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## Nursing Case Study of Patients with Acute Gastroenteritis and Post-Syncope

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### ABSTRACT

*This case study probes the medical journey of Mrs. H, a 34-year-old female diagnosed with acute gastroenteritis and post-syncope. Her condition, marked by severe vomiting, dehydration, and repeated fainting spells, is thoroughly examined through an in-depth exploration of her presenting symptoms and medical history. This examination presents a comprehensive view of her health, considering potential diagnoses against her symptoms and medical history. Mrs. H's medical history reveals a chronic struggle with Gastroesophageal Reflux Disease (GERD), which necessitated hospitalization on three occasions. The study also addresses nursing interventions implemented during her hospital stay, including hydration, symptom management, and patient education. The role of these interventions in her recovery is highlighted. The study concludes with a discussion on the discharge planning process, which ensures a smooth transition from the hospital to her home. These findings offer valuable insights into the management of acute gastroenteritis and post-syncope, highlighting the importance of comprehensive patient care that addresses both physical symptoms and psychological needs.*

## INTRODUCTION

This case study meticulously examines the case of Mrs. H, a 34-year-old female employed as a private event organizer. On October 10, 2023, she presented herself to the emergency department displaying symptoms indicative of acute gastroenteritis. These symptoms comprised severe vomiting and moderate dehydration, culminating in a state of post-syncope.

In this comprehensive exploration of her case, her medical history is delved into, shedding light on possible past health issues or conditions that may offer insights into her current predicament. Her presenting symptoms are also taken into account, tracing their onset and progression to present a holistic view of her current health.

Potential diagnoses are also considered within this case study. The likelihood of various conditions is weighed against her symptoms and medical history, offering an objective evaluation of all possible diagnoses. The nursing interventions implemented upon her arrival at the emergency department are also detailed, illustrating their effectiveness and their role in her recuperation.

The case study concludes by discussing the discharge planning process for Mrs. H. The steps undertaken to ensure her smooth transition from the hospital to her home are outlined, encompassing necessary follow-up appointments, instructions for medication, and lifestyle modifications. This all-encompassing approach offers a complete understanding of Mrs. H's journey from the onset of her symptoms to her recovery and discharge.

## ASSESSMENT

### PRESENTING SYMPTOMS

In the case profiled, we have a 34-year-old female patient, known as Mrs. H, who presented with an array of distressing symptoms. The most prominent among these was a feeling of dizziness, an affliction that would intermittently assail her. She quantified the severity of this disorienting sensation as a 3 on a scale of 10. The sensation was concentrated primarily at the rear of her cranium, adding to her discomfort.

Accompanying this, Mrs. H was also dealing with intense nausea, which had resulted in vomiting on three separate occasions. This symptom, alongside the dizziness, significantly contributed to her overall malaise. Further compounding her distress, Mrs. H reported suffering from diarrhea, having experienced four episodes. This symptom, in conjunction with the

others, raised concerns about potential dehydration.

An additional and significant symptom reported by Mrs. H was the presence of severe stomach pain. This pain was not localized; rather, it radiated to her back, exacerbating her discomfort. She rated the severity of this pain as a 6 out of 10, underscoring the distress it caused her.

Upon her arrival to the medical facility, Mrs. H experienced a fainting spell, a medical condition known as syncope. This event, combined with her other symptoms, painted a picture of a patient in significant distress, warranting immediate medical intervention and further investigation into the root cause of her symptoms.

Delving into Mrs. H's medical history, it was revealed that she had been grappling with a condition known as gastroesophageal reflux disease, commonly referred to as GERD, for a significant duration. This chronic digestive disorder, characterized by persistent acid reflux, had presented a considerable health challenge for her.

In fact, Mrs. H's struggle with GERD had been so severe that it necessitated her hospitalization on three separate occasions. These instances occurred during her religious pilgrimage to Hajj, indicating that the intense physical exertion associated with this journey might have exacerbated her condition. These episodes of hospitalization underscore the severity of her GERD and suggest that her body was unable to effectively manage the disease during periods of increased stress and physical exertion.

In addition to her ongoing battle with GERD, her present condition led to a series of debilitating symptoms that further deteriorated her quality of life. Among these symptoms were a significant loss of appetite and an overwhelming fear of consuming food. This fear was directly linked to her experiences of intense nausea and repeated episodes of vomiting, which were among the primary indicators of her current health crisis.

Such a fear of eating, while understandable given her circumstances, presented a significant risk to her overall health. Proper nutrition is crucial for the body's healing process, and a fear of consuming food could lead to malnutrition and a host of associated health problems. Therefore, Mrs. H's fear of eating required careful attention and management, to ensure that she was receiving the necessary nutrients for recovery.

Despite the severity of her symptoms and her fear of eating, Mrs. H demonstrated commendable resilience by maintaining a consistent fluid intake. She managed to consume approximately 2000ml of fluid per day, primarily in the form of mineral water. This level of fluid intake is crucial for preventing dehydration, particularly in patients suffering from gastroenteritis, as they are at high risk of dehydration due to frequent vomiting and diarrhea. Therefore, Mrs. H's ability to maintain this level of fluid intake, in spite of her severe symptoms and fear of eating, is noteworthy and played a crucial role in her overall health management.

### PAST MEDICAL HISTORY

Mrs. H, the subject of our case study, has been engaged in a persistent struggle against Gastroesophageal Reflux Disease (GERD) for the past three years. GERD, a chronic condition characterized by the frequent reflux of stomach acid into the esophagus, has been a consistent part of her medical history. It's worth noting that the battle against this illness hasn't been a solitary one for Mrs. H. There were instances when her condition became so severe that she required hospitalization, which signals the intensity of her ordeal.

These instances of hospitalization weren't random, but occurred during a significant event in Mrs. H's life. As a religious woman, she undertook the Hajj pilgrimage, a journey that carries deep spiritual significance. However, this pilgrimage also demanded physical exertion and endurance. It was during this spiritually fulfilling but physically challenging journey that Mrs. H's GERD took a turn for the worse, necessitating her hospitalization on three separate occasions.

While the specifics of these incidents are still somewhat nebulous and require further investigation, these episodes during her pilgrimage indicate a possible correlation between intense physical exertion and the exacerbation of her GERD symptoms (Famarzi, Mahdavi, Mohammad-Zadeh, Nasirimotlagh, & Sanaie, 2017). This could be an important factor in understanding the triggers and managing the future course of her condition. Furthermore, it emphasizes the severity of her GERD and the challenges that she has had to confront in her struggle with it (Buss, Genton, & D'Acremont, 2020).

### FAMILY HISTORY AND SOCIAL HISTORY

In the course of gathering details about Mrs. H's medical background, it emerged that there were no genetic illnesses that ran in her family. This fact was

established from statements made by Mrs. H herself, who affirmed that she was not aware of any hereditary diseases in her lineage. This information is crucial as it eliminates the potential influence of genetic factors in the manifestation of her current ailments.

Interestingly, while her family has seemingly been spared the affliction of hereditary diseases, Mrs. H finds herself in a unique situation within her family. She is the sole member of her family who is grappling with a disease of the gastric acid, an ailment that has significantly impacted her life (Fan, 2022). This disease, known as gastroesophageal reflux disease (GERD), has been a constant presence in her life, necessitating frequent hospitalizations and significantly impairing her quality of life (Stuempfig, Seroy, & Labat-Butler, 2024).

This revelation reinforces the singularity of Mrs. H's case within her family and underscores the need for a personalized approach to her treatment, given that her condition does not appear to follow a familial pattern (Mulya, Adiwena, Ratnasari, & Juffrie, 2023). Further research and investigation may be warranted to understand why Mrs. H is the only one in her family to suffer from this gastric disease, as such insights could potentially inform her ongoing medical management and contribute to the broader understanding of such diseases (Al-Nattah et al., 2023).

### PHYSICAL EXAMINATION

Upon her arrival and during the initial physical examination, Mrs. H presented a clear picture of a patient experiencing some degree of dehydration. Her overall appearance suggested signs of fatigue, which could likely be attributed to the distress caused by her symptoms and the overall impact of her illness on her body.

When her abdomen was examined through palpation, she exhibited clear signs of discomfort and pain. This observation, in conjunction with her reported symptoms of severe stomach pain, served to underscore the severity of her distress. However, it was also noted that bowel sounds were present during the examination, indicating that there was some level of gastrointestinal activity, despite her troubling symptoms.

In terms of her neurological status, Mrs. H was found to be alert and oriented during the examination. This is a crucial observation as it suggests that her neurological functions were largely intact despite her episode of syncope and her reported feeling of dizziness.

Moving on to her vital signs, these were recorded meticulously to provide an objective measure of her physiological status. Mrs. H's respiratory rate was found to be 20 breaths per minute, falling within the normal range for an adult and suggesting that she was not currently experiencing any significant respiratory distress.

Her blood pressure was recorded at 139/90, which is slightly elevated, suggesting that she may be experiencing some degree of hypertension. This could be a physiological response to her illness or could be indicative of an underlying chronic condition that may require further investigation.

Her pulse rate was found to be slightly elevated at 107 beats per minute. This tachycardia could be a response to her body's increased metabolic demands due to her illness, or it could be a sign of dehydration, which is consistent with her symptoms of vomiting and diarrhea.

Finally, her temperature was recorded at 36.5 degrees Celsius. This falls within the normal range, suggesting that she was not currently experiencing a fever. This could be indicative that her acute gastroenteritis is not accompanied by an infection, or it could simply mean that her body has not yet responded with a febrile reaction at this stage of her illness.

The physical examination of Mrs. H revealed a patient who was in some degree of distress, with apparent dehydration, abdominal pain, and possible fatigue. Her vital signs, while largely within normal ranges, showed slight elevations in blood pressure and pulse rate, which will require monitoring and potentially further investigation. These findings highlight the need for prompt and appropriate medical interventions to address her symptoms and provide her with relief.

## LABORATORY AND DIAGNOSTIC TESTS

Upon evaluation of Mrs. H's condition, a series of laboratory tests were conducted to gain a comprehensive view of her physiological status. These tests included a complete blood count, clinical chemistry tests, and an electrolyte panel.

The complete blood count, a critical tool in diagnostic procedures, yielded noteworthy results. The test revealed that Mrs. H's hemoglobin level was at 13.8 g/dl, which falls within the standard range, indicating that she has an adequate number of red blood cells carrying oxygen throughout her body. In addition, her white blood cell count was reported to be 9090 per cubic millimeter, which is slightly elevated and could

indicate an immune response to an infection or other medical condition. Furthermore, her hematocrit, which measures the proportion of red blood cells in the blood, was recorded at 42.8%, indicating a normal volume of red blood cells. Additionally, her platelet count was noted to be 4220000 per cubic millimeter, which is within the normal range and suggests proper clotting ability.

Accompanying the complete blood count, a set of clinical chemistry tests were also performed. These tests aimed to evaluate the functionality of various organs and detect potential imbalances in the body. Mrs. H's blood glucose level was recorded at 97 mg/dL, indicating that her blood sugar levels are within the normal range and suggesting that her body is metabolizing glucose effectively. The tests also included measurements of her SGOT and SGPT levels, enzymes typically found in the liver, with results of 19 U/L and 18 U/L respectively, indicating normal liver function.

Lastly, an electrolyte panel was conducted to assess Mrs. H's electrolyte and acid-base balance, which is essential for maintaining homeostasis in the body. The results showed a potassium level of 3.7 mmol/L, sodium at 140 mmol/L, and chloride at 102 mmol/L, all of which fall within the normal range, indicating that her body is maintaining a proper fluid balance and that her kidneys are functioning correctly.

These laboratory test results offer a holistic view of Mrs. H's physiological status, providing valuable insights into her overall health and informing further diagnostic procedures and treatment plans (Zia et al., 2022). The results indicate that, despite her symptoms and the severity of her condition, her body is still maintaining vital functions effectively. However, her slightly elevated white blood cell count suggests an ongoing immune response that warrants further investigation (Chan et al., 2014).

## NURSING INTERVENTIONS

The comprehensive management plan for Mrs. H comprises several crucial steps designed to address her physical symptoms, psychological wellbeing and her knowledge and understanding of her condition.

The initial stage of the management plan is geared towards addressing Mrs. H's immediate physiological needs, specifically her dehydration and electrolyte imbalance. She will be administered intravenous fluids, a swift and effective method of rehydrating the body and restoring electrolyte balance. This intervention is essential in light of her symptoms of

vomiting and diarrhea, which can rapidly lead to severe dehydration (Robson, Bouchouca, & Considine, 2023).

1 To ensure the effectiveness of this intervention and to monitor her general physiological status, Mrs. H's vital signs will be regularly checked. This vigilance will facilitate the early detection of any potential complications or deteriorations in her condition. Alongside this, her fluid intake and output will be closely observed. This is fundamental in assessing the severity of her dehydration and the success of the rehydration efforts (Tang, Xie, & Li, 2023).

Given her symptoms of nausea and vomiting, a key focus of the management plan is on gastrointestinal management. The medical team will closely monitor Mrs. H's nausea and vomiting, with antiemetics being administered as required to alleviate these distressing symptoms (Lloyd-Martin, 2021).

Nutritional support is another cornerstone of the management plan. Recognizing the significance of nutrition in recovery, the team will offer Mrs. H small, frequent meals and allow her to consume clear liquids as her condition permits. These measures will help maintain her nutritional status, while minimizing the likelihood of exacerbating her nausea and vomiting. Additionally, Mrs. H will be assessed for any nutritional deficiencies, and provided with dietary counseling to guide her food choices and ensure she is meeting her nutritional needs (Thomas, Thomas, & Butler-Sanchez, 2022).

The management plan also comprises a robust strategy for psychological and educational support. Recognizing the psychological impact of her condition, the team will address Mrs. H's anxiety and concerns about her illness, providing reassurance and support.

Equally important is the provision of education on managing her gastroesophageal reflux disease (GERD) and acute gastroenteritis. This will empower Mrs. H, enabling her to manage her condition effectively and make informed decisions about her health. To further support her psychological wellbeing, she will be encouraged to use relaxation techniques and stress management strategies. These interventions can promote relaxation, reduce anxiety and enhance her overall wellbeing (Amadori et al., 2021).

In preparation for Mrs. H's discharge, a detailed discharge plan will be developed. This will include arrangements for follow-up appointments with her primary care physician to ensure continuity of care.

She will be provided with written instructions on her medication regimens, dietary recommendations, and symptom management, offering a valuable reference point post-discharge (Ali et al., 2021).

She will be strongly encouraged to maintain an adequate fluid intake and a balanced diet once she is home, critical elements in her recovery and ongoing health. Additionally, contact information will be provided to Mrs. H to ensure she can easily reach the relevant healthcare professionals should she have any further questions or concerns post-discharge (Posovszky et al., 2020).

## CRITICAL THINKING AND RESEARCH

Further examination is needed to determine the exact cause of Mrs. H's gastroenteritis. This will involve conducting more detailed laboratory tests. A deeper exploration of her past medical history could also be beneficial (Mulya et al., 2023). Understanding the circumstances of her previous hospital visits during the Hajj pilgrimage may provide insights into the severity and triggers of her GERD. Additionally, involving a gastroenterologist in her case might be wise. Their expertise could be crucial for a comprehensive management plan for her chronic GERD condition (Naito, Nakamura, Suzuki, & Ojima, 2023).

## CONCLUSION

This case study highlights the importance of thorough assessment, prompt intervention, and patient education in managing acute gastroenteritis and dehydration, particularly in patients with underlying chronic conditions like GERD. Addressing Mrs. H's psychological and educational needs alongside medical care is crucial for her holistic recovery and well-being.

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