

# Overview of Crimean Congo Hemorrhagic Fever in Iraq

Epidemiological Week 14-2025



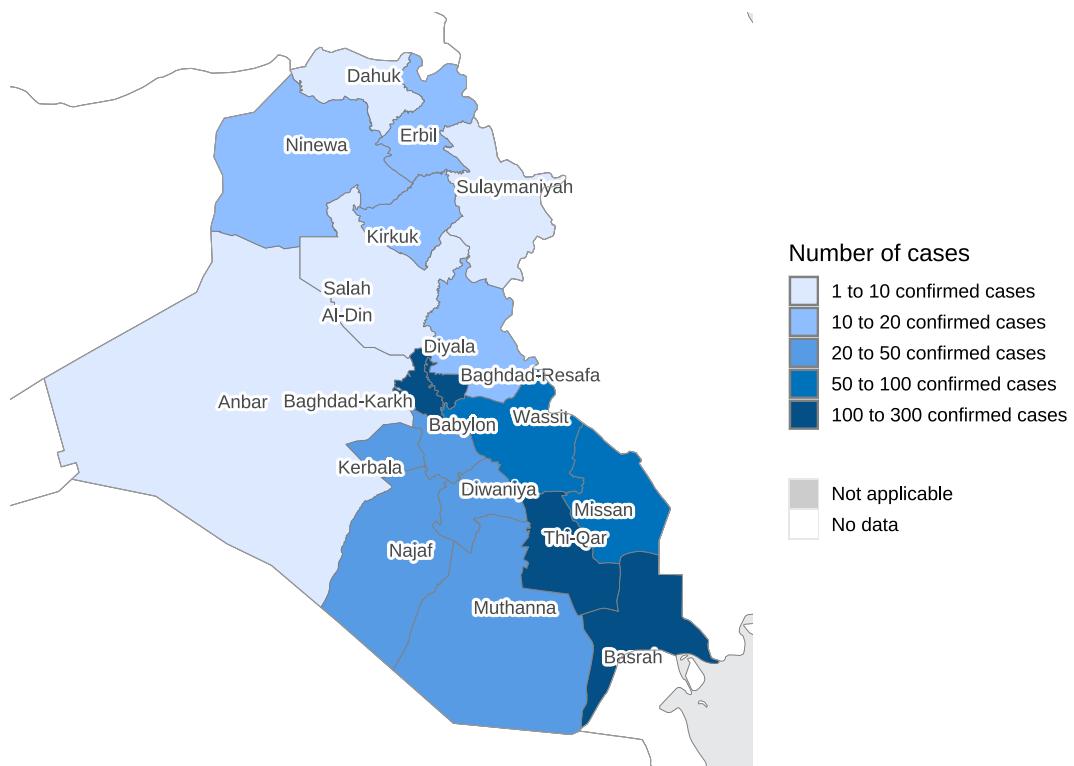
## Notes

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

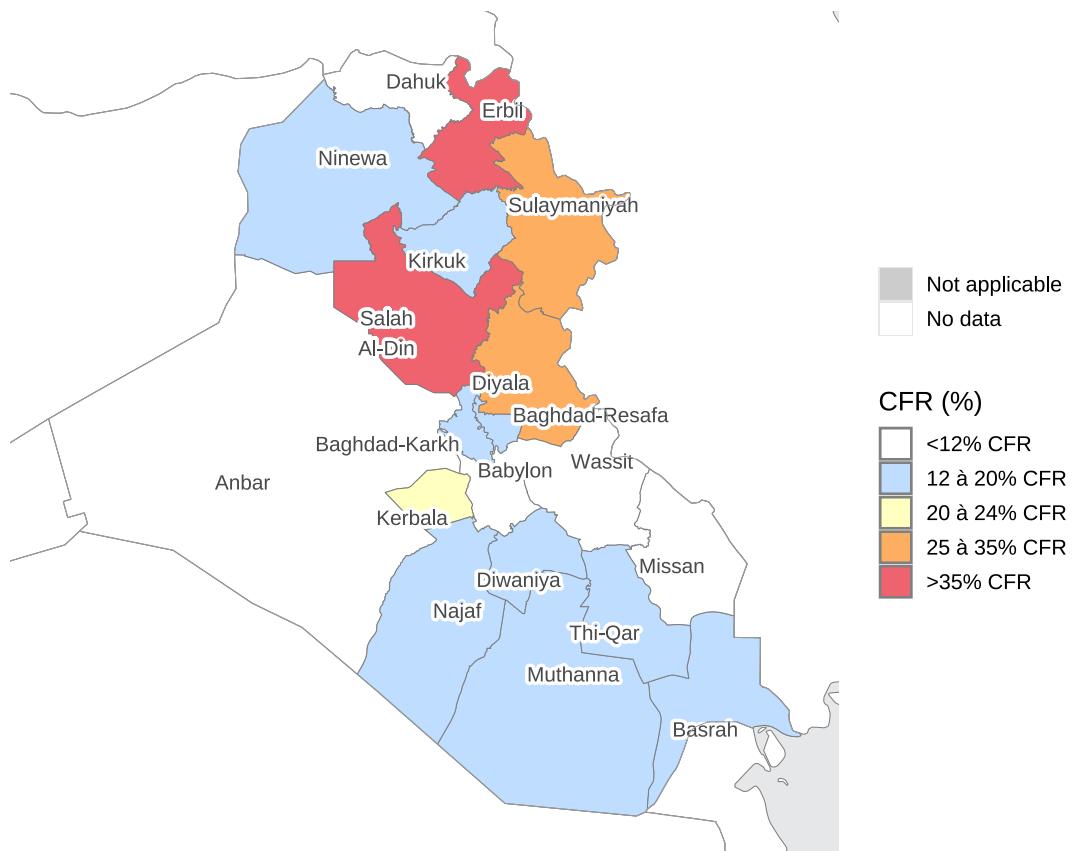
## Key Highlights

- **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

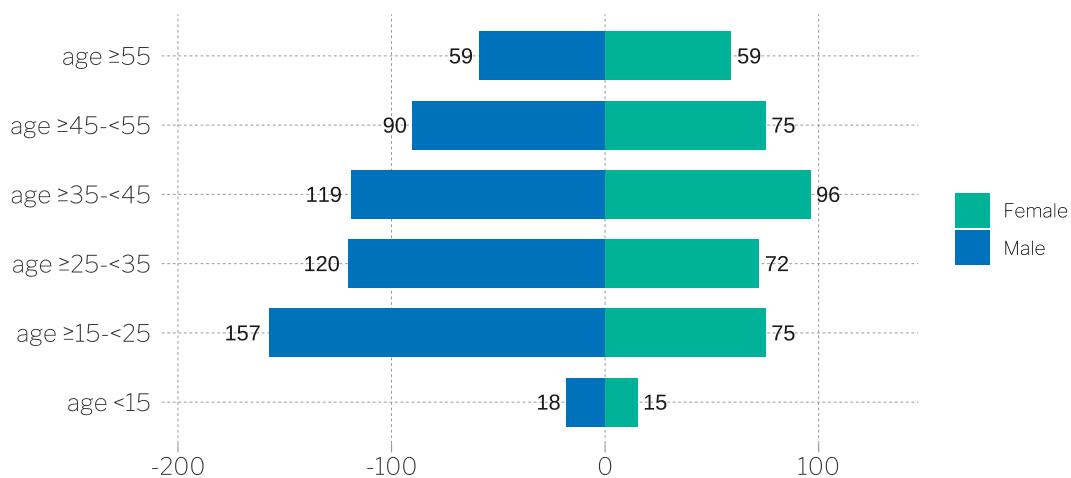
## CCHF dynamics in 2023

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
<b>Age group</b>			<b>0.051</b>
<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%)	
<b>Sex</b>			<b>0.7</b>
Female	330/799 (41%)	62/156 (40%)	
Male	469/799 (59%)	94/156 (60%)	
<b>Age</b>			<b>0.027</b>
Median (Min, Max)	35 (1, 90)	38 (15, 78)	
<b>Fever</b>	<b>776/799 (97%)</b>	<b>150/156 (96%)</b>	<b>0.5</b>
<b>Hemorrhagic</b>	<b>260/799 (33%)</b>	<b>80/156 (51%)</b>	<b>&lt;0.001</b>
<b>Rural/Urban</b>			<b>0.013</b>
Rural	232/494 (47%)	31/82 (38%)	
Semi-Urban	61/494 (12%)	20/82 (24%)	
Urban	201/494 (41%)	31/82 (38%)	
<b>Ribavirin</b>	<b>172/457 (38%)</b>	<b>19/79 (24%)</b>	<b>0.020</b>
<b>Tick bite</b>	<b>144/794 (18%)</b>	<b>32/155 (21%)</b>	<b>0.5</b>

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.

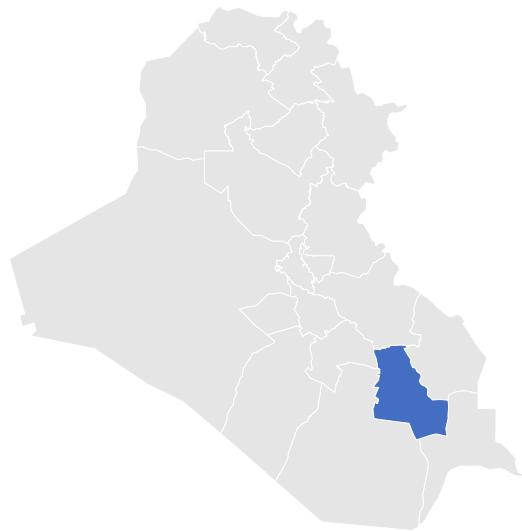
## Number of CCHF confirmed cases by outcome and CFR per year



## Cases by Ct values and CFR (%)



## 2 CCHF Situation in Thi-Qar



### CCHF dynamics in Thi-Qar

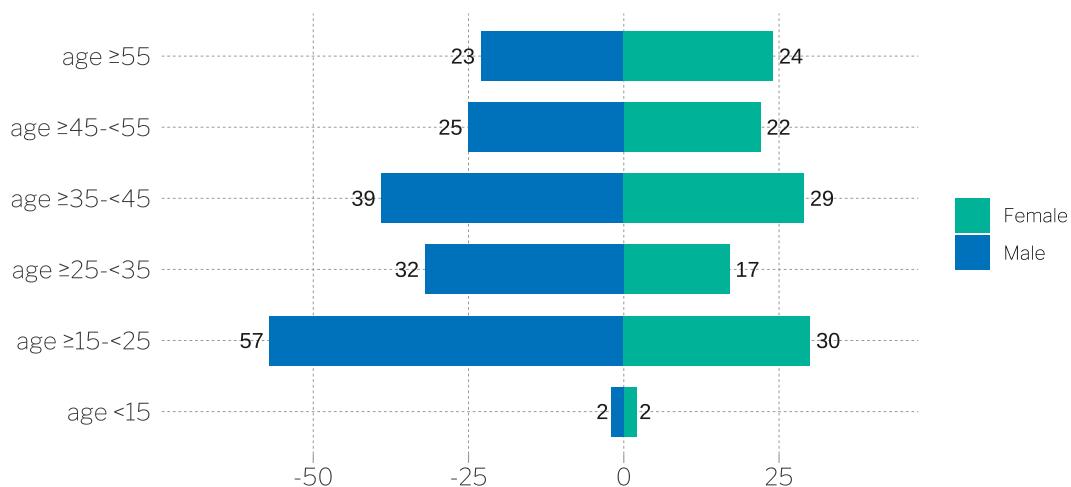
Table 5: Burden of CCHF in Thi-Qar in 2022

Indicator	January	February	March	April	May	June	July	August	September	October	November	December	Overall	Trends
<b>Cases</b>	0	0	1	20	34	40	25	13	10	5	7	0	155.0	
<b>Deaths</b>	0	0	0	4	10	8	6	3	5	2	1	0	39.0	
<b>Deaths percentage</b>	NaN	NaN	0	20	29.4	20	24	23.1	50	40	14.3	-	25.2	
<b>Females</b>	0	0	0	5	15	18	12	7	4	2	2	0	65.0	
<b>Males</b>	0	0	1	15	19	22	13	6	6	3	5	0	90.0	
<b>Females percentage</b>	NaN	NaN	0	25	44.1	45	48	53.8	40	40	28.6	-	41.9	

Table 6: Burden of CCHF in Thi-Qar in 2023

Indicator	January	February	March	April	May	June	July	August	September	October	November	December	Overall	Trends
<b>Cases</b>	0	0	3	12	30	27	32	16	5	7	3	1	136.0	
<b>Deaths</b>	0	0	2	0	2	4	2	0	1	2	1	1	15.0	
<b>Deaths percentage</b>	NaN	NaN	66.7	0	6.7	14.8	6.2	0	20	28.6	33.3	100	11.0	
<b>Females</b>	0	0	1	6	12	12	9	6	2	5	0	1	54.0	
<b>Males</b>	0	0	2	6	18	15	23	10	3	2	3	0	82.0	
<b>Females percentage</b>	NaN	NaN	33.3	50	40	44.4	28.1	37.5	40	71.4	0	100	39.7	

## Age and Sex distribution



## Population Characteristics in Thi-Qar

Characteristic	Cured N = 248	Death N = 54	p-value
<b>Age group</b>			
<15	4/248 (1.6%)	0/54 (0%)	
age ≥15-<25	71/248 (29%)	16/54 (30%)	
age ≥25-<35	39/248 (16%)	10/54 (19%)	
age ≥35-<45	58/248 (23%)	10/54 (19%)	
age ≥45-<55	36/248 (15%)	11/54 (20%)	
age ≥55	40/248 (16%)	7/54 (13%)	
<b>Sex</b>			
Female	100/248 (40%)	24/54 (44%)	
Male	148/248 (60%)	30/54 (56%)	
<b>Age</b>			
Median (Min, Max)	35 (1, 80)	38 (15, 78)	0.7
<b>Fever</b>			
	<b>241/248 (97%)</b>	<b>50/54 (93%)</b>	<b>0.11</b>
<b>Hemorrhagic</b>			
	<b>45/248 (18%)</b>	<b>17/54 (31%)</b>	<b>0.028</b>
<b>Rural/Urban</b>			
Rural	58/125 (46%)	4/15 (27%)	
Semi-Urban	8/125 (6.4%)	1/15 (6.7%)	
Urban	59/125 (47%)	10/15 (67%)	
<b>Ribavirin</b>			
	<b>35/120 (29%)</b>	<b>3/15 (20%)</b>	<b>0.6</b>
<b>Tick bite</b>			
	<b>59/247 (24%)</b>	<b>20/53 (38%)</b>	<b>0.038</b>

Source: Iraq CDC

## CCHF confirmed cases by outcome and CFR per year in Thi-Qar



## Cases by Ct values and CFR (%) in Thi-Qar

