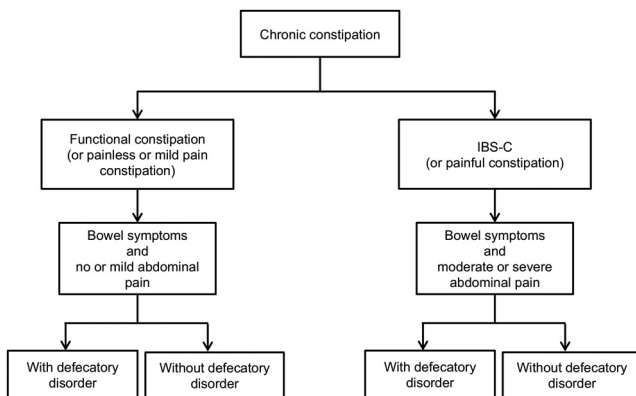
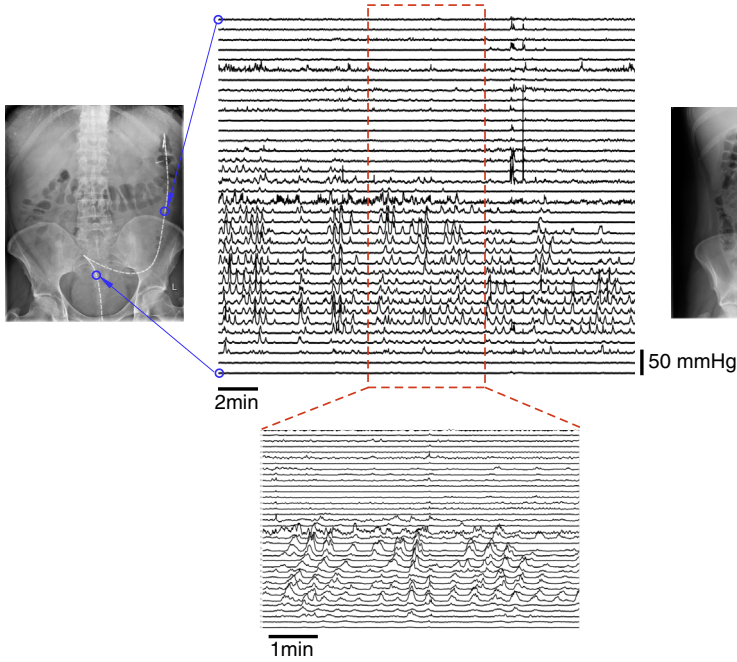


Supplementary Figure 1. American Gastroenterological Association (AGA) (*upper panel*) and Rome IV classifications (*lower panel*) of chronic constipation.

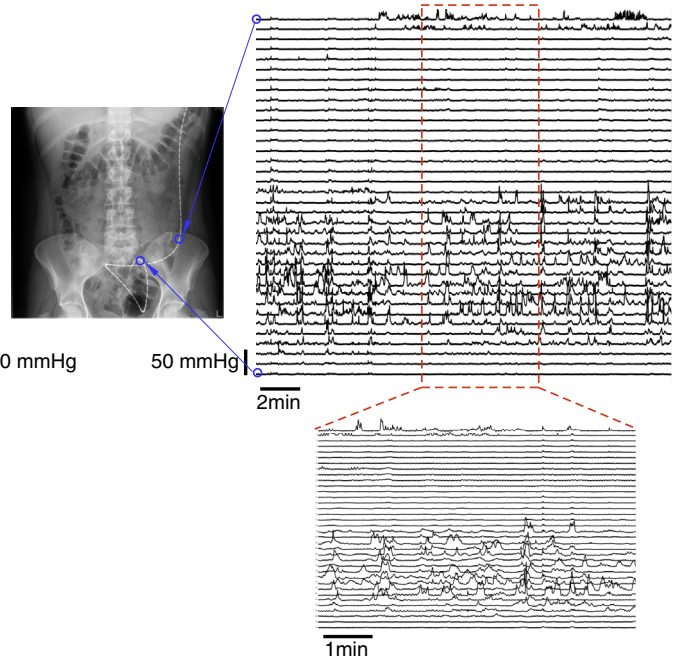


Supplementary Figure 2. Revised classification of chronic constipation into painless and painful constipation.

A. Health Adult



B. Adult patient with Slow Transit Constipation



Supplementary Figure 3. Comparison of colonic high-resolution manometry tracings in a healthy person (*left panel*) and a constipated patient (*right panel*). Both tracings were recorded approximately 40 minutes after the meal. Observe nicely coordinated, propagating events occurring at approximately 2–3 cpm in the healthy person. In the patient, there is more chaotic activity at 2–3 cpm activity. Courtesy of Dr Phil Dinning.

Supplementary Table 1. Medications Associated With Constipation

Class	Examples
5-HT ₃ -receptor antagonists	Ondansetron
Analgesics	
Opiates ^a	Morphine
Nonsteroidal anti-inflammatory agents ^a	Ibuprofen
Anticholinergic agents	Librax, belladonna
Tricyclic antidepressants ^a	Amitriptyline > nortriptyline
Antiparkinsonian drugs	Benzatropine
Antipsychotics	Chlorpromazine
Antispasmodics ^a	Dicyclomine
Antihistamine ^a	Diphenhydramine
Anticonvulsants ^a	Carbamazepine
Antihypertensives	
Calcium channel blockers	Verapamil, nifedipine
Diuretics ^{a,b}	Furosemide
Centrally acting	Clonidine
Antiarrhythmics	Amiodarone
β-adrenoceptor antagonist	Atenolol
Bile acid sequestrants	Cholestyramine, colestipol
Cation-containing agents	
Aluminum ^a	Antacids, sucralfate
Calcium	Antacids, supplements
Bismuth	
Iron supplements	Ferrous sulfate
Lithium	
Chemotherapy agents	
Vinca alkaloids	Vincristine
Alkylating agents	Cyclophosphamide
Miscellaneous compounds	Barium sulfate, oral contraceptives, polystyrene resins
Endocrine medications	Pamidronate and alendronic acid
Other antidepressants	Monoamine oxidase inhibitors
Other antipsychotics	Clozapine, haloperidol, risperidone
Other antiparkinsonian drugs	Dopamine agonists
Other antispasmodics	Mebeverine, peppermint oil
Sympathomimetics	Ephedrine, terbutaline

NOTE. From Bharucha et al.,⁴ adapted with permission.

5-HT, 5-hydroxytryptamine.

^aDrugs associated with constipation in community-based studies.^{157,158}

^bPerhaps related to electrolyte disturbances.