Supplementary Tables

Supplementary Table 1. Comparing essential MNCH service utilization over two months between COVID (April- May 2020) and analogous pre-COVID (April-May 2019) periods.

Visit Type	Mean number of visits/ months over six months		t- statis tic	p- val ue	Low er p-	Upp er p- valu	Num ber of paire
	2019	2020	-		valu e	e	d obser vatio ns
I. Maternal visit	331.3	327.3	0.05	0.959	0.520	0.480	16
1. Antenatal care	198.0	176.5	0.39	0.702	0.649	0.351	13
2. Postnatal care	17.8	20.7	-0.30	0.768	0.384	0.616	9
3. Facility delivery	85.6	87.0	-0.04	0.970	0.485	0.515	14
4. FP related services	84.1	95.1	-0.38	0.712	0.356	0.644	10
5. FP related services (hospitals, HCs and HPs combined)	289.4	227.8	0.86	0.398	0.801	0.199	16
6. Abortion-related services	10.5	10.7	-0.05	0.964	0.482	0.518	11
II. Sick child visit <i>(0- 5years</i>)	201.0	126.6	1.68	0.103	0.948	0.052*	15
1. IMCI Visit (< 2 months)	7.3	3.3	1.21	0.235	0.882	0.118	15
2. IMNCI Visit (2 months - 2 year)	105.0	77.4	1.54	0.134	0.933	0.067*	15
3. IMNCI Visit (2 year – 5 year)	89.7	45.9	1.43	0.164	0.918	0.082*	15
III. Routine Immunization visit	41.0	38.1	0.16	0.875	0.563	0.437	7
1. BCG Vaccine	28.0	36.9	-0.40	0.695	0.347	0.653	10

2. Oral Polio (0) Vaccine	3.4	1.0	0.61	0.556	0.722	0.278	7
3. Pentavalent (DPT-HepB- HIP) (all types)	100.4	101.4	-0.03	0.978	0.489	0.511	10
4. Measles – 1	5.6	28.3	-1.45	0.163	0.082*	0.918	10
5. Vitamin A Dose (any dose)	6.0	1.0	0.87	0.419	0.791	0.209	4
Other types of visits							
4. All visits	2031.9	2323.5	-0.27	0.787	0.394	0.606	16
5. Adult Outpatient Visit	1811.6	2147.5	-0.29	0.773	0.386	0.614	14
* p < 0.10 ** p < 0.05 *** p < 0.01, ⁺ Lower-tailed test: mean number of visits H ₁ : $\mu_{2019} < \mu_{2020}$, ⁺⁺ Upper-tailed test: mean number of visits H ₁ : $\mu_{2019} > \mu_{2020}$							

Supplementary Table 2: Healthcare providers' perception about MNCH clients flow to the facility in the time of COVID-19.

Response	Count	Percent
Increasing	2	2%
The same	28	31%
Decreasing	61	67%
Total	91	100%

Supplementary Table 3. Themes (authors interpretation) and illustrative quotes of key informants on factors enabling community facility visits during COVID-19.

Themes	Illustrative Quotes	
COVID-19 p	erception	
People are in doubt about COVID-19 existence in the area.	I do not believe it exists, especially in our area. It might be real / exist in other areas/countries. They just suspect and take everyone into an isolation/quarantine center, but they are healthy and free of any signs and symptoms (Women)	

	 I have never seen anyone with such a real problem in our area. We have heard about it on radio and TV, so I found it difficult to believe and I do not believe it is real (Women). There are huge gaps, misconceptions, and challenges in practical preventive practices. They even perceived that the disease may not be real. Clients recovered from COVID-19 without any sign and symptom disseminated the information to the community and based on that the community misconceived that the virus might not be real from the beginning (HCP). Right now, the entire community members have no fear or concern about acquiring the disease we are not concerned about client decrement related to COVID-19. Specially after the 5 months state of emergency was lifted things are returned to pre-COVID time, (HCP).
No/Low COVID-19 impact perception on daily life	 COVID was for outsiders not for us, it was for political issues, the machine for COVID test was false (Women). Has COVID-19 been affecting your life in any way? P: No nothing (Women) I do not think we are at risk because we are not getting out of home most of the time and living in rural areas without any contact (Women).
Knowledge on transmissio n methods	 Crowding at one place like the market and public transportation (Women). She laughed. "Media expresses it well; we know well it is also an infected person who can transmit it" it was not on her tip of tongue she encouraged simply to remember and told me freely "contact, breathing" (Women). It can be transmitted through air/ breathing, shaking hands, kissing, contact with others and when face masks are not applied properly (Women).
Facility adap	tation
Training provided to HCP	 there was continuous and repeated awareness creation on the preventive measures, how they apply it to prevent COVID-19 (HCP) After the first case of COVID-19 was confirmed in our country, all health care providers including supportive staff were oriented about covid-19 and how to protect themselves and their clients (HCP). Training was given for all health professionals by trained woreda health professionals, how the health professional can use mask and keeping distance, source of the virus's transition and the like (HCP).
PPE use and social distancing	 All health workers have applied face masks and sanitizer while providing services (Women). Health professionals kept all PPE materials in place while serving clients (HCP).

- Health professionals have put on their face masks, enforce clients to wear face masks during facility visits and hand washing soap has also been kept in place for clients (Women).
- We had arranged client sitting chairs at all departments to keep their social distance; we had assigned one personnel to educate and to keep their social distance (HCP).
- We were giving care for patients face to face in and in close contact so far, but now we are providing two meters distance (HCP).

Supplementary Table 4. Themes (authors interpretation) and illustrative quotes of key informants on perception of client flow and barriers of community facility visit.

Themes	Illustrative Quotes		
Perception of	of client flow		
Client flow decreased initially and increased through time	 During my ANC visit, I have seen some clients receiving health services. At the beginning of coronavirus some people did not want to receive the services for fear of contracting the disease. So, client flow at that time has decreased (Women). Following of covid-19 positive case detection in the country, somewhat patient flow was decreased HCP). During COVID-19 time, the patient flow has dramatically decreased at the beginning (HCP). Right now, the entire community members have no fear or concern about acquiring the disease (HCP). Becomes the same as pre-COVID-19 time since the state of emergency lifted (HCP). 		
Barriers for	service utilization		
Fair of acquiring the disease in the facility	 You can have this risk at transport and at health facilities during service provision and from other clients/patients. That is the first fear (HCP). Health professionals subjected to additional COVID-19 related tasks, patient flow decreased due to emerging concerns and fears of contracting the disease (HCP). I have postponed my follow up at that time for fear of acquiring the disease from health professionals/health centers. The same is true for other clients in our area and some mothers have received their visit in private clinics as we perceived almost all staff were infected (Women). Health workers wear face masks for themselves, but they don't let all clients wear face masks during facility visits (Women). 		

Service deprioritize d	 As much as possible we tried to make faster service provision for their children and give advice for them not come back frequently, they can manage themselves at home if it is easy (HCP) We also used tele medicine for mild cases, because at the initial phase there was a direction of avoiding hospital visits for cases other than emergency (HCP). Initially priority was given for patients who have cough but without compromising maternal and child health care services (HCP).
Low transportat ion access	 It is also another common reason for all of us to reduce client flow to the facility (Women). Initially mothers were staying at hospital unnecessarily due to absence of transportation/ambulance/ (HCP). In this area there was no transport restriction, but numbers were reduced to half sit and cost was doubled. It was one of the factors to reduce flow (HCP). Travel restrictions are also another reason for low client flow which is more pronounced among mothers from far kebeles (HCP).
Public panic	 At the beginning of covid-19 occurrence, the community panicked and feared acquiring the disease (HCP). Our basic challenge is fear of the disease. The community heard the severity of the disease in the developed country in the media, but now the problem is solved (HCP). Nationally the people panicked so there was a tendency of not visiting hospitals (HCP). The community has been frightened of contracting the disease at the beginning (Women).