	00	00	00	00	00	00	00	00	00	00	00	00	0%	
Mumps	00	00	02	00	00	00	00	00	00	02	05	106	134	- 20.8%	
Measles	00	01	00	00	00	00	00	00	01	02	06	105	234	- 55.1%	
Rubella	00	00	00	00	00	00	01	00	00	01	00	06	06	0%	
CRS**	00	00	00	00	00	00	00	00	00	00	00	00	00	0%	
Tetanus	00	01	00	00	00	00	00	00	00	01	00	08	02	75%	
Neonatal Teta- nus	00	00	00	00	00	00	00	00	00	00	00	00	00	0%	
Japanese En- cephalitis	00	00	00	00	00	00	00	00	00	00	00	21	00	0%	
Whooping Cough	00	00	00	00	00	00	00	00	00	00	02	05	25	- 80 %	
Tuberculosis	51	08	14	05	31	20	00	07	01	137	162	2615	2971	- 12%	

Key to Table 1 & 2

Provinces: W: Western, C: Central, S: Southern, N: North, E: East, NC: North Central, NW: North Western, U: Uva, Sab: Sabaragamuwa.

RDHS Divisions: CB: Colombo, GM: Gampaha, KL: Kalutara, KD: Kandy, ML: Matale, NE: Nuwara Eliya, GL: Galle, HB: Hambantota, MT: Matara, JF: Jaffna,

KN: Killinochchi, MN: Mannar, VA: Vavuniya, MU: Mullaitivu, BT: Batticaloa, AM: Ampara, TR: Trincomalee, KM: Kalmunai, KR: Kurunegala, PU: Puttalam,

AP: Anuradhapura, PO: Polonnaruwa, BD: Badulla, MO: Moneragala, RP: Ratnapura, KG: Kegalle.

Data Sources:

Weekly Return of Communicable Diseases: Diphtheria, Measles, Tetanus, Neonatal Tetanus, Whooping Cough, Chickenpox, Meningitis, Mumps., Rubella, CRS,

Special Surveillance: AFP* (Acute Flaccid Paralysis), Japanese Encephalitis

CRS** =Congenital Rubella Syndrome

Dengue Prevention and Control Health Messages

Look for plants such as bamboo, bohemia, rampe and banana in your surroundings and maintain them

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