



# VIBRIO CHOLERAE O1 OGAWA BACTEREMIA WITH EXTRAINTESTINAL MANIFESTATION



INTERNATIONAL  
**CONGRESS**  
ON INFECTIOUS DISEASES

1 UMMU SALAMAH FAISAL, 2 UMMU AFEERA ZAINULABID, 3 NAJMA KORI, 3 PETRICK PERIYASAMY, 3 TZAR MOHD NIZAM KHAITHIR

## INTRO

O1 Ogawa *Vibrio cholerae* is rarely reported causing extraintestinal manifestation. Here, we report a case of O1 Ogawa *Vibrio cholerae* bacteremia with bullous cellulitis of the left leg. The patient acquired the infection through a small skin prick on her leg from contaminated soil that served as an environmental reservoir for *Vibrio cholerae*.

## METHODS

A 63-year-old Chinese lady with an underlying Thalassemia trait, Systemic Lupus Erythematosus (SLE) and chronic hepatitis B presented with severe pain and swelling of her left leg. She accidentally hit a tree branch on the ground, pricking her left leg and leaving a small wound over the left anterior shin. Examination revealed a swollen left leg from below the knee level until above the ankle, with a small discharging wound on the shin with serous discharge. Blood investigation showed WBC of  $24 \times 10^9/L$ , Hb of 7.9 g/dL, and platelets of  $276 \times 10^9/L$ . C-reactive Protein was 20 mg/L. Radiological examination of the left leg revealed no gas shadow.

## CONCLUSION

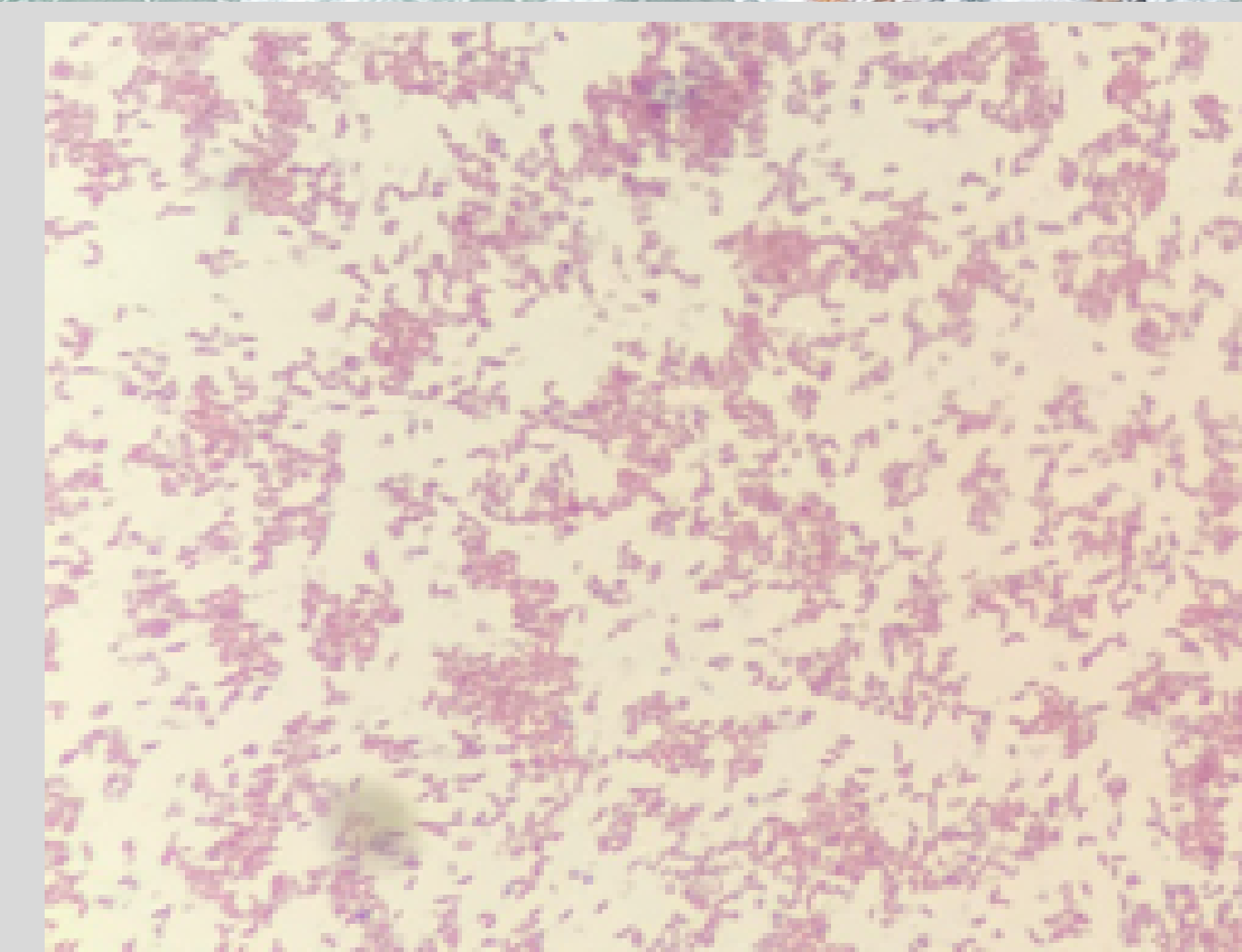
To our knowledge, this is the first case of the O1 Ogawa strain of *Vibrio cholerae* reported to cause bullous cellulitis and septicemia in Malaysia.

## FINDINGS

Her blood culture was positive for *Vibrio cholerae*. The isolate was sent to the National Public Health Laboratory Sungai Buloh for confirmation and serotyping, and the result came back as *Vibrio cholerae* serotype O1 Ogawa. The patient was treated with oral cotrimoxazole four tab BD, and her wound was on the daily dressing. She completed ten days of oral cotrimoxazole in the ward and remained afebrile. Repeated blood culture revealed no growth, as well as the pus and tissue cultures.

## DISCUSSION

O1 Ogawa *Vibrio cholerae* may cause non-diarrheal disease in an immunocompromised patient with atypical clinical manifestations. This infrequent strain of O1 Ogawa *Vibrio cholerae* does exist in the local environment as their natural reservoir.



**Figure 1:** Comma-shaped gram negative bacilli



**Figure 2:** Beta hemolytic colonies on blood agar

---

**Fwd: ISID Congress 2022 Abstract Award Announcement**

---

ummu salamah faisal <ummusalamahfaisal@gmail.com>  
To: <ummuafeera@gmail.com>

Fri, 28 Oct at 2:35 PM

Sent from my iPhone

Begin forwarded message:

**From:** ummu salamah faisal <ummusalamahfaisal@gmail.com>  
**Date:** 5 October 2022 at 9:57:44 PM MYT  
**To:** Christopher Widmer <cwidmer@isid.org>  
**Subject: Re: ISID Congress 2022 Abstract Award Announcement**

dear Sir, noted with much thanks..

Sent from my iPhone

On 5 Oct 2022, at 9:51 PM, Christopher Widmer <cwidmer@isid.org> wrote:

Greetings - You should have retained copies of the abstract you submitted with the title: VIBRIO CHOLERA O1 OGAWA BACTEREMIA WITH EXTRAINTESTINAL MANIFESTATION. This is the abstract that has been selected for this award. This abstract has been selected for our e-POSTER session which means it will only be presented online. More information on how to submit your abstract poster will be forthcoming, as well as travel and hotel information. -Christopher

On Tue, Oct 4, 2022 at 8:52 PM ummu salamah faisal <ummusalamahfaisal@gmail.com> wrote:

Thank you so much for the award and notification. Yes, I would love to come to the Congress as a participant.  
May I ask the Congress Committee to email me the final version of the abstract that I have recently submitted to the ISID Congress?  
My abstracts that have been accepted for the poster are abstracts no 173, no 522, and no 574, including this abstract for the E poster.  
Thank you so much in advance for your attention.

On Sat, Oct 1, 2022 at 6:18 AM Christopher Widmer <cwidmer@isid.org> wrote:

**CONGRATULATIONS!** You have been chosen as a recipient of the **Bill & Melinda Gates Foundation Professional Development Award**. As part of this award, travel, hotel and Congress registration will be provided to you. Additionally, you will be invited to a special Reception at the Congress. Further information regarding this will be sent to you next week.

The Scientific Program Committee has selected your abstract for an **e-POSTER PRESENTATION** during the **ISID Congress 2022**.

**Please see your details:**

**Abstract Title:** VIBRIO CHOLERA O1 OGAWA BACTEREMIA WITH  
EXTRAIESTINAL MANIFESTATION

Further information on session scheduling will be sent to you in due course. You will also receive a similar communication email from Kenes as an automatic part of the abstract process. **You DO NOT have to register for the Congress.** This will be done by us for you.

Yours Sincerely,

**ISID 2022 Kuala Lumpur Congress Program Committee**



**Christopher Widmer**

Senior Manager of Operations  
International Society for Infectious Diseases (ISID)

