**TABLE 2 – SUPPLEMENTAL DIGITAL CONTENT 2**

**Differential diagnosis of constipation**

**NONORGANIC**

**• Developmental**

cognitive handicaps, attention-deficit disorders, autistic spectrum disorders

**• Situational**

coercive toilet training, Toilet phobia, School bathroom avoidance

Excessive parental interventions, Sexual abuse, other

**• Depression**

**• Constitutional**

Colonic inertia, Genetic predisposition

**• Reduced stool volume and dryness**

Low fiber in diet, Dehydration, Underfeeding or malnutrition

**ORGANIC**

**• Anatomic malformations**

Imperforate anus, Anal stenosis, Anterior displaced anus (96)

Pelvic mass (sacral teratoma)

**• Metabolic and gastrointestinal**

Hypothyroidism, Hypercalcemia, Hypokalemia, Cystic fibrosis

Diabetes mellitus, Multiple endocrine neoplasia type 2B, Gluten enteropathy

**• Neuropathic conditions**

Spinal cord abnormalities, Spinal cord trauma, Tethered cord, Neurofibromatosis

**• Intestinal nerve or muscle disorders**

Hirschsprung disease, Intestinal neuronal dysplasia

Chronic Intestinal Pseudo-obstruction (myopathies, neuropathies, mesenchimopathies)

**• Abnormal abdominal musculature**

Prune belly, Gastroschisis, Down syndrome

**• Connective tissue disorders**

Scleroderma, Systemic lupus erythematosus, EhlersYDanlos syndrome

**• Drugs**

Opiates, Phenobarbital, Sucralfate, Antacids, Antihypertensives, Anticholinergics

Antidepressants, Sympathomimetics

**• Other**

Heavy-metal ingestion (lead), Vitamin D intoxification, Botulism, Cow’s milk protein allery