

Defecation

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:For the death metal band Defecation, see Defecation . Defecation is the act or process by which organisms eliminate solid or semisolid waste material from the digestive tract via the anus. Humans expel feces with a frequency varying from a few times daily to a few times weekly; sloths can go a week without expelling. Waves of muscular contraction known as peristalsis in the walls of the colon move fecal matter through the digestive tract towards the rectum. Undigested food may also be expelled this way; this process is called egestion. The rectum ampulla acts as a temporary storage facility for the unneeded material. As the rectal walls expand due to the material filling it, stretch receptors from the nervous system located in the rectal walls stimulate the desire to defecate. If the urge is not acted upon, the material in the rectum is often returned to the colon where more water is absorbed. If defecation is delayed for a prolonged period the fecal matter may harden, resulting in constipation. When the rectum is full, an increase in intrarectal pressure forces the walls of the anal canal apart allowing the fecal matter to enter the canal. The rectum shortens as material is forced into the anal canal and peristaltic waves push the feces out of the rectum. The internal and external anal sphincters allow the feces to be passed by muscles pulling the anus up over the exiting feces. During defecation the chest muscles, diaphragm, abdominal wall muscles, and pelvic diaphragm all exert pressure on the digestive tract and ventilation temporarily ceases as the lungs push the chest diaphragm down in order to exert pressure. Blood pressure rises throughout the body and the amount of blood pumped by the heart decreases. During this time, the body is effectively undergoing similar stresses to that of a valsalva maneuver. Death has been known to occur in cases where defecation causes the blood pressure to rise enough to cause the rupture of an aneurysm or to dislodge blood clots . Humans must consciously relax the external sphincter muscles to expel waste. The anal and urethral sphincter muscles are closely linked, and experiments by Dr. Harrison Weed at the Ohio State University Medical Center have shown that they can only be contracted together, not individually, and that they both show relaxation during urination. This explains why defecation is frequently accompanied with urination. Defecation may be involuntary or under voluntary control. Young children learn voluntary control through the process of toilet training. Once trained, loss of control causing fecal incontinence may be caused by physical injury , intense fright, inflammatory bowel disease, impaired water absorption in the colon , and psychological or neurological factors. The positions and modalities of defecation are culture-dependent. In some regions of the world, such as South Asia, East Asia and rural parts of the Middle East, it is customary to squat , while in most of the Western World sit-down toilets are used. The anus and buttocks may be cleansed with toilet paper or similar paper products. In some cultures water is also used . In Japan, some toilets known as washlets are designed to wash and dry the anus of the user after defecation. ([From the Wikipedia article Defecation](#) .)

Recent Publications on Defecation:



- [PI\(4,5\)P2 and loss of PLC{gamma} activity inhibit TRPM channels required for oscillatory Ca2+ signaling.](#)

- The C. elegans intestinal epithelium generates rhythmic inositol...* 20th November, 2009
1Vanderbilt University.- Am J Physiol Cell Physiol. 2009 Nov 18. ([DOI Direct Link](#))
- [\[Application of plasma prostate electrovaporization system in the treatment of rectal cicatricial stenosis.\]](#)
OBJECTIVE: To evaluate the feasibility, maneuver and efficacy of plasma... 19th November, 2009
Department of Urology, The 477th Hospital of PLA, Hubei Xiangfan 441003,- Zhonghua Wei Chang Wai Ke Za Zhi. 2009 Nov;12(6):591-593.
 - [Laparoscopic correction of enterocele associated to stapled transanal rectal resection for obstructed defecation syndrome.](#)
BACKGROUND AND AIMS: We report our experience of concomitant laparoscopic... 19th November, 2009
Pelvic Floor Center, Montecchio Emilia, Italy.- Int J Colorectal Dis. 2009 Nov 17. ([DOI Direct Link](#))
 - [Study of efficacy and safety of a new local cream \('healer'\) in the treatment of chronic anal fissure: a prospective, randomized, single-blind, comparative study.](#)
OBJECTIVES: To determine the efficacy and safety of 'healer' cream as... 18th November, 2009
- Arq Gastroenterol. 2009 Jul-Sep;46(3):179-82.
 - [Chronic Testicular Pain as a Symptom of Pelvic Floor Dysfunction.](#)
PURPOSE: We determined whether chronic testicular pain is related to... 17th November, 2009
Leiden University Medical Center, Leiden, The Netherlands.- J Urol. 2009 Nov 12. ([DOI Direct Link](#))
 - [Intussusception following transmural migration and defecation of a surgical sponge.](#)
PURPOSE: We determined whether chronic testicular pain is related to... 17th November, 2009
Federal University of Espirito Santo, Vitoria, Brazil.- Clin Radiol. 2009 Dec;64(12):1231-4. Epub 2009 Sep 26. ([DOI Direct Link](#))
 - [Late morbidity following nerve-sparing radical hysterectomy.](#)
OBJECTIVES: Nerve-sparing (NS) modification of radical hysterectomy (RH)... 13th November, 2009
Oncogynecological Center, Department of Obstetrics and Gynecology, General- Gynecol Oncol. 2009 Nov 9. ([DOI Direct Link](#))
 - [\[Selective fenestration lamina of cervical vertebral lamina to excise ligamentum flavum for treating hypertrophic ligamentum flavum\]](#)
OBJECTIVE: To explore operative method and clinical effect of selective... 12th November, 2009
Department of Orthopaedics, the Central Hospital of Quzhou, Quzhou 324000,- Zhongguo Gu Shang. 2009 Oct;22(10):741-3.
 - [Peripheral peptide YY inhibits propulsive colonic motor function through Y2 receptor in conscious mice.](#)
Peptide YY (PYY) antisecretory effect on intestinal epithelia is well... 7th November, 2009
1UCLA.- Am J Physiol Gastrointest Liver Physiol. 2009 Nov 5. ([DOI Direct Link](#))
 - [Magnetic Resonance Imaging of the Lumbosacral Spine in Children with Chronic Constipation or Non-retentive Fecal Incontinence: A Prospective Study.](#)
OBJECTIVE: To determine the prevalence of lumbosacral spine (LSS)... 7th November, 2009
Department of Pediatric Gastroenterology and Nutrition, Emma Children's- J Pediatr. 2009 Nov 4. ([DOI Direct Link](#))
 - [Urodynamic studies in pediatric urology.](#)
In any type of lower urinary tract dysfunction it is mandatory to obtain... 6th November, 2009
Department of Pediatric Urology, University Children's Hospitals,- Nat Rev Urol. 2009 Nov;6(11):585-94. ([DOI Direct Link](#))
 - [Symptoms and Tests for IBS: Diagnosing a Complex Disorder.](#)
Use of symptom criteria for diagnosing irritable bowel syndrome (IBS) is... 3rd November, 2009
Department of Gastroenterology, Kaiser Permanente Medical Care Plan, San- Clin Gastroenterol Hepatol. 2009 Oct 30. ([DOI Direct Link](#))
 - [\[Self-perception, colonic transit and characteristics of subjects seeking medical care for constipation in Mexico.\]](#)
Objectives: Subjects seeking medical care for constipation were evaluated... 28th October, 2009
Hospital Angeles-CMP de San Luis Potosi.- Rev Gastroenterol Mex. 2009 Jul-Sep;74(3):187-94.
 - [\[Epidemiological investigation on an outbreak of amoebic dysentery in Jiangshan City of Zhejiang Province\]](#)

The investigation was carried out from 15 May to 10 June 2006 among...27th October, 2009
Jiangshan City Center for Disease Control and Prevention of Zhejiang- Zhongguo Ji Sheng Chong Xue
Yu Ji Sheng Chong Bing Za Zhi. 2009

- [Apoptosis during the development of pelvic floor muscle in anorectal malformation rats.](#)
PURPOSE: Fecal incontinence and constipation still remain as major...27th October, 2009
Department of Pediatric Surgery, Shengjing Hospital, China Medical- J Pediatr Surg. 2009
Oct;44(10):1884-91. ([DOI Direct Link](#))

BioNews Results for Defecation

- [ACG: Mixed Findings on Frequency of Dyssynergic Defecation](#)
MedPage Today: Oct 27 2009 9:49PM Matching: defecation

Defecation Patents:



- 7462601- [Ameliorant for chemical treatment of cancer](#)
- 7501137- [Process for controlling fecal hair excretion and trichobezoar formation](#)
- 7504251- [Bacterial strain, processed plant extracts, compositions containing same, processes for their preparation and their therapeutic and industrial applications](#)
- 7514421- [Use of an IBAT inhibitor for the treatment of constipation](#)
- 7514441- [Substituted pyrazolo \[1,5-A\]pyrimidines as calcium receptor modulating agents](#)
- 7517582- [Supersaturated solutions using crystallization enthalpy to impart temperature change to wet wipes](#)
- 7521630- [Parallel and virtual parallel interconnection of solar cells in solar panels](#)
- 7523973- [Thermoformed litter scoop](#)
- 7527020- [Containment systems and components for animal husbandry](#)
- 7527802- [Vaccine for transcutaneous immunization](#)
- 7531572- [Acyloxyalkyl carbamate prodrugs of .alpha.-amino acids, methods of synthesis and use](#)
- 7497351- [Wet wipe dispensing system](#)
- 7494979- [Method for treating congestive heart failure and other disorders](#)
- 7491062- [Method for educating a caregiver about baby care and development](#)
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- 7481801- [System comprising thong-shaped holder and absorbent article](#)
- 7481817- [Instrument for surgically cutting tissue and method of use](#)
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- 7488736- [Thienopyridinone compounds and methods of treatment](#)
- 7488865- [Urocortin-deficient mice and uses thereof](#)
- 7489969- [Vagal down-regulation obesity treatment](#)
- 7537587- [System comprising thong-shaped holder and absorbent article](#)

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- 7608412- [P62 as a diagnostic tool for alzheimer's disease](#)
- 7611736- [Pharmaceutical composition for use as a laxative](#)
- 7613516- [Pelvic disorder treatment device](#)
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- 7615207- [Methods for treating irritable bowel syndrome](#)
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- 7598265- [Compositions and methods for treating CNS disorders](#)
- 7598236- [Diazabicyclic central nervous system active agents](#)
- 7597954- [Supersaturated solutions using crystallization enthalpy to impact temperature change to wet wipes](#)
- 7544662- [Polypeptides useful for appetite suppression](#)
- 7547276- [Treatment of excretory problems](#)
- 7547443- [Skin care topical ointment](#)
- 7553532- [Tufted fibrous web](#)
- 7556831- [Method for treatment of constipation-predominant irritable bowel syndrome](#)
- 7563458- [Nutritional compositions for nutritional management of patients with liver disease](#)
- 7572218- [Implantable muscle closing prosthesis system, in particular in the anal channel area](#)
- 7576211- [Synthesis of thienopyridinone compounds and related intermediates](#)
- 7585838- [Methods of treating fibromyalgia caused by small intestinal bacterial overgrowth](#)
- 7585996- [Acyloxyalkyl carbamate prodrugs, methods of synthesis and use](#)
- 7618667- [High protein, low carbohydrate dough and bread products, and method for making same](#)

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Send comments and feedback to:

Peter Barfoot Managing Director, BioPortfolio Ltd.

UK Tel: (+44) 1300 321501

USA Voicemail and Fax: (+1) 415 680 2472

[Peter Barfoot peter.barfoot@bioportfolio.com](mailto:peter.barfoot@bioportfolio.com)

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