**Supplementary Table S3. Somatic and Psychiatric Comorbidities and Psychosocial Manifestations Associated with Eating Disorders**

| **Outcome** | **Anorexia nervosa** | **Bulimia Nervosa** | **Binge-Eating Disorder** | **Source** |
| --- | --- | --- | --- | --- |
| **Somatic manifestations and comorbidities** |
| **Body composition** |  |  |  |  |
| Body fat content and distribution | El Ghoch, Calugi, Lamburghini, & Dalle Grave, 2014; Greco, Lenzi, & Migliaccio, 2016 |  |  | SR; NR |
| Increased bone marrow fat | Donaldson & Gordon, 2015; Hardouin, Rharass, & Lucas, 2016; Scheller, Burr, MacDougald, & Cawthorn, 2016 |  |  | NR |
| Bone mineral density | Osteopenia, osteoporosis and fractures(Donaldson & Gordon, 2015; El Ghoch et al., 2016; Greco et al., 2016; Misra, Golden, & Katzman, 2016; Misra & Klibanski, 2016; Robinson, Aldridge, Clark, Misra, & Micali, 2016; Schorr & Miller, 2017; Solmi, Veronese, Correll, et al., 2016; Thornton & Gordon, 2016; Westmoreland, Krantz, & Mehler, 2016) | Osteopenia(Robinson et al., 2016) |  | NR; SR; MA |
| Increased physical activity | Achamrah, Coëffier, & Déchelotte, 2016; Gümmer et al., 2015 |  |  | SR |
| **Brain** |  |  |  |  |
| Gray matter atrophy | Seitz et al., 2014; Titova, Hjorth, Schiöth, & Brooks, 2013; Westmoreland et al., 2016 |  |  | SR; MA |
| White matter atrophy | Seitz et al., 2014; Titova et al., 2013; Westmoreland et al., 2016 |  |  | NR; QR; MA |
| **Cardiovascular system** |  |  |  |  |
| Atherosclerotic vascular disease | Sachs, Harnke, Mehler, & Krantz, 2016 |  |  | SR |
| Coronary heart disease |  |  | Olguin et al., 2016 | SR |
| Autonomic dysfunction/altered heart rate variability | Sachs et al., 2016 | Increased variability(Peschel et al., 2016a, 2016b) | Decreased variability(Mitchell, 2016; Olguin et al., 2016) | SR |
| Decreased left ventricular mass | Sachs et al., 2016; Spaulding-Barclay, Stern, & Mehler, 2016 |  |  | NR; SR |
| Decreased left ventricular end-diastolic and left ventricular end-systolic dimensions | Spaulding-Barclay et al., 2016 |  |  | NR |
| Altered heart wall thicknesses | Spaulding-Barclay et al., 2016 |  |  | NR |
| Lower cardiac output |  |  |  Olguin et al., 2016 | SR |
| Mitral valve prolapse | Sachs et al., 2016; Spaulding-Barclay et al., 2016 |  |  | NR; SR |
| Myocardial fibrosis | Lamzabi et al., 2015; Sachs et al., 2016 |  |  | SR; Autopsy |
| Cardiomyopathy |  | Westmoreland et al., 2016 |  | NR |
| Sinus bradycardia | Sachs et al., 2016; Spaulding-Barclay et al., 2016; Westmoreland et al., 2016 |  |  | NR; SR |
| Blood pressure | Hypotension(Sachs et al., 2016; Spaulding-Barclay et al., 2016) |  | Hypertension(Mitchell, 2016) | NR; SR |
| Postural orthostatic tachycardia syndrome | Sachs et al., 2016; Spaulding-Barclay et al., 2016 |  |  | NR; SR |
| Cardiac arrhythmias |  | Westmoreland et al., 2016 |  | NR |
| QT dispersion | Sachs et al., 2016; Spaulding-Barclay et al., 2016 | Olguin et al., 2016 |  | NR; SR |
| QT interval prolongation | Sachs et al., 2016; Spaulding-Barclay et al., 2016; Westmoreland et al., 2016 | Olguin et al., 2016 |  | NR; SR |
| Conduction delays | Sachs et al., 2016; Spaulding-Barclay et al., 2016 |  |  | NR; SR |
| Junctional escape rhythms | Sachs et al., 2016; Spaulding-Barclay et al., 2016 |  |  | NR; SR |
| Dysregulation of peripheral vasoconstriction/vasodilatation | Sachs et al., 2016 |  |  | SR |
| Acrocyanosis | Sachs et al., 2016 |  |  | SR |
| Arterial vasospasm | Sachs et al., 2016 |  |  | SR |
| **Dermatology** |  |  |  |  |
| Xerosis | Westmoreland et al., 2016 |  |  | NR |
| Lanugo hair | Westmoreland et al., 2016 |  |  | NR |
| Hair thinning | Westmoreland et al., 2016 |  |  | NR |
| Perniosis | Westmoreland et al., 2016 |  |  | NR |
| Acne | Westmoreland et al., 2016 |  |  | NR |
| Carotenoderma | Westmoreland et al., 2016 |  |  | NR |
| Callus on back of hand (Russell’s sign) |  | Mehler & Rylander, 2015 |  | NR |
| **Immunology** |  |  |  |  |
| Increased risk of infection | Dobner & Kaser, in press |  |  | SR |
| **Hematology** |  |  |  |  |
| Anemia | Westmoreland et al., 2016 |  |  | NR |
| Leukopenia | Westmoreland et al., 2016 |  |  | NR |
| Thrombocytopenia | Westmoreland et al., 2016 |  |  | NR |
| **Dentistry** |  |  |  |  |
| Dental erosion | Hermont et al., 2014; Kisely, Baghaie, Lalloo, & Johnson, 2015 | Hermont et al., 2014; Kisely et al., 2015; Westmoreland et al., 2016 |  | NR; SR; MA |
| Decayed, missing and filled teeth or surfaces | Kisely et al., 2015 | Kisely et al., 2015; Westmoreland et al., 2016 |  | SR; MA |
| Dry mouth  | Kisely et al., 2015 | Kisely et al., 2015 |  | SR; MA |
| **Endocrinology** |  |  |  |  |
| Hypogonadotropic hypogonadism with relative estrogen and androgen deficiency | Allaway, Southmayd, & De Souza, 2016; Donaldson & Gordon, 2015; Misra & Klibanski, 2016; Schorr & Miller, 2017; Westmoreland et al., 2016 |  |  | NR |
| Growth hormone resistance with low insulin-like growth factors 1 (IGF-1) | Fazeli & Klibanski, 2014; Misra & Klibanski, 2016; Schorr & Miller, 2017 |  |  | NR |
| Hyperaldosteronism |  |  Westmoreland et al., 2016 |  | NR |
| Hypercortisolemia | Donaldson & Gordon, 2015; Misra & Klibanski, 2016; Schorr & Miller, 2017; Westmoreland et al., 2016 |  |  Mitchell, 2016 | NR |
| Thyroid function (Low T3 syndrome) | Donaldson & Gordon, 2015; Schorr & Miller, 2017 |  |  | NR |
| Leptin | Hypoleptinemia (Donaldson & Gordon, 2015; Schorr & Miller, 2017; Tortorella et al., 2014; Westmoreland et al., 2016) | Elevated, normal, decreased(Tortorella et al. 2014) |  | NR |
| Adiponectin | Elevated(Schorr and Miller 2017; Scheller et al. 2016; Khalil and El Hachem 2014; Tortorella et al. 2014) | Elevated, normal, decreased(Khalil & El Hachem, 2014) | Decreased(Khalil & El Hachem, 2014) | NR; SR |
| Hypo- and hypervitaminosis | Veronese et al., 2015; Westmoreland et al., 2016 |  |  | NR; MA |
| **Gastrointestinal peptides** |  |  |  |  |
| Cholecystokinin | Increased, normal (Tortorella et al. 2014) | Normal, decreased(Tortorella et al. 2014) |  | NR |
| Gastrin | Increased, decreased(Tortorella et al. 2014) |  |  | NR |
| Ghrelin | Increased(Misra & Klibanski, 2016; Müller & Tschöp, 2013; Schorr & Miller, 2017; Wittekind & Kluge, 2015) | Increased(Wittekind and Kluge 2015; Tortorella et al. 2014) | Suppressed(Wittekind & Kluge, 2015) | NR; SR |
| Plasma active ghrelin | Increased, decreased(Tortorella et al. 2014) |  |  | NR |
| Glucagon-like peptide | Decreased(Tortorella et al. 2014) | Increased(Tortorella et al. 2014) |  | NR |
| Insulin | Increased, normal decreased(Tortorella et al. 2014) | Increased, decreased(Tortorella et al. 2014) |  | NR |
| Obestatin | Decreased, increased(Tortorella et al. 2014) | Increased, normal, decreased(Tortorella et al. 2014) |  | NR |
| Pancreatic polypeptide | Increased, normal(Tortorella et al. 2014) | Increased(Tortorella et al. 2014) |  | NR |
| Peptide YY | Increased, normal, decreased(Schorr and Miller 2017; Misra and Klibanski 2016; Tortorella et al. 2014) | Normal, decreased(Tortorella et al. 2014) |  | NR |
| Resistin | Normal, decreased(Tortorella et al. 2014) |  |  |  |
| **Gastrointestinal symptoms** |  |  |  |
| Postprandial fullness | Sato & Fukudo, 2015 |  |  | NR |
| Early satiety | Sato & Fukudo, 2015; Westmoreland et al., 2016 |  |  | NR |
| Postprandial distress syndrome | Sato & Fukudo, 2015 |  |  | NR |
| Altered esophageal motility | Sato & Fukudo, 2015; Weterle-Smolińska et al., 2015 |  |  | NR |
| Inflammation of the esophagus |  | Mehler & Rylander, 2015 |  | NR |
| Abdominal distention | Sato & Fukudo, 2015 |  |  | NR |
| Abdominal pain | Sato & Fukudo, 2015 |  |  | NR |
| Gastric acid reflux |  | Westmoreland et al., 2016 |  | NR |
| Gastric distension | Sato & Fukudo, 2015; Westmoreland et al., 2016 |  |  | NR |
| Mallory-Weiss tears |  | Westmoreland et al., 2016 |  | NR |
| Acute gastric dilatation | Westmoreland et al., 2016 |  | Sato & Fukudo, 2015 | NR |
| Gastric perforation |  |  | Sato & Fukudo, 2015 | NR |
| Delayed gastric emptying | Norris et al., 2016; Westmoreland et al., 2016; Weterle-Smolińska et al., 2015 |  |  | NR; SR |
| Superior mesenteric artery syndrome | Sato & Fukudo, 2015; Westmoreland et al., 2016 |  |  | NR |
| Irritable bowel syndrome | Sato & Fukudo, 2015 |  |  | NR |
| Functional constipation | Sato & Fukudo, 2015 |  |  | NR |
| Intestinal dysbiosis | Kleiman et al., 2015 |  |  | LRS |
| Celiac |  |  | Olguin et al., 2016 | SR |
| **Metabolism** |  |  |  |  |
| Diabetes Type 1 |  |  | Olguin et al., 2016 | SR |
| Diabetes Type 2  |  | García-Mayor & García-Soidán, in press | García-Mayor & García-Soidán, in press; Olguin et al., 2016; Racicka & Bryńska, 2015 | NR; SR |
| Electrolyte and acid-base abnormalities | Mehler & Walsh, 2016 | Mehler & Walsh, 2016; Westmoreland et al., 2016 |  | SR |
| Hyponatremia |  Schorr & Miller, 2017 |  |  | NR |
| Hypokalemia |  |  Westmoreland et al., 2016 |  | NR |
| Elevated liver transaminases |  Westmoreland et al., 2016 |  |  | NR |
| Metabolic syndrome |  |  | Mitchell, 2016 | SR |
| Plasma tryptophan lowered during acute disease  | Gauthier, Launay, Thiebaud, & Godart, 2015 |  |  | SR |
| **Nephrology** |  |  |  |  |
| Urinary urgency | Stheneur, Bergeron, & Lapeyraque, 2014 |  |  | SR |
| Urinary lithiasis | Stheneur et al., 2014 |  |  | SR |
| Nocturnal enuresis | Stheneur et al., 2014 |  |  | SR |
| **Neurology** |  |  |  |  |
| Epilepsy |  |  | Olguin et al., 2016 | SR |
| Idiopathic intracranial hypertension |  |  | Olguin et al., 2016 | SR |
| **Neuropeptides** |  |  |  |  |
| Agouti-related peptide | Increased(Tortorella et al. 2014) |  |  | NR |
| Brain-derived neurotrophic factor | Decreased(Tortorella et al. 2014) | Decreased(Tortorella et al. 2014) |  | NR |
| Neuropeptide Y | Increased, normal, decreased(Tortorella et al. 2014) | Increased, normal(Tortorella et al. 2014) |  | NR |
| Oxytocin | Hypooxytocinemia(Romano, Tempesta, Micioni Di Bonaventura, & Gaetani, 2015; Rutigliano et al., 2016; Schorr & Miller, 2017; Tortorella et al., 2014) |  |  | NR; SR; MA |
| Opioid peptides | Increased, decreased(Tortorella et al. 2014) | Increased, decreased(Tortorella et al. 2014) |  | NR |
| Somatostatin | Decreased, increased(Tortorella et al. 2014) |  |  | NR |
| Vasopressin | Decreased(Tortorella et al. 2014) | Decreased(Tortorella et al. 2014) |  | NR |
| **Obstetrics and gynecology** |  |  |  |  |
| Menstrual disturbances | Kimmel, Ferguson, Zerwas, Bulik, & Meltzer-Brody, 2016 | Kimmel et al., 2016 | Kimmel et al., 2016 | SR |
| Infertility |  | Kimmel et al., 2016 |  | SR |
| Unplanned pregnancy | Kimmel et al., 2016 | Kimmel et al., 2016 |  | SR |
| Miscarriage | Kimmel et al., 2016 | Kimmel et al., 2016 | Kimmel et al., 2016 | SR |
| Poor nutrition during pregnancy | Kimmel et al., 2016 |  | Kimmel et al., 2016 | SR |
| Hyperemesis gravidarum |  | Kimmel et al., 2016 |  | SR |
| Sexual dysfunction | Kimmel et al., 2016 | Kimmel et al., 2016 | Kimmel et al., 2016 | SR |
| Earlier cessation of breastfeeding | Kimmel et al., 2016 |  |  | SR |
| Polycystic ovarian syndrome |  | Kimmel et al., 2016 | Kimmel et al., 2016; Olguin et al., 2016 | SR |
| Gynecologic cancers | Kimmel et al., 2016 |  | Kimmel et al., 2016 | SR |
| **Otolaryngology (Ear, nose, and throat)** |  |  |  |
| Dysphagia | Westmoreland et al., 2016 | Westmoreland et al., 2016 |  | NR |
| Epistaxis |  | Westmoreland et al., 2016 |  | NR |
| Lagophthalmos | Westmoreland et al., 2016 |  |  | NR |
| Laryngitis |  | Mehler & Rylander, 2015 |  | NR |
| Olfaction | Islam et al., 2015 |  |  | SR |
| Parotid gland enlargement |  | Westmoreland et al., 2016 |  | NR |
| Pharyngitis |  | Mehler & Rylander, 2015 |  | NR |
| Sialadenosis |  | Westmoreland et al., 2016 |  | NR |
| Vocal cord inflammation |  | Westmoreland et al., 2016 |  | NR |
| **Psychiatric Comorbidities and Psychosocial Manifestations** |
| Attention deficit hyperactivity disorder | Nazar et al., 2016; Ptacek et al., 2016 | Levin & Rawana, 2016; Nazar et al., 2016; Ptacek et al., 2016 | Levin & Rawana, 2016; Nazar et al., 2016 | NR, SR, MA |
| Adverse life experiences |  |  | Palmisano, Innamorati, & Vanderlinden, 2016 | SR |
| Anxiety | Jenkins, Hoste, Meyer, & Blissett, 2011; Kezelman, Touyz, Hunt, & Rhodes, 2015 | Jenkins et al., 2011 | Jenkins et al., 2011 | SR |
| Autistic traits | Westwood et al., 2016 |  |  | SR, MA |
| Bipolar disorder |  | Álvarez Ruiz & Gutiérrez-Rojas, 2015 | Álvarez Ruiz & Gutiérrez-Rojas, 2015 | SR |
| Body image disturbances | Legenbauer, Thiemann, & Vocks, 2014 | Legenbauer et al., 2014 |  | NR |
| Childhood abuse |  | Caslini et al., 2016 | Caslini et al., 2016; Palmisano et al., 2016 | SR, MA |
| Depression | Abbate-Daga et al., 2015; Puccio, Fuller-Tyszkiewicz, Ong, & Krug, 2016 | Puccio et al., 2016 | Puccio et al., 2016 | NR; SR, MA |
| Interpersonal problems | Jones, Lindekilde, Lübeck, & Clausen, 2015 | Jones et al., 2015 |  | SR |
| Non-suicidal self-injury | Cucchi et al., 2016 | Cucchi et al., 2016 |  | SR, MA |
| Perinatal depression and anxiety | Kimmel et al., 2016 | Kimmel et al., 2016 | Kimmel et al., 2016 | SR |
| Personality disorders | Martinussen et al., 2016; Rotella, Fioravanti, & Ricca, 2016 | Martinussen et al., 2016; Rotella et al., 2016 | Friborg et al., 2014; Gerlach, Loeber, & Herpertz, 2016; Rotella et al., 2016 | SR, MA |
| Psychotic experiences | Kouidrat, Amad, Lalau, & Loas, 2014; McGrath et al., 2016 |  |  | RCS; SR |
| Reduced quality of life | Ágh et al., 2016; Jenkins et al., 2011; Winkler et al., 2014 | Ágh et al., 2016; Jenkins et al., 2011; Winkler et al., 2014 | Ágh et al., 2016; Jenkins et al., 2011; Winkler et al., 2014 | SR, MA |
| Schizophrenia | Kouidrat et al., 2014 | Kouidrat et al., 2014 | Kouidrat et al., 2014 | SR |
| Sexual dysfunction | Castellini, Lelli, Ricca, & Maggi, 2016; Kimmel et al., 2016; Waldinger, 2015 | Castellini et al., 2016; Kimmel et al., 2016; Waldinger, 2015 | Castellini et al., 2016; Kimmel et al., 2016 | NR, SR |
| Sexual trauma | Madowitz, Matheson, & Liang, 2015 | Madowitz et al., 2015 | Madowitz et al., 2015 | SR |
| Shame/Guilt | Jenkins et al., 2011 | Jenkins et al., 2011 | Jenkins et al., 2011 | SR |
| Sleep disturbances | Allison, Spaeth, & Hopkins, 2016 | Allison et al., 2016 | Allison et al., 2016; Olguin et al., 2016 | NR, SR |
| Smoking |  | Solmi, Veronese, Sergi, et al., 2016 | Solmi, Veronese, Sergi, et al., 2016 | SR, MA |
| Substance use disorder | Cucchi et al., 2016 | Cucchi et al., 2016 | Schreiber, Odlaug, & Grant, 2013 | SR, MA |
| Suicidality | Cucchi et al., 2016 | Cucchi et al., 2016 |  | SR, MA |

NR: Narrative review; SR: Systematic review; MA: Meta-analysis; LRS: Longitudinal refeeding study; RCS: Retrospective cohort study

**References for Supplementary Table S3**

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