

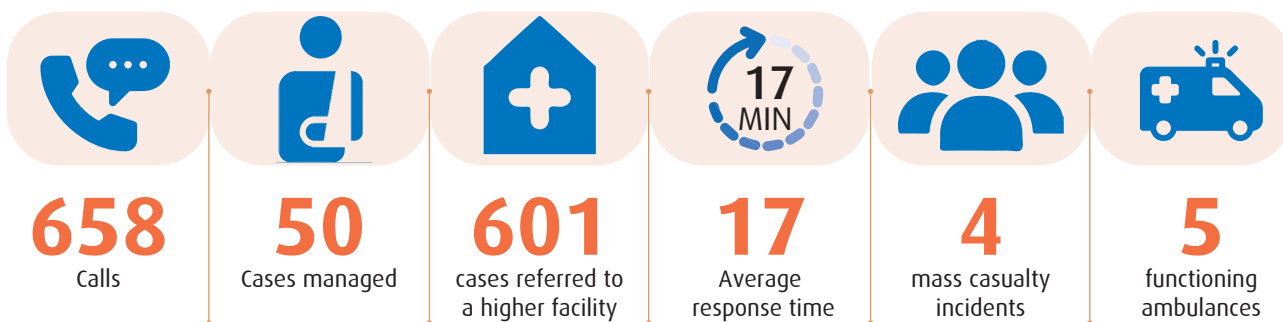
Trauma Programme Prehospital Care

Aden, Yemen 1 April – 31 July 2022



World Health
Organization
Yemen

HIGHLIGHTS OF THE PREHOSPITAL SERVICES



- There is currently no formalised prehospital service in Yemen, except for the services provided by the Ministry of Health to cover the metropolis area of Aden governorate; supported by WHO with funding from the European Civil Protection and Humanitarian Aid Operations (ECHO).
- From 1 April to 31 July 2022, 658 calls were made to the Ministry of Health-led central dispatch center. 50 cases were managed at the scene, and 601 were transferred to a higher receiving facility for further treatment.
- 4 mass casualty incidents were recorded.
- WHO in partnership with the Ministry of Health has established the Prehospital care Technical Working Group to improve the referral system.

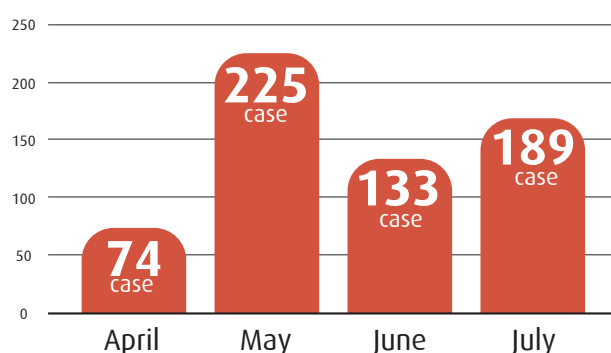


• WHO trains 33 paramedics

TREND ANALYSIS

A total of 601 cases were treated and referred to a higher receiving facility for further treatment. The breakdown per month is illustrated in figure 1 below, with 74 cases in April, 225 in May, 133 in June and 169 in July.

Figure 1: Number of cases treated and referred to a higher facility by prehospital system by month

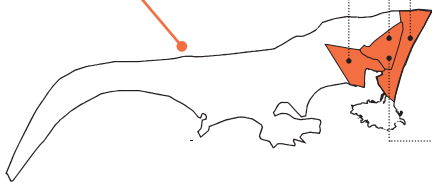


The discrepancy between the number of received calls and responses can be explained by the following:

- Calls that were responded to, but the ambulance could not transfer due to security conditions
- Calls for inter-facility transfer but cancelled later due to weak coordination between the hospitals
- Calls were documented but cancelled later by relatives
- Calls responded to but did not find any case on the site.
- Calls not possible due to insufficient number of ambulances.

MASS CASUALTY INCIDENTS

During the period of reporting, four mass casualty events were reported:



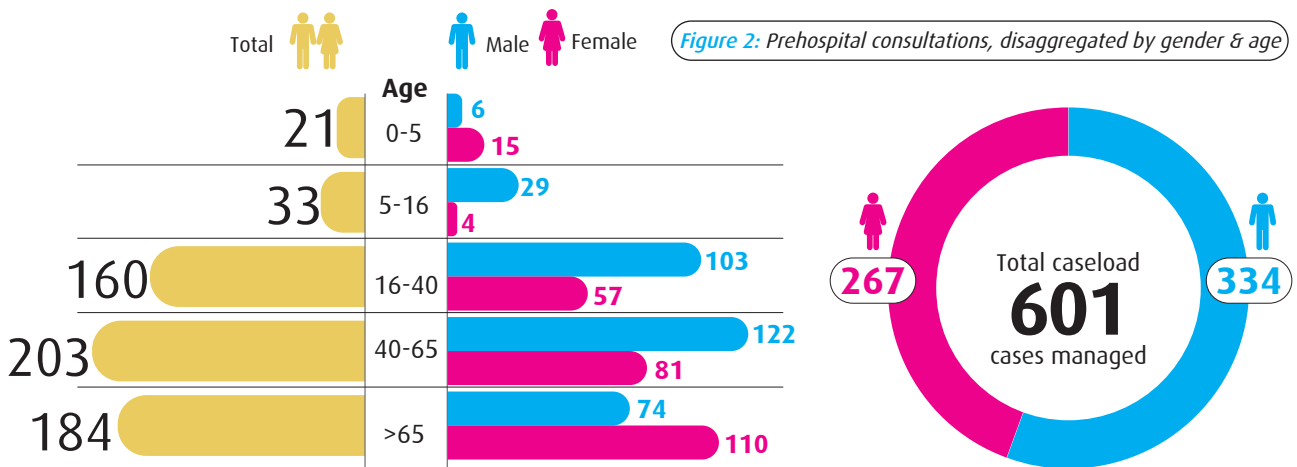
- On the 26th May 2022, there was an explosion in Al-Shiek Othman District. 6 people died immediately at the scene of the incident and 51 were wounded.
- On the 16th June 2022, there was an explosion in Al-Mansoura. 1 person died immediately at the scene and 3 were wounded. This event is not verified by WHO.
- On the 29th June 2022, there was an explosion in Khor Makser. 6 people died immediately at the scene, including one female. 11 were wounded and transported to Al Jamouriah Emergency Department for further care. There was a delay in activating the prehospital service.
- On the 29th of June 2022, there was a fire incident in Al Sheikh Othman district. All 3 injured children were transferred to Al- Wali hospital but died shortly after.

CUMULATIVE TRAUMA AND EMERGENCY CARE ANALYSIS

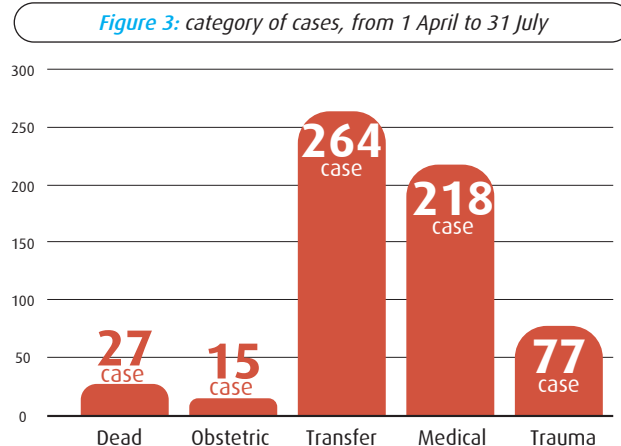
- Total caseload since beginning the project is 601 cases managed at the prehospital level. From this total, 9% are of paediatric age and 30.6% are elderly (over 65). From the total cohort of patients,

55.6% male and 44.4% are female.






- The (Figure 2) below shows this disaggregate by gender and age.



- From the total cohort of trauma and emergency cases, 12.8% of cases are trauma, 43.9% inter-facility transfer, followed by medical at 36%. Obstetric emergencies account for 2.5%. This is illustrated in figure 3.



MONITORING INDICATORS FOR THE TRAUMA PROGRAMME

No	Indicator	Target	April Value	May	June	July	Comment on the indicator
1	Proportion of traumatically injured patients with proper haemorrhage control in pre-hospital setting	90%	100% 1 case	-	100% 1 case	100% 1 case	3 cases with haemorrhage receive haemorrhage control measures.
2	Proportion of trauma patients accurately triaged to proper hospital	100%	100%	100%	100%	100%	All 77 trauma cases were appropriately triaged and referred for secondary care.
3	Time to definitive treatment center	 <30 minutes	 41 MIN	 43 MIN	 40 MIN	 37 MIN	The ambulance base is located in Al Mansoura district, according to the geography of Aden city, it takes considerable time from the base to scene to the definitive treatment center.
4	Number of prehospital calls that resulted in ambulances dispatched and patient cared for and transferred by ambulance crew	Months 1-4: 60 calls/month Months 5-8: 80 calls/month Months 9-12: 110 calls/month	91	235	149	183	The target for this period is 60 Call/month. The response was more than planned. The increasing demand for the number of calls demonstrate the necessity of the services

WHO ACTIVITIES

- Deployed a Trauma Specialist from the Eastern Mediterranean Regional Office Trauma Operational & Advisory Team (TOpAT) to review the clinical skills of the 34 paramedics working at the dispatch center.
- In partnership with the MoH, established the Prehospital Care Technical Working Group (P-TWG). The first meeting took place on the 21st of June 2022. P-TWG will be chaired by the WHO and co-chaired by the director of the prehospital care system.
- Conducted refresher training for 34 paramedics. The overall objective of the training is to strengthen paramedics capacity to provide effective care during medical emergencies and mass-casualty incidents.
- Initiated an educational campaign to upscale community awareness about prehospital care services.

FUNCTIONALITY OF INFRASTRUCTURE AND SUPPLIES



5
ambulances

- At end of July, 5 ambulances were functioning out of total 11 due to maintenance issues. Out of the 5 functioning ambulances, there is sufficient supply of consumables, and all ambulances have access to oxygen.



21,800
liters of fuel

- A total of 21,800 liters of fuel has been delivered for the generator and ambulance cars during the report period and 19,913 liters consumed with 1,887 liters remaining on 31st July.

CHALLENGES AND WAY FORWARD

- The level of community awareness about prehospital services is limited. There is an urgent need to upscale awareness and conduct community educational campaigns.
- The coordination between relevant authorities (security, civil defense, etc.) and the dispatch center is weak. As a priority, the coordination should be enhanced to improve the response times to calls, particularly during mass casualty events.
- There is an urgent need to initiate Continued Professional Development (CPD) for staff working in the dispatch centre.
- The ambulance base is located in Al Mansoura district, it takes considerable time from the base to scene to the definitive treatment center, usually Al-Jamhouriah Hospital. WHO and the MoH should consider sentinel sites for some ambulances.



FUNDING NEEDS



US\$
1.5M

- As part of the trauma programme, WHO needs US\$1.5 million to implement a direct response to sustain and expand the prehospital services to other districts inside Aden Governorate during 2023.

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