

Overview of Crimean Congo Hemorrhagic Fever in Iraq

Epidemiological Week 14-2025



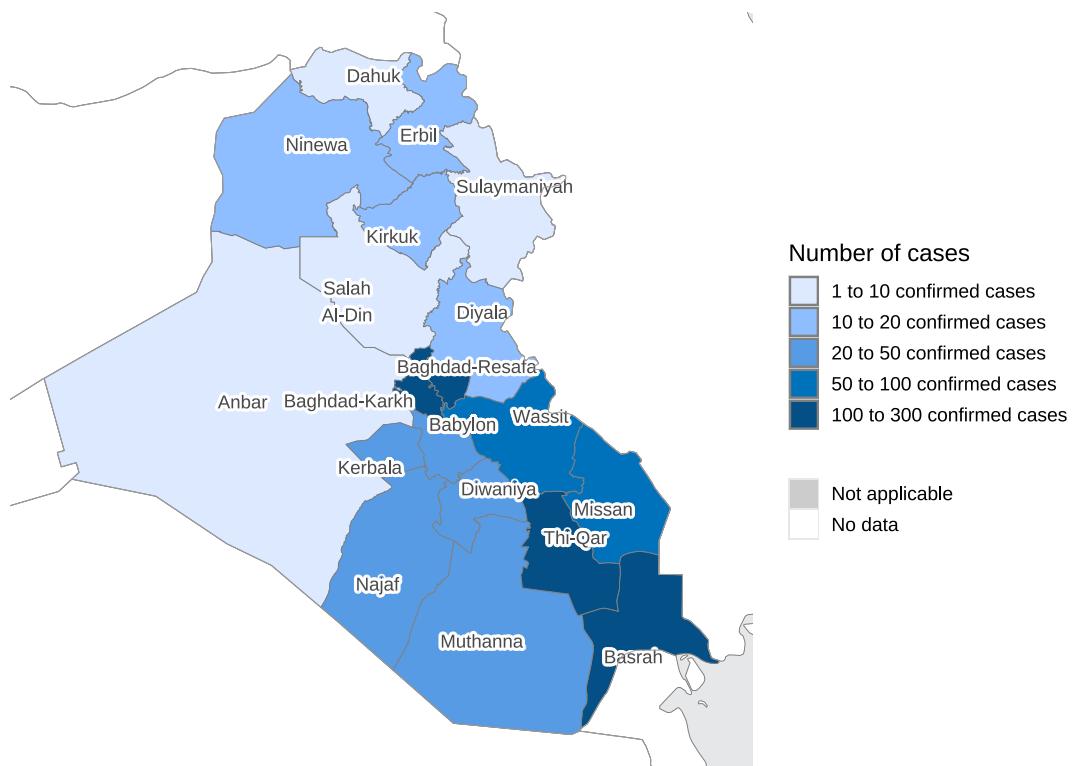
Notes

- Data are based on the available situation reports from **Iraq CDC**.

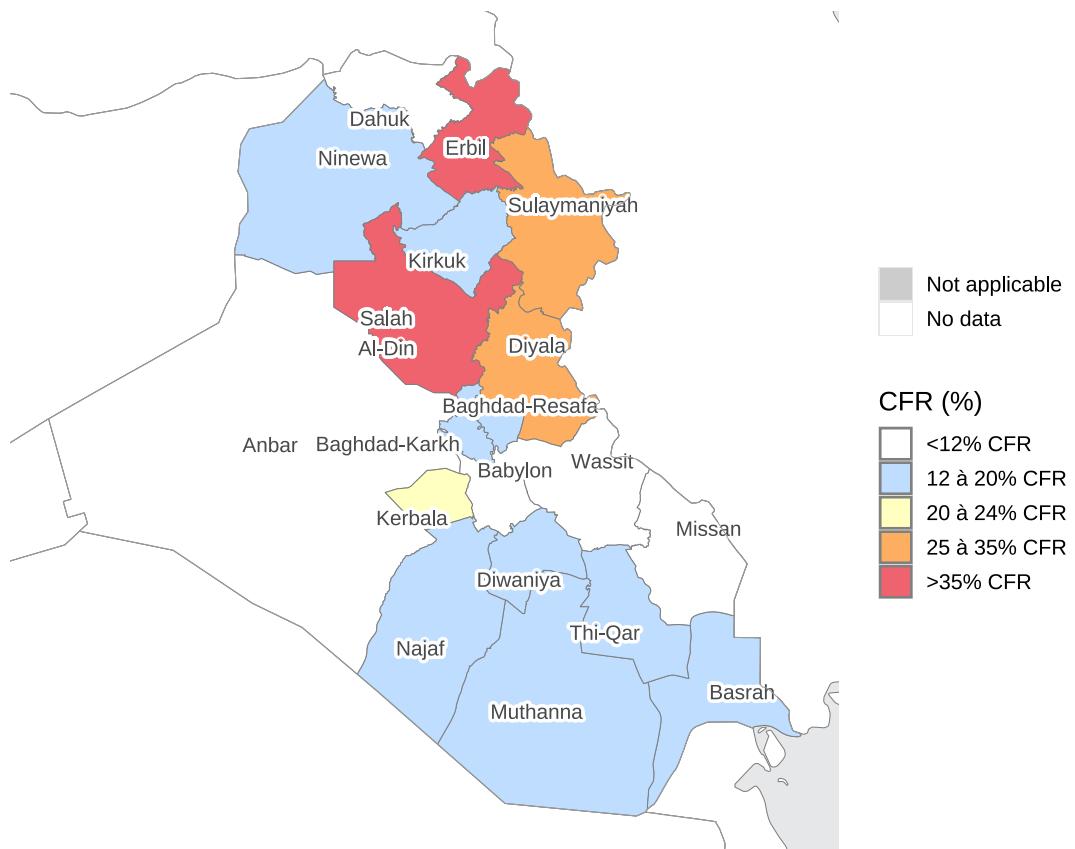
Key Highlights

- **915 total cases** in 2022-2023.
- **152 deaths** in 2022-2023.
- **17% overall CFR** in 2022-2023.

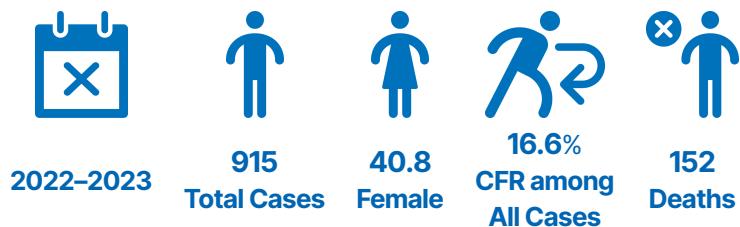
CCHF Cases



Cases Fatality Rates (%)



1 CCHF Situation, Iraq 2022-2023



Overall burden of CCHF in Iraq

	Year	Deaths	Cases	CFR (%)
2022	71.00	353.00	20.1%	
2023	81.00	562.00	14.4%	
Overall	152.00	915.00	16.6%	

- In 2023, **Erbil** reported the highest case fatality rate at **42.9%**.
- In 2022, **Salah Al-Din** reported the highest case fatality rate at **100.0%**.
- Majority in **central** and **southern governorates**.
- Seasonal pattern with peak around **April–July**.

CCHF dynamics in 2022

Table 2: Burden of CCHF in Iraq in 2022

Indicator	January	February	March	April	May	June	July	August	September	October	November	December	Overall	Trends
Cases	0	0	2	33	103	90	48	22	19	16	18	2	353.0	
Deaths	0	0	0	8	18	13	12	5	7	5	3	0	71.0	
Deaths percentage	NaN	NaN	0	24.2	17.5	14.4	25	22.7	36.8	31.2	16.7	0	20.1	
Females	0	0	0	9	43	39	17	10	7	7	3	1	136.0	
Males	0	0	2	24	60	51	31	12	12	9	15	1	217.0	
Females percentage	NaN	NaN	0	27.3	41.7	43.3	35.4	45.5	36.8	43.8	16.7	50	38.5	

Source: Iraq CDC

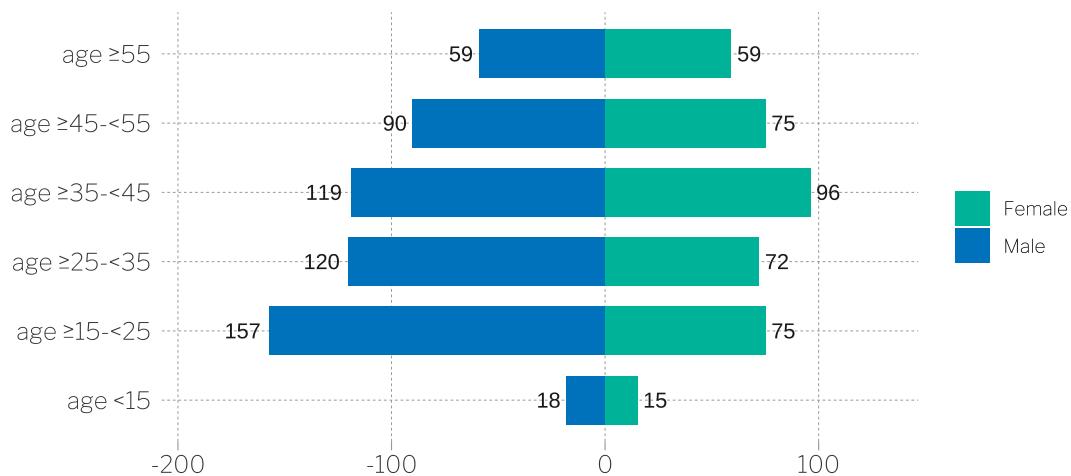
CCHF dynamics in 2023

Table 3: Burden of CCHF in Iraq in 2023

Indicator	January	February	March	April	May	June	July	August	September	October	November	December	Overall	Trends
Cases	0	2	9	41	110	135	137	53	29	26	16	2.0	560.0	
Deaths	0	1	4	3	15	19	16	3	6	7	5	1.0	80.0	
Deaths percentage	NaN	50	44.4	7.3	13.6	14.1	11.7	5.7	20.7	26.9	31.2	50.0	14.3	
Females	0	0	3	18	45	61	53	25	12	12	7	0.5	236.5	
Males	0	2	6	23	65	74	84	28	17	14	9	1.5	323.5	
Females percentage	NaN	0	33.3	43.9	40.9	45.2	38.7	47.2	41.4	46.2	43.8	25.0	42.2	

Source: Iraq CDC

Age and Sex distribution



Source: Iraq CDC

Population Characteristics

Characteristic	Cured N = 799	Death N = 156	p-value
Age group			0.051
<15	33/799 (4.1%)	0/156 (0%)	
age ≥15-<25	202/799 (25%)	30/156 (19%)	
age ≥25-<35	155/799 (19%)	37/156 (24%)	
age ≥35-<45	177/799 (22%)	38/156 (24%)	
age ≥45-<55	133/799 (17%)	32/156 (21%)	
age ≥55	99/799 (12%)	19/156 (12%)	
Sex			0.7
Female	330/799 (41%)	62/156 (40%)	
Male	469/799 (59%)	94/156 (60%)	
Age			0.027
Median (Min, Max)	35 (1, 90)	38 (15, 78)	
Fever	776/799 (97%)	150/156 (96%)	0.5
Hemorrhagic	260/799 (33%)	80/156 (51%)	<0.001
Rural/Urban			0.013
Rural	232/494 (47%)	31/82 (38%)	
Semi-Urban	61/494 (12%)	20/82 (24%)	
Urban	201/494 (41%)	31/82 (38%)	
Ribavirin	172/457 (38%)	19/79 (24%)	0.020
Tick bite	144/794 (18%)	32/155 (21%)	0.5

Source: Iraq CDC

The effect of seasonality on the CCHF incidence



Source: Iraq CDC

- In 2022-2023, a total of **3546 suspected CCHF patients** attended an hospital in Iraq.
- CCHF diagnosis was **confirmed in 955** (27%) cases, 915 by RT-PCR, 40 by serology only.

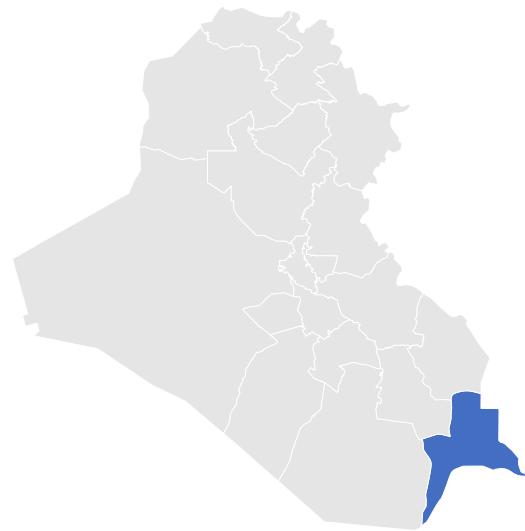
Number of CCHF confirmed cases by outcome and CFR per year



Cases by Ct values and CFR (%)



2 CCHF Situation in Basrah



CCHF dynamics in Basrah

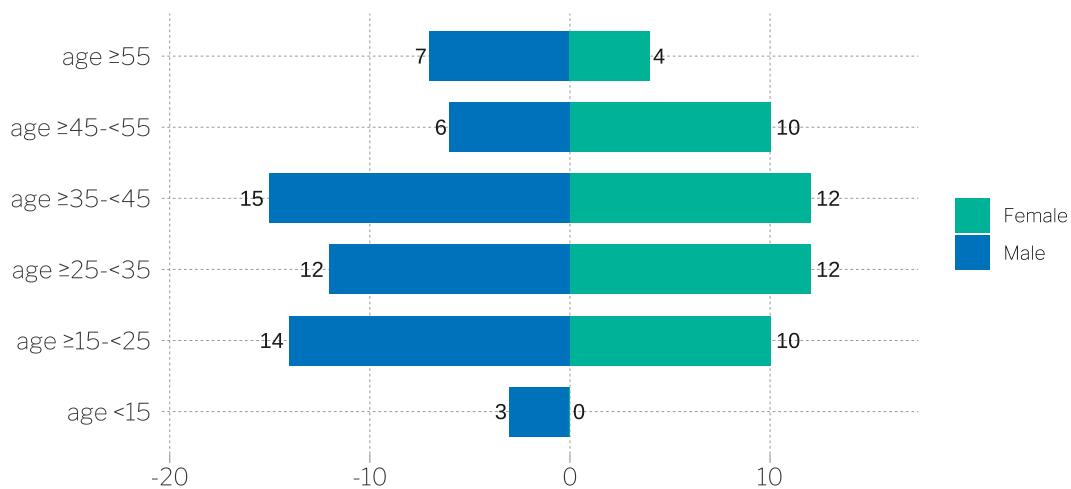
Table 5: Burden of CCHF in Basrah in 2022

Indicator	January	February	March	April	May	June	July	August	September	October	November	December	Overall	Trends
Cases	0	0	0	0	3	3	5	2	1	1	1	1	17.0	
Deaths	0	0	0	0	0	0	1	0	0	0	0	0	1.0	
Deaths percentage	NaN	NaN	NaN	NaN	0	0	20	0	0	0	0	0	5.9	
Females	0	0	0	0	0	1	0	1	0	1	0	1	4.0	
Males	0	0	0	0	3	2	5	1	1	0	1	0	13.0	
Females percentage	NaN	NaN	NaN	NaN	0	33.3	0	50	0	100	0	100	23.5	

Table 6: Burden of CCHF in Basrah in 2023

Indicator	January	February	March	April	May	June	July	August	September	October	November	December	Overall	Trends
Cases	0	0	3	11	15	14	23	8	3	3	3	1	84.0	
Deaths	0	0	0	0	4	4	3	0	0	1	1	0	13.0	
Deaths percentage	NaN	NaN	0	0	26.7	28.6	13	0	0	33.3	33.3	0	15.5	
Females	0	0	1	5	9	5	14	2	1	1	2	0	40.0	
Males	0	0	2	6	6	9	9	6	2	2	1	1	44.0	
Females percentage	NaN	NaN	33.3	45.5	60	35.7	60.9	25	33.3	33.3	66.7	0	47.6	

Age and Sex distribution



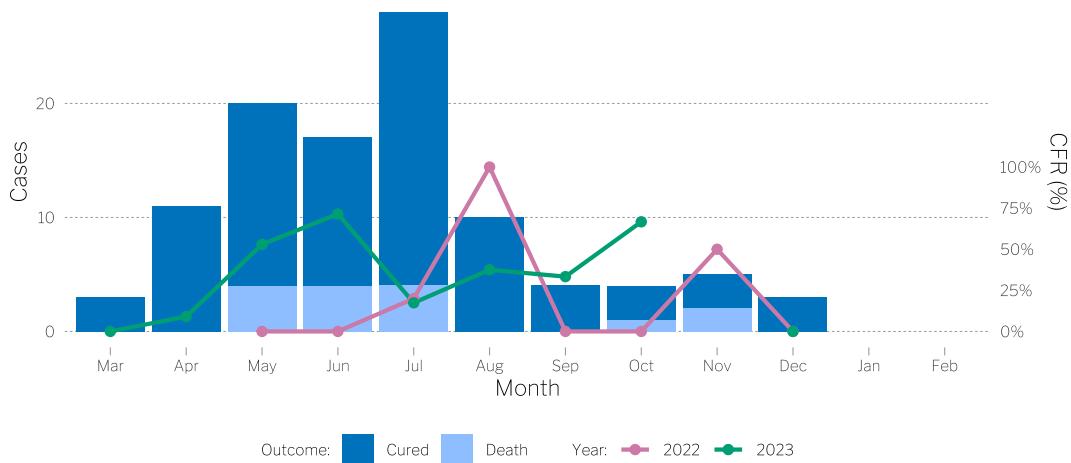
Population Characteristics in Basrah

Characteristic	Cured N = 90	Death N = 15	p-value
Age group			
<15	3/90 (3.3%)	0/15 (0%)	
age ≥15-<25	23/90 (26%)	1/15 (6.7%)	
age ≥25-<35	21/90 (23%)	3/15 (20%)	
age ≥35-<45	22/90 (24%)	5/15 (33%)	
age ≥45-<55	14/90 (16%)	2/15 (13%)	
age ≥55	7/90 (7.8%)	4/15 (27%)	
Sex			
Female	42/90 (47%)	6/15 (40%)	
Male	48/90 (53%)	9/15 (60%)	
Age			
Median (Min, Max)	33 (12, 70)	42 (24, 75)	0.016
Fever			
yes	90/90 (100%)	15/15 (100%)	
Hemorrhagic			
36/90 (40%)	6/15 (40%)	>0.9	
Rural/Urban			
Rural	35/73 (48%)	4/13 (31%)	
Semi-Urban	12/73 (16%)	4/13 (31%)	
Urban	26/73 (36%)	5/13 (38%)	
Ribavirin			
57/72 (79%)	10/13 (77%)	>0.9	
Tick bite			
10/90 (11%)	2/15 (13%)	0.7	

Source: Iraq CDC



CCHF confirmed cases by outcome and CFR per year in Basrah



Cases by Ct values and CFR (%) in Basrah

