CASE REPORT

Case Report: Don't chew the fufu: a case report of suspected drug bodystuffing [version 1; peer review: 1 approved, 1 approved with reservations]

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Abstract

Background: Intrabody concealment of illicit substances is a common practice in the trafficking chain. Bodystuffing, which consists of precipitously swallowing packets of substances for concealment from law-enforcement officers in anticipation of impending search or arrest, is particularly dangerous. There is a risk of rupture of the loosely wrapped drug packets, which could lead to substance intoxication or even death.

Case presentation: This article reports the case of a young man who was taken by law enforcement authorities to our Emergency Department for investigation of bodystuffing. Although the patient denied the facts, the initial reading of the computed tomography (CT) scan confirmed the presence of multiple images compatible with drug packets, which were mostly in the stomach. Upon admission to our secured inpatient ward for clinical surveillance of packet evacuation, the patient denied again having ingested such packets, and declared that he only ate 'fufu'. Fufu is a traditional food of central and western Africa consisting of a starchy preparation compacted by hand into small balls. Fufu balls are usually swallowed without chewing to allow a sensation of stomach fullness throughout the day. Considering the fufu intake history, a careful reassessment of the imaging confirmed the presence of food content.

Conclusions: This case study offers an example of bodystuffing false positive due to fufu. It illustrates the importance of a history of food

Open Peer Review

Approval Status

	1	2
version 2 (revision) 29 Jan 2021		 view
version 1 22 Jul 2019	 view	 view

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Any reports and responses or comments on the article can be found at the end of the article.

intake that could bias the interpretation of CT scan images.

Keywords

Bodystuffing, bodypacking, prison, fufu/foofoo/foufou, radiology pitfalls

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Background

Bodypacking is a technique used in drug trafficking that consists of deliberately ingesting many drug pellets. Bodypushing refers to the intrarectal or intravaginal insertion of pellets. These are in most cases mechanically manufactured and enclosed in multiple layers of wrapping to withstand breakage during long-distance drug smuggling routes (see [Figure 1](#))^{1,2}. At the end of the drug trafficking chain, street dealers or consumers who carry packets of illicit substances can resort to bodystuffing, which consists of hastily swallowing them for concealment from law-enforcement officers in anticipation of impending search or arrest^{2,3}. Contrasting with the robustness of bodypacking pellets, bodystuffing packets are loosely wrapped in cellophane or condoms⁴.

Although individuals who resort to bodypacking or bodystuffing are often conveniently identified as ‘bodypackers’ or ‘body-stuffers’ by law-enforcement, criminal justice, and health professionals, these shortcuts in terminology should be avoided as they carry the potential of dehumanizing individuals with suspected or confirmed bodypacking or bodystuffing. Instead, the use of person-centered language should be favored⁵.

People using bodypacking can swallow up to 1 kilogram of illicit substances divided into 50 to 100 pellets, each containing 10 to 20 grams of drugs (mostly cocaine or heroin)^{2,3,6}. They generally consume constipating substances or spasmolytic medicine to reduce peristalsis and the risk of pellet evacuation during long travel journeys. Upon arrival, laxatives or prokinetics can be administered to accelerate the drug recovery process^{7,8}. In Switzerland, a person arrested by law-enforcement authorities for suspected bodypacking or bodystuffing is brought to a medical facility, where an unenhanced low-dose abdominal computed tomography (CT) scan is performed to ascertain the presence of pellets^{3,9,10}. The person has the right to refuse to undergo a CT scan and cannot be constrained to it, in which case the surveillance of pellet evacuation in a medical facility offers an alternative option¹¹.

The rupture of drug pellets is associated with high mortality risks¹². For this reason, if CT scan findings are positive, the person is transferred for medical observation to a hospital unit with ad-hoc security surveillance or, where available, to a secured hospital inpatient ward specifically dedicated to the care of people who are incarcerated. Clinical observation is ensured around the clock with vital signs and neurologic surveillance performed every 2 to 4 h (Glasgow Coma Scale and pupil reflexes). The content of the first expelled pellet is analyzed, and the nature of its substance communicated to the medical team, so that they can prepare for an adequate response in case of complications. After three bowel movements without pellets or after the evacuation of the reported number of pellets, another CT scan is performed to check for complete clearance.

In addition to the loose wrapping of the packets and the reasons for swallowing them, bodystuffing has a few other

Figure 1. Sample of mechanically prepared pellets (length of 4–5 cm, diameter of 1.5–2 cm) (Courtesy: NT Tran).

differences when compared to bodypacking. Individuals who resort to bodystuffing usually swallow a smaller number of packets, and their clinical management has been a matter of debate. Some recommend discharge after 6 h of unremarkable monitoring, while others propose a health facility-based surveillance until all packets are cleared by unaided bowel movements (no medication, such as prokinetics or laxatives)^{13–15}. The use of mineral oil laxatives is strongly discouraged because it dissolves latex and can cause packet rupture with potentially dangerous and sometimes fatal outcomes^{12,15}.

Case presentation

This case involved a young and healthy man from western Africa whom the police arrested for possession of cocaine in the street of Geneva, Switzerland. Police officers also suspected him of having swallowed cocaine pellets and brought him in November 2018 to our Emergency Department (ED) for investigation of bodystuffing. A low-dose abdominal CT scan was done, showing multiple foreign bodies of similar appearance in the stomach, which the on-call radiologist reported to be compatible with ingested drug packets ([Figure 2a and 2b](#)).

In the ED, relevant history included the fact that he was single and homeless, had no physical or mental health conditions, and was not on any medication. Past substance use history included tobacco and cannabis smoking, cocaine, and alcohol at the rate of 1 liter of whisky per day. Vital signs were normal, and the physical exam revealed no epigastric tenderness, no abdominal rigidity, guarding, rebound tenderness, nor evidence of a palpable mass. The remaining physical examination was unremarkable, showing a patient who was alert, oriented, calm, without any intention of self-harm, but uncooperative. The patient denied having resorted to bodystuffing, even after he was informed about the positive radiological findings in his stomach.

In accordance with our guidance on the clinical management of bodystuffing, the patient was subsequently admitted to our secured hospital inpatient ward for observation. Upon his admission to the ward, he continued to deny the ingestion of drug packets and revealed that he had consumed 'fufu' the previous evening. Indeed, his eating habits included only one meal a day, and this was usually a heavy starchy dish from western and central Africa called 'fufu'. Eating fufu left him feeling full for a whole day without the need of eating again. This critical information was passed onto the radiologist who carefully reviewed the images with the attending supervisor: the foreign bodies, which were previously read as compatible with images

of drug pellets, were in the process of being digested! In fact, the CT scan showed images of foreign bodies with irregular borders and of different sizes (Figure 3a and 3b). Drug pellets have clearly defined and regular edges, and, if mechanically manufactured, they would have been of the same size and shape. The continuous denial of bodystuffing by the patient, his mention of fufu, the revised radiological reading, combined with the absence of acute signs of cocaine or heroin being released from dissolving bodystuffed packets were compatible with the patient's history of fufu intake. We immediately informed the criminal justice authorities and the patient was rapidly discharged from our secured hospital inpatient ward.

Figure 2. (a) Multiple intra-digestive foreign bodies (arrows) located in the stomach and the first part of the duodenum (oblique coronal view). (b) Multiple intra-digestive foreign bodies (arrows) in the stomach (axial view).

Figure 3. (a) Heterogeneous intra-digestive foreign bodies (arrows), especially in the first part of the duodenum, signifying content dissolution by digestion (axial view). (b) Dissolved gastric foreign bodies (arrow) (axial view).

Discussion

This case study offered an example of a false positive CT scan reading of internally concealed illicit substances, which, to our knowledge, is the first report in the peer-reviewed literature. From this case, several points are useful to consider for the management of individuals investigated for bodystuffing.

First, the importance of a detailed patient history upon admission to the ED cannot be overstated, in particular with regard to different food types that were ingested in the past 24 h and that could influence radiological reading. A quick 24 h food intake history would have allowed our radiologist to analyze the images with relevant information that could bias the interpretation of results.

Second, foreign bodies of similar density, such as shaped food, especially if located in the stomach, can mimic images of drug pellets. The literature reported other swallowed foreign bodies that could be misread as drug pellets, including scybala (hardened masses of feces), grains, stones, apples, or other fruits^{4,16}. In our case, it was fufu, which is also spelled 'foofoo' or 'foufou'. It is a popular dish in western and central African countries, which consists of starch (e.g., from cassava, yam, or plantain) that is boiled, pounded, and rounded into balls. Fufu balls are then dipped into sauces or eaten with stews of meat, fish, or vegetable^{17,18}. It is a common tradition to shape fufu balls with the right hand and, with the lubricating aid of diverse sauces, to swallow them without chewing to decrease the chance of feeling hungry over a whole day^{18,19}. The CT scan measurement of Hounsfield Units, which reflect density, could help differentiate the nature of diverse ingesta. However, measuring density is not fully reliable as the nature of the substance, its purity, admixture, and compression all play a role in imaging results²⁰.

Third, false-positive interpretation of internal concealment of illicit substances should be avoided at all costs, as it poses significant clinical and ethical issues due to an individual's deprivation of freedom and hospitalization into a law-enforced inpatient unit. In addition, unnecessary detention results in direct and indirect costs to the health system, the criminal justice authorities, and most importantly to the person under investigation, who could be psychologically and physically impacted by the incarceration.

Conclusion

This case report showed that a careful history of food intake and sharing with the radiologist relevant information that could bias the interpretation of CT scan images are essential for the management of patients presenting with bodystuffing. If there are discrepancies between the CT scan results and the patient's history, including the swallowing of unchewed fufu or other pellet mimicking ingesta, it is recommended that the initial image interpretation be reviewed. If needed, this could be done with the expertise of professionals who are used to read images of illicit substances that are internally concealed.

Consent

Informed written consent was obtained from the patient for publication of this case report and all accompanying images.

Data availability

All data underlying the results are available as part of the article and no additional source data are required.

Grant information

The author(s) declared that no grants were involved in supporting this work.

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Nicholas J Connors

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Overall this is a very interesting case report of a fufu ingestion that looked like professionally manufactured drug pellets on CT. It brings up some important humanistic issues including terminology for patients and the most appropriate treatment of people in custody of law enforcement. I would recommend the authors clarify the difference between body packing and body stuffing, and what the medical and law enforcement team was most concerning with in this patient.

Abstract:

Commonly, both terms are written as two words, body packing and body stuffing rather than bodypacking.

There seems to be some confusion regarding body stuffing and body packing. The authors identify them correctly: packing refers to ingestion of large quantities of drug in packets for crossing borders and are ingested with the intention that the drug will transit the GI system; body stuffers ingest drug as a means of disposal to avoid immediate detection from law enforcement with poorly packaged drug. Body stuffers are most at risk for packet rupture and drug exposure, but should a packet rupture in a body packer, there is high risk for severe sequelae due to the sheer amount of drug. In the background, this distinction seems clear, but in the case presentation, it seems there was concern by law enforcement and radiology for multiple drug containing packets, which would be most consistent with body packing.

Background

Should be "body pushing".

"Although individuals who resort to bodypacking or bodystuffing are often conveniently identified as 'bodypackers'"

Remove "conveniently"

"The person has the right to refuse to undergo a CT scan and cannot be constrained to it, in which case the surveillance of pellet evacuation in a medical facility offers an alternative option"

Remove "option"

Case Presentation

"Police officers also suspected him of having swallowed cocaine pellets and brought him in November 2018 to our Emergency Department (ED) for investigation of bodystuffing."

This sentence seems to suggest they were more concerned about body packing. If law enforcement was really concerned about stuffing, for consistency, use "packets" as "pellets" was used in the description of body packing.

"the foreign bodies, which were previously read as compatible with images of drug pellets, were in the process of being digested!"

Remove the exclamation point.

"Drug pellets have clearly defined and regular edges, and, if mechanically manufactured, they would have been of the same size and shape."

Again, it seems that the concern was for body packing, not stuffing.

"In the ED, relevant history included the fact that he was single and homeless, had no physical or mental health conditions, and was not on any medication. Past substance use history included tobacco and cannabis smoking, cocaine, and alcohol at the rate of 1 liter of whisky per day. Vital signs were normal, and the physical exam revealed no epigastric tenderness, no abdominal rigidity, guarding, rebound tenderness, nor evidence of a palpable mass. The remaining physical examination was unremarkable, showing a patient who was alert, oriented, calm, without any intention of self-harm, but uncooperative."

It seems this history and physical examination was probably performed before imaging. If so please reorder and state the radiological findings after this description.

Discussion

"First, the importance of a detailed patient history upon admission to the ED cannot be overstated, in particular with regard to different food types that were ingested in the past 24 h and that could influence radiological reading. A quick 24 h food intake history would have allowed our radiologist to analyze the images with relevant information that could bias the interpretation of results."

Yes, though if law enforcement truly suspected body packing the history would not necessarily dissuade them for the initial CT. Was the radiologist aware of the fufu ingestion prior to the second CT and could that information have been discussed with radiology prior to the exposure of a second CT?

"professionals who are used to read images of illicit substances that are internally concealed."

Reword to "...who are experienced reading images of illicit substances..."

Is the background of the case's history and progression described in sufficient detail?

Yes

Are enough details provided of any physical examination and diagnostic tests, treatment given and outcomes?

Yes

Is sufficient discussion included of the importance of the findings and their relevance to future understanding of disease processes, diagnosis or treatment?

Yes

Is the case presented with sufficient detail to be useful for other practitioners?

Partly

Competing Interests: No competing interests were disclosed.

Reviewer Expertise: Medical Toxicology, Emergency Medicine.

I confirm that I have read this submission and believe that I have an appropriate level of expertise to confirm that it is of an acceptable scientific standard, however I have significant reservations, as outlined above.

Author Response 24 Jan 2021

Nguyen Toan Tran, University Hospitals of Geneva, Geneva, Switzerland

Authors reply: We thank you for your thorough review, which has greatly help clarify the manuscript. We have now addressed your comments point by point.

Overall this is a very interesting case report of a fufu ingestion that looked like professionally manufactured drug pellets on CT. It brings up some important humanistic issues including terminology for patients and the most appropriate treatment of people in custody of law enforcement. I would recommend the authors clarify the difference between body packing and body stuffing, and what the medical and law enforcement team was most concerning with in this patient.

- Authors reply: we have clarified the text in the abstract and the main body. In short, this was a case of suspected body stuffing by the police. The CT scan revealed images compatible with drug pellets, which were more consistent with body packing than body stuffing as initially suspected. In any case, the management consisting of surveillance until the substances are expelled remained the same. However, careful review of the patient's history, including previous food intake, and a second CT scan ruled out concealment of illicit substances

Abstract:

Commonly, both terms are written as two words, body packing and body stuffing rather than bodypacking.

- Authors reply: we have made recommended changes throughout the manuscript.

There seems to be some confusion regarding body stuffing and body packing. The authors

identify them correctly: packing refers to ingestion of large quantities of drug in packets for crossing borders and are ingested with the intention that the drug will transit the GI system; body stuffers ingest drug as a means of disposal to avoid immediate detection from law enforcement with poorly packaged drug. Body stuffers are most at risk for packet rupture and drug exposure, but should a packet rupture in a body packer, there is high risk for severe sequelae due to the sheer amount of drug. In the background, this distinction seems clear, but in the case presentation, it seems there was concern by law enforcement and radiology for multiple drug containing packets, which would be most consistent with body packing.

- Authors reply: we clarified the text to explain the difference between body-stuffing packets and the larger and more robust body-packing pellets. We also underscored the reason for admission, which was suspicion of body stuffing. The text now reads as follows:

"Intrabody concealment of illicit substances is a common practice in the trafficking chain. Body packing is a technique used in drug trafficking that consists of deliberately ingesting many drug pellets. Body stuffing consists of precipitously swallowing packets of substances, which are smaller and more fragile than body-packing pellets, for concealment from law-enforcement officers in anticipation of impending search or arrest. Therefore, body stuffing is particularly dangerous due to the rupture risk of the loosely wrapped drug packets, which could lead to substance intoxication or even death. This article reports the case of a young man who was taken by law enforcement authorities to our Emergency Department for investigation of suspected body stuffing."

Background

Should be "body pushing".

- Authors reply: amendment made

"Although individuals who resort to bodypacking or bodystuffing are often conveniently identified as 'bodypackers' "**Remove "conveniently"**

- Authors reply: amendment made

"The person has the right to refuse to undergo a CT scan and cannot be constrained to it, in which case the surveillance of pellet evacuation in a medical facility offers an alternative option"

Remove "option"

- Authors reply: amendment made

Case Presentation

"Police officers also suspected him of having swallowed cocaine pellets and brought him in November 2018 to our Emergency Department (ED) for investigation of bodystuffing."

This sentence seems to suggest they were more concerned about body packing. If law enforcement was really concerned about stuffing, for consistency, use "packets" as "pellets" was used in the description of body packing.

- Authors reply: we have clarified the text, which now reads as follows:

"Police officers also suspected him of having swallowed cocaine packets and brought him in November 2018 to our Emergency Department (ED) for investigation of suspected body stuffing."

"the foreign bodies, which were previously read as compatible with images of drug pellets, were in the process of being digested!"

Remove the exclamation point.

- Authors reply: amendment made

"Drug pellets have clearly defined and regular edges, and, if mechanically manufactured, they would have been of the same size and shape."

Again, it seems that the concern was for body packing, not stuffing.

- Authors reply: we have clarified the text, which now reads as follows:

"Drug pellets typically found in body packing have clearly defined and regular edges, and, if mechanically manufactured, would have been of the same size and shape. The continuous denial of intrabody drug concealment by the patient, his mention of fufu, the revised radiological reading, combined with the absence of acute signs of cocaine or heroin being released from dissolving or broken ingested packets or pellets were compatible with the patient's history of fufu intake."

"In the ED, relevant history included the fact that he was single and homeless, had no physical or mental health conditions, and was not on any medication. Past substance use history included tobacco and cannabis smoking, cocaine, and alcohol at the rate of 1 liter of whisky per day. Vital signs were normal, and the physical exam revealed no epigastric tenderness, no abdominal rigidity, guarding, rebound tenderness, nor evidence of a palpable mass. The remaining physical examination was unremarkable, showing a patient who was alert, oriented, calm, without any intention of self-harm, but uncooperative."

It seems this history and physical examination was probably performed before imaging. If so please reorder and state the radiological findings after this description.

- Authors reply: we have reordered the text accordingly.

Discussion

"First, the importance of a detailed patient history upon admission to the ED cannot be overstated, in particular with regard to different food types that were ingested in the past 24 h and that could influence radiological reading. A quick 24 h food intake history would have allowed our radiologist to analyze the images with relevant information that could bias the interpretation of results."

Yes, though if law enforcement truly suspected body packing the history would not necessarily dissuade them for the initial CT. Was the radiologist aware of the fufu ingestion prior to the second CT and could that information have been discussed with radiology prior to the exposure of a second CT?

- Authors reply: As mentioned in the introduction, standards dictate that an initial CT is done for suspected intrabody concealment of illicit substances. With regard to

passing relevant information to the radiologist, we have clarified the text, which now reads as follows:

"A quick 24 h food intake history would have allowed our radiologist to analyze the images with relevant information that could bias the interpretation of results. Such information was not gathered and passed onto the radiologist before the first CT scan. The history of fufu intake was shared with the radiologist before the second CT scan."

"professionals who are used to read images of illicit substances that are internally concealed."

Reword to "...who are experienced reading images of illicit substances..."

- Authors reply: amendment made.

Competing Interests: No competing interests were disclosed.

Reviewer Report 12 February 2020

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Nageswara Mandava

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The case study titled Don't chew the fufu: a case report of suspected bodystuffing, brings to light that taking a proper history is still paramount in the management of a patient. In this case a patient who had ingested food that was meant for slow digestion, was mistaken for drug packets. CT scan which is the go to study of choice was false positive for drug packets. Even though this is just a case report, the authors reviewed the literature on concealment of drug packets and the management of these patients. Urine toxicology screening is an important tool to use in these patients, in case the drug packets have ruptured. CT scan is still the modality of choice in diagnosing various causes for an acute abdomen, including patients with swallowed drug packets. Drug packets are wrapped and have a distinct appearance of layers with sometimes air in between the layers.

The strength of the paper is that, it reviewed the current literature of bodystuffing and points out the fallibility of CT scans.

The weakness of the paper is that it does not go into further detail of managing these patients.

However, It is still worth indexing.

Is the background of the case's history and progression described in sufficient detail?

Yes

Are enough details provided of any physical examination and diagnostic tests, treatment given and outcomes?

Yes

Is sufficient discussion included of the importance of the findings and their relevance to future understanding of disease processes, diagnosis or treatment?

Partly

Is the case presented with sufficient detail to be useful for other practitioners?

Yes

Competing Interests: No competing interests were disclosed.

Reviewer Expertise: Surgery, oncology

I confirm that I have read this submission and believe that I have an appropriate level of expertise to confirm that it is of an acceptable scientific standard.

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