



Overview of Crimean Congo Hemorrhagic Fever in Iraq

Epidemiological Week 14-2025



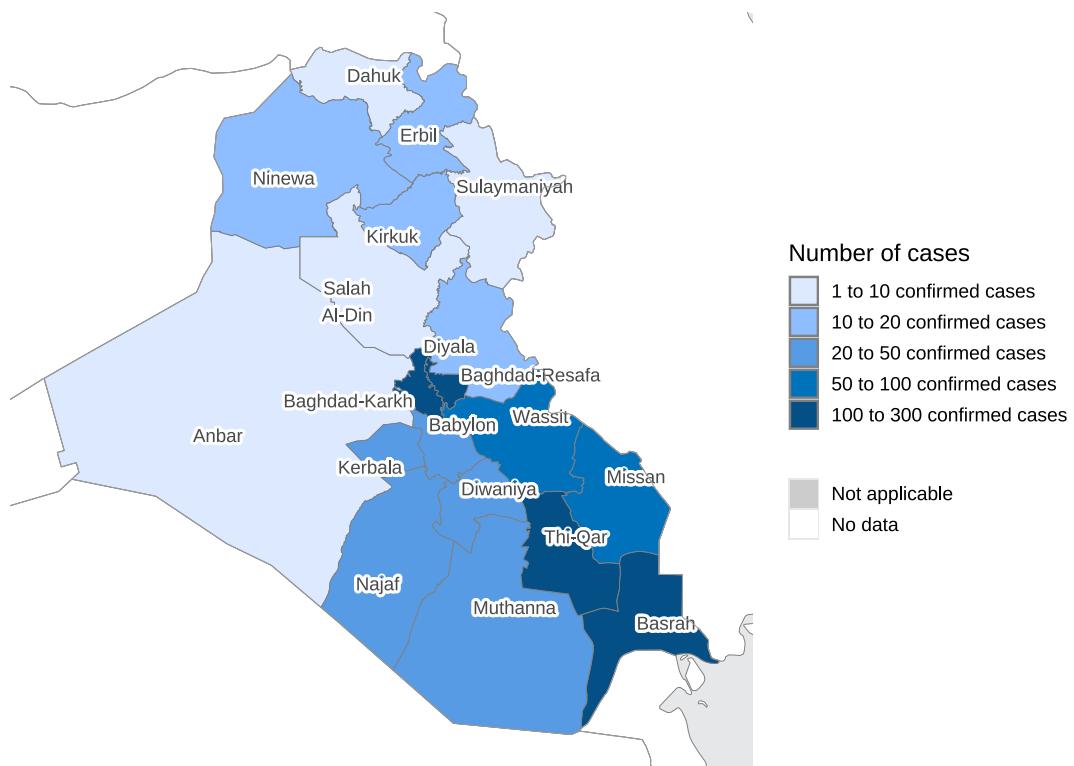
Notes

- 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.

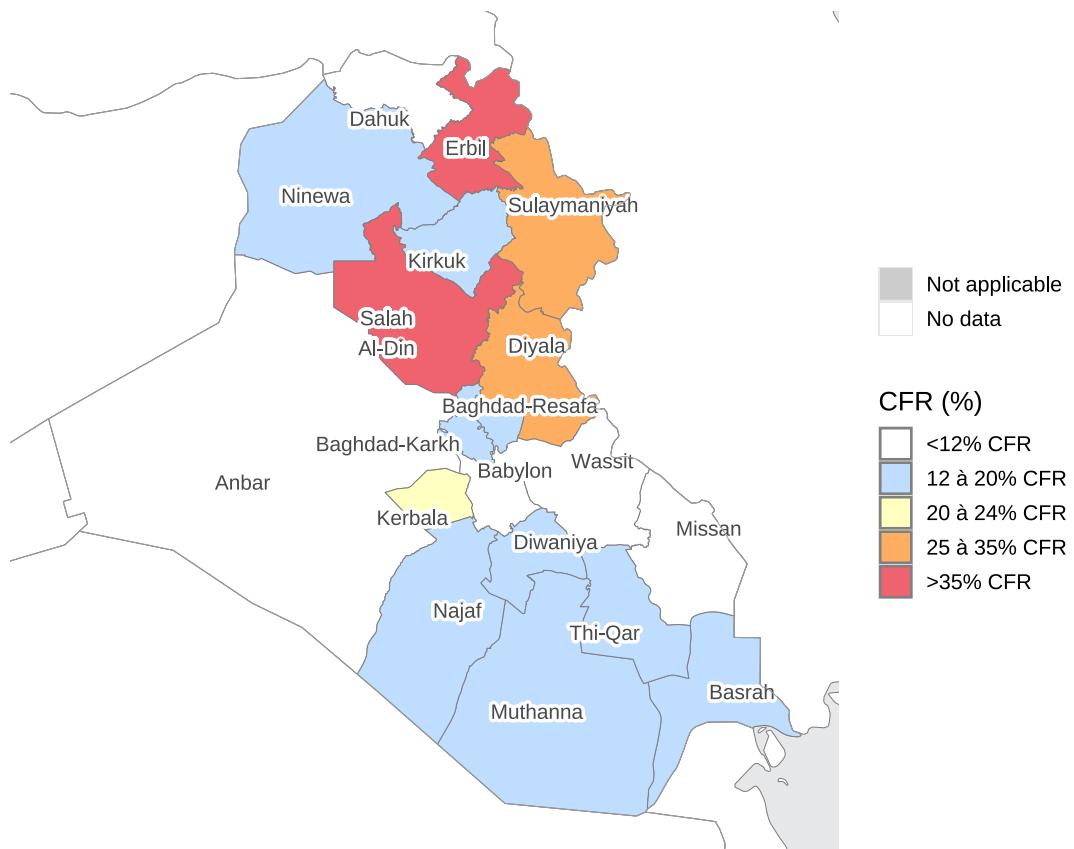
CCHF Cases



Number of cases

- 1 to 10 confirmed cases
- 10 to 20 confirmed cases
- 20 to 50 confirmed cases
- 50 to 100 confirmed cases
- 100 to 300 confirmed cases
- Not applicable
- No data

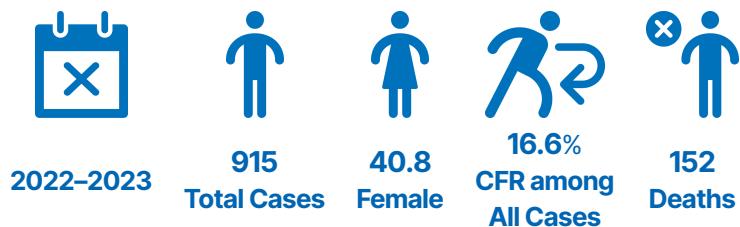
Cases Fatality Rates (%)



CFR (%)

- <12% CFR
- 12 à 20% CFR
- 20 à 24% CFR
- 25 à 35% CFR
- >35% CFR
- Not applicable
- No data

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

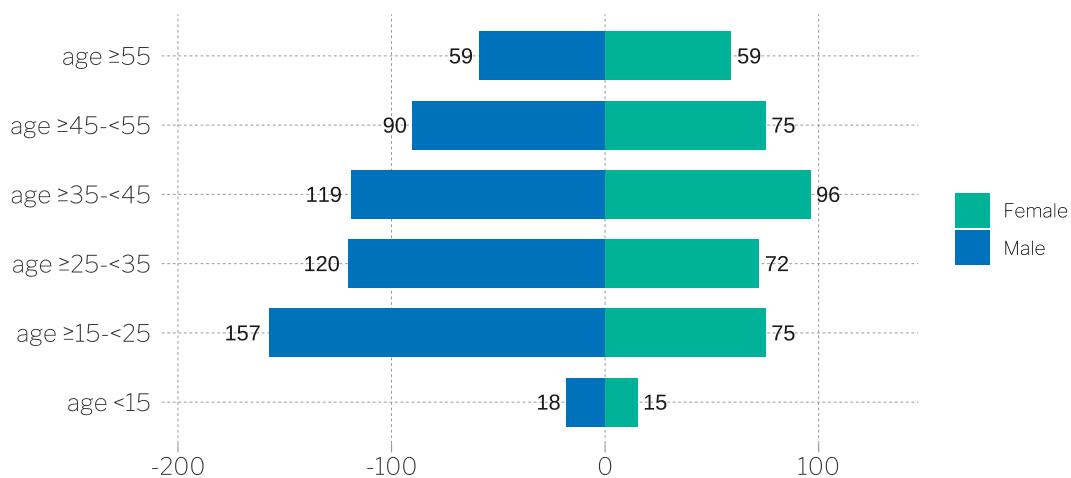
CCHF dynamics in 2023

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 Ninewa



CCHF dynamics in Ninewa

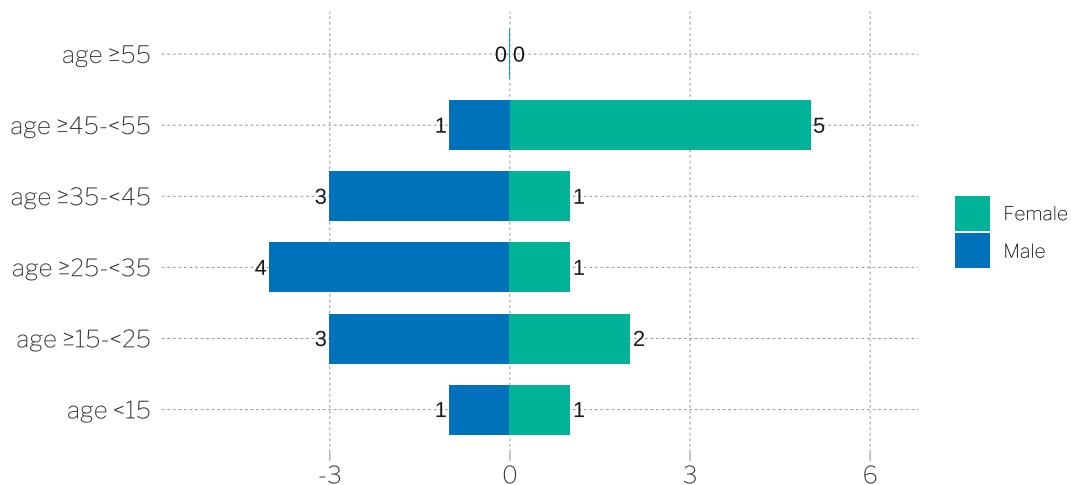
Table 5: Burden of CCHF in Ninewa in 2022

Indicator	January	February	March	April	May	June	July	August	September	October	November	December	Overall	Trends
Cases	0	0	0	0	2	2	0	0	1	2	0	0	7.0	
Deaths	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
Deaths percentage	NaN	NaN	NaN	NaN	0	0	NaN	NaN	0	0	NaN	-	0.0	
Females	0	0	0	0	1	1	0	0	0	1	0	0	3.0	
Males	0	0	0	0	1	1	0	0	1	1	0	0	4.0	
Females percentage	NaN	NaN	NaN	NaN	50	50	NaN	NaN	0	50	NaN	-	42.9	

Table 6: Burden of CCHF in Ninewa in 2023

Indicator	January	February	March	April	May	June	July	August	September	October	November	December	Overall	Trends
Cases	0	0	0	0	1	4	2	1	2	1	2	0	13.0	
Deaths	0	0	0	0	0	1	1	0	1	0	1	0	4.0	
Deaths percentage	NaN	NaN	NaN	NaN	0	25	50	0	50	0	50	-	30.8	
Females	0	0	0	0	1	1	0	0	1	1	1	0	5.0	
Males	0	0	0	0	0	3	2	1	1	0	1	0	8.0	
Females percentage	NaN	NaN	NaN	NaN	100	25	0	0	50	100	50	-	38.5	

Age and Sex distribution



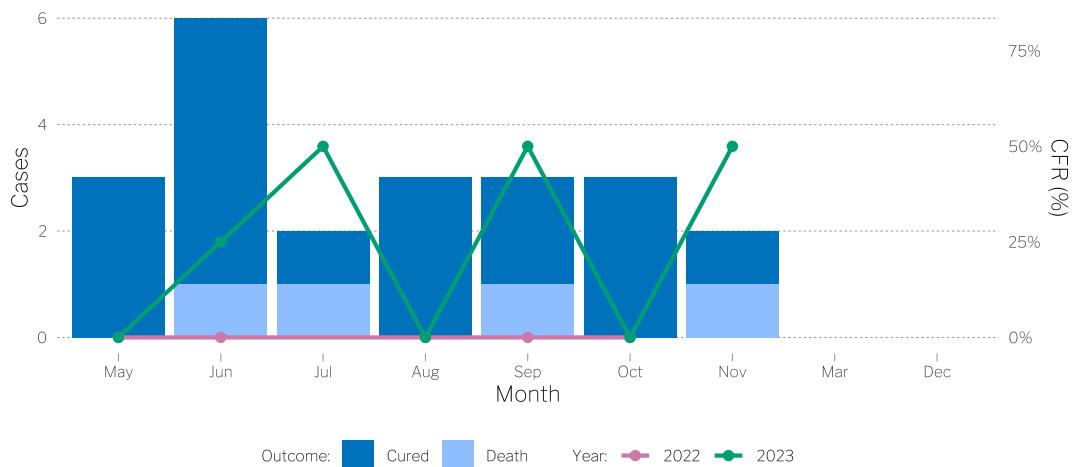
Female
Male

Population Characteristics in Ninewa

Characteristic	Cured N = 18	Death N = 4	p-value
Age group			0.5
<15	2/18 (11%)	0/4 (0%)	
age ≥15-<25	4/18 (22%)	1/4 (25%)	
age ≥25-<35	3/18 (17%)	2/4 (50%)	
age ≥35-<45	3/18 (17%)	1/4 (25%)	
age ≥45-<55	6/18 (33%)	0/4 (0%)	
age ≥55	0/18 (0%)	0/4 (0%)	
Sex			0.6
Female	9/18 (50%)	1/4 (25%)	
Male	9/18 (50%)	3/4 (75%)	
Age			0.4
Median (Min, Max)	35 (5, 52)	26 (21, 38)	
Fever			
yes	18/18 (100%)	4/4 (100%)	
Hemorrhagic			>0.9
	11/18 (61%)	3/4 (75%)	
Rural/Urban			>0.9
Rural	4/9 (44%)	2/4 (50%)	
Semi-Urban	2/9 (22%)	1/4 (25%)	
Urban	3/9 (33%)	1/4 (25%)	
Ribavirin			>0.9
	1/9 (11%)	0/4 (0%)	
Tick bite			0.5
	5/17 (29%)	0/4 (0%)	

Source: Iraq CDC

CCHF confirmed cases by outcome and CFR per year in Ninewa



Cases by Ct values and CFR (%) in Ninewa

