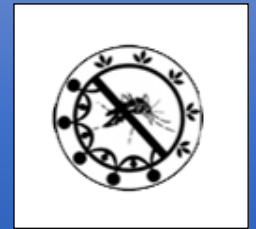




MONTHLY DENGUE UPDATE

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Ministry of Health, Sri Lanka



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Updates on Current Dengue Situation in Sri Lanka

Dengue fever is currently the most important mosquito-borne infection of public health significance in Sri Lanka, with thousands of patients acquiring the infection each year. Dengue transmission in the country usually shows two peaks associated with southwest and northeast monsoon rains.

With the onset of southwest monsoon rains, a steady increase in the number of cases reported had been observed and from 25th week onwards nearly 800 cases are reported weekly based on the DenSys data (Figure 1). As clearly shown in figure 1, this has surpassed the weekly reported number of dengue cases during the same period in 2020.

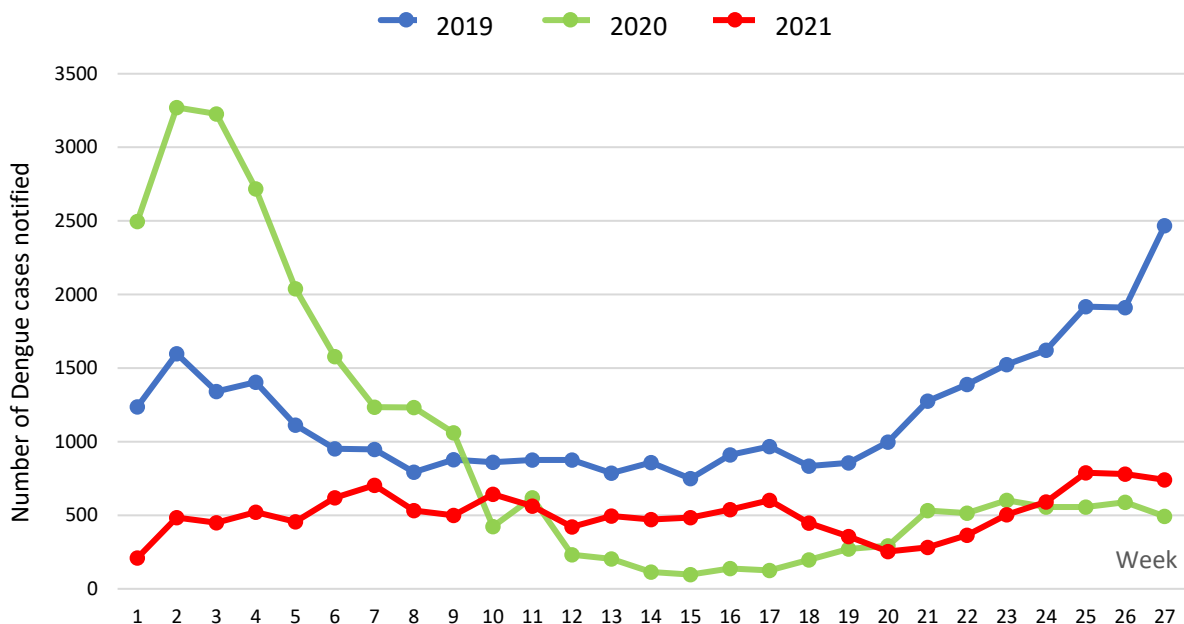


Figure 1: Suspected Dengue patients notified from hospitals (Source: DenSys)

2021 is a backlog of surveillance data (H399) received from field level currently. As a result, a gap exists between the DenSys data and H399, which is observed to widen with time. By 11 July 2021, 14,668 suspected dengue cases have been reported through DenSys while only 9,436 have been reported through H399. The gap between the suspected dengue cases reported through DenSys and H399 has been around 15% - 30% until April this year and this increased to 72.3% in June (Table 1 and Figure 2).

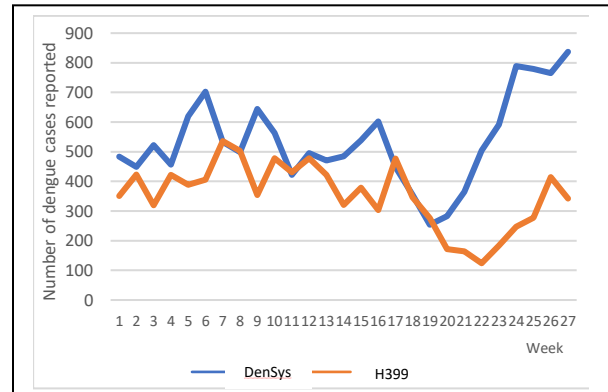


Figure 2: Comparison of reporting of Dengue patients in DenSys and H 399 (Weeks 1 – 27, 2021)

Table 1: Comparison of dengue cases reported through DenSys and H399 (January – June 2021)

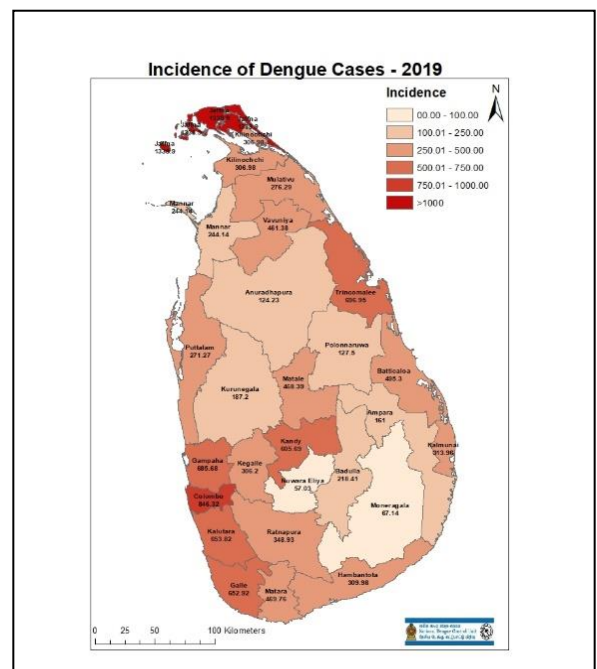
Month	Number of suspected Dengue patients reported		Dengue cases reported through H399 as a % of cases reported through DenSys
	DenSys	H399	
January	2122	1516	71.4%
February	2355	1834	77.9%
March	2312	1741	75.3%
April	2241	1902	84.9%
May	1441	959	66.6%
June	2997	831	27.7%
Total	14661	9436	64.4%

Current high risk districts of dengue transmission

Western province contributes to 48% of the reported dengue cases in the country. Colombo district alone reported 30% of the total case load. Apart from the 3 districts in the Western province, following districts have been identified as having higher risk of dengue transmission at present: Galle; Matara; Hambantota; Kandy; Kurunegala; Ratnapura.

Geographical distribution of these high risk areas tally with the districts with high incidence reported in 2019 (figure 3).

Figure 3: Incidence of dengue cases 2019



2021 and sex distribution

Similar to the previous years, majority of the reported dengue patients (62%) were males (Figure 4). Seventy percent of the reported dengue patients were adults > 19 years of age (Figure 5).

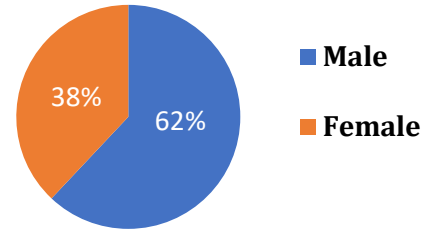


Figure 4: Distribution of sex of dengue patients reported in 2021

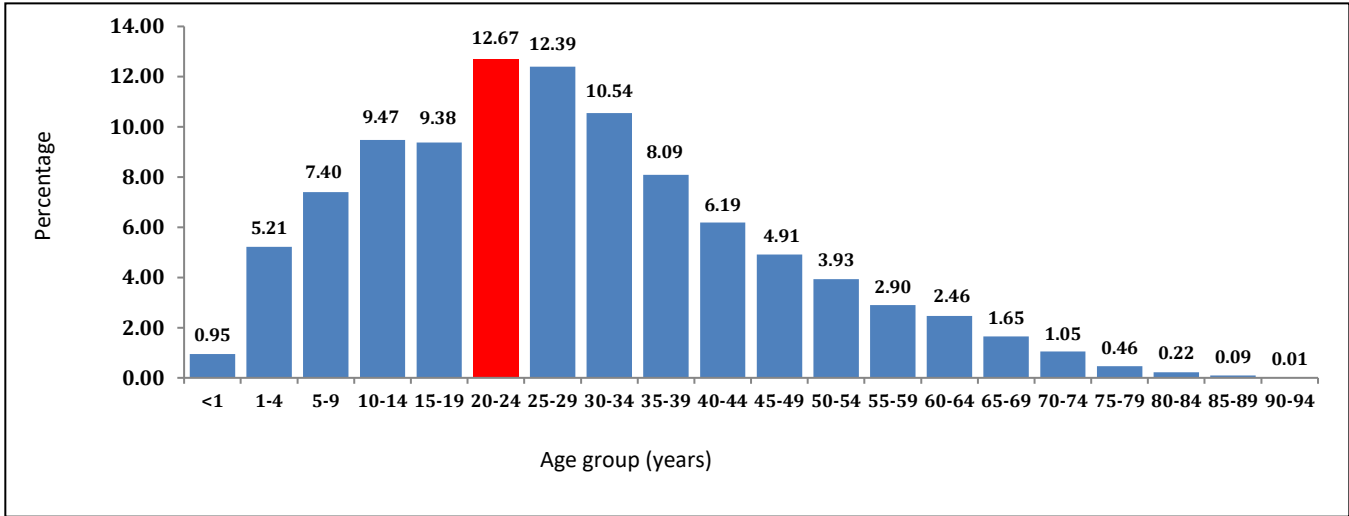


Figure 5: Age distribution of reported dengue patients 2021 (Source: DenSys)

Dengue viral surveillance for serotypes

Serum samples (n=79) of suspected dengue patients from different parts of the country from January – June 2021 were tested at the Department of Virology, Medical Research Institute and Centre for Dengue Research, University of Sri Jayawardenapura. All four serotypes of the virus, i.e. DENV-1, DENV-2, DENV-3, and DENV-4, have been detected this year and the most prevalent serotype is DENV-2.

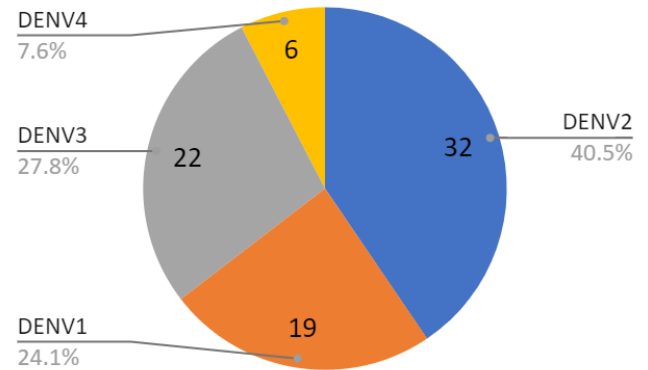


Figure 6: Percentage distribution of dengue viral serotypes January - June 2021 (Source: Virology laboratory/ MRI and Center for Dengue Research, USJ)

Compiled by
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2. SUMMARY OF ENTOMOLOGICAL AND EPIDEMIOLOGICAL SURVEILLANCE DATA – June 2021

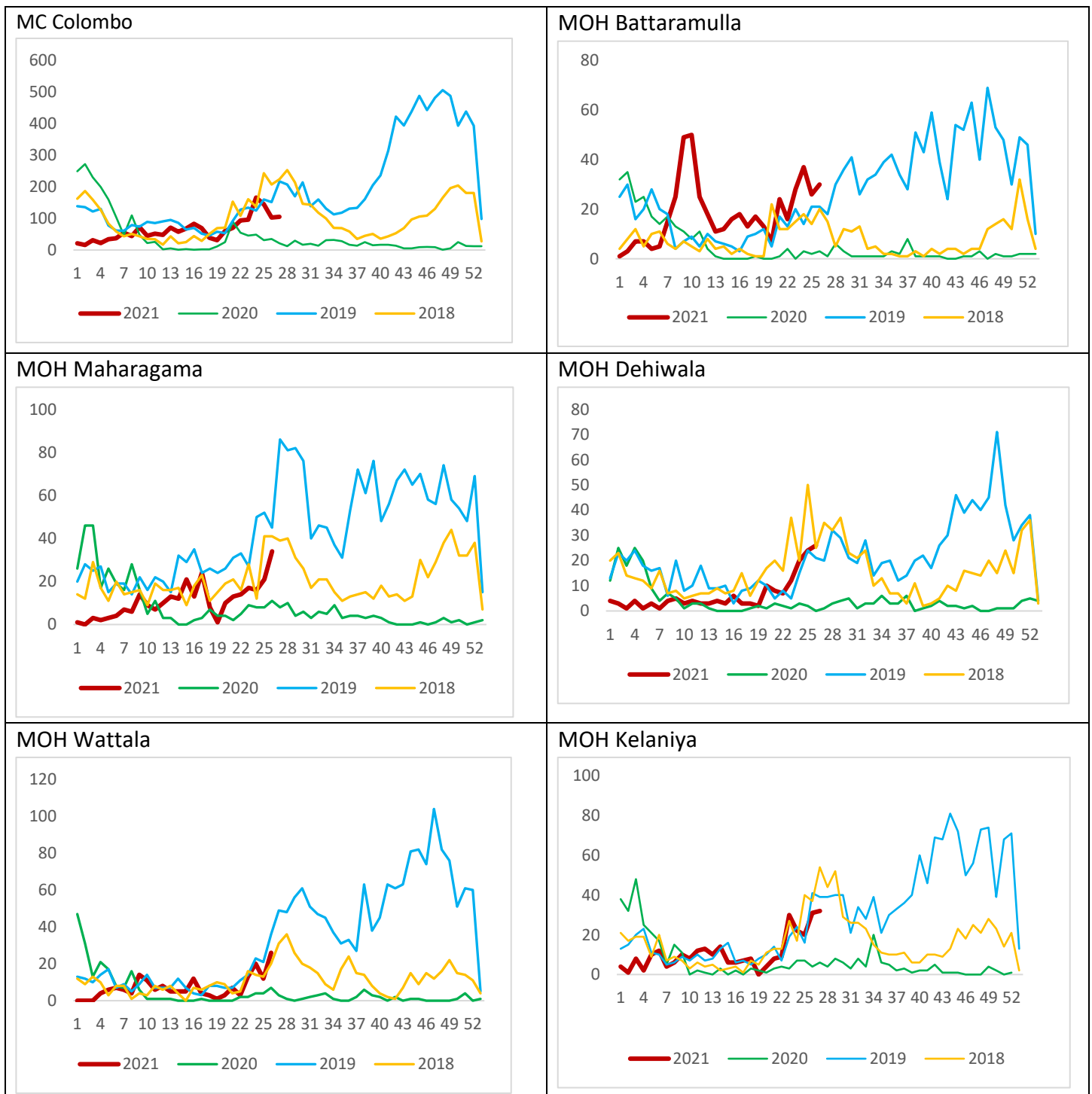
Province	District	Entomological surveillance data				Epidemiological surveillance data	
		(Source - returns of entomology surveys received by NDCU)				(Source – DenSys)	
		No. of Premises			Main type of containers positive for larvae and Percentage positivity	Month	
		Inspected	Positive Found	Positive %		June	Cumulative
WP	Colombo	542	80	14.8	Discarded items 26.2%, Concrete slabs 16. % Temporary removed items 15.5%	1235	3869
	Colombo MC	40	13	32.5	Discarded items 23.9%, Temporary removed items 21.7%, Concrete slabs 17.4%		
	Gampaha	628	99	15.8	Temporary removed items 32%, Covering items 14.3% Discarded items 9.5%	491	1577
	Kalutara	2737	247	9	Discarded items 30.7%, Temporary Removed items 14.5%, Tyres 9.9%	192	738
	NIHS	28	27	96.4	Temporary removed items 44%, Discarded items 22.5%, Covering items 11.8%		
CP	Kandy	1433	78	14.3	Discarded items 17.8%, Temporary removed items 14.9%, Ornamental 13.5%,	110	470
	Matale	700	51	7.3	Discarded items 45.8%, Ornamental 14.5% Tyres and Natural items 9.6%	22	76
	NuwaraEliya				Data not received to NDCU	6	38
SP	Galle	2000	224	11.2	Discarded items 25.8%, Ornamental 14.8%, Water storage other 12.4%	100	236
	Hambantota	1539	104	13.9	Discarded items 16.3%, Water storage other 15.7%, Water storage barrels 13.5%	68	215
	Matara	1415	196	6.8	Discarded items 31.2%, Other 29.2%, Water storage barrel 9.4%	158	318
NP	Jaffna	1892	133	7	Water storage other items 25%, Discarded items 17.2%, Ornamental items 12.5%	3	34
	Kilinochchi				Data not received to NDCU	0	12
	Mannar				No surveys	1	22
	Vavuniya	1932	47	2.4	Water storage cement tanks 52%, other items 13.4%, Water storage other items 9.4	1	28

	Mullativu				Data not received to NDCU	0	0
EP	Batticaloa	1243	33	2.7	Other 22.5%,Ornamental 19.4%, Discarded items 12.9%	48	3352
	Ampara				Data not received to NDCU	19	51
	Trincomalee	1045	55	5.2	Water storage other items 18.4%, Ornamental items 18.4%, Discarded items 14.3%	12	127
	Kalmunai	500	32	6.4	Discarded items 68.6%, Ponds 8.5%,Wells 8.5%	14	231
NWP	Kurunegala	498	85	17.1	Discarded items 33%,Temporary removed items 26.4%, Water storage other items 9.4%	179	648
	Puttalam	751	49	6.5	Discarded items 27.3% Water storage other items 18.8% Temporary Removed items and Tyres 9.4%	34	260
NCP	Anuradhapura	564	40	7	Temporary removed items 34.8%, Discarded items 13%, AC and Refrigerators 13%	78	196
	Polonnaruwa				Data not received to NDCU	12	29
UP	Badulla	209	59	28.2	Discarded items 45.3%, Water storage barrel 12.5%, Other items 9.4%	67	154
	Monaragala	2033	165	8.26	Discarded items 46.3%, Water storage barrel 18.9%, Covering items 10.1%	24	72
SGP	Rathnapura	1315	137	10.4	Discarded items 35.4%, Natural items 16.9% Covering items 15.9%	65	382
	Kegalle	1185	133	12.9	Water storage barrels 23.7% , Discarded items 19.2%, Tyres 14.3%	58	333
Sri Lanka		24229	2110	8.71	Discarded items 26.15%, Water storage barrel 9.74%, Temporary removed items 9.65%	2997	13468

Resistance monitoring		
District	Sentinel site	Findings
No reports received to NDCU.		

Current high risk MOOH

Epidemiological trends (Source: DenSys data)



Entomological forecast of high risk areas		
RDHS	MOH	GN Division
Colombo	Dehiwala	Kalubovila, Kawdana East, Malwatte, Wilawila
	Ratmalana	Vihara, Kotalawalapura West
	Nugegoda	Koswatte
	Gothatuwa	Kotikawatte West
	Maharagama	Kalalgoda
Kalmunai	Sammanthurai	Kallarichchal
	Addalachchennai	Addalachchennai-2
	Kalmunai South	Kalmunai lenoly-1,2,3
	Ninthavur	Ninthavur-12,13,14
	Pottuvil	Pottuvil-1,8,27
Kalutara	Karithivu	Maligakadu West
	Palindanuwara	8335B Lathpadura
NIHS	Kalutara	-
	Beruwala	-
Kurunegala	Kurunegala	Malkaduwa
Anuradhapura	Nuwaragampalatha East	-town area-
Matara	Dickwella	Dodampahala West
Gampaha	Biyagama	(PHI area:Gonawala)
	Ja-ela	Nagoda
	Kelaniya	Polhena
	Wattala	Nayakanda

Summaries of Adult Surveys

District	MOH	GN area	Findings	
Kalmunai	Akkaraippattu	KT-11 (Sentinel site)	No premises examined (10) 8.45am-12.35pm	<i>Aedes aegypti</i> (1 male; 1 premise, 3 females; 3 premises)
		KT-11(Sentinel site)	No premises examined (10) 8.45am-12.15pm	<i>Aedes aegypti</i> (6 males; 3 premises, 9 females; 2 premises)
		KT-11(Sentinel site)	No premises examined (10) 8.35am-11.30am	<i>Aedes aegypti</i> (7 males; 2 x premises, 3 females; 3 premises)
	Sainthamaruthu	Sainthamaruthu - III - PHI area	8.25am-10.30pm	<i>Aedes aegypti</i> (2 males, 5 females)

2021
NEWS UPDATE**Launching of webinar series to update on dengue**

A series of webinars have been planned in collaboration with Ceylon College of Physicians, Sri Lanka College of Paediatricians and College of General Practitioners of Sri Lanka. The first webinar on “Managing Dengue amidst COVID-19 Pandemic” was conducted on 6th July 2021 from 12PM to 2PM.

Topic	Speaker
Management of dengue in adults	Dr.Ananda Wijewickrama, Consultant Physician, NIID
Dengue case histories	Dr. Damayanthi Idampitiya, Consultant Physician, NIID
Dengue haemorrhagic fever in pregnancy	Dr.Priyankara Jayawardena, Consultant Physician, DMH

Meeting Recording can be accessed through the link and the password below.

https://who.zoom.us/rec/play/zMK-r8LJE1O3Lc5RK3V_k8qsZZgCayfLhi2mSNvxOQhRw9VxY1FMwylh6veCN4T1hPk--Y-Rih3E4GV-.wJMzjdF2TU3V-etg?continueMode=true&xzm_rtaid=4Ab2iuo_Qx6PDYyqZl704w.1626349185815.43e2538d6ad1a735cb67defad422f105&xzm_rhtaid=622

Access
Passcode:
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Comments and contributions for publication in the MDU Sri Lanka are welcome.

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