



*Emergency  
Care Institute*  
NEW SOUTH WALES



**ACI** NSW Agency  
for Clinical  
Innovation

# GUT FEELING

*Learning from our Incidents:*  
**RED FLAGS** in the Emergency Department



---

# The case

*76yo male was brought into a local district hospital ED by ambulance at midnight with abdominal pain.*

*The paramedics report the observations were found to be in normal range except for BP 170/80 and pain score 7/10.*

---

# The case

*He complained of constipation and abdominal pain for 4 days, described as sharp in nature, but had increased significantly overnight prompting his relatives to call an ambulance.*

*He was given morphine for analgesia.*

*Observations were unchanged from time of ambulance assessment.*

---

# What are your differential diagnoses?

---

# The case

*Within 30mins, patient was reviewed by a medical officer and given a provisional diagnosis of constipation.*

*Patient was charted for aperients, analgesia and a fleet enema, which resulted in a small bowel motion.*

*Nil further analgesia was given as ambulance morphine had successfully eased the pain.*

---

# The case

*At 0200, there was discussion between medical staff and the patient and carer regarding patient's disposition. A plan was devised to discharge the patient home and have them return later in the morning for further investigation.*

*At 0230, patient was discharged home into the care of his family.*

---

**What are the key principles that determine readiness for departure from ED? Have they been addressed in this case?**

---

# The case

*Patient returned to attend a CT later in the day.*

*Whilst in the radiology department, patient collapsed at 1130. On arrival of the Rapid Response Team, patient found to have GCS 3.*

*Patient was given fluid bolus with improvement of GCS to 14 by the time the patient was transferred to ED.*



---

# The case

*On examination, patient noted to be pale, cold and clammy with a pulsatile abdominal mass palpable in the patient's epigastric region.*

*Patient received further fluid resuscitation and transfusion of four units of blood.*

*At 1330, patient was transferred to a tertiary facility for consideration of urgent definite management.*

---

# The case

*During transit in the ambulance, patient suffered a cardiorespiratory arrest.*

*With respect to patient and family's previously discussed wishes, CPR was not commenced and patient returned to referring hospital for certification.*

*Cause of death found to be due to: **ruptured AAA.***

---

# What is the lesson here?

**For elderly patients with abdominal pain, it is NOT constipation or gastroenteritis until other serious diagnoses have been actively sought and excluded.**



---

# What's the evidence?

- Abdominal pain is the main presenting problem in 3-13% of ED presentations for elderly patients<sup>1,2</sup>.
- Older patients with abdominal pain have been found to have higher mortality rates: Lewis et al.<sup>3</sup> found 5% of elderly patients presenting to ED with abdominal pain had died within two weeks.

---

# What's the evidence?

- Studies have found greater inaccuracy of diagnoses for elderly patients with abdominal pain when compared to younger patients<sup>3</sup>.
- Multiple factors cause the elderly patient with abdominal pain to pose a significant diagnostic challenge: increased comorbidities, unreliability of physical examination findings, and lack of sensitivity of laboratory testing<sup>4</sup>.
- Clinicians should be mindful that a lack of findings in the history, normal vital signs, and laboratory values that are seemingly normal are common among older adults<sup>4</sup>.

---

# What's the evidence?

- **The elderly are likely to have more subtle presentations of diseases with significant morbidity and mortality**, and clinicians should avoid labelling undifferentiated abdominal pain with a more benign diagnosis, such as constipation or gastroenteritis<sup>4</sup>.
- Emergency clinicians should more readily perform abdominal CT, consult surgical services, and admit older patients for further observation, diagnostic tests, and treatment<sup>5</sup>.
- A systematic approach should be adopted, keeping the differential diagnosis broad and searching for potentially life-threatening aetiologies<sup>4</sup>.

---

# Access the ECI Clinical Tool: AAA

<http://www.ecinsw.com.au/node/433>

---

# References

1. Wofford, J.L., Schwartz, E., Timerding, B.L. *et al.* *Emergency department utilization by the elderly: analysis of the National Hospital Ambulatory Medical Care Survey*. *Academic Emergency Medicine*, 1996. 3: pp. 694-699.
2. Vanpee, D., Swine, C.H., Vandenbossche, P., Gillet, J.B. *Epidemiological profile of geriatric patients admitted to the emergency department of a university hospital localized in a rural area*. *European Journal of Emergency medicine*, 2001. 8: pp. 301-304.
3. Lewis, L.M., Banet, G.A., Blanda, M., Hustey, F.M., Meldon, S.W., Gerson, L.W. *Etiology and clinical course of abdominal pain in senior patients: a prospective, multicentre study*. *Journals of Gerontology Series A-Biological Sciences & Medical Sciences*, 2005. 60 (8): pp. 1071-1076.
4. Tazkarji, M.B., *Abdominal Pain Among Older Adults*. *Geriatrics and Aging*, 2008. 11(7): 410-415.
5. Samaras, N., Chevalley, T., Samaras, D., Gold, G. *Older Patients in the Emergency Department: A Review*. *Annals of Emergency Medicine*, 2010. 56(3): pp. 261-269.



---

# Another case

*72yo male, brought in by ambulance following sudden onset of non-specific generalised abdominal pain and dyspnoea.*

*PMH:*

*AF, ex-smoker, myocardial infarction, CCF, chronic renal failure, diabetes mellitus, hypertension, osteoarthritis, peptic ulcer disease.*

---

# Another case

*At triage, he was noted to have distended and rigid abdomen. Difficult historian secondary to being from non-English-speaking background (NESB).*

*Medical assessment found patient to be hypoxic with SaO<sub>2</sub> 89% on room air. Nasal prong oxygen applied with improvement of SaO<sub>2</sub> to 94%.*

*ECG showed 1<sup>st</sup> degree heart block and slight bradycardia – consistent with patient's previous ECGs.*

---

# Another case

*CXR showed cardiomegaly.*

*AXR showed faecal loading.*

*Diagnosed with constipation, and given laxatives with good effect.*

*Patient remained in ED for 5hrs of observation, after which he was discharged home with a prescription for aperients.*

---

# Another case

*Seven hours later, patient was brought back to hospital by police deceased. A post-mortem was not carried out.*

---

# Access the ECI Clinical Tool: Abdominal Emergencies

<http://www.ecinsw.com.au/node/429>

---

# What is the lesson here?

**Elderly abdominal pain patients are more likely to present with vague and nonspecific symptoms while harbouring serious disease processes.**



---

**For elderly patients with abdominal pain, it is NOT constipation or gastroenteritis until other serious diagnoses have been actively sought and excluded.**