

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.

Recent Publications on Defecation:



- [New pelvic symptoms are common after reconstructive pelvic surgery.](#)

OBJECTIVE: The objective of the study was to determine the incidence of... 11th October, 2008

Division of Female Pelvic Medicine and Reconstructive Surgery, Departments- Am J Obstet Gynecol. 2008 Oct 7. ([DOI Direct Link](#))

- [Tubulointerstitial nephritis as an extraintestinal manifestation of Crohn's disease.](#)
Background A 12-year-old boy presented to hospital with a 6-month history... 8th October, 2008
AM Waters is a Nephrology Fellow at the Hospital for Sick Children, M- Nat Clin Pract Nephrol. 2008 Oct 7. ([DOI Direct Link](#))
- [Fournier's gangrene in an HIV-positive patient. Therapeutic options\]](#)
Fournier's gangrene is a life-threatening necrotising infection of the... 8th October, 2008
Chirurgia Generale A, Dipartimento Chirurgico Materno-Infantile e Scienze- Chir Ital. 2008 Jul-Aug;60(4):607-15.
- [Treatment strategies for chronic constipation: our experience.](#)
Outlet dysfunction is responsible for 25% of all cases of chronic... 8th October, 2008
Dipartimento di Scienze Chirurgiche, Trapianti d'Organo e Tecnologie- Chir Ital. 2008 Jul-Aug;60(4):509-18.
- [\[Proctectomy with external sphincter elements' preservation in surgery of low-ampullary rectal cancer.\]](#)
Operational technique for the rectum tumors, localized at the level of... 4th October, 2008
Gosudarstvennyi nauchnyi tsentr koloproktologii Rosmedtekhologii, Moskva.- Khirurgiia (Mosk). 2008;(9):8-14.
- [\[Gum chewing reduces duration of postoperative ileus\]](#)
Postoperative ileus (POI) after abdominal surgery is characterized by... 4th October, 2008
Frihedsvej- Ugeskr Laeger. 2008 Sep 22;170(39):3062-5.
- [Symptoms and pelvic support defects in specific compartments.](#)
OBJECTIVE: To investigate whether the nature of the anatomic defects in... 2nd October, 2008
Department of Obstetrics and Gynaecology, Sodersjukhuset, Stockholm,- Obstet Gynecol. 2008 Oct;112(4):851-8. ([DOI Direct Link](#))
- [Multidisciplinary behavioural treatment of fecal incontinence and constipation after correction of anorectal malformation.](#)
BACKGROUND: Fecal incontinence and constipation are major problems after... 1st October, 2008
Department of Pediatric Surgery and Urology, Children's Hospital, Klinikum- World J Pediatr. 2008 Aug;4(3):206-10.
- [\[Chronic constipation: current view of the problem\]](#)
The authors propose the definition of chronic constipations (CC) and... 30th September, 2008
- Klin Med (Mosk). 2008;86(8):21-8.
- [A comparison of different hemorrhoidectomy procedures.](#)
OBJECTIVE: To evaluate the pain level, analgesic consumption, operation... 25th September, 2008
Department of General Surgery, Gulhane Military Medical Academy, Ankara,- Saudi Med J. 2008 Sep;29(9):1264-9.
- [Inter- and intra-specific exposure to parasites and pathogens via the faecal-oral route: a consequence of behaviour in a patchy environment.](#)
SUMMARYLivestock herbivores are at risk of inter- and intra-specific... 25th September, 2008
Animal Health, Scottish Agricultural College, West Mains Road, Edinburgh,- Epidemiol Infect. 2008 Sep 24;1-14. ([DOI Direct Link](#))
- [Approaches to the prevention and management of radiation colitis.](#)
Radiation colitis refers to the characteristic changes in the mucosa of... 19th September, 2008
Department of Gastroenterology and Hepatology, Cleveland Clinic- Curr Gastroenterol Rep. 2008 Oct;10(5):507-13.
- [Acute Toxicity and Cholinesterase Inhibition in Chicks Dosed Orally with Organophosphate Insecticides.](#)
Acute toxic effects of three commonly used insecticidal preparations of... 18th September, 2008
Department of Physiology, Biochemistry and Pharmacology, College of- Arh Hig Rada Toksikol. 2008 Sep 1;59(3):145-151. ([DOI Direct Link](#))
- [Evaluation of the effect of ranitidine on gastroduodenal contractile activity and gastric emptying in horses.](#)
Objective-To determine the effect of ranitidine on gastric emptying in... 18th September, 2008

- J Am Vet Med Assoc. 2008 Sep 15;233(6):954. ([DOI Direct Link](#))
- [Anorectal incontinence: therapeutic strategy of a complex surgical problem.](#)
The anatomophysiological integrity of the pelvic floor and anorectum... 18th September, 2008
 2nd Department of Propedeutic Surgery, Athens University Medical School,- Hepatogastroenterology.
 2008 Jul-Aug;55(85):1320-6.

Defecation Clinical Trials:



- [Study of Stapled Transanal Rectal Resection \(STARR\) Surgery in Refractory Constipation Associated With Obstructive Defecation Syndrome \(ODS\)](#)
Obstructive Defecation Syndrome; Chronic Constipation; Rectocele; Intussusception

Defecation Patents:



- 7247325- [Crude drug compositions and the process for preparing them](#)
- 7295125- [Multi-sensor baby care monitoring system](#)
- 7297132- [Shape memory shutter device](#)
- 7304036- [Methods and compositions for the treatment of gastrointestinal disorders](#)
- 7309811- [Transgenic mice knockouts of BACE-1](#)
- 7312243- [Materials and methods for treatment of gastrointestinal disorders](#)
- 7319106- [Diazabicyclic central nervous system active agents](#)
- 7320973- [Dihydrodiaryloxazepine derivative and pharmaceutical composition containing the same](#)
- 7323569- [7-phenylpyrazolopyridine compounds](#)
- 7332504- [Heterocyclic substituted aminoazacycles useful as central nervous system agents](#)
- 7347944- [Method for making and conditioning super-oxygenated and structured water](#)
- 7288268- [Formulation for the treatment of obesity](#)
- 7287489- [Pet deterrent device](#)
- 7249570- [Disposable nonskid absorbent pad](#)
- 7250173- [Use of parasitic biological agents for prevention and control of autoimmune diseases](#)
- 7250445- [Anti-oxidant suppository for treating radiation proctopathy and other anorectal disorders](#)
- 7258879- [Food product and process for manufacturing same](#)
- 7260436- [Implantable networked neural system](#)
- 7265115- [Diazabicyclic CNS active agents](#)
- 7265155- [Treating a variety of pathological conditions, including spasticity and convulsions, by effecting a modulation of CNS activity with isovaleramide, isovaleric acid, or a related compound](#)
- 7265257- [Absorbent articles comprising a bodily exudate modifying agent and a film-forming skin care formulation](#)
- 7283867- [Implantable system and methods for acquisition and processing of electrical signals from](#)

[muscles and/or nerves and/or central nervous system tissue](#)

- 7285666- [Pyrazolo\[1,5-a\] pyridines and medicines containing the same](#)
- 7354718- [Molecular dissection method using trans-splicing to designed spliced leader sequences, genes, and constructs thereof](#)
- 7358270- [Treating agent for irritable bowel syndrome](#)
- 7400926- [Intestine dysfunction treatment apparatus](#)
- 7402669- [Method for preparing a Centella asiatica extract rich in madecassoside and in terminoloside](#)
- 7407966- [Thienopyridinone compounds and methods of treatment](#)
- 7410683- [Tufted laminate web](#)
- 7413569- [Implant](#)
- 7425343- [Process and composition for controlling fecal hair excretion and trichobezoar formation](#)
- 7427351- [Water preconditioning system](#)
- 7427353- [System for enhancing oxygen](#)
- 7427398- [Mammalian animal composition](#)
- 7431360- [Portable animal waste remover](#)
- 7396836- [Pyrimidine compound and medicinal composition thereof](#)
- 7395784- [Pet toilet](#)
- 7360544- [Inhibition action incontinence device and method](#)
- 7365030- [Process for making a wet wipe using a concentrated emulsion](#)
- 7367807- [Method for improving word processing skills using visual flash stimuli](#)
- 7368444- [N-carbamoyl nitrogen-containing fused ring compounds and drugs containing these compounds as the active ingredient](#)
- 7371412- [Pharmaceutical compositions comprising an extract of Euphorbia prostrata](#)
- 7371727- [Methods and compositions for the treatment of gastrointestinal disorders](#)
- 7374215- ["Scooppeeze" portable canine waste pick-up device](#)
- 7390320- [Automatic urine disposal device and urine receptacle used therefor](#)
- 7390823- [Use of saredutant and of its pharmaceutically acceptable salts for the preparation of medicinal products that are useful in the treatment or prevention of all mood disorders, adaptation disorders or mixed anxiety-depression disorders](#)
- 7392763- [Birdcage feeder](#)
- 7433734- [Apparatus and method for blocking activation of tissue or conduction of action potentials while other tissue is being therapeutically activated](#)

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