CARE Checklist – 2016: Information for writing a case report

**Topic Item Checklist item description Line/Page**

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| **Title** | **1** | Treatment of pyogenic liver abscess by open drainage combined with platelet-rich plasma: a case report. | 1 |
| **Key Words** | **2** | Pyogenic liver abscess; open drainage; platelet rich plasma; case report. | 2 |
| **Abstract** | **3a**  **3b**  **3c** | A literature review did not yield any reports on the use of PRP in Pyogenic liver abscess  A 67-year-old man visited the emergency department of our hospital for “repeated fever for more than 10 days”. CT images showed multiple low-attenuation masses with vague boundaries in the right lobe of the liver. A lesion measuring 9cm×8 cm was located in the upper posterior segment of the right lobe. A diagnosis of liver abscess was considered; Treatment of PLA by open drainage combined with PRP;Patient recovered and discharged from hospital.  Treatment of pyogenic liver abscess by open drainage combined with platelet-rich plasma: | 2  3  5 |
| **Introduction** | **4** | the incidence of pyogenic liver abscess (PLA) has increased. Early symptoms of PLA are often atypical. The disease is difficult to diagnose and progresses rapidly, with approximately 15% cases developing into sepsis and even life-threatening infectious shock due to a lack of timely treatment. | 3 |
| **Timeline** | **5** | A patients were Imaging examinations diagnosed as PLA before surgery | 2 |
| **Patient Information** | **6a**  **6b**  **6c** | A 67-year-old man ,CT images showed multiple low-attenuation masses with vague boundaries in the right lobe of the liver, measuring 9cm×8 cm was located in the upper posterior segment of the right lobe.  repeated fever for more than 10 days.  For more than 10 days, the patient had had chills and fever (38.3 ℃) due to a cold. The patient took nonprescription cold and flu medication (he did not specify which medicine), and his symptoms were slightly alleviated. He experienced repeated episodes of chills and fever in the afternoon, with a maximum body temperature of 38.8 ℃, along with occasional nausea and vomiting of gastric contents. After vomiting, his symptoms were not alleviated. After taking oral cold and flu medication, his symptoms did not improve. Therefore, he came to our hospital for further diagnosis and treatment. CT performed at the outpatient clinic showed a liver abscess. Since the onset of the disease, the patient had a poor appetite, his urine output was normal, and he did not lose a significant amount of weight. | 2  3  3 |
| **Physical Exam** | **7** | The patient was conscious with stable vital signs. Body temperature: 36.4 ℃; pulse rate: 83 beats/min; respiratory rate: 20 breaths/min; and blood pressure:130/80 mmHg. His abdomen was soft, with tenderness in the right upper quadrant. No rebound pain was noted, and muscle tone was normal. The liver was not palpable under the costal margin. Percussion pain was induced in the liver region. No edema was noted in both lower limbs. | 3 |
| **Diagnostic** | **8a** | CT images showed multiple low-attenuation masses with vague boundaries in the right lobe of the liver. A lesion measuring 9cm×8 cm was located in the upper posterior segment of the right lobe. A diagnosis of liver abscess was considered. (Figure 1) | 3-4 |
| **Assessment** | **8b**  **8c**  **8d** | Combined with patient symptoms, physical examination, CT（Table 1） and laboratory examination（Figure 1） | 3-7 |
| **Interventions** | **9a**  **9b**  **9c**  **9d** | Treatment of pyogenic liver abscess by open drainage combined with platelet-rich plasma  Ceftazidime (2 g every 12 hours) as anti-infective therapy for 15days  After the procedure, the patient did not have a fever  One abdominal drainage tube was placed in the cavity to drain | 3-7  3-7  3-7  3-7 |
| **Follow-up and** | **10a** | There was no recurrence at follow-up visits 1 month, 3 months, 6 months and 1 year after surgery | 3-7 |
| **Outcomes** | **10b 10c** | Patient recovered and discharged from hospital  Comprehensive assessment of patient clinical symptom relief, and physical examination results. | 3-7  3-7 |
| **Discussion** | **11a 11b 11c 11d** | The clinical treatment of a patients is intact, but the follow-up time is short  Provide a new method for the treatment of pyogenic liver abscess  PRP can loss the healing time of bacterial liver abscess treated by open drainage  PRP contains various growth factors that can promote tissue proliferation and repair | 3-7  3-7  3-7  3-7 |
| **Patient Perspective** | **12** | Seek medical attention as soon as possible if you have symptoms | 4 |
| **Informed Consent** | **13** | The patient consented to the operation and related information for academic exchange | 7 |
| **Additional Information** | **14** | They have no conflict of interest for this manuscript by among authors. | 7 |

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