

Overview of Crimean Congo Hemorrhagic Fever in Iraq

Epidemiological Week 14-2025



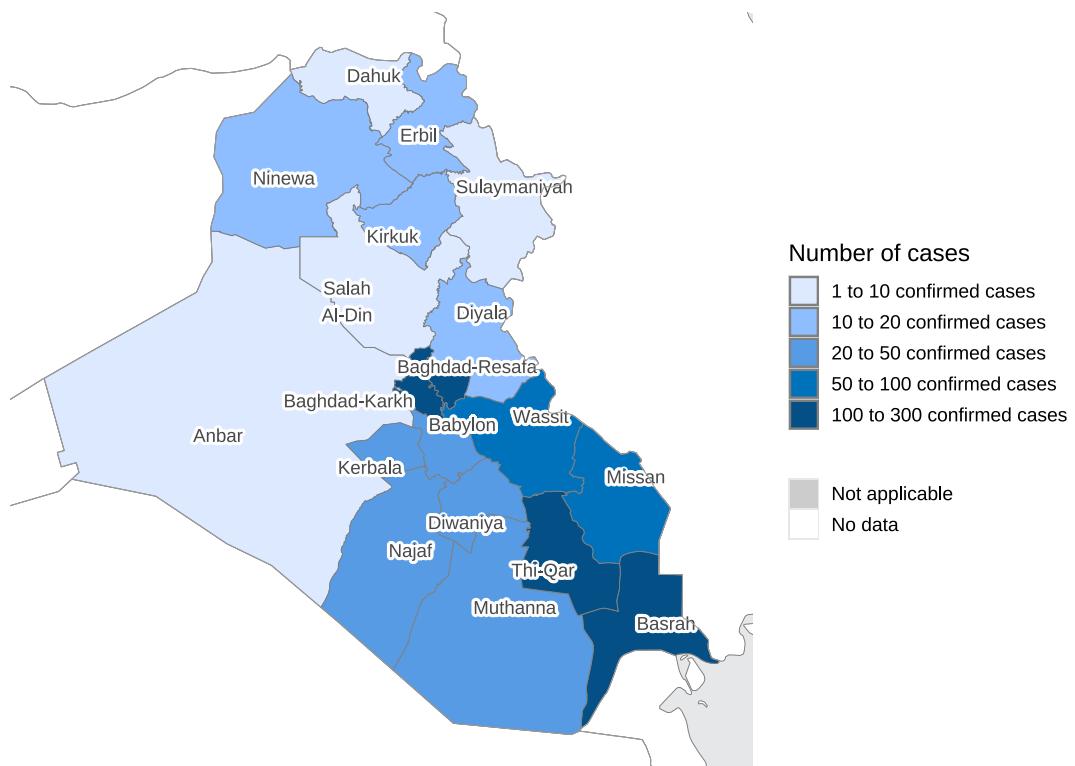
Notes

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

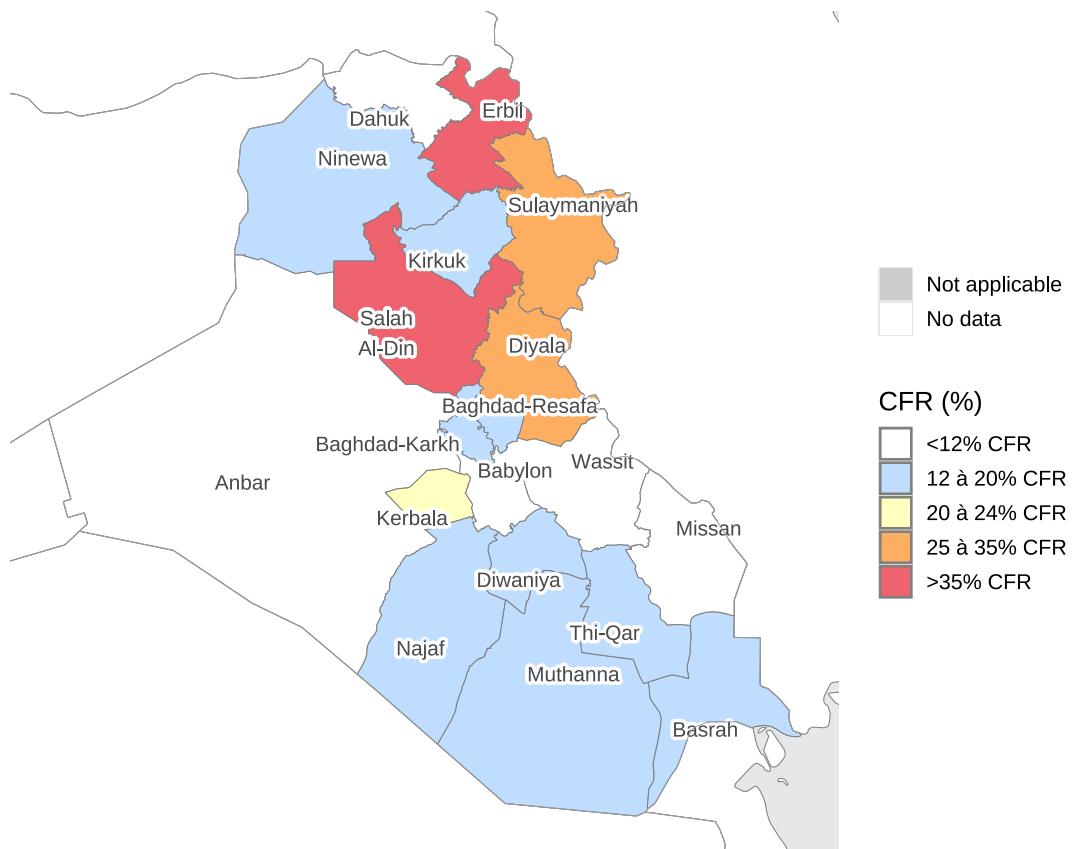
Key Highlights

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

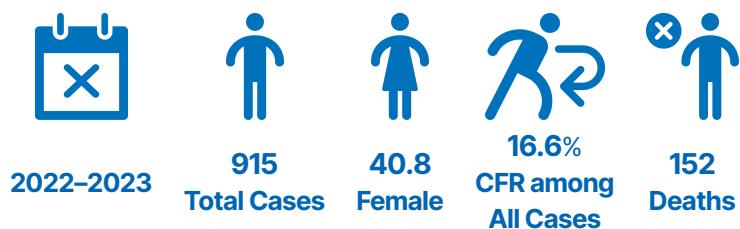
CCHF Cases



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

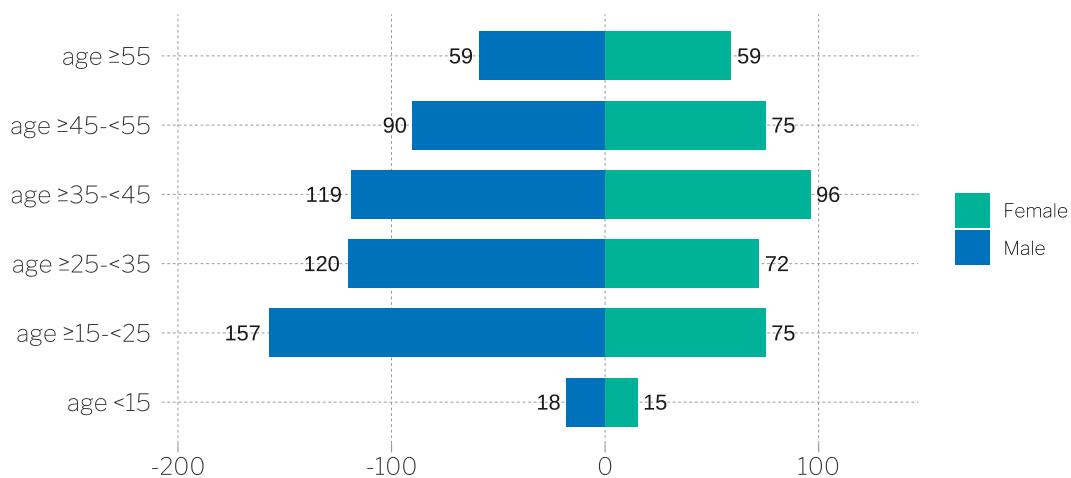
CCHF dynamics in 2023

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 Babylon



CCHF dynamics in Babylon

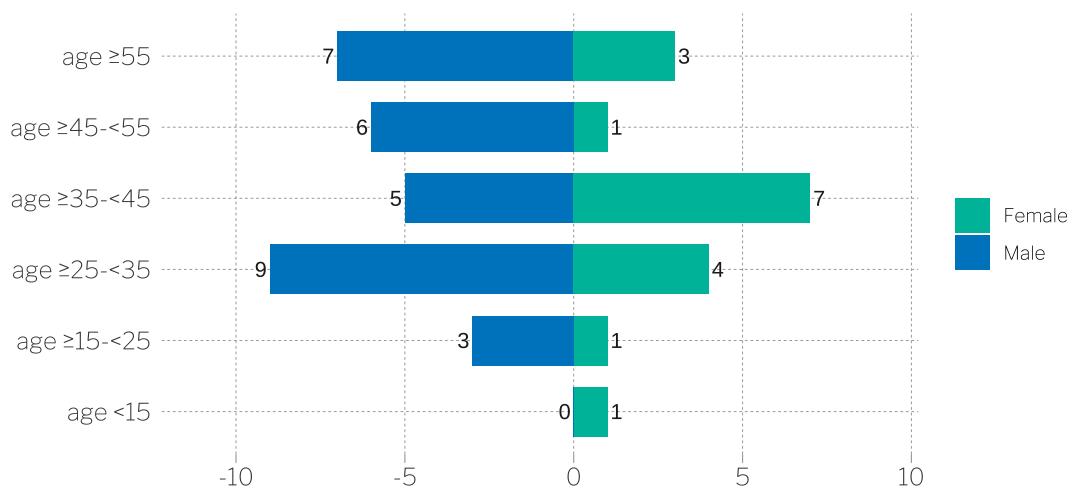
Table 5: Burden of CCHF in Babylon in 2022

| Indicator | January | February | March | April | May | June | July | August | September | October | November | December | Overall | Trends |
|--------------------|---------|----------|-------|-------|------|------|------|--------|-----------|---------|----------|----------|---------|---|
| Cases | 0 | 0 | 0 | 3 | 11 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 24.0 |  |
| Deaths | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.0 |  |
| Deaths percentage | NaN | NaN | NaN | 33.3 | 9.1 | 0 | 0 | NaN | NaN | NaN | NaN | - | 8.3 |  |
| Females | 0 | 0 | 0 | 1 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 6.0 |  |
| Males | 0 | 0 | 0 | 2 | 7 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 18.0 |  |
| Females percentage | NaN | NaN | NaN | 33.3 | 36.4 | 0 | 20 | NaN | NaN | NaN | NaN | - | 25.0 |  |

Table 6: Burden of CCHF in Babylon in 2023

| Indicator | January | February | March | April | May | June | July | August | September | October | November | December | Overall | Trends |
|--------------------|---------|----------|-------|-------|-----|------|------|--------|-----------|---------|----------|----------|---------|---|
| Cases | 0 | 0 | 1 | 0 | 5 | 7 | 2 | 4 | 0 | 3 | 0 | 0 | 22.0 |  |
| Deaths | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 3.0 |  |
| Deaths percentage | NaN | NaN | 100 | NaN | 0 | 0 | 0 | 0 | NaN | 66.7 | NaN | - | 13.6 |  |
| Females | 0 | 0 | 1 | 0 | 2 | 4 | 2 | 2 | 0 | 0 | 0 | 0 | 11.0 |  |
| Males | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 2 | 0 | 3 | 0 | 0 | 11.0 |  |
| Females percentage | NaN | NaN | 100 | NaN | 40 | 57.1 | 100 | 50 | NaN | 0 | NaN | - | 50.0 |  |

Age and Sex distribution

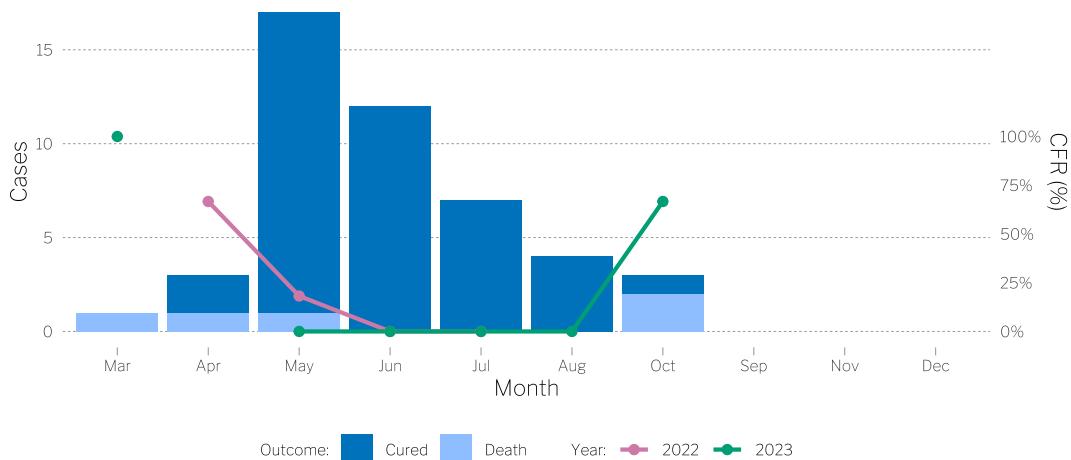


Population Characteristics in Babylon

| Characteristic | Cured N = 42 | Death N = 5 | p-value |
|--------------------|--------------------|-------------------|----------------|
| Age group | | | |
| <15 | 1/42 (2.4%) | 0/5 (0%) | |
| age ≥15-<25 | 4/42 (9.5%) | 0/5 (0%) | |
| age ≥25-<35 | 10/42 (24%) | 3/5 (60%) | |
| age ≥35-<45 | 10/42 (24%) | 2/5 (40%) | |
| age ≥45-<55 | 7/42 (17%) | 0/5 (0%) | |
| age ≥55 | 10/42 (24%) | 0/5 (0%) | |
| Sex | | | |
| Female | 14/42 (33%) | 3/5 (60%) | |
| Male | 28/42 (67%) | 2/5 (40%) | |
| Age | | | |
| Median (Min, Max) | 42 (12, 73) | 33 (26, 36) | 0.10 |
| Fever | | | |
| | 37/42 (88%) | 5/5 (100%) | >0.9 |
| Hemorrhagic | | | |
| | 15/42 (36%) | 3/5 (60%) | 0.4 |
| Rural/Urban | | | |
| Rural | 16/20 (80%) | 2/3 (67%) | |
| Semi-Urban | 2/20 (10%) | 1/3 (33%) | |
| Urban | 2/20 (10%) | 0/3 (0%) | |
| Ribavirin | | | |
| | 5/14 (36%) | 1/3 (33%) | >0.9 |
| Tick bite | | | |
| | 11/41 (27%) | 0/5 (0%) | 0.3 |

Source: Iraq CDC

CCHF confirmed cases by outcome and CFR per year in Babylon



Cases by Ct values and CFR (%) in Babylon

