

POCUS SAVES THE DAY

Cases from the field clearer than the
Mueller Report

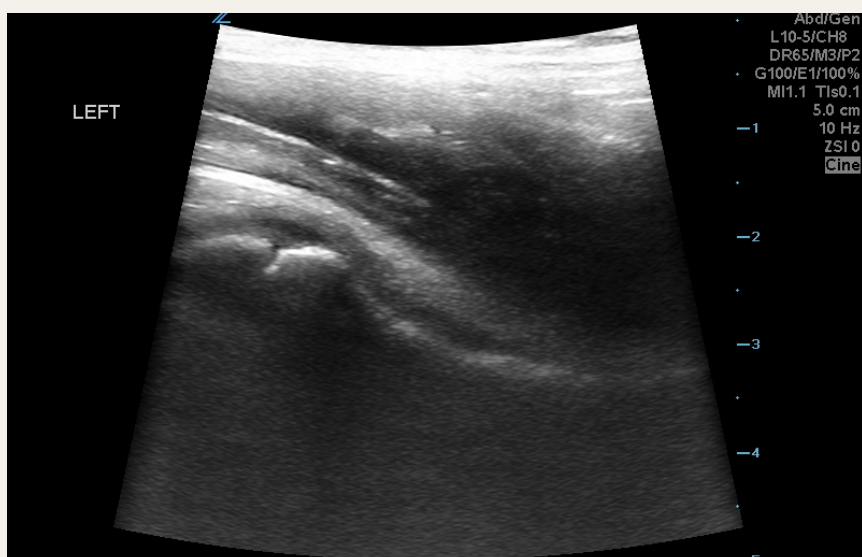
Karine Badra, MD

St. Paul's & Lions Gate Hospitals

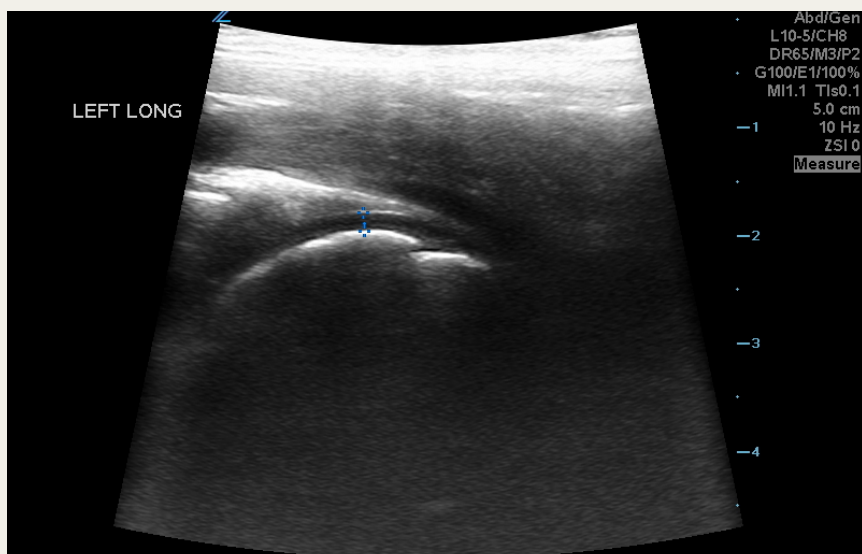
Disclosures

☐ None

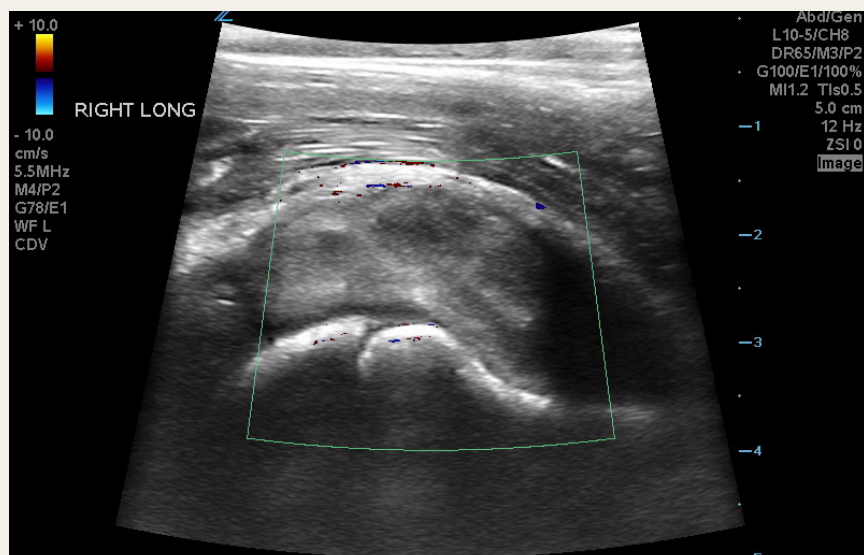
Case 1



Case 1



Case 1



This body part is:

- ☐ A. The olecranon
- ☐ B. The posterior calcaneus
- ☐ C. The femoral head
- ☐ D. None of the above



Signs & Symptoms



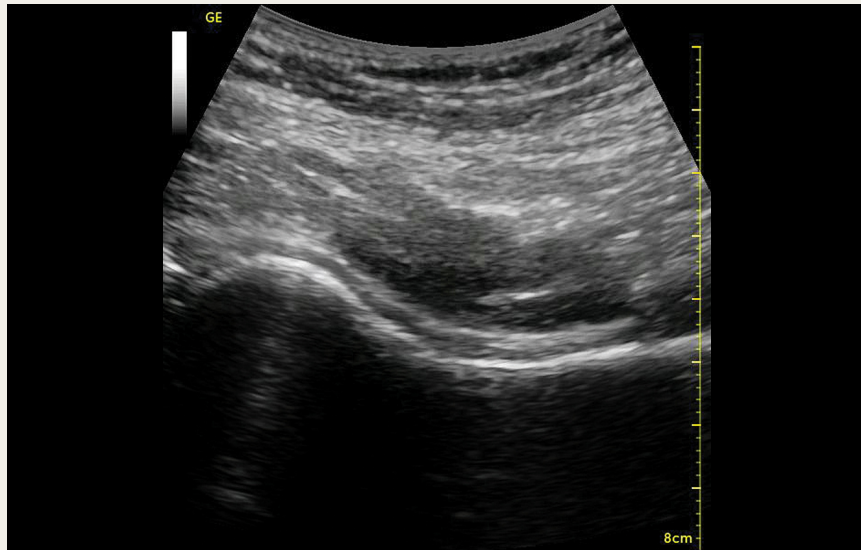
Importance of Recognition

- ☐ Femoral head destruction
- ☐ Hip contracture
- ☐ Gait disturbance
- ☐ Recurrent dislocations

PoCUS Diagnosis



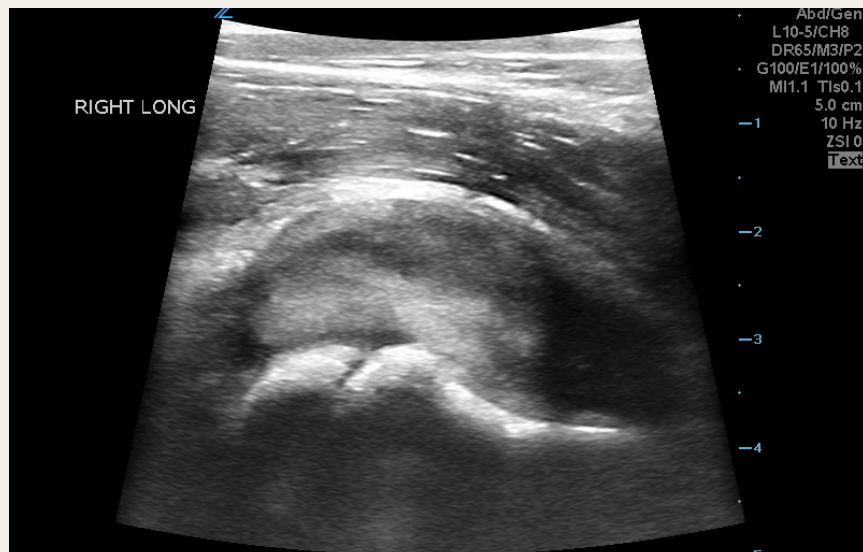
PoCUS Diagnosis



PoCUS Diagnosis



PoCUS Diagnosis



PoCUS 'R' US

Bedside Ultrasonography to Identify Hip Effusions in Pediatric Patients

Rebecca L. Vieira, MD

Jason A. Levy, MD

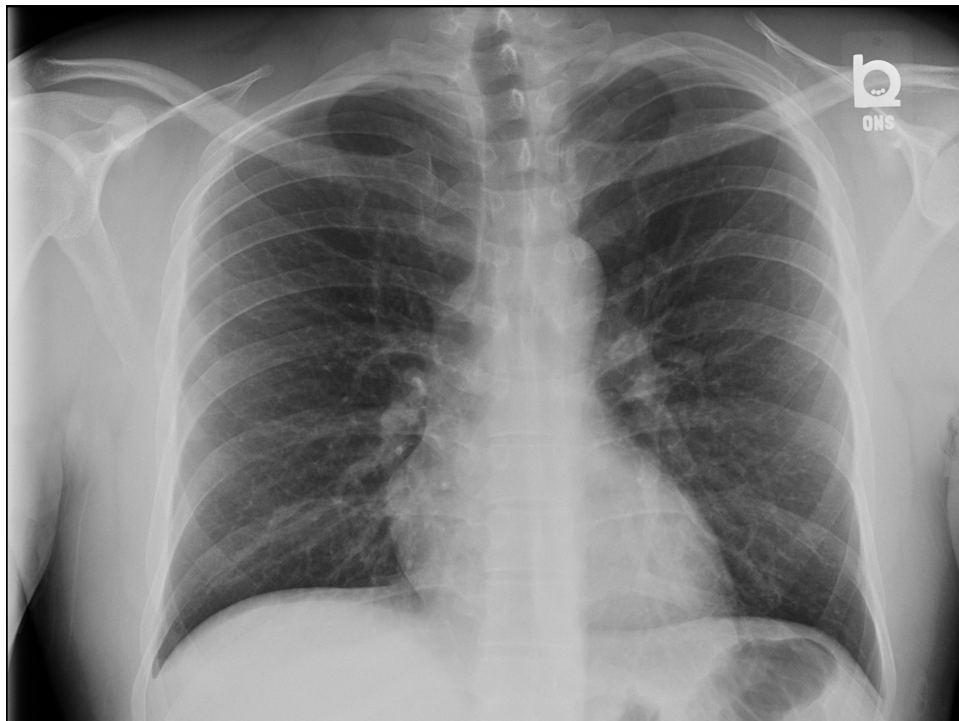
Annals of Emergency Medicine
An International Journal

From the Division of Emergency Medicine, Department of Medicine, Children's Hospital Boston
Harvard Medical School, Boston, MA.

Case 2

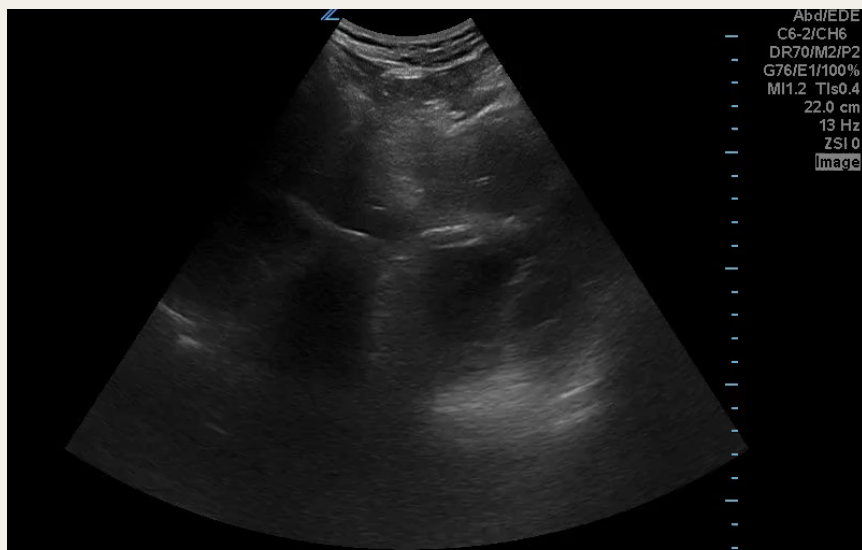
Chest pain: Dying to know...

**What kind of sandwiches
they're serving in the ER
today**





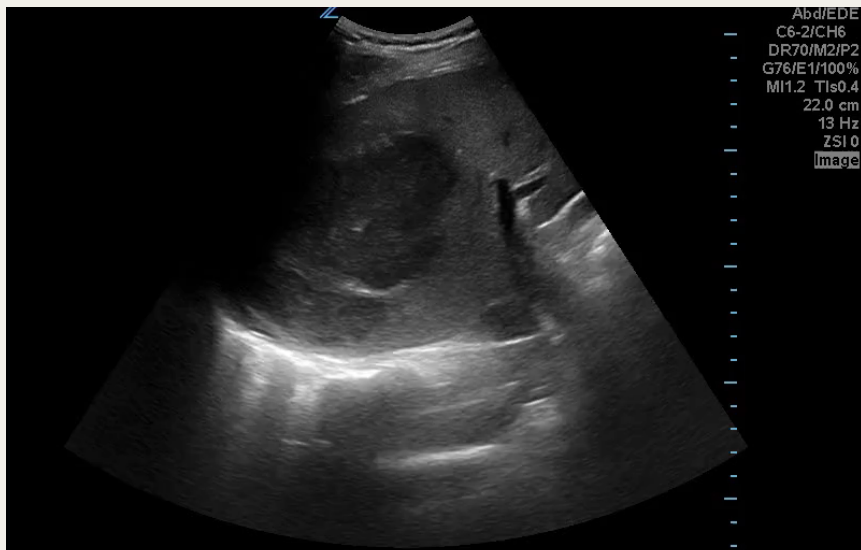
Case 2



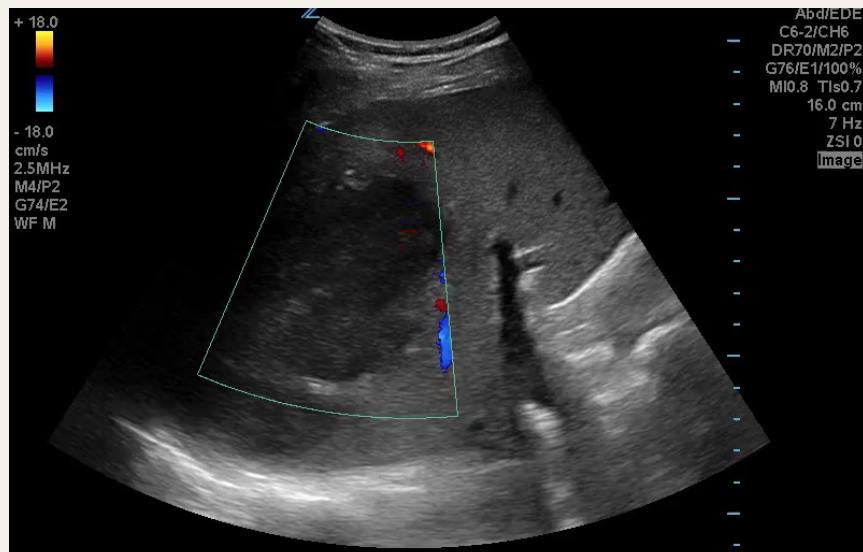
Abd/ED
C6-2/CH6
DR70/M2/P2
G76/E1/100%
MI1.2 TIs0.4
22.0 cm
13 Hz
ZSI 0
Image



Case 2



Case 2



Common Organisms

- ☐ S. Aureus
- ☐ E. Histolytica
- ☐ E. Coli
- ☐ TB
- ☐ Candida species

Risk Factors

- ☐ A. Diabetes Mellitus
- ☐ B. Hepatobiliary disease
- ☐ C. Chronic granulomatous disease
- ☐ D. Liver transplant
- ☐ E. Geographic factors



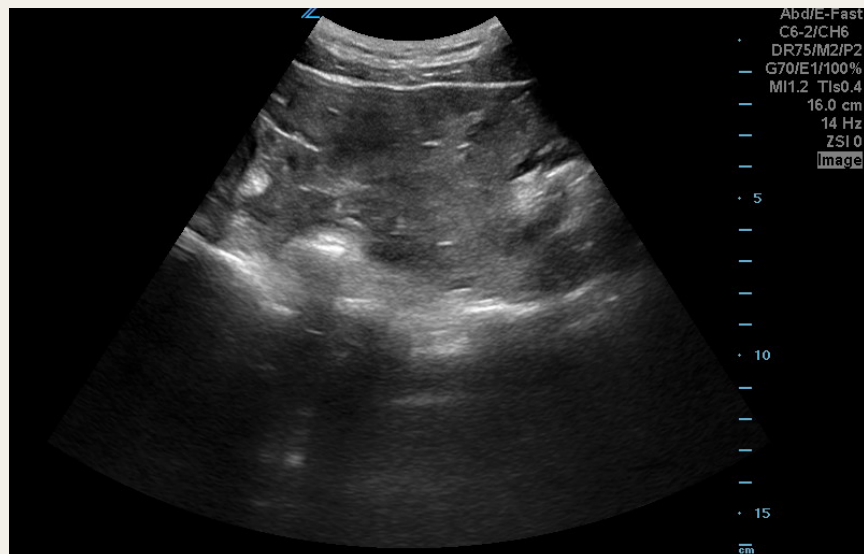
Case 3



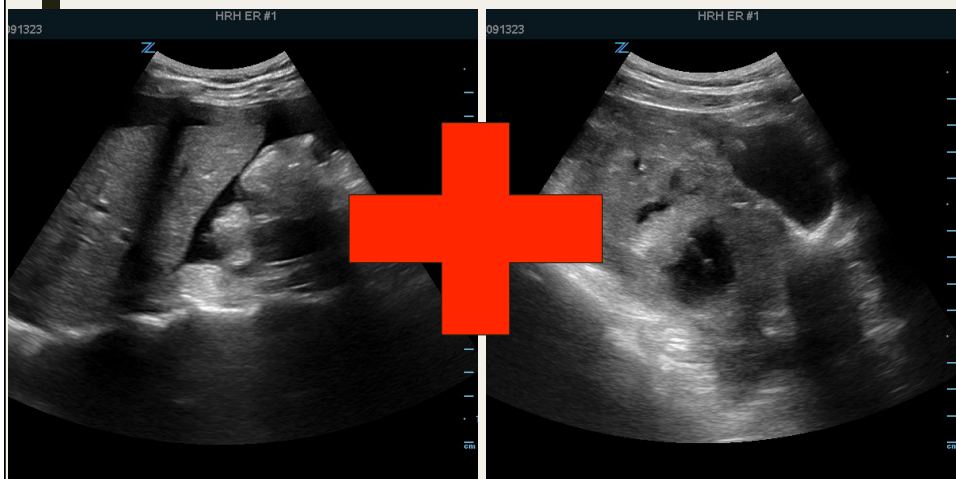
Case 3

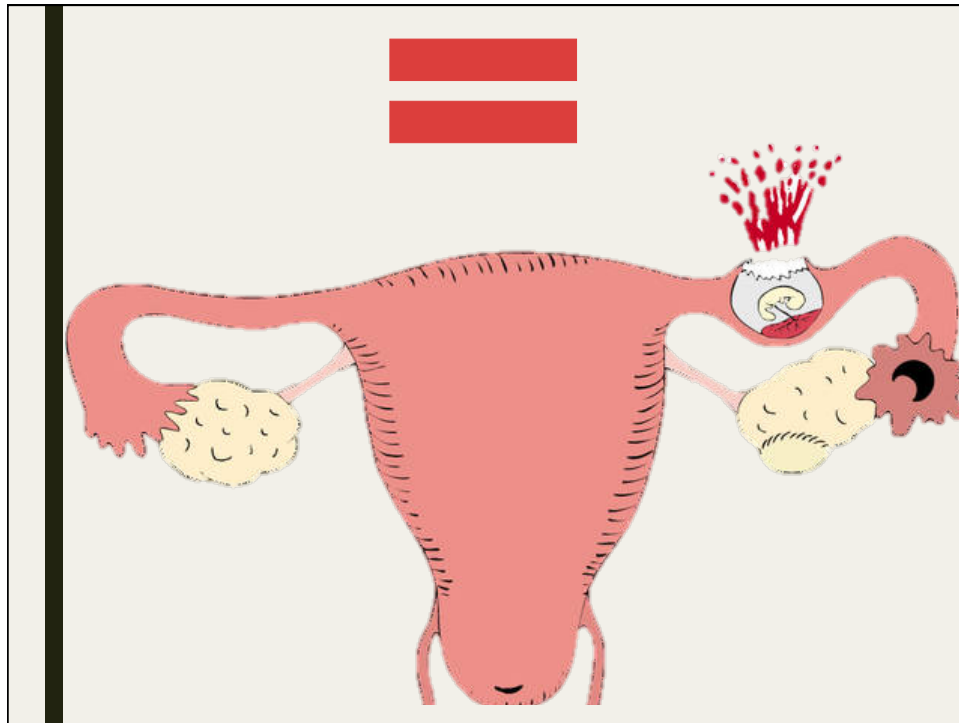


Case 3



Case 3





Case 4: Is there a pulse?



Case 4

On
Warfarin

FALL - BACK PAIN

Around 1755 hrs today, pt was helped ny his wife going to the washroom and fell backwards.

For the past few days, pt been coughing with fever yesterday

Confused

Case 4



Case 4



Case 4

Troponin I

53.30 H*



ELSEVIER

Resuscitation

Available online 20 March 2019

In Press, Accepted Manuscript ?



Clinical paper

The POCUS pulse check: A randomized controlled crossover study comparing pulse detection by palpation versus by point-of-care Ultrasound

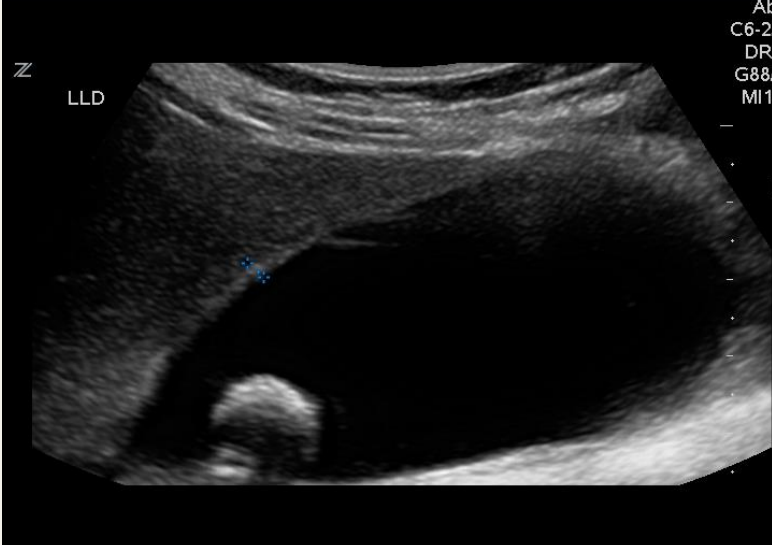
Karine Badra ^{a, *}, Alexandre Coutin ^b, Robert Simard ^c, Ruxandra Pinto ^d, Jacques S. Lee ^c, Jordan Chenkin ^c

PEARLS

Abd/Biliary
C6-2/CH6MHz
DR50/M2/P2
G88/E1/100%
MI1.4 TIs0.4
1.25X
20 Hz
ZSI 0
Measure

Z

LLD



Pearls

- ☐ Compare sides
- ☐ Screen awareness
- ☐ Start with the RUQ
- ☐ Check a pulse

Thanks



References

- ❑ Riise OR, Handeland KS, Cvancarova M, et al. Incidence and characteristics of arthritis in Norwegian children: a population-based study. *Pediatrics*. 2008; 121(2): e299-e306.
- ❑ Yagupsky P, Bar-Ziv Y, Howard CB, Dagan R. Epidemiology, etiology, and clinical features of septic arthritis in children younger than 24 months. *Arch Pediatr Adolesc Med*. 1995; 149(5): 537–540.
- ❑ Barton LL, Dunkle LM, Habib FH. Septic arthritis in childhood. A 13-year review. *Am J Dis Child*. 1987; 141(8): 898-900.
- ❑ Nade S. Septic arthritis. *Best Pract Res Clin Rheumatol*. 2003; 17(2): 183- 200.
- ❑ Wang CL, Wang SM, Yang YJ, et al. Septic arthritis in children: relationship of causative pathogens, complications, and outcome. *J Microbiol Immunol Infect*. 2003; 36: 41-46.
- ❑ Vieira RL, Levy JA. Bedside ultrasonography to identify hip effusions in pediatric patients. *Ann Emerg Med*. 2000; 55(3): 284-289.
- ❑ Siu, L Kristopher, Kuo-Ming Yeh, Jung-Chung Lin, Chang-Phone Fung, and Feng-Yee Chang. "Klebsiella Pneumoniae Liver Abscess: A New Invasive Syndrome." *The Lancet Infectious Diseases* 12, no. 11 (November 2012): 881–87.
[https://doi.org/10.1016/S1473-3099\(12\)70205-0](https://doi.org/10.1016/S1473-3099(12)70205-0).

References

- ❑ Benedetti, Nancy J., Terry S. Desser, and R. Brooke Jeffrey. "Imaging of Hepatic Infections." *Ultrasound Quarterly* 24, no. 4 (December 2008): 267–78.
<https://doi.org/10.1097/RUQ.0b013e31818e5981>.
- ❑ Ishiguchi, Tsuneo, Kazuhiro Shimamoto, Hiroshi Fukatsu, Koji Yamakawa, and Takeo Ishigaki. "Radiologic Diagnosis of Hepatocellular Carcinoma." *Seminars in Surgical Oncology* 12, no. 3 (May 1, 1996): 164–69.
[https://doi.org/10.1002/\(SICI\)1098-2388\(199605/06\)12:3<164::AID-SSU4>3.0.CO;2-5](https://doi.org/10.1002/(SICI)1098-2388(199605/06)12:3<164::AID-SSU4>3.0.CO;2-5).
- ❑ Gaillard, Frank. "Hepatic Hydatid Infection | Radiology Reference Article | Radiopaedia.Org." Radiopaedia. Accessed March 31, 2018.
<https://radiopaedia.org/articles/hepatic-hydatid-infection>.
- ❑ Gaillard, Frank. "Hepatic Abscess | Radiology Reference Article | Radiopaedia.Org." Radiopaedia. Accessed March 31, 2018.
<https://radiopaedia.org/articles/hepatic-abscess-1>.
- ❑ Ignee, A, D Weiper, G Schuessler, G Teuber, D Faust, and C F Dietrich. "Sonographic Characterisation of Hepatocellular Carcinoma at Time of Diagnosis." *Zeitschrift Für Gastroenterologie* 43, no. 3 (March 2005): 289–94.
<https://doi.org/10.1055/s-2004-813815>.
- ❑ McKaigney, Conor. "Hepatic Abscess: Case Report And Review." *Western Journal of Emergency Medicine* 14, no. 2 (March 2013): 154–57.
<https://doi.org/10.5811/westjem.2012.10.13268>.