



Contents lists available at ScienceDirect

International Journal of Surgery Case Reports

journal homepage: www.casereports.com

Hassab's operation for Joubert syndrome with congenital hepatic fibrosis: A case report



Koji Miyazawa*, Yasuyuki Hara, Kenji Shimizu, Wataru Nakanishi, Kazuaki Tokodai, Chikashi Nakanishi, Shigehito Miyagi, Naoki Kawagishi, Noriaki Ohuchi

Division of Advanced Surgical Science and Technology, Tohoku University Graduate School of Medicine, 2-1, Seiryō-cho, Aoba-ku, Sendai, Miyagi, 980-8574, Japan

ARTICLE INFO

Article history:

Received 19 January 2017

Received in revised form 22 March 2017

Accepted 25 March 2017

Available online 28 March 2017

Keywords:

Joubert syndrome

Joubert syndrome and related disorders

Hassab's operation

Congenital hepatic fibrosis

Portal hypertension

Gastroesophageal varices

ABSTRACT

INTRODUCTION: Joubert syndrome is characterized by psychomotor developmental delay, hypotonia, oculomotor abnormalities, occasional retinal dystrophy and cystic kidneys, and frequent and often, striking breathing abnormalities, especially in the neonatal period, with panting tachypnea followed by apnea. We report a case of Joubert syndrome with hepatic fibrosis, portal hypertension, and pancytopenia treated by Hassab's operation.

PRESENTATION OF CASE: Our patient was a 27-year-old woman with a history of tachypnea, muscle hypotonia, and psychomotor retardation shortly after birth and a diagnosis of Joubert syndrome at 2 years of age. At 19 years of age, she was diagnosed with progressive pancytopenia. At 27 years of age, she visited her local doctor for sudden-onset hematemesis. Endoscopy revealed esophageal varices exhibiting the red color sign and no evidence of recent bleeding. Splenomegaly and development of portal collateral circulation were observed on computed tomography scans.

The patient was referred to our hospital, where she was diagnosed with Joubert syndrome and hepatic fibrosis, portal hypertension, and hypersplenism. After performing Hassab's operation, the pancytopenia improved, but anticoagulant therapy was required for splenic vein thrombosis. The patient was discharged on postoperative day 25. Two years following surgery, the gastroesophageal varices were controlled, and no progression of the splenic vein thrombosis or hepatic failure was evident.

CONCLUSION: This is the first case report of Hassab's operation for congenital hepatic fibrosis in a patient with Joubert syndrome, a rare congenital condition. We achieved a favorable clinical outcome.

© 2017 The Author(s). Published by Elsevier Ltd on behalf of IJS Publishing Group Ltd. This is an open access article under the CC BY-NC-ND license (<http://creativecommons.org/licenses/by-nc-nd/4.0/>).

1. Introduction

Joubert syndrome is an autosomal recessive disorder that first reported in 1969 [1]. It is characterized by psychomotor developmental delay, hypotonia, oculomotor abnormalities, occasional retinal dystrophy and cystic kidneys, and frequent and often, striking breathing abnormalities, especially in the neonatal period, with panting tachypnea followed by apnea. Joubert syndrome and related disorders (JSRD) are used to describe individuals with Joubert syndrome accompanied by additional findings including retinal dystrophy, renal disease, ocular colobomas, occipital

encephalocele, polydactyly, oral hamartomas, endocrine abnormalities and hepatic fibrosis [2]. We report a case of Joubert syndrome with hepatic fibrosis, portal hypertension (PH), and pancytopenia treated by Hassab's operation. To the best of our knowledge, our patient is the first such case to be reported.

2. Presentation of case

Patient: 27-year-old woman

Family history: Older sister with Dandy–Walker syndrome

History of present illness: On postnatal day 2, the patient was treated by her local doctor for tachypnea. At 1 year of age, she was noted to have muscle hypotonia and psychomotor retardation, and she was diagnosed with Joubert syndrome. At 19 years of age, she suffered from increasingly severe anemia, with pancytopenia progressing despite the prescription of iron formulations. At 25 years of age, a bone marrow biopsy ruled out hematological disease. At 27 years of age, following the sudden onset of hematemesis, an upper gastrointestinal endoscopy revealed esophageal varices that were positive for the red color (RC) sign without any evidence of active

Abbreviations: JSRD, Joubert syndrome and related disorders; PH, portal hypertension; RC sign, red color sign; CT, computed tomography; RV, reference value; CHF, congenital hepatic fibrosis; EVL, endoscopic variceal ligation; EIS, endoscopic injection sclerotherapy; PSE, partial splenic artery embolization; DOAC, Direct oral anticoagulant; VKA, vitamin K antagonist; PSVT, : portal vein or splenic vein thrombosis.

* Corresponding author.

E-mail address: miyazawa-koji@yahoo.co.jp (K. Miyazawa).

<http://dx.doi.org/10.1016/j.ijscr.2017.03.036>

2210-2612/© 2017 The Author(s). Published by Elsevier Ltd on behalf of IJS Publishing Group Ltd. This is an open access article under the CC BY-NC-ND license (<http://creativecommons.org/licenses/by-nc-nd/4.0/>).

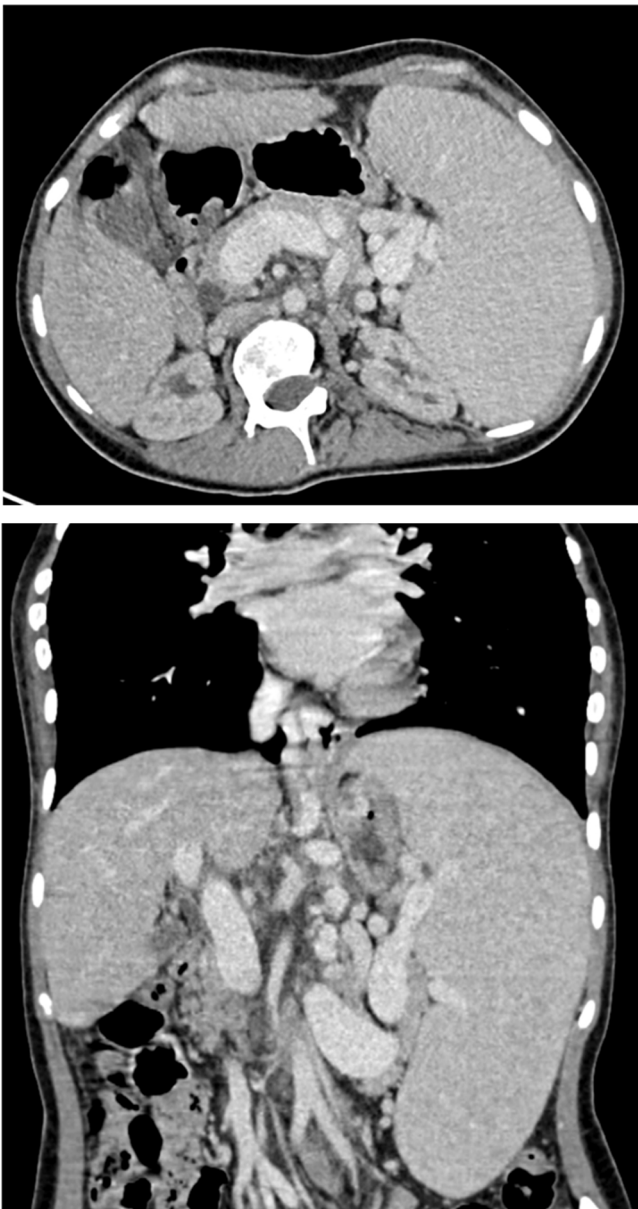


Fig. 1. Contrast-enhanced CT scan before operation. Spleen enlargement was observed, and development of portal collateral circulation and gastroesophageal varices were noted. A small volume of ascites was present, and bilateral renal atrophy was observed.

bleeding. She was kept nil per mouth and started on proton pump inhibitors with no recurrence of hematemesis. Because the computed tomography (CT) scans and abdominal ultrasound revealed splenomegaly, the patient was referred to our department for further treatment of the splenomegaly, pancytopenia, and esophageal varices.

On initial examination, body height was 156.3 cm, body weight was 33.8 kg, body mass index was 13.8 kg/m², body temperature was 37.2 °C, blood pressure was 99/65 mmHg, and pulse was 85 beats/min. An enlarged spleen was palpable as a mass on the left abdominal region. Laboratory findings were a white blood cell count of 1000/ μ l [reference value(RV): 3300–9000/ μ L], her hemoglobin was 9.5 g/dL (RV: 11.5–15 g/dL), and her platelet count was $20 \times 10^3/\text{mm}^3$ (RV: 150–400 $\times 10^3/\text{mm}^3$). She had a Child–Pugh score of A (6 points). The indocyanine green retention rate at 15 min was 13%. The blood urea nitrogen level was

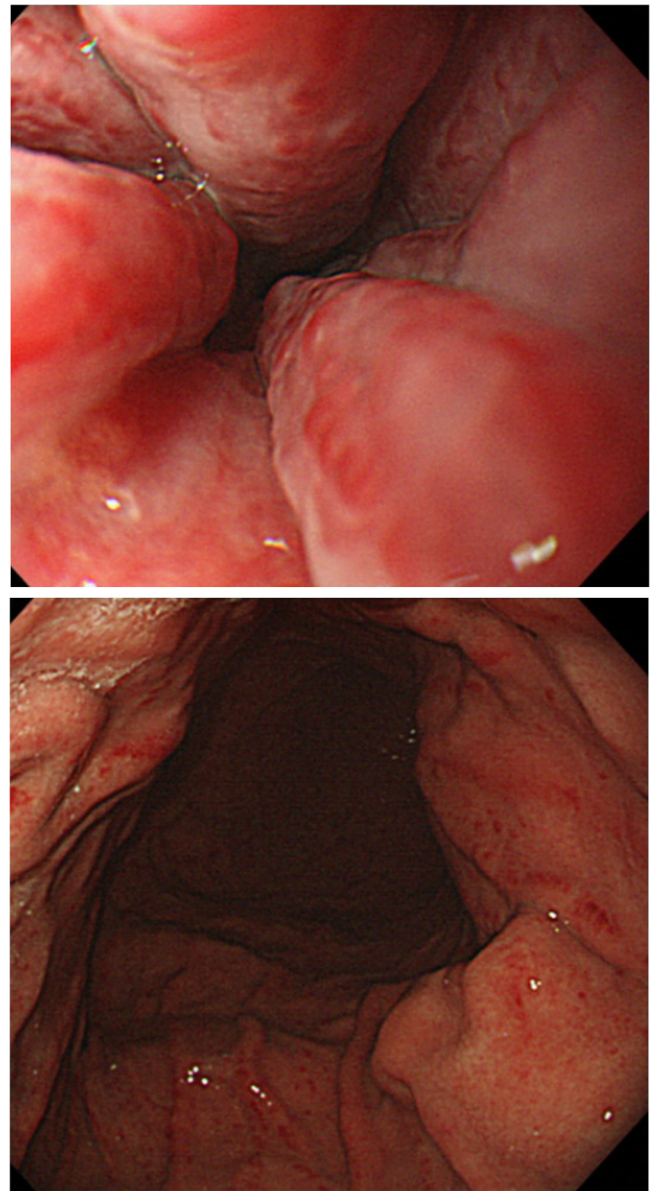


Fig. 2. Upper gastrointestinal endoscopy before operation. Esophageal (in the upper third of the esophagus, F2-3, Cb, and RC2) and gastric (F1, RC0) varices near the cardiac orifice were confirmed.

33 mg/dL (RV: 8–20 mg/dL), serum creatinine level was 2.13 mg/dL (RV: 0.4–0.8 mg/dL).

An abdominal CT scan found that the hepatic margin appeared blunted. Spleen enlargement was observed, and development of portal collateral circulation and gastroesophageal varices were noted. A small volume of ascites was present, and bilateral renal atrophy and renal cysts were observed (Fig. 1). Upper gastrointestinal endoscopy found esophageal (in the upper third of the esophagus, F2-3, Cb, and RC2) and gastric (F1, RC0) varices near the cardiac orifice (Fig. 2). Gastroesophageal varices were classified on the basis of the criteria used to describe endoscopic findings in Japan. In brief, the severity of gastroesophageal varices was classified as follows: F1, straight and small-caliber varices; F2, beady varices; F3, tumor-shaped varices; Cw, white varices; Cb, blue varices; RC0, absence of red color (RC) sign; RC1, a few RC signs; RC2, several RC signs; and RC2, many RC signs. The patient was diagnosed with Joubert syndrome with congenital hepatic fibrosis (CHF), which was deemed to be consistent with the observation of

Download English Version:

<https://daneshyari.com/en/article/5732845>

Download Persian Version:

<https://daneshyari.com/article/5732845>

[Daneshyari.com](https://daneshyari.com)