

**Report from the
National Birth Defect Registry
Birth Defects in Vietnam Veterans' Children**



**BIRTH DEFECT RESEARCH
FOR CHILDREN, INC**



Birth Defects Research for Children, Inc.

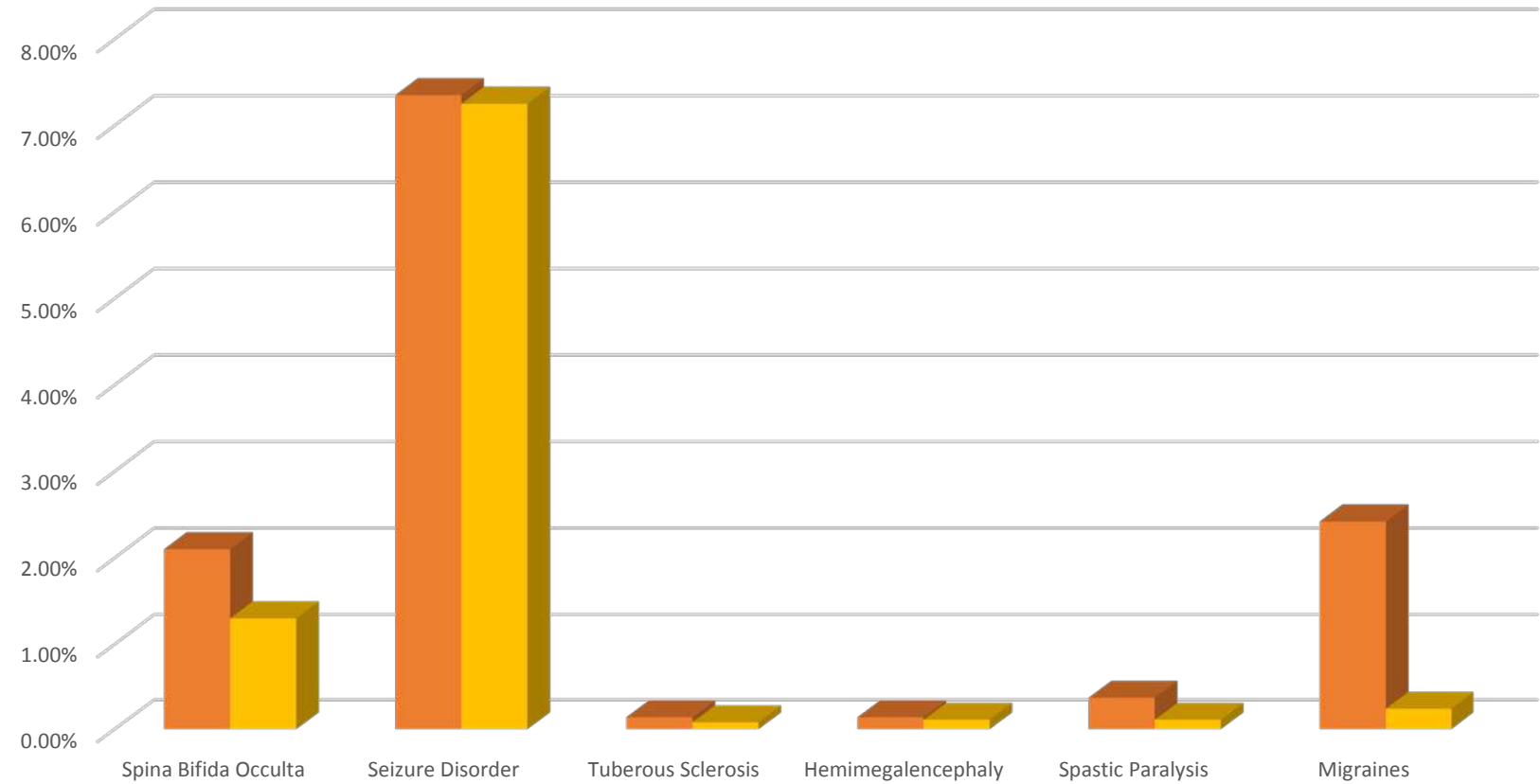
National Birth Defects Registry – Children of Vietnam Veterans and Non-Veterans

Agent Orange was a combination of two defoliants, 2-45T and 2-4D, contaminated by dioxin (TCDD), a toxic byproduct of the chemical production process. Over 19 million gallons of herbicides were sprayed in Vietnam between 1962-1971 to destroy crops and ground cover. The current scientific evidence argues not only that dioxin is a potent carcinogen, but that it appears to have even more profound non-cancer health and environmental hazard effects that include reproductive, developmental and immunological defects. Dioxin appears to act like a persistent synthetic hormone interfering with important physiological signaling systems that can lead to altered cell development, differentiation and regulation. This National Birth Defect Registry report shows the differences in structural and functional birth defects in 2189 children of Vietnam veterans compared to 3778 children of non-veterans in the registry.

Birth Defects Research for Children, Inc.

National Birth Defects Registry – Children of Vietnam Veterans and Non-Veterans

 Vietnam Veteran
 Non-Veteran



Total Participants: **5967**

Vietnam Veteran Fathers: **2189**

Non-Veteran Fathers: **3778**

Query: 02/14/2019

Central Nervous System Defects

Cases percentage

Birth Defects Research for Children, Inc.

National Birth Defects Registry – Children of Vietnam Veterans and Non-Veterans

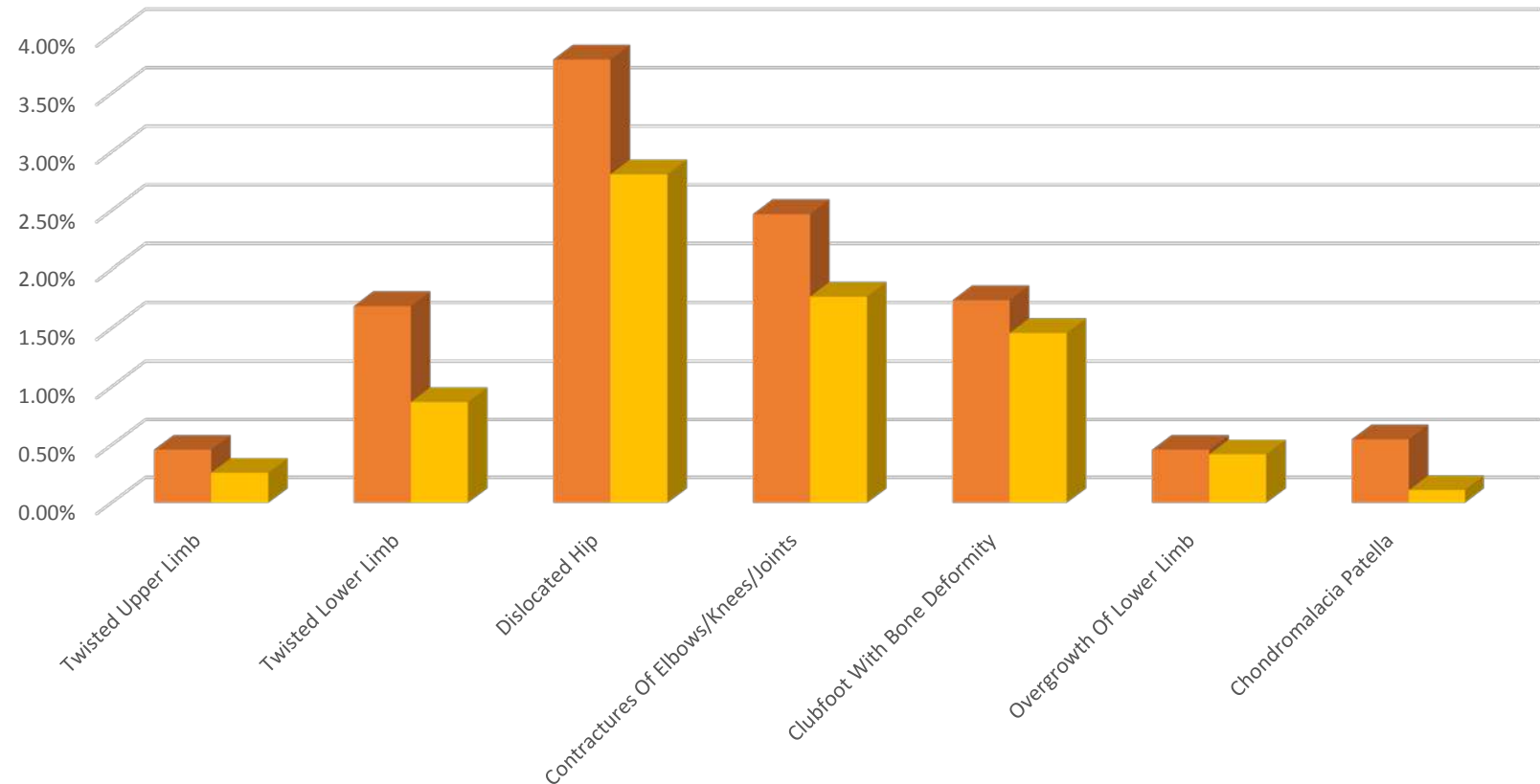
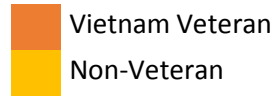
Central Nervous System Defects

Cases percentage

	Vietnam Veteran Fathers	Non Veteran Fathers
Spina Bifida Occulta	2.10%	1.30%
Seizure Disorder	7.35%	7.25%
Tuberous Sclerosis	0.14%	0.08%
Hemimegalencephaly	0.14%	0.11%
Spastic Paralysis	0.37%	0.11%
Migraines	2.42%	0.24%

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Limb Defects
Cases percentage

Birth Defects Research for Children, Inc.

National Birth Defects Registry – Children of Vietnam Veterans and Non-Veterans

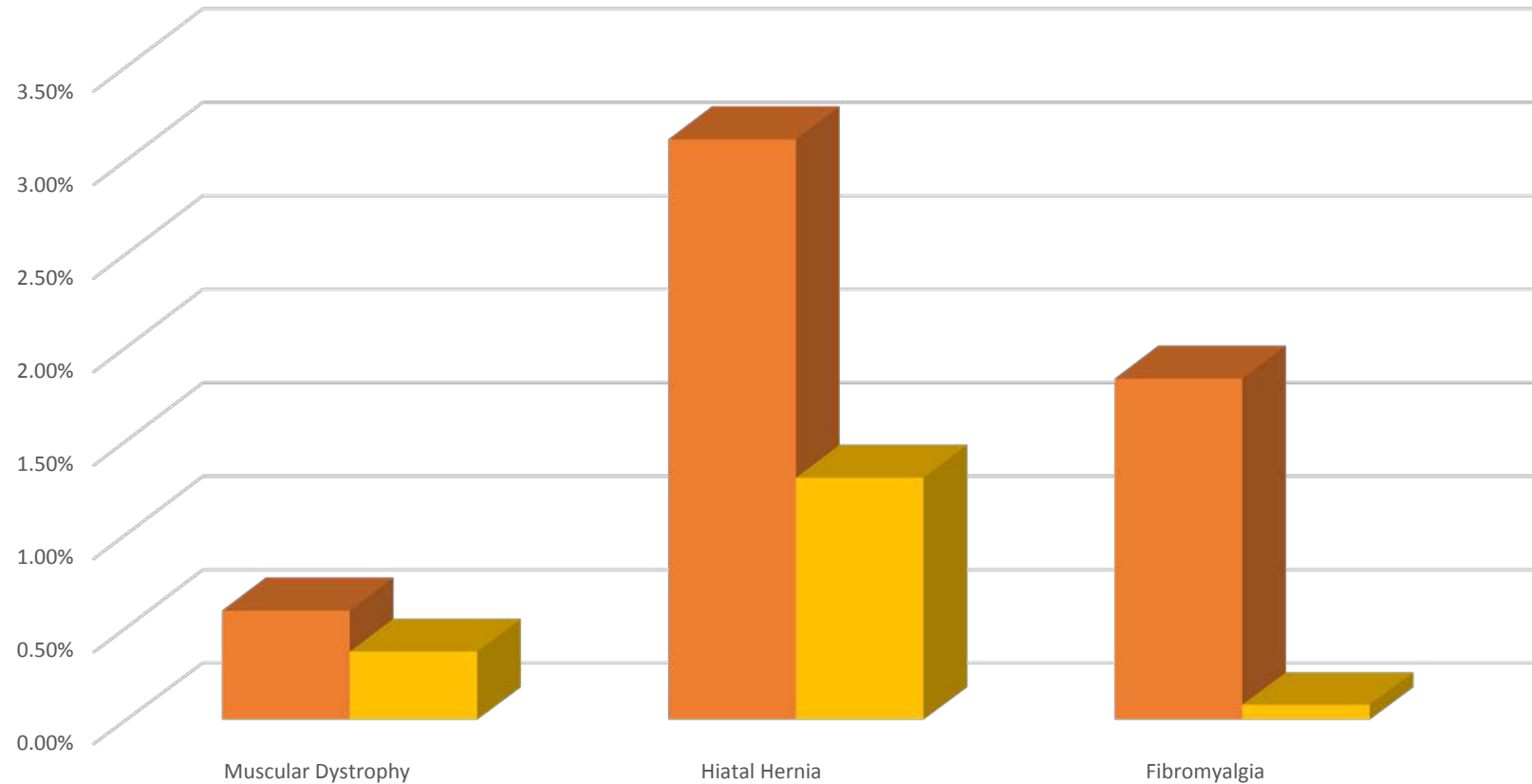
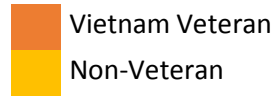
Limb Defects

Cases percentage

	Vietnam Veteran Fathers	Non Veteran Fathers
Twisted Upper Limb	0.46%	0.26%
Twisted Lower Limb	1.69%	0.87%
Dislocated Hip	3.79%	2.81%
Contractures Of Elbows/Knees/Joints	2.47%	1.77%
Clubfoot With Bone Deformity	1.74%	1.46%
Overgrowth Of Lower Limb	0.46%	0.42%
Chondromalacia Patella	0.55%	0.11%

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Muscle Defects
Cases percentage

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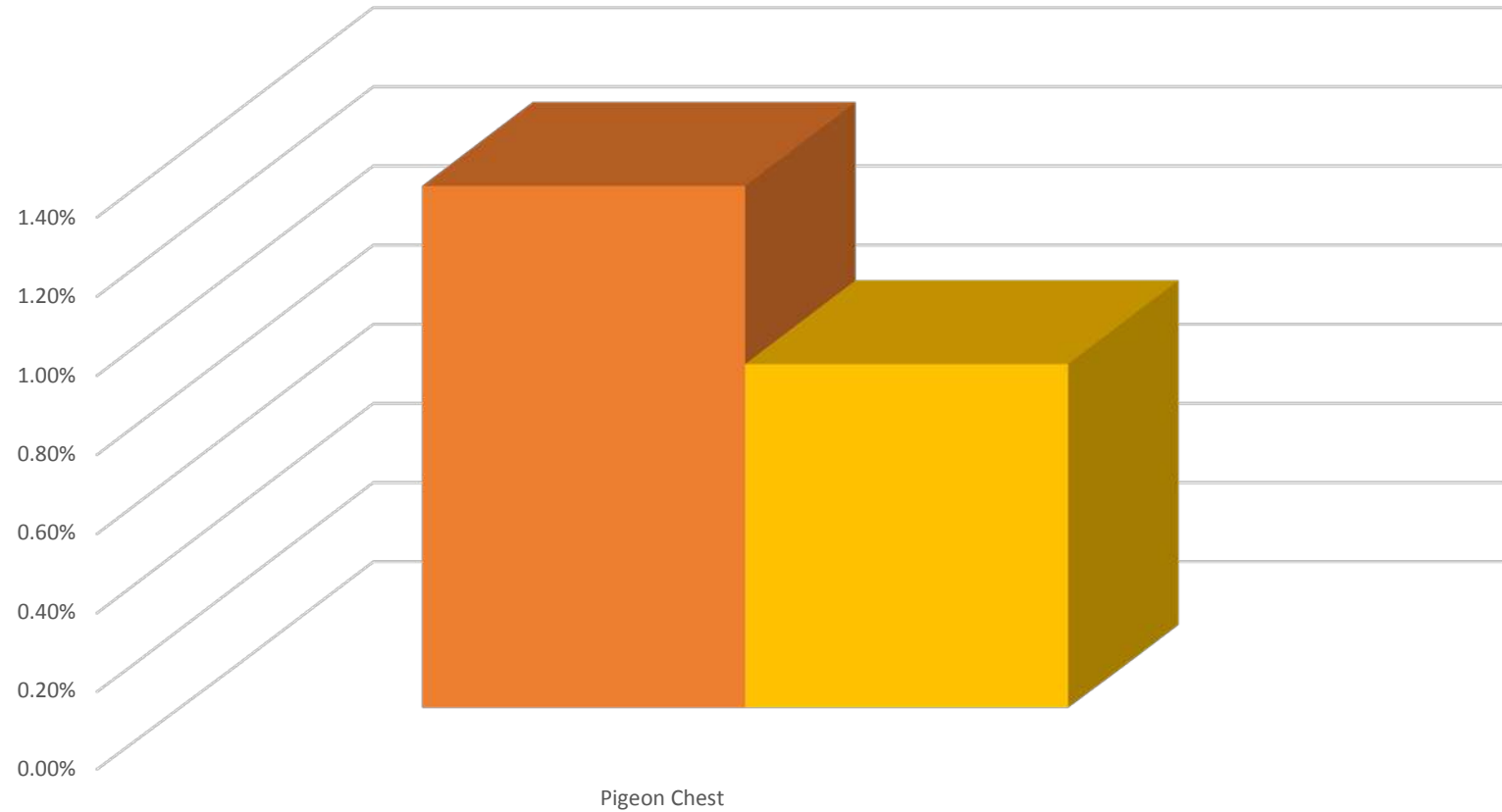
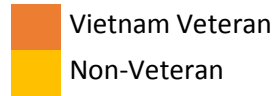
Muscle Defects

Cases percentage

	Vietnam Veteran Fathers	Non Veteran Fathers
Muscular Dystrophy	0.59%	0.37%
Hiatal Hernia	3.11%	1.30%
Fibromyalgia	1.83%	0.08%

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Chest Defects
Cases percentage

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National Birth Defects Registry – Children of Vietnam Veterans and Non-Veterans

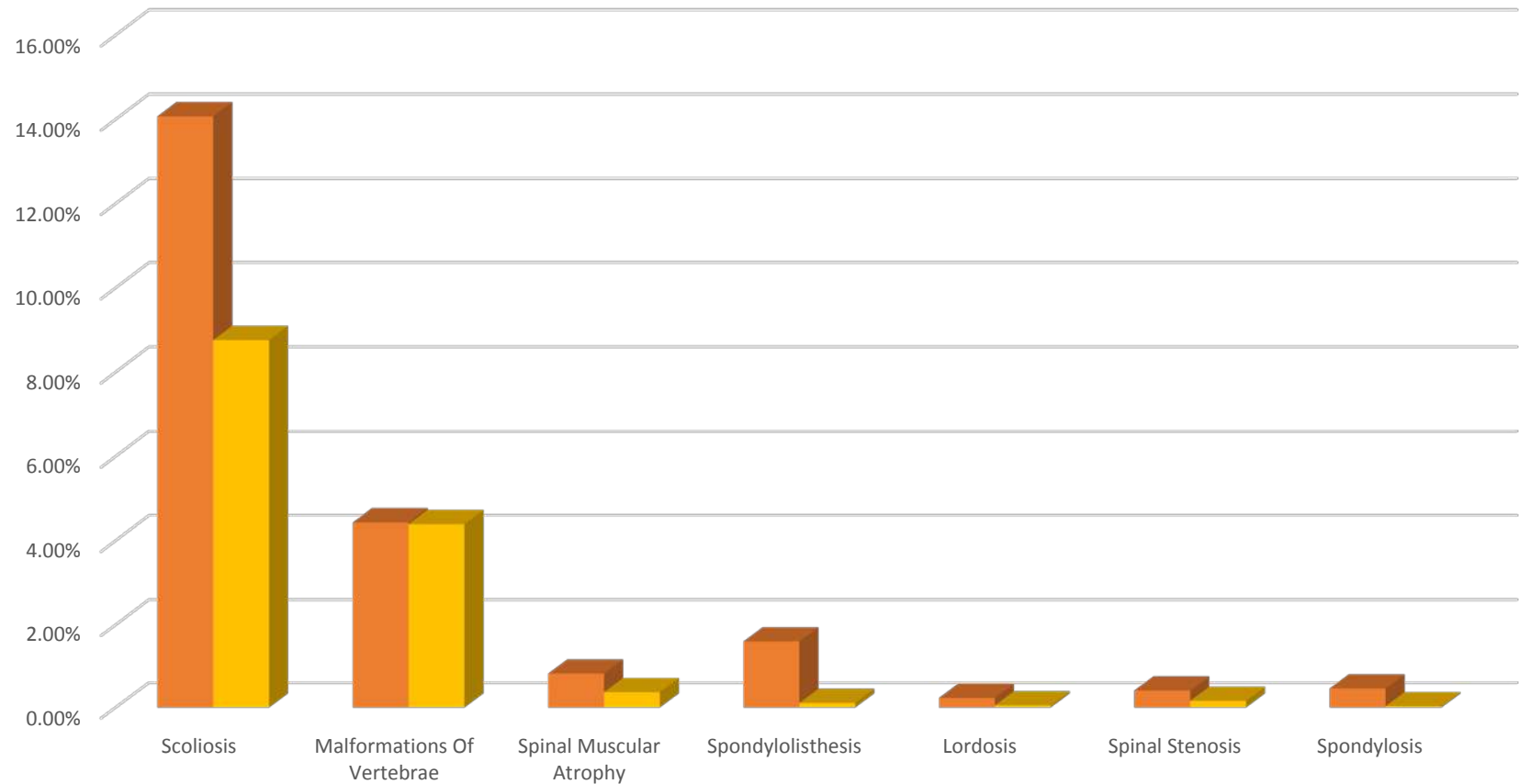
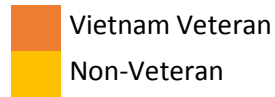
Chest Defects

Cases percentage

	Vietnam Veteran Fathers	Non Veteran Fathers
Pigeon Chest	1.32%	0.87%

Birth Defects Research for Children, Inc.

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Spine Defects
Cases percentage

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National Birth Defects Registry – Children of Vietnam Veterans and Non-Veterans



Spine Defects

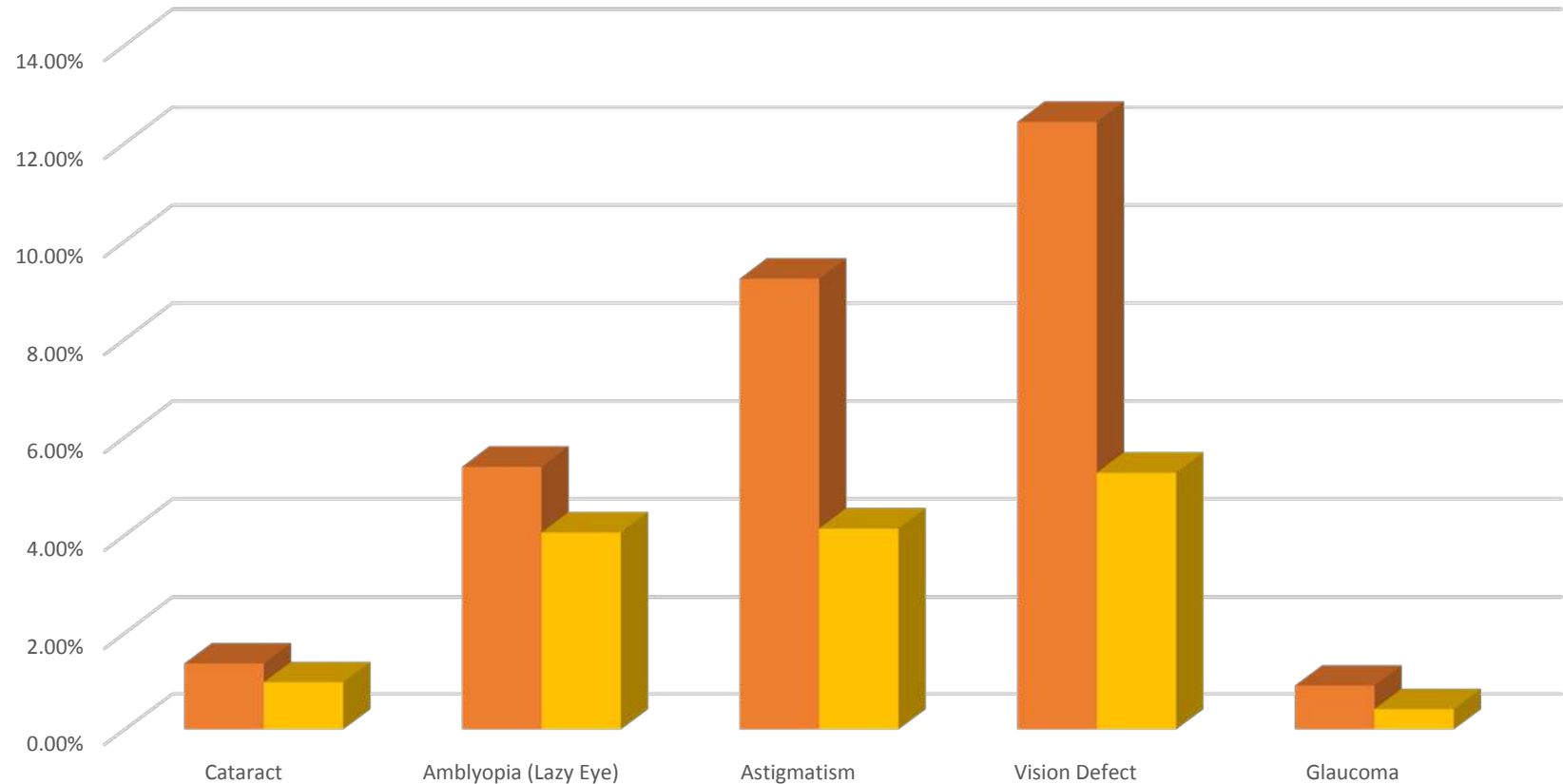
Cases percentage

	Vietnam Veteran Fathers	Non Veteran Fathers
Scoliosis	14.07%	8.76%
Malformations Of Vertebrae	4.43%	4.39%
Spinal Muscular Atrophy	0.82%	0.37%
Spondylolisthesis	1.60%	0.11%
Lordosis	0.23%	0.05%
Spinal Stenosis	0.41%	0.16%
Spondylosis	0.46%	0.03%

Birth Defects Research for Children, Inc.

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Eye Defects
Cases percentage

Birth Defects Research for Children, Inc.

National Birth Defects Registry – Children of Vietnam Veterans and Non-Veterans

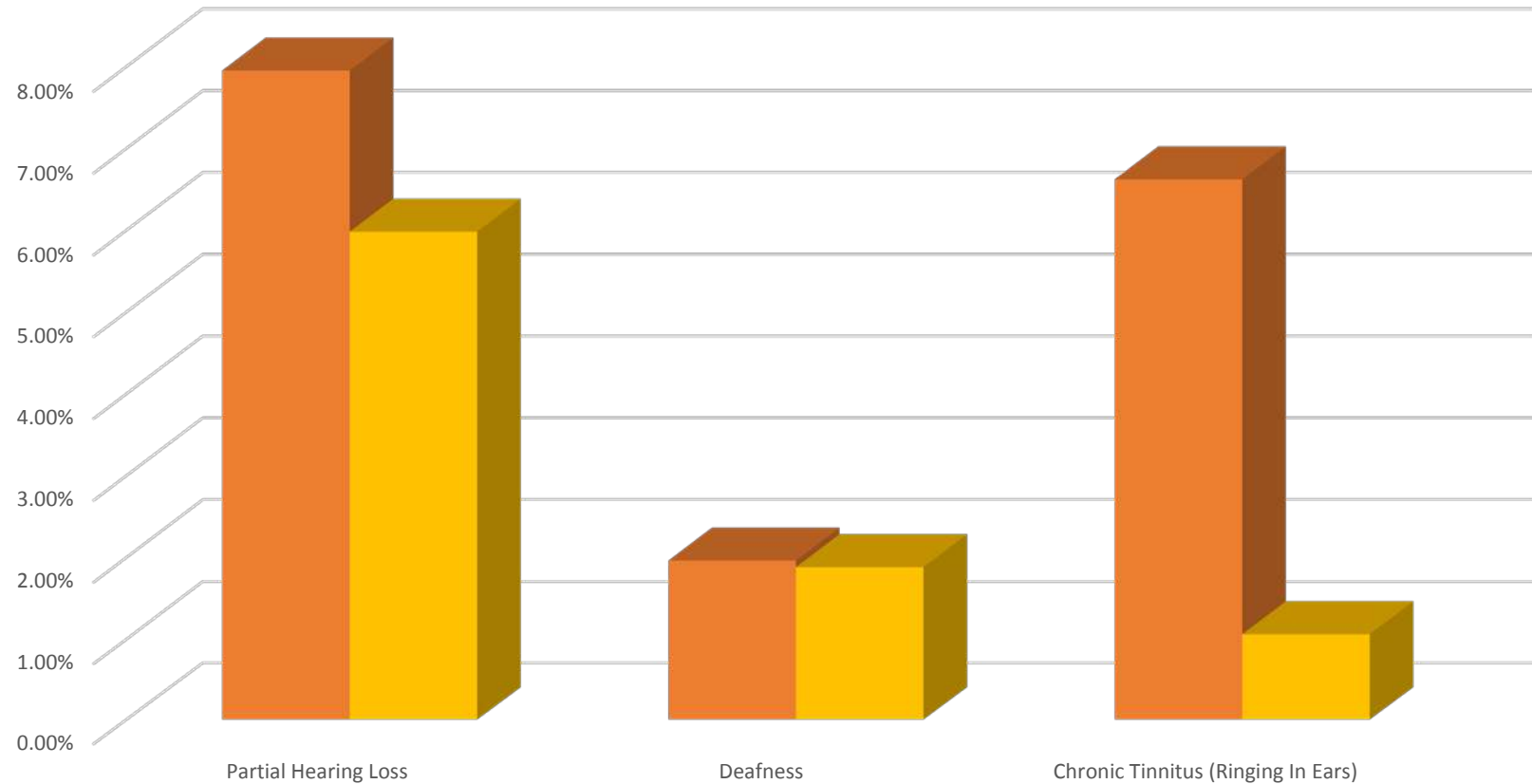
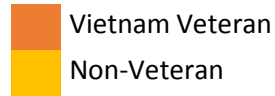
Eye Defects

Cases percentage

	Vietnam Veteran Fathers	Non Veteran Fathers
Cataract	1.37%	0.98%
Amblyopia (Lazy Eye)	5.39%	4.05%
Astigmatism	9.23%	4.13%
Vision Defect	12.43%	5.27%
Glaucoma	0.91%	0.42%

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Ear Defects
Cases percentage

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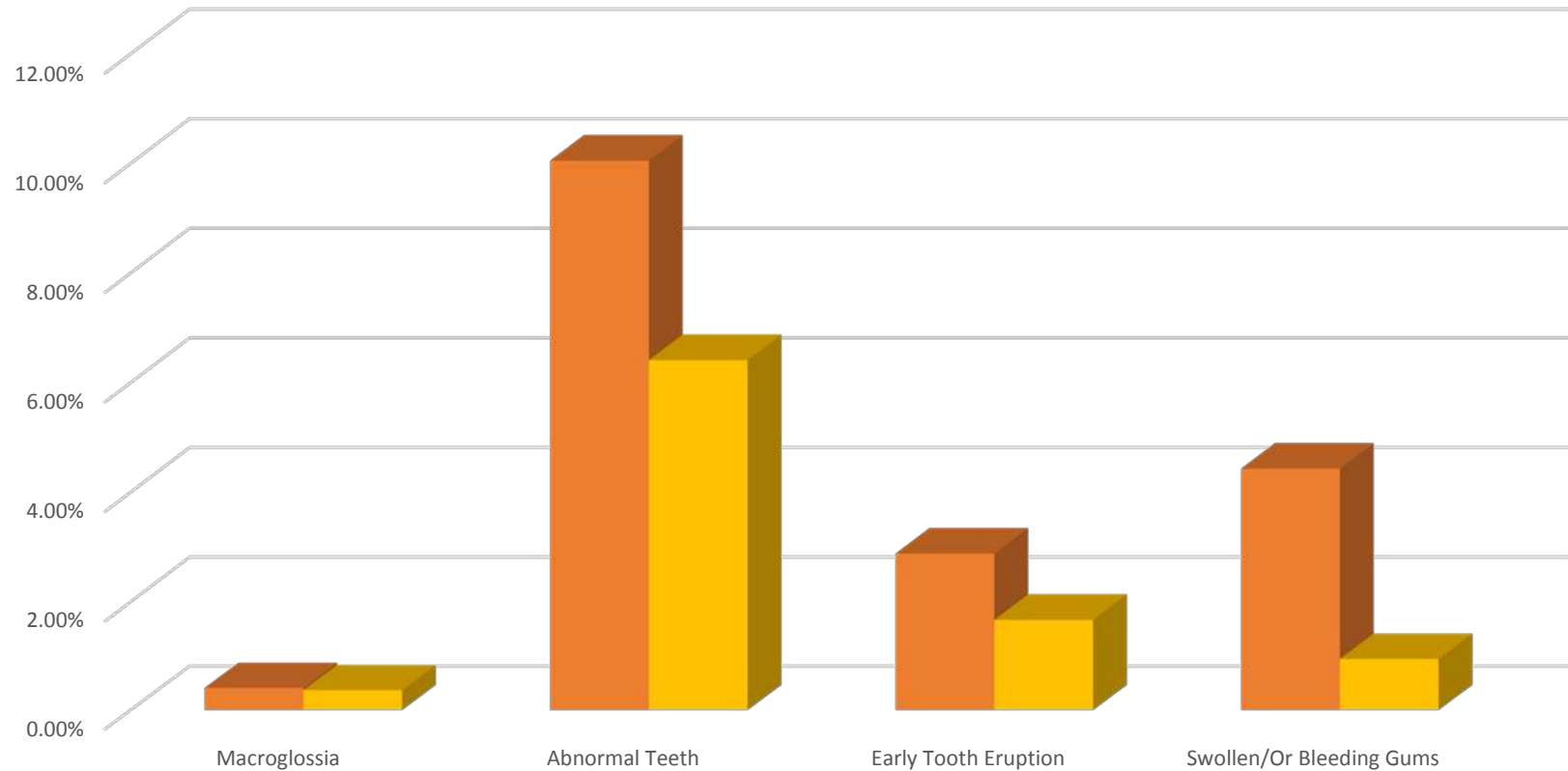
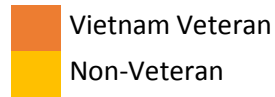
Ear Defects

Cases percentage

	Vietnam Veteran Fathers	Non Veteran Fathers
Partial Hearing Loss	7.95%	5.98%
Deafness	1.96%	1.88%
Chronic Tinnitus (Ringing In Ears)	6.62%	1.06%

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Cranial/Facial Defects

Cases percentage

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National Birth Defects Registry – Children of Vietnam Veterans and Non-Veterans

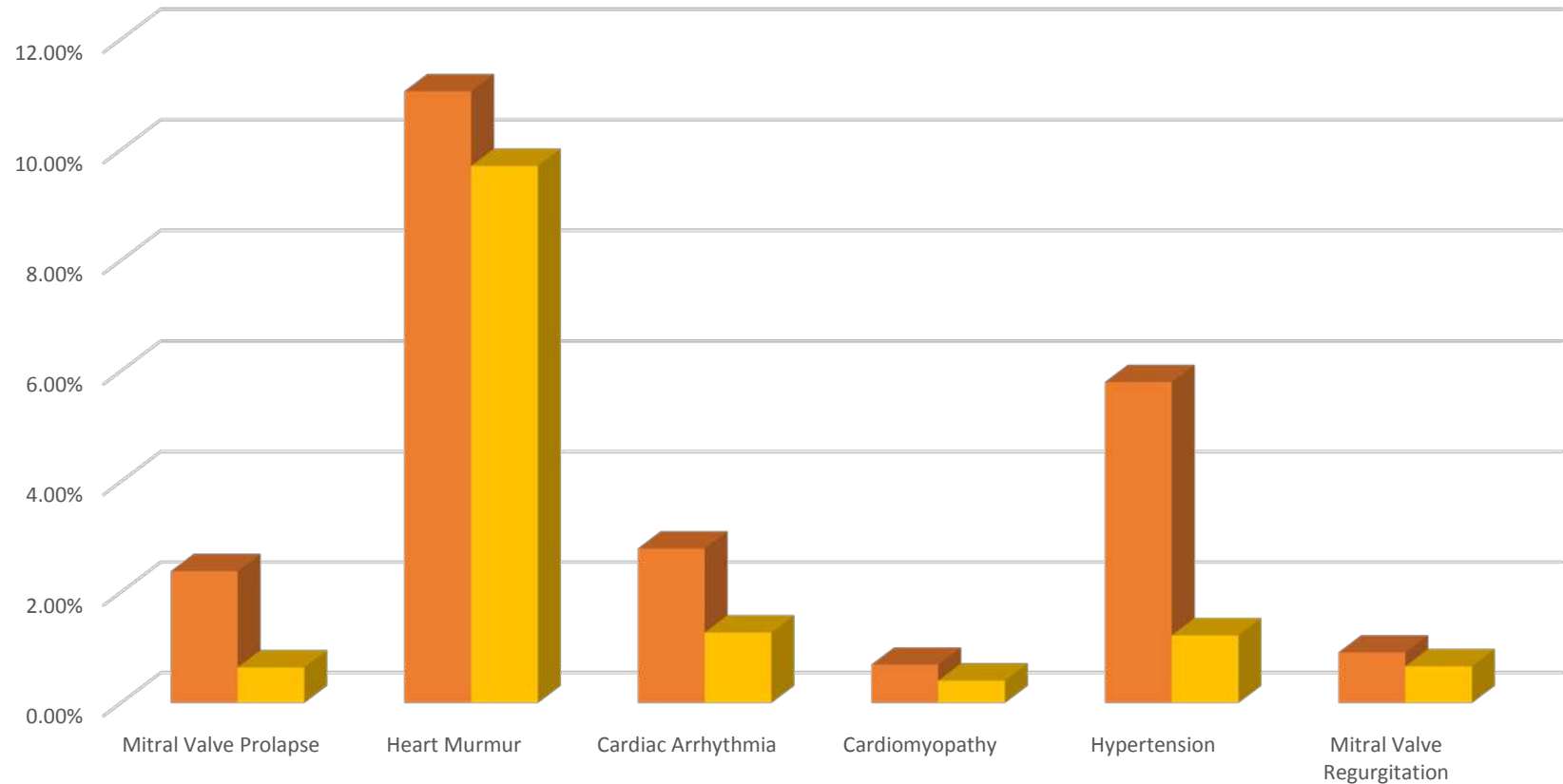
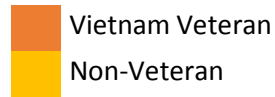
Cranial/Facial Defects

Cases percentage

	Vietnam Veteran Fathers	Non Veteran Fathers
Macroglossia	0.41%	0.37%
Abnormal Teeth	10.05%	6.41%
Early Tooth Eruption	2.88%	1.67%
Swollen/Or Bleeding Gums	4.43%	0.95%

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Cardiovascular Defects

Cases percentage

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National Birth Defects Registry – Children of Vietnam Veterans and Non-Veterans

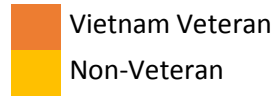
Cardiovascular Defects

Cases percentage

	Vietnam Veteran Fathers	Non Veteran Fathers
Mitral Valve Prolapse	2.38%	0.64%
Heart Murmur	11.06%	9.71%
Cardiac Arrhythmia	2.79%	1.27%
Cardiomyopathy	0.69%	0.40%
Hypertension	5.80%	1.22%
Mitral Valve Regurgitation	0.91%	0.66%

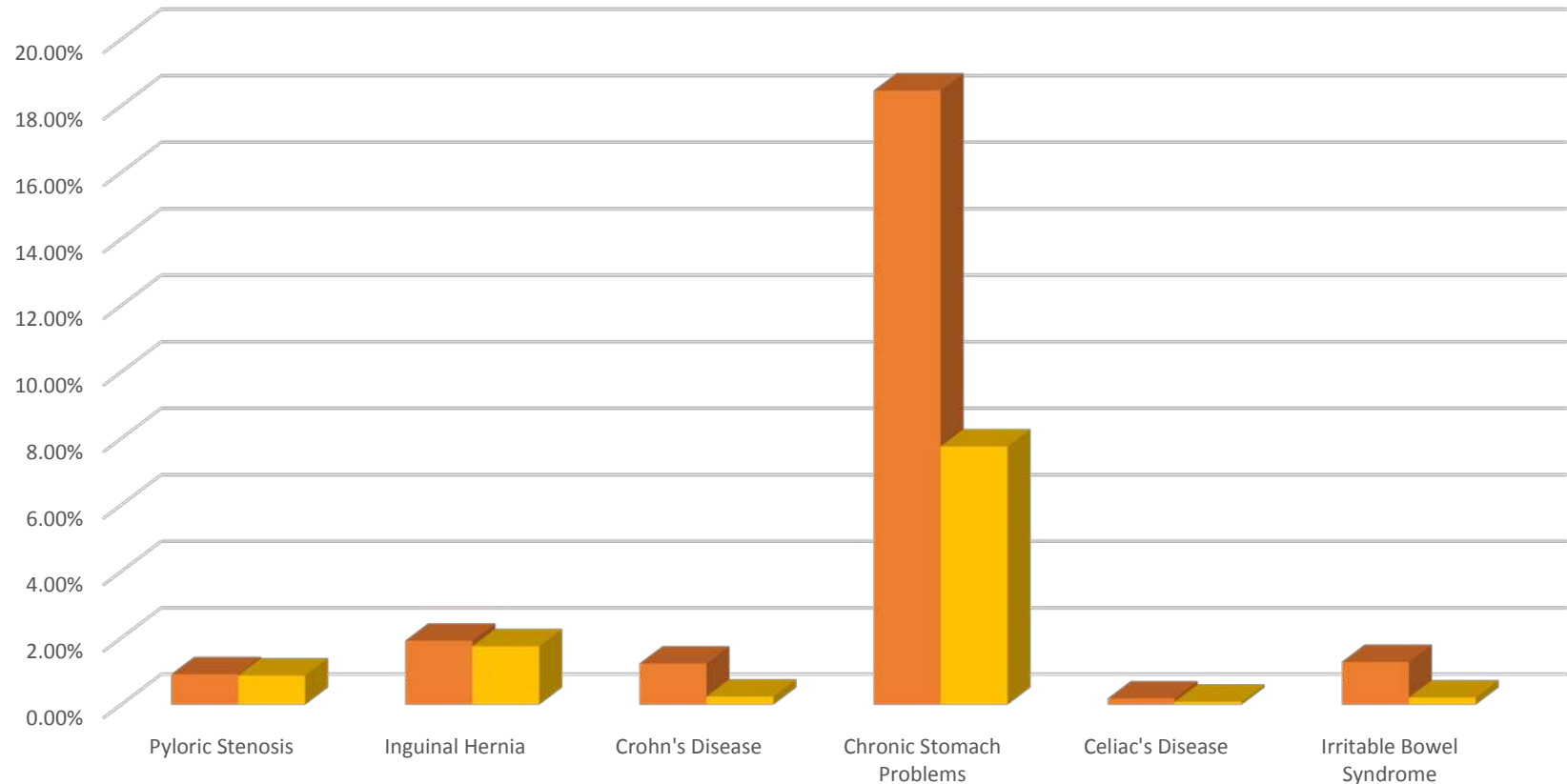
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Gastrointestinal Defects
Cases percentage

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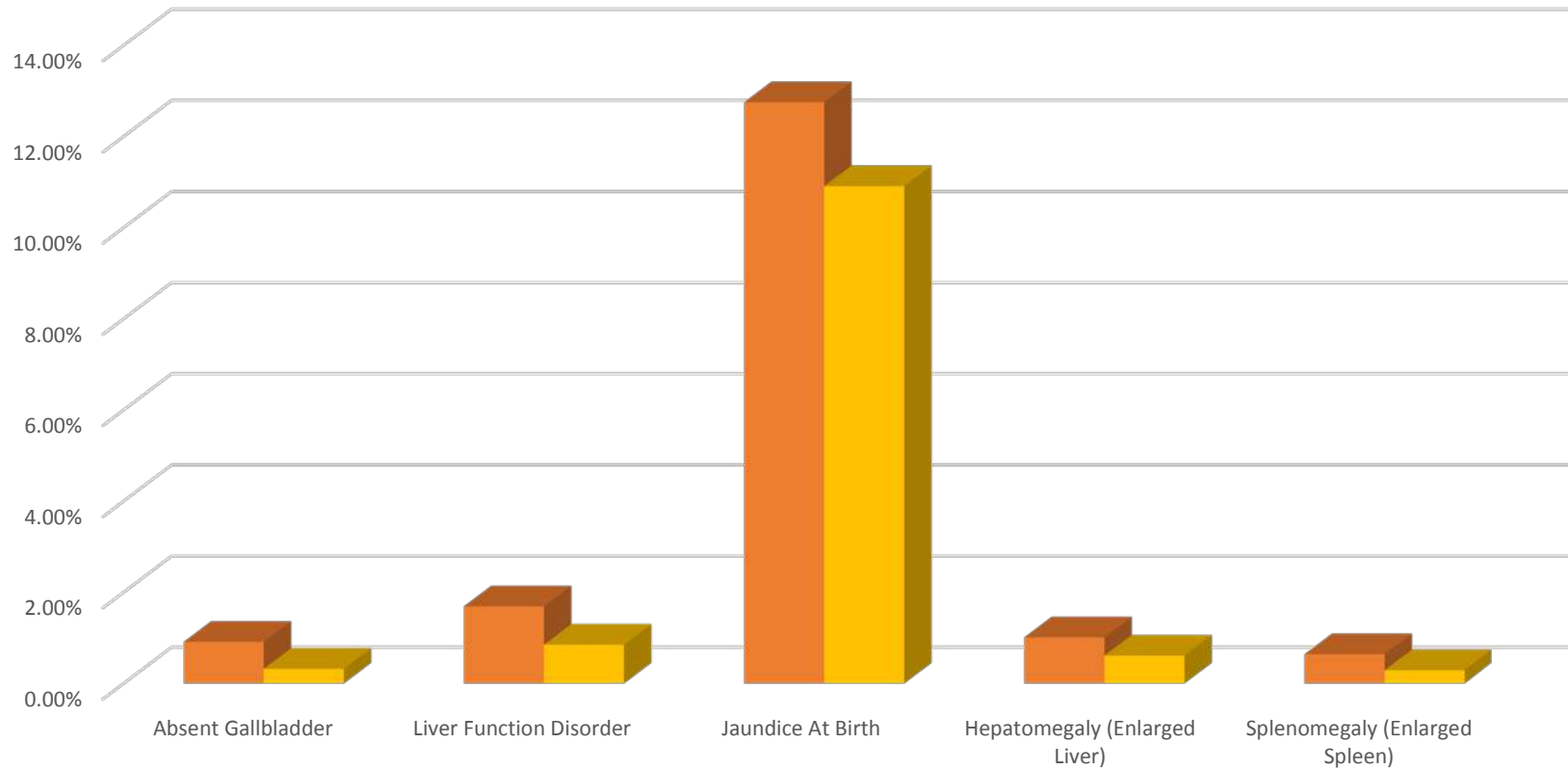
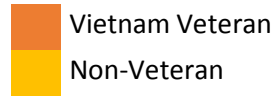
Gastrointestinal Defects

Cases percentage

	Vietnam Veteran Fathers	Non Veteran Fathers
Pyloric Stenosis	0.91%	0.87%
Inguinal Hernia	1.92%	1.75%
Crohn's Disease	1.23%	0.24%
Chronic Stomach Problems	18.46%	7.76%
Celiac's Disease	0.18%	0.08%
Irritable Bowel Syndrome	1.28%	0.21%

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Liver/Bile Duct/Spleen Defects
Cases percentage

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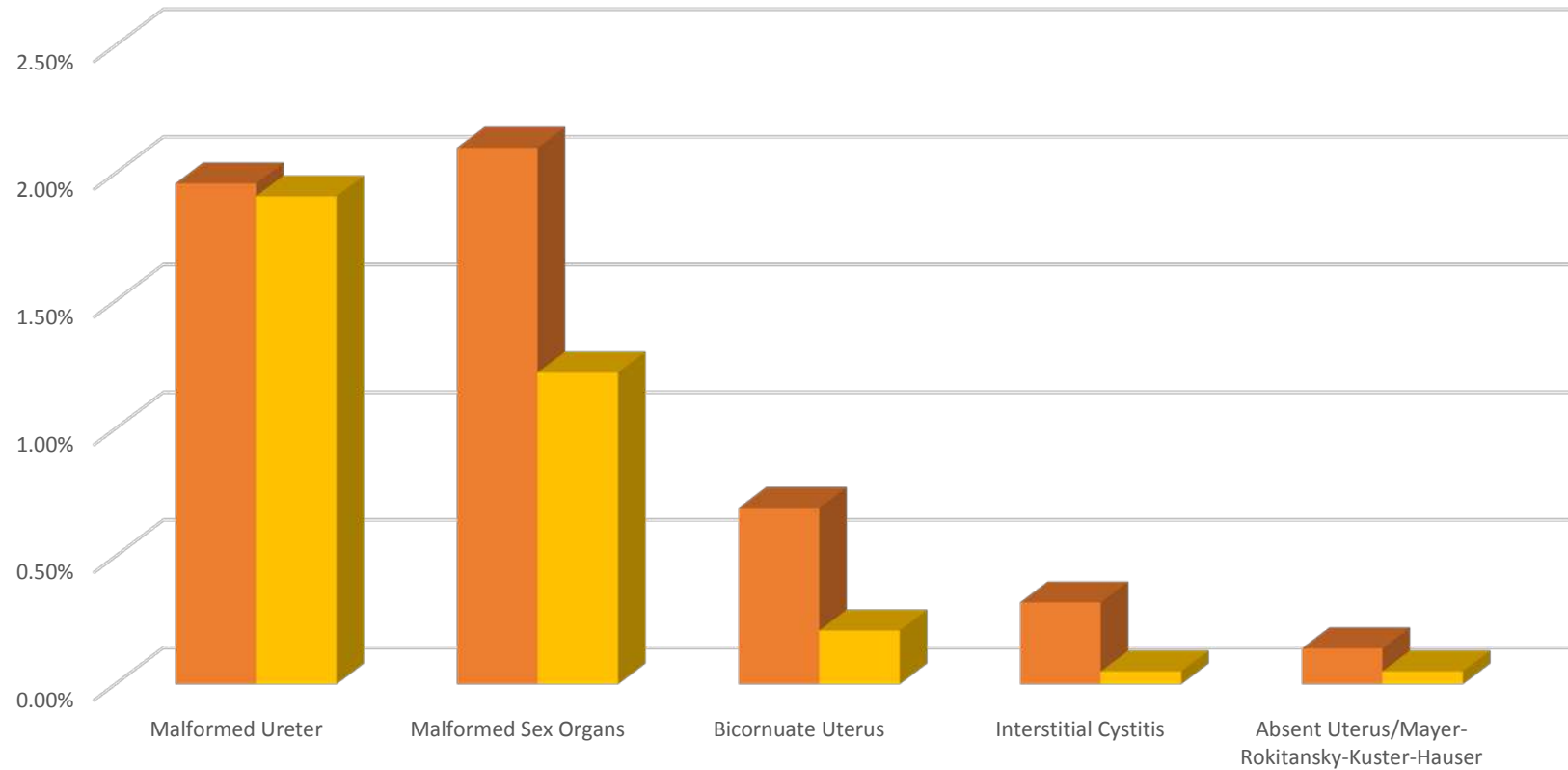
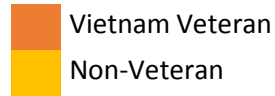
Liver/Bile Duct/Spleen Defects

Cases percentage

	Vietnam Veteran Fathers	Non Veteran Fathers
Absent Gallbladder	0.91%	0.32%
Liver Function Disorder	1.69%	0.85%
Jaundice At Birth	12.75%	10.91%
Hepatomegaly (Enlarged Liver)	1.01%	0.61%
Splenomegaly (Enlarged Spleen)	0.64%	0.29%

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Genitourinary Defects

Cases percentage

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National Birth Defects Registry – Children of Vietnam Veterans and Non-Veterans

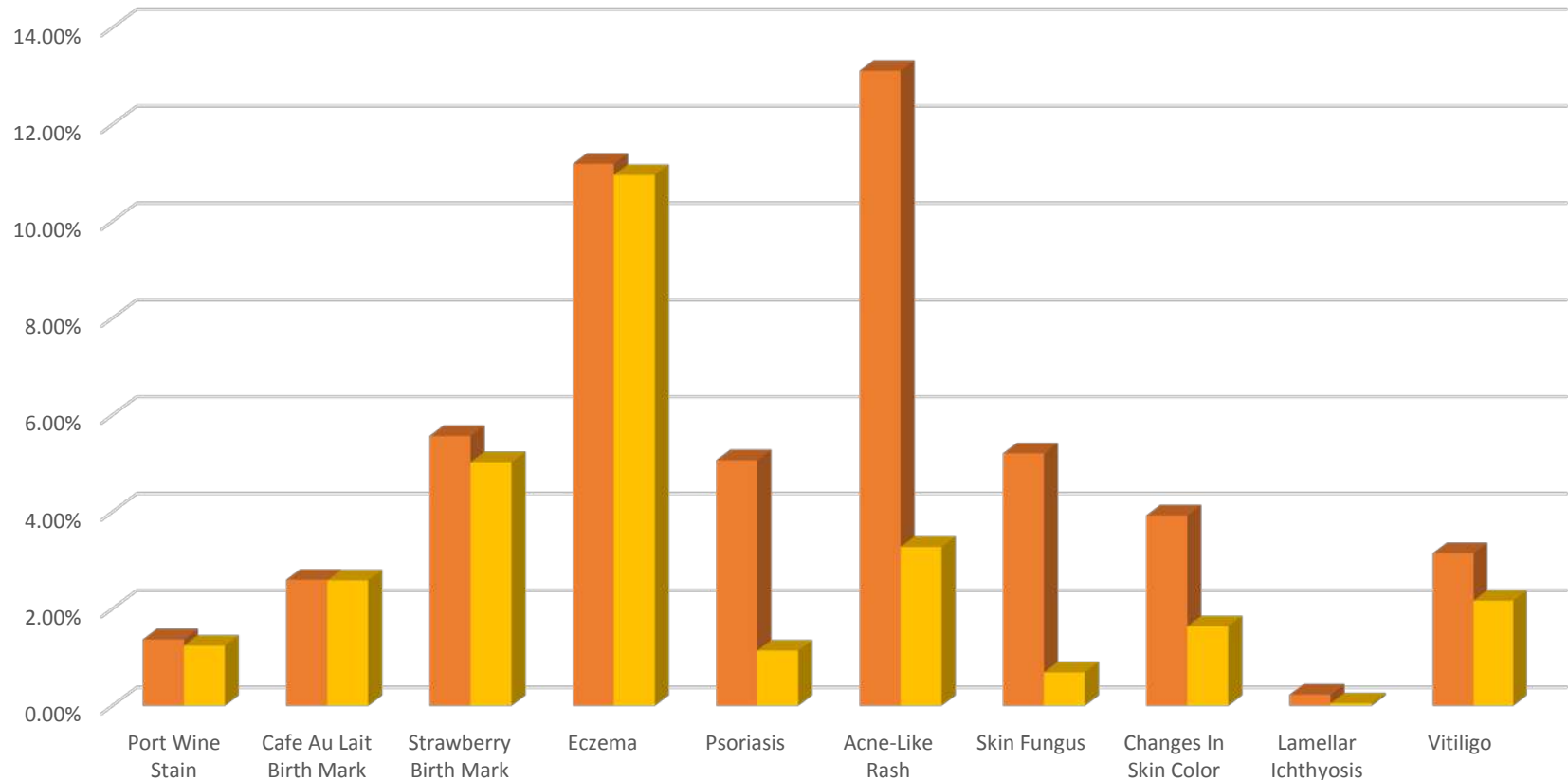
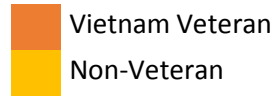
Genitourinary Defects

Cases percentage

	Vietnam Veteran Fathers	Non Veteran Fathers
Malformed Ureter	1.96%	1.91%
Malformed Sex Organs	2.10%	1.22%
Bicornuate Uterus	0.69%	0.21%
Interstitial Cystitis	0.32%	0.05%
Absent Uterus/Mayer- Rokitansky-Kuster-Hauser	0.14%	0.05%

Birth Defects Research for Children, Inc.

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Skin Defects
Cases percentage

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National Birth Defects Registry – Children of Vietnam Veterans and Non-Veterans



Skin Defects

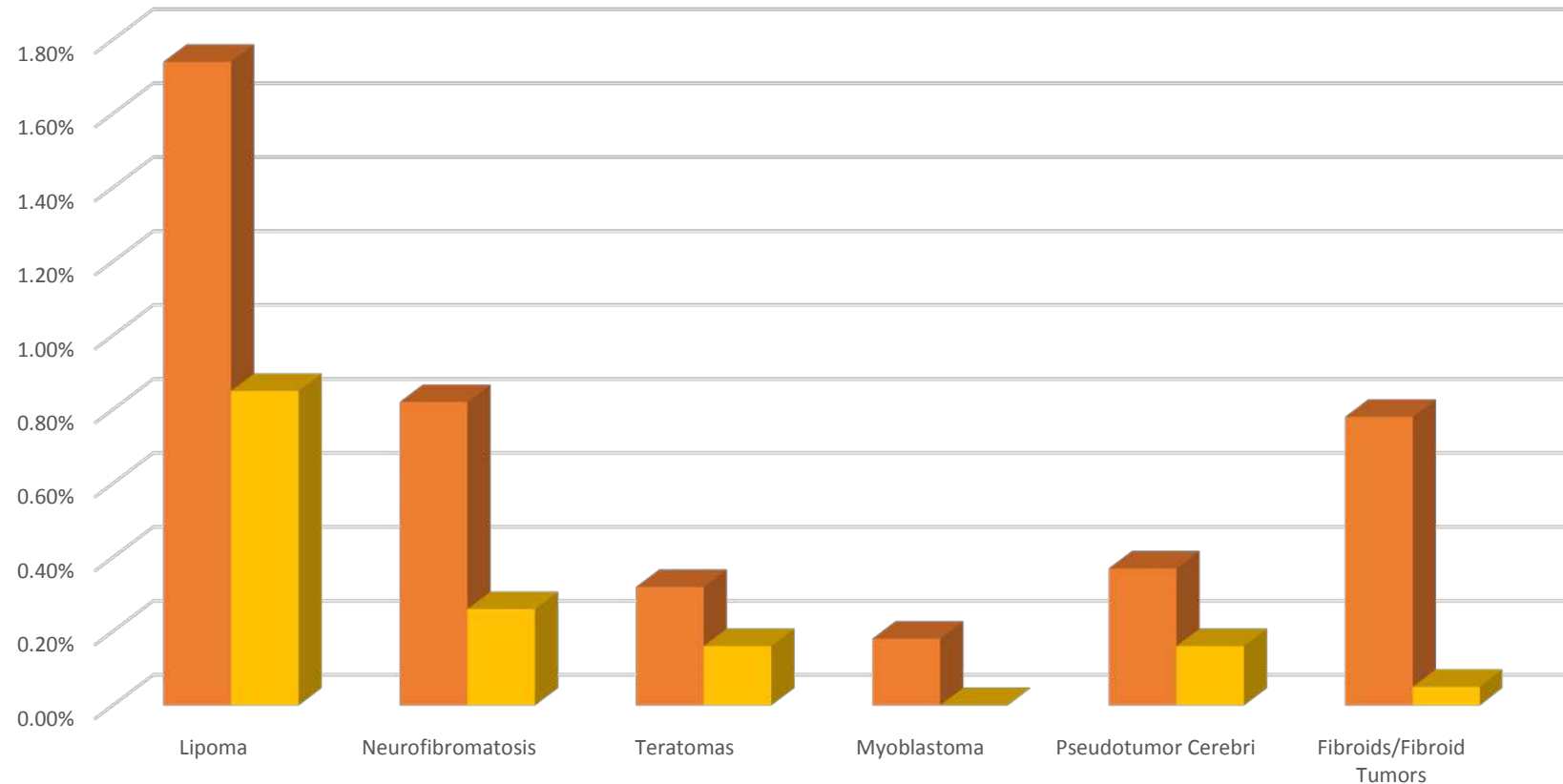
Cases percentage

	Vietnam Veteran Fathers	Non Veteran Fathers
Port Wine Stain	1.37%	1.24%
Cafe Au Lait Birth Mark	2.60%	2.59%
Strawberry Birth Mark	5.57%	5.03%
Eczema	11.19%	10.96%
Psoriasis	5.07%	1.14%
Acne-Like Rash	13.11%	3.28%
Skin Fungus	5.21%	0.69%
Changes In Skin Color	3.93%	1.64%
Lamellar Ichthyosis	0.23%	0.05%
Vitiligo	3.15%	2.17%

Birth Defects Research for Children, Inc.

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 Non-Veteran



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Tumors (Benign)

Cases percentage

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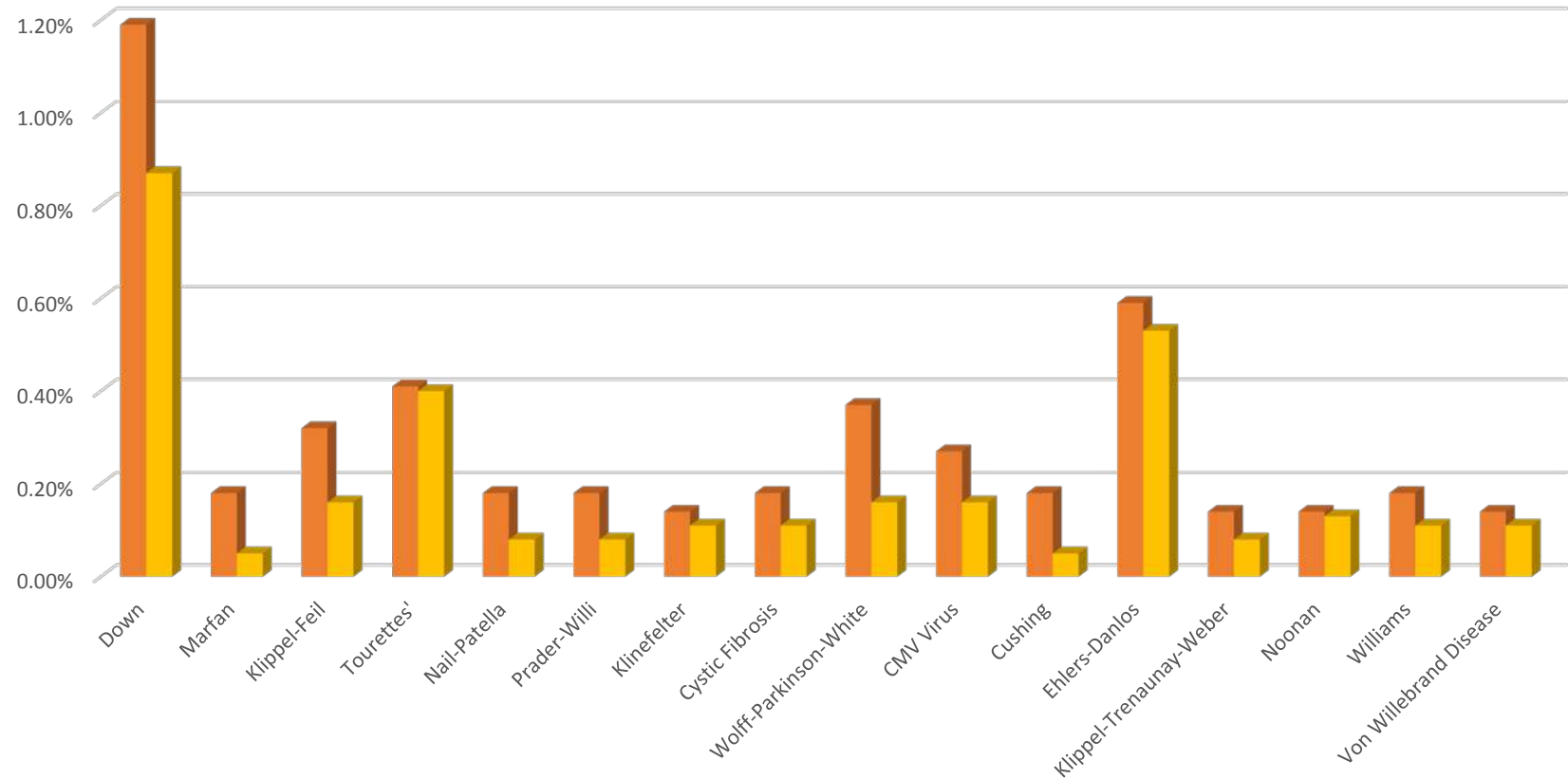
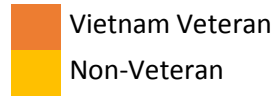
Tumors (Benign)

Cases percentage

	Vietnam Veteran Fathers	Non Veteran Fathers
Lipoma	1.74%	0.85%
Neurofibromatosis	0.82%	0.26%
Teratomas	0.32%	0.16%
Myoblastoma	0.18%	0.00%
Pseudotumor Cerebri	0.37%	0.16%
Fibroids/Fibroid Tumors	0.78%	0.05%

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Syndromes
Cases percentage

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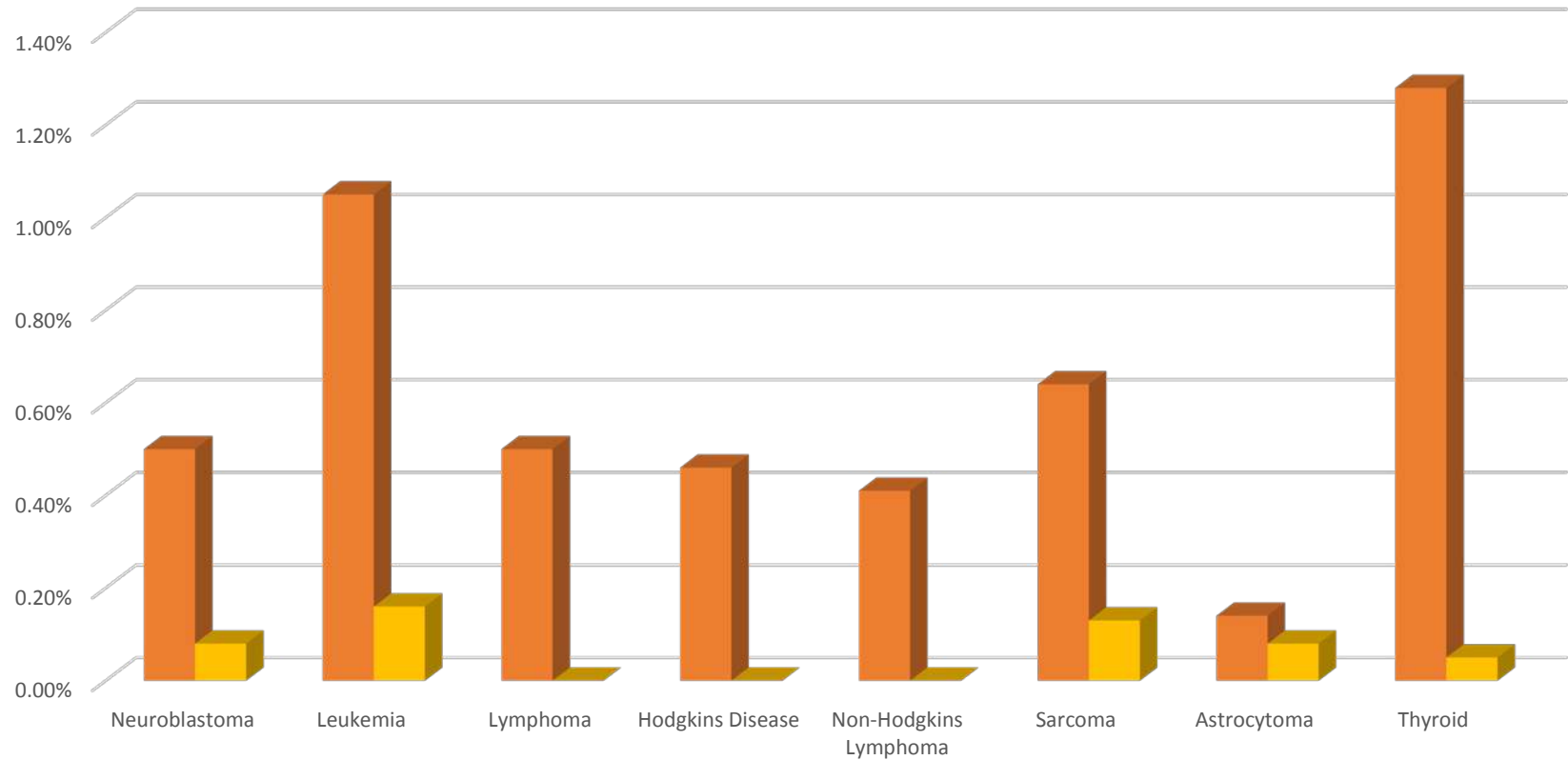
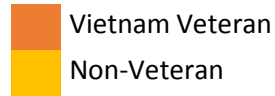
Syndromes

Cases percentage

	Vietnam Veteran Fathers	Non Veteran Fathers
Down	1.19%	0.87%
Marfan	0.18%	0.05%
Klippel-Feil	0.32%	0.16%
Tourettes'	0.41%	0.40%
Nail-Patella	0.18%	0.08%
Prader-Willi	0.18%	0.08%
Klinefelter	0.14%	0.11%
Cystic Fibrosis	0.18%	0.11%
Wolff-Parkinson-White	0.37%	0.16%
CMV Virus	0.27%	0.16%
Cushing	0.18%	0.05%
Ehlers-Danlos	0.59%	0.53%
Klippel-Trenaunay-Weber	0.14%	0.08%
Noonan	0.14%	0.13%
Williams	0.18%	0.11%
Von Willebrand Disease	0.14%	0.11%

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Cancer
Cases percentage

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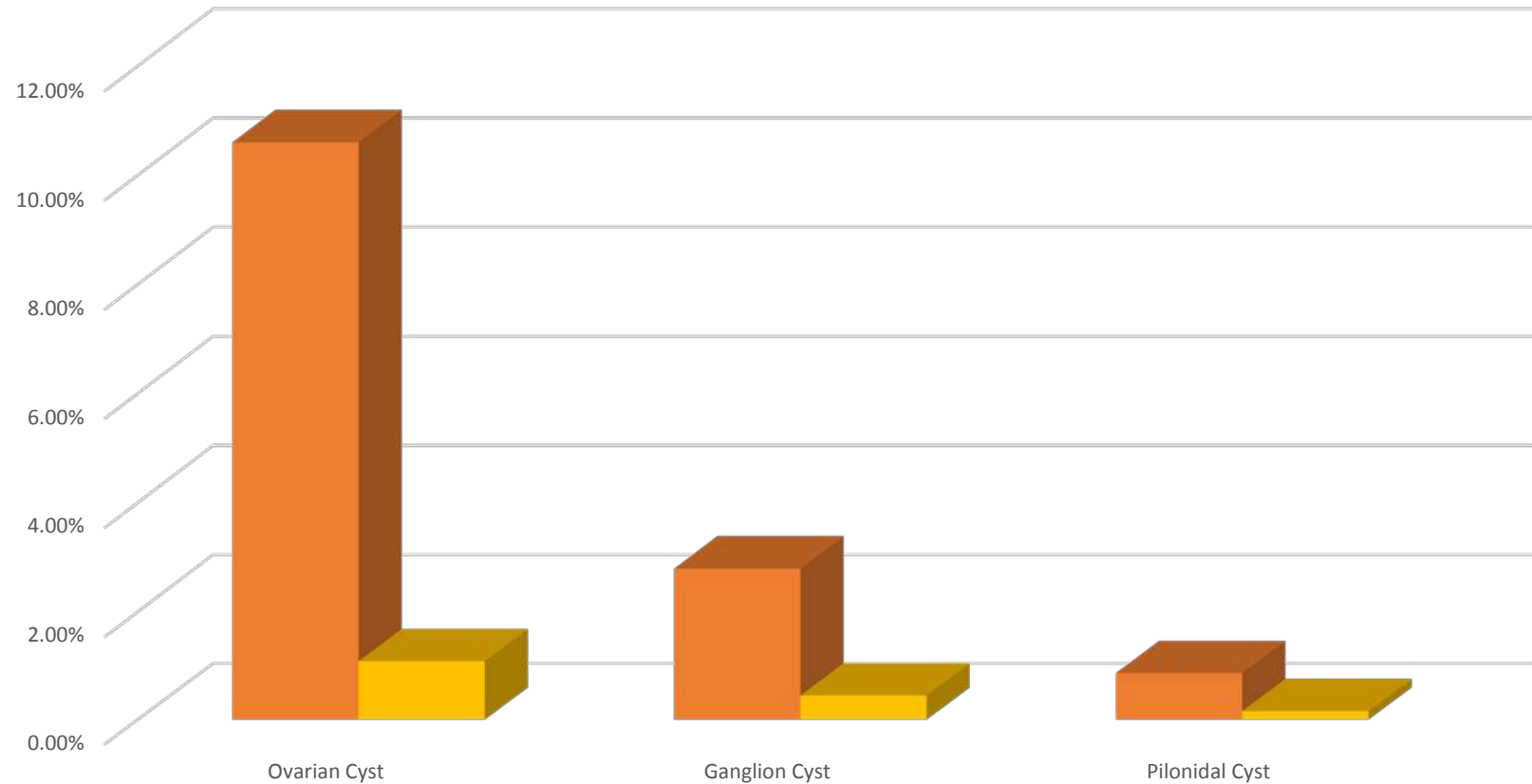
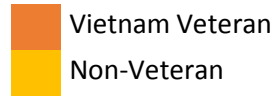
Cancer

Cases percentage

	Vietnam Veteran Fathers	Non Veteran Fathers
Neuroblastoma	0.50%	0.08%
Leukemia	1.05%	0.16%
Lymphoma	0.50%	0.00%
Hodgkins Disease	0.46%	0.00%
Non-Hodgkins Lymphoma	0.41%	0.00%
Sarcoma	0.64%	0.13%
Astrocytoma	0.14%	0.08%
Thyroid	1.28%	0.05%

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Cysts
Cases percentage

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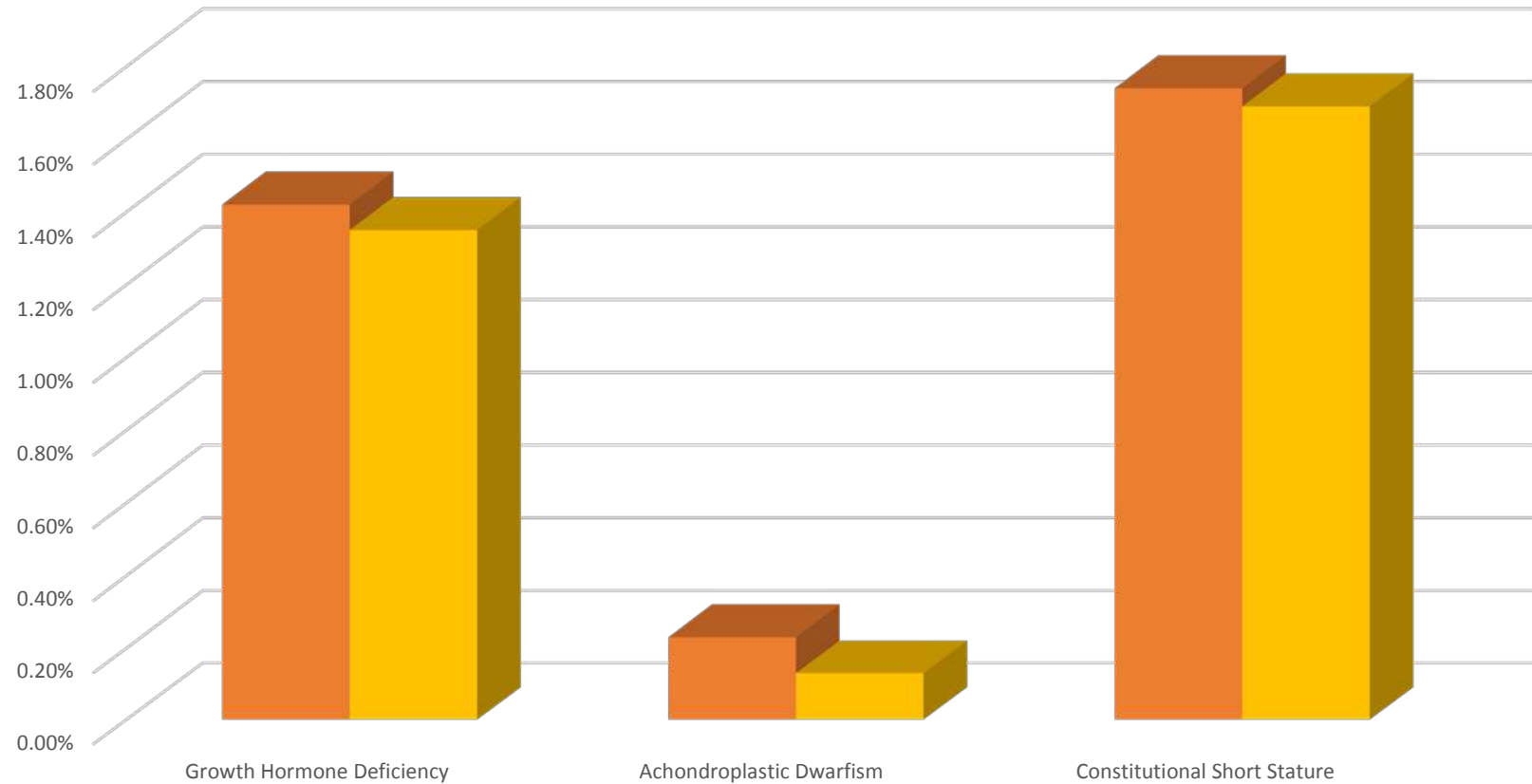
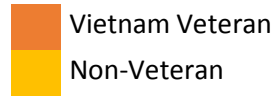
Cysts

Cases percentage

	Vietnam Veteran Fathers	Non Veteran Fathers
Ovarian Cyst	10.60%	1.09%
Ganglion Cyst	2.79%	0.45%
Pilonidal Cyst	0.87%	0.16%

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Growth Disorders
Cases percentage

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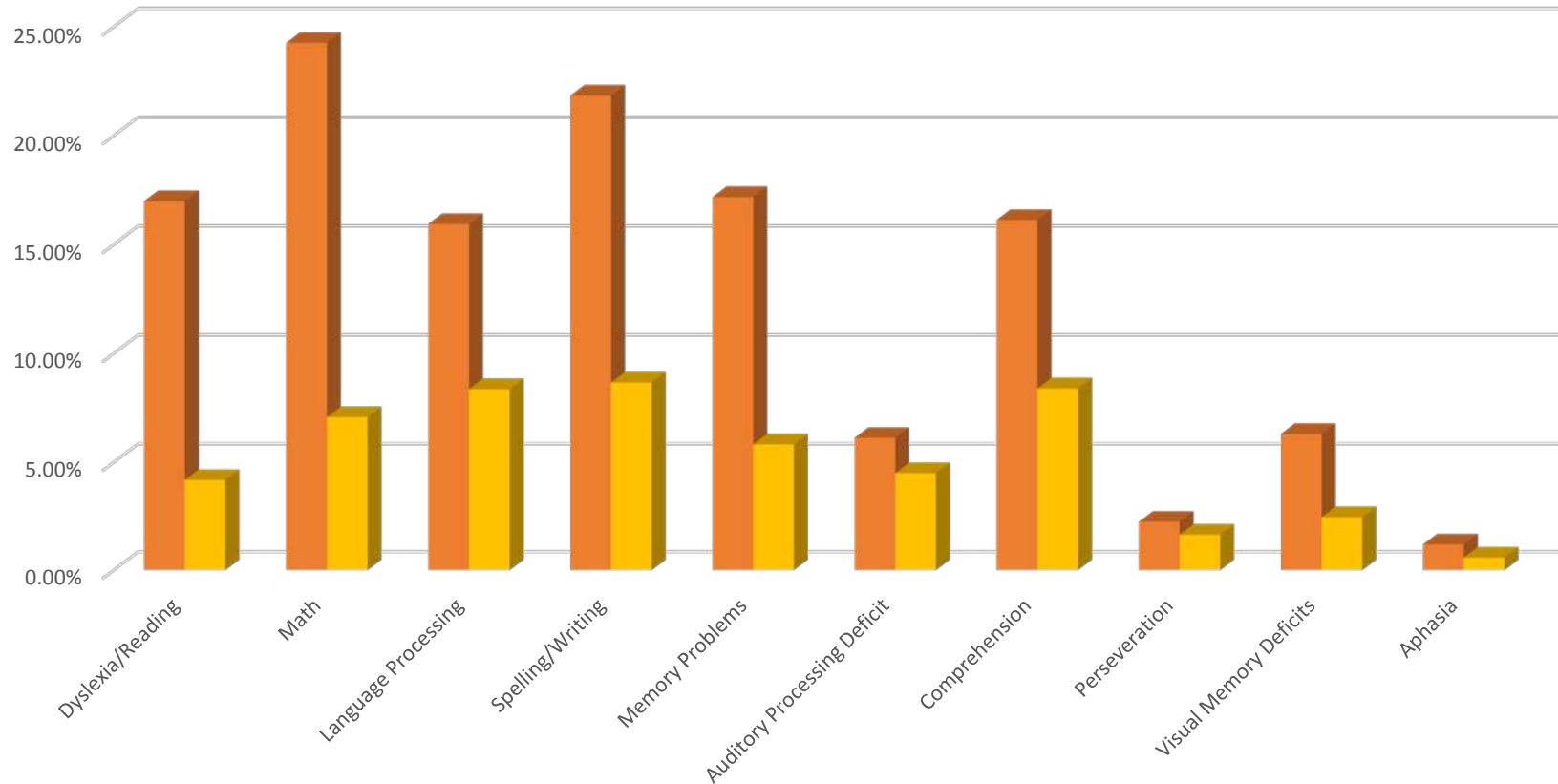
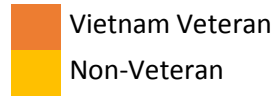
Growth Disorders

Cases percentage

	Vietnam Veteran Fathers	Non Veteran Fathers
Growth Hormone Deficiency	1.42%	1.35%
Achondroplastic Dwarfism	0.23%	0.13%
Constitutional Short Stature	1.74%	1.69%

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Learning Disabilities

Cases percentage

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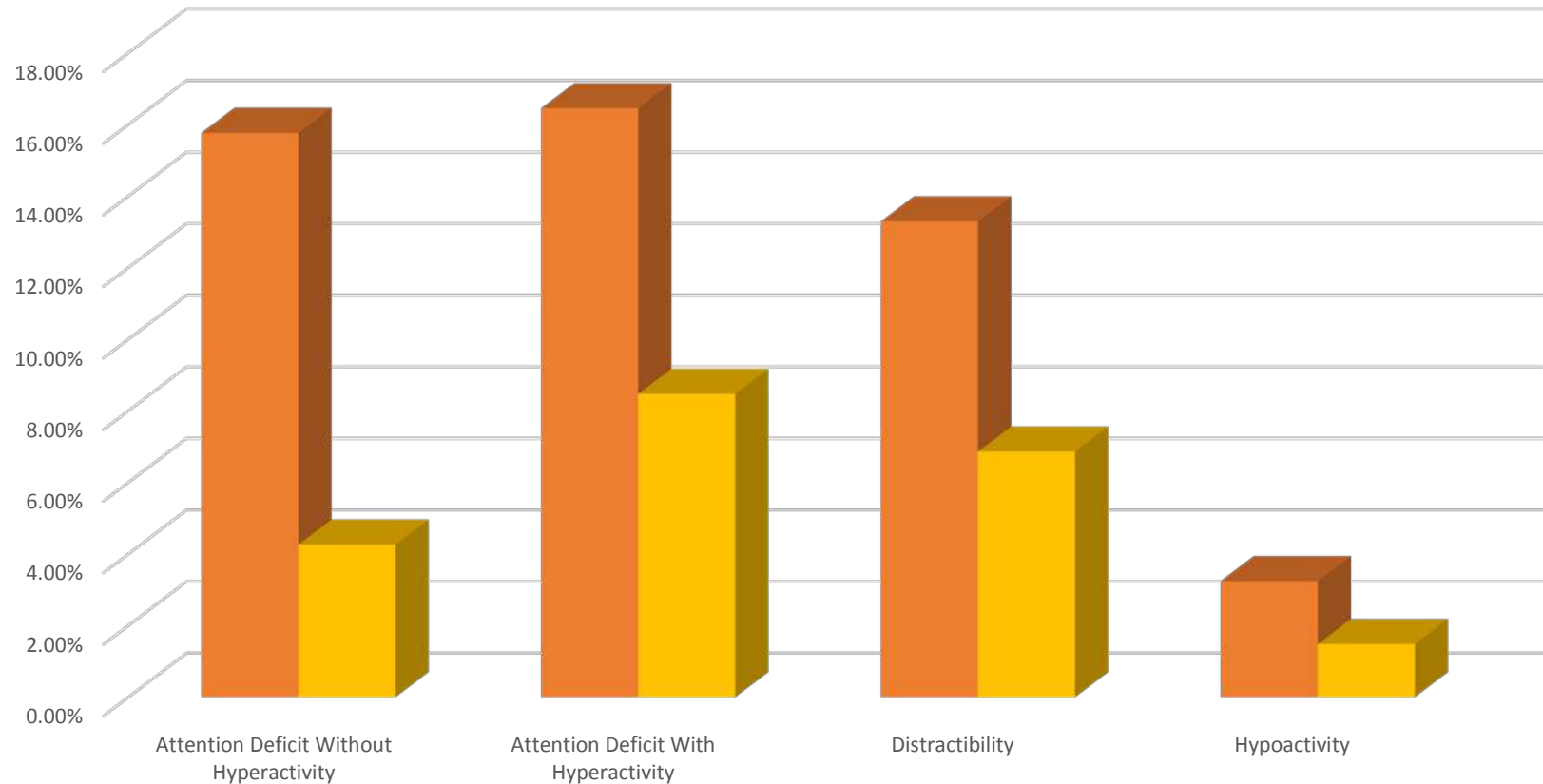
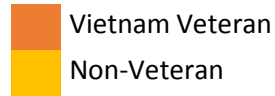
Learning Disabilities

Cases percentage

	Vietnam Veteran Fathers	Non Veteran Fathers
Dyslexia/Reading	16.99%	4.18%
Math	24.26%	7.07%
Language Processing	15.94%	8.36%
Spelling/Writing	21.84%	8.66%
Memory Problems	17.18%	5.82%
Auditory Processing Deficit	6.12%	4.50%
Comprehension	16.13%	8.39%
Perseveration	2.24%	1.64%
Visual Memory Deficits	6.30%	2.46%
Aphasia	1.19%	0.58%

Birth Defects Research for Children, Inc.

National Birth Defects Registry – Children of Vietnam Veterans and Non-Veterans



Total Participants: **5967**

Vietnam Veteran Fathers: **2189**

Non-Veteran Fathers: **3778**

Query: 02/14/2019

Attention Deficit/Activity Disorders

Cases percentage

Birth Defects Research for Children, Inc.

National Birth Defects Registry – Children of Vietnam Veterans and Non-Veterans

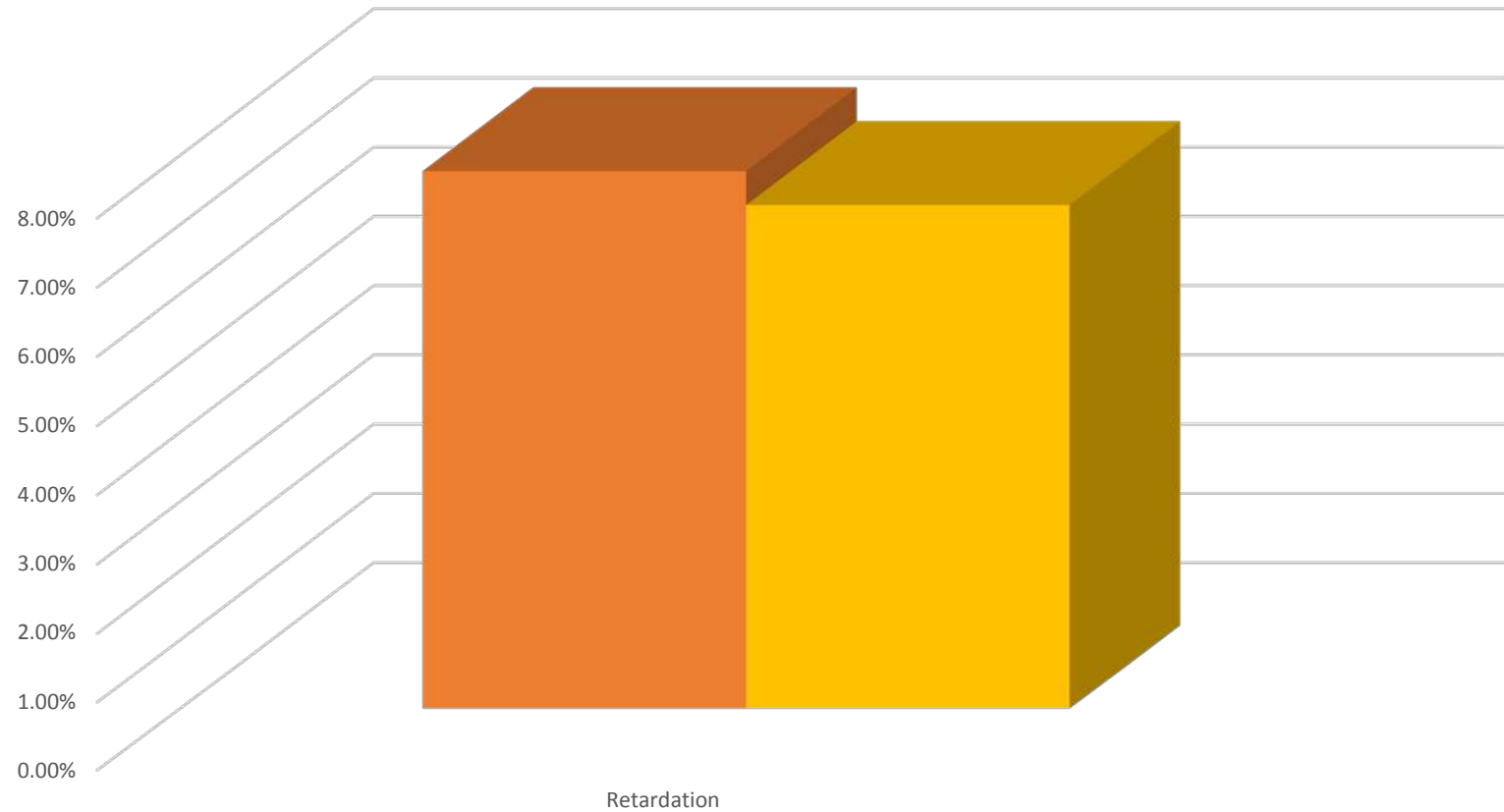
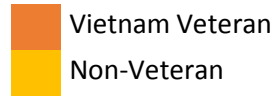
Attention Deficit/Activity Disorders

Cases percentage

	Vietnam Veteran Fathers	Non Veteran Fathers
Attention Deficit Without Hyperactivity	15.76%	4.26%
Attention Deficit With Hyperactivity	16.45%	8.47%
Distractibility	13.29%	6.86%
Hypoactivity	3.24%	1.48%

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Developmental Delay

Cases percentage

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Developmental Delay

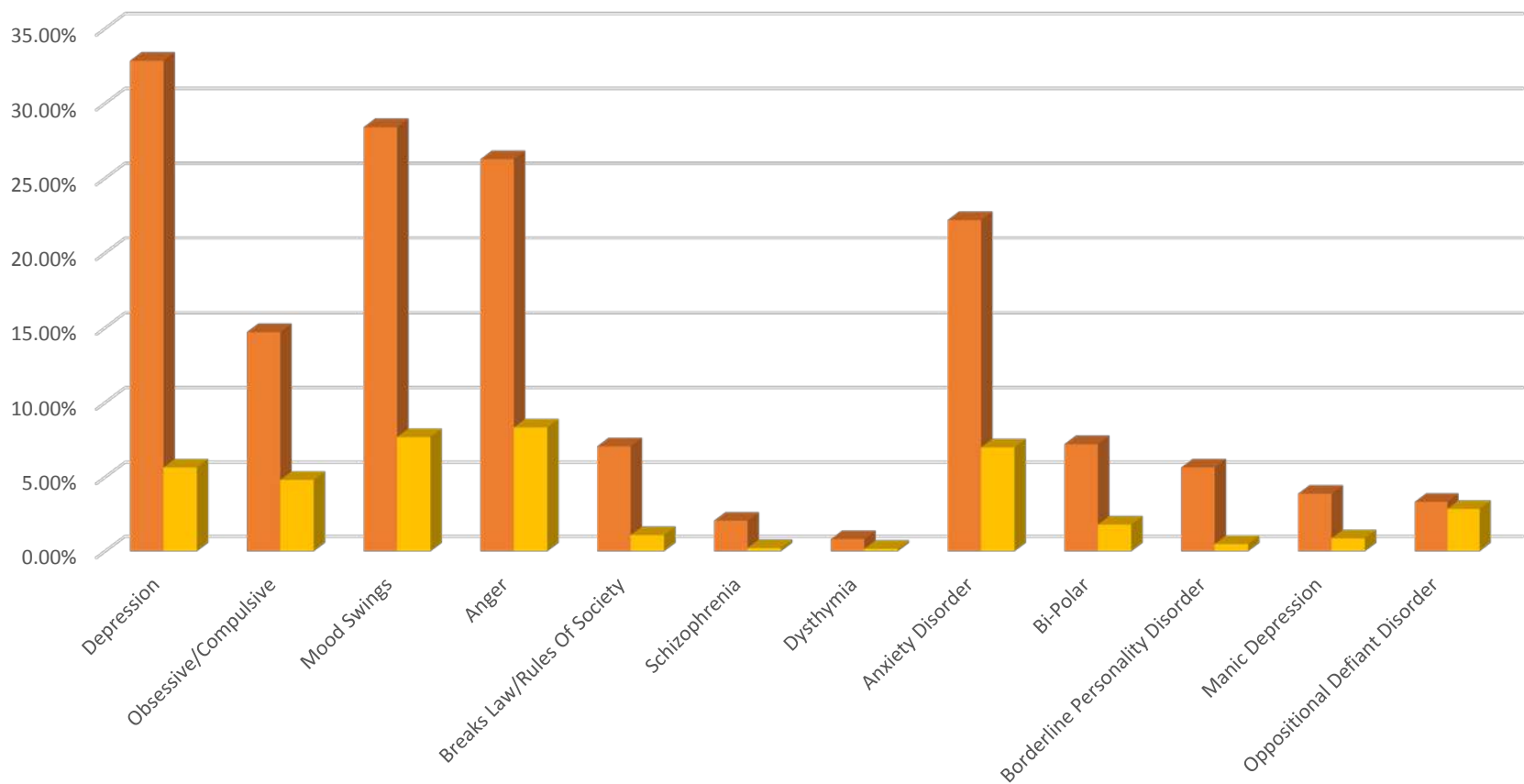
Cases percentage

	Vietnam Veteran Fathers	Non Veteran Fathers
Retardation	7.77%	7.28%

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Vietnam Veteran
Non-Veteran



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Emotional/Behavioral
Cases percentage

Birth Defects Research for Children, Inc.

National Birth Defects Registry – Children of Vietnam Veterans and Non-Veterans

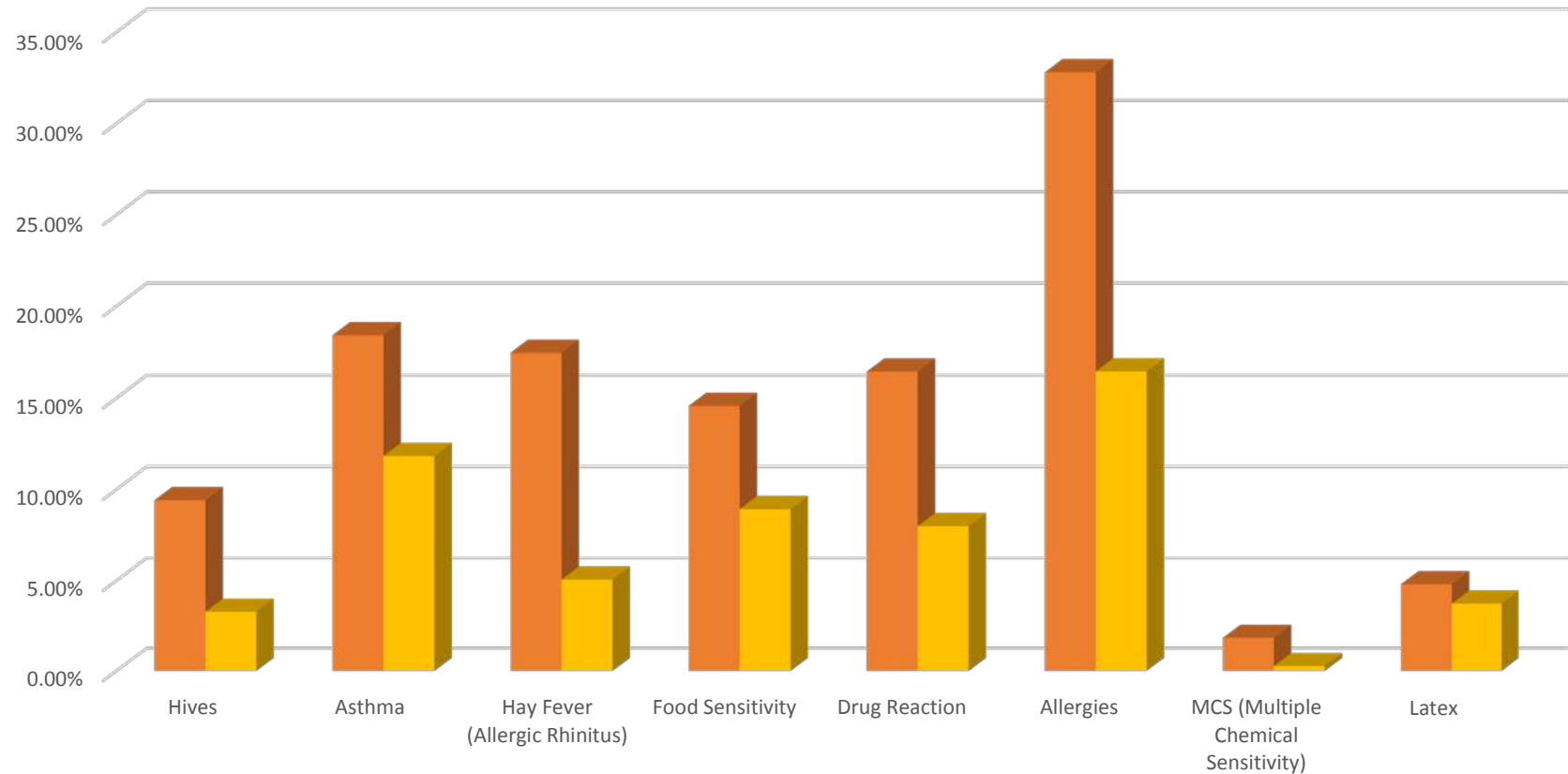
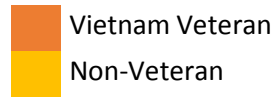
Emotional/Behavioral

Cases percentage

	Vietnam Veteran Fathers	Non Veteran Fathers
Depression	32.85%	5.66%
Obsessive/Compulsive	14.71%	4.82%
Mood Swings	28.41%	7.70%
Anger	26.27%	8.34%
Breaks Law/Rules Of Society	7.08%	1.09%
Schizophrenia	2.06%	0.21%
Dysthymia	0.82%	0.16%
Anxiety Disorder	22.20%	7.01%
Bi-Polar	7.22%	1.80%
Borderline Personality Disorder	5.66%	0.48%
Manic Depression	3.88%	0.87%
Oppositional Defiant Disorder	3.33%	2.86%

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Allergies
Cases percentage

Birth Defects Research for Children, Inc.

National Birth Defects Registry – Children of Vietnam Veterans and Non-Veterans

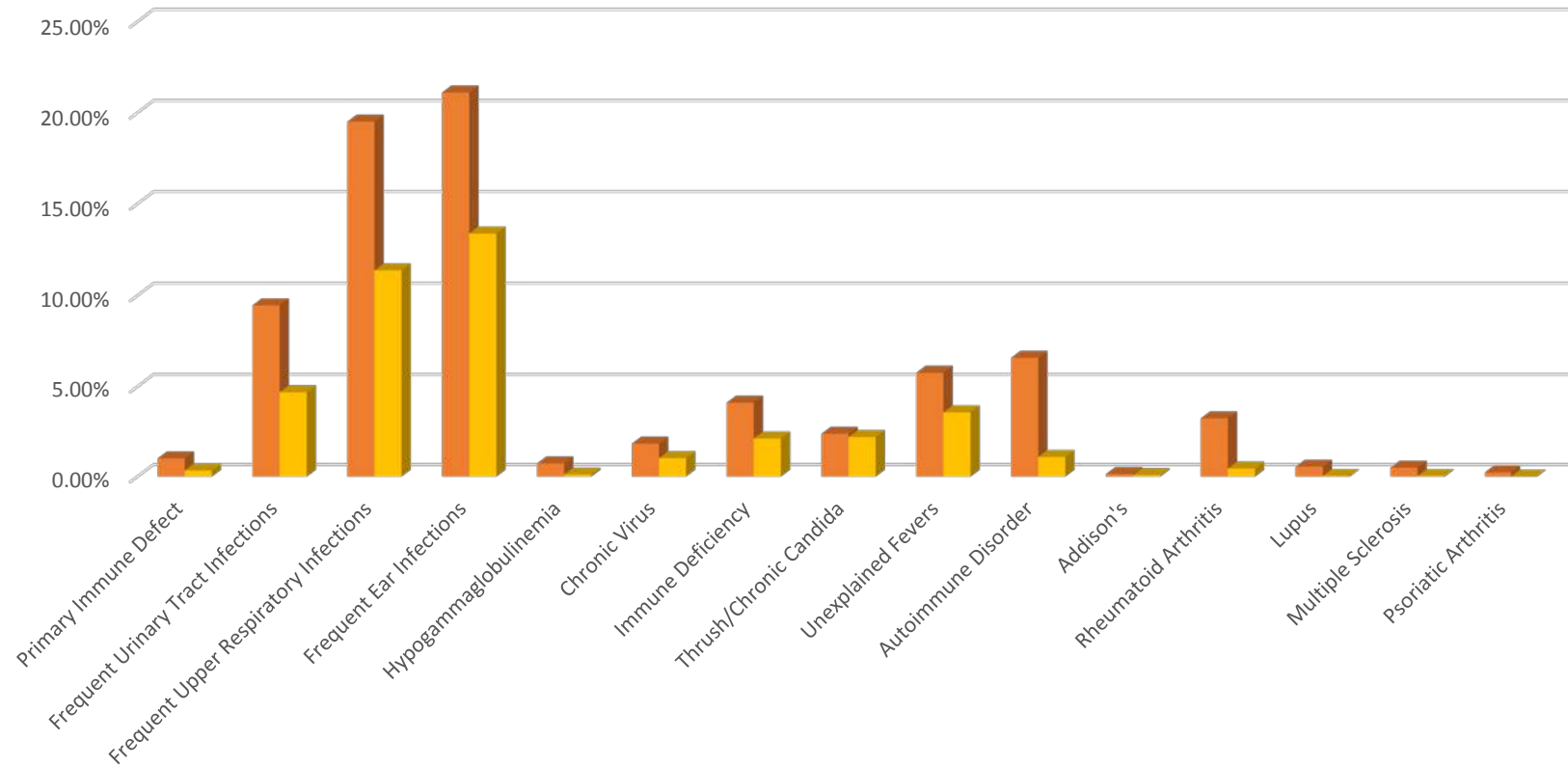
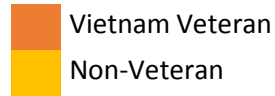
Allergies

Cases percentage

	Vietnam Veteran Fathers	Non Veteran Fathers
Hives	9.41%	3.28%
Asthma	18.41%	11.83%
Hay Fever (Allergic Rhinitus)	17.45%	5.06%
Food Sensitivity	14.57%	8.92%
Drug Reaction	16.45%	7.99%
Allergies	32.80%	16.46%
MCS (Multiple Chemical Sensitivity)	1.83%	0.26%
Latex	4.80%	3.73%

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Immune Response Disorders

Cases percentage

Birth Defects Research for Children, Inc.

National Birth Defects Registry – Children of Vietnam Veterans and Non-Veterans



Immune Response Disorders

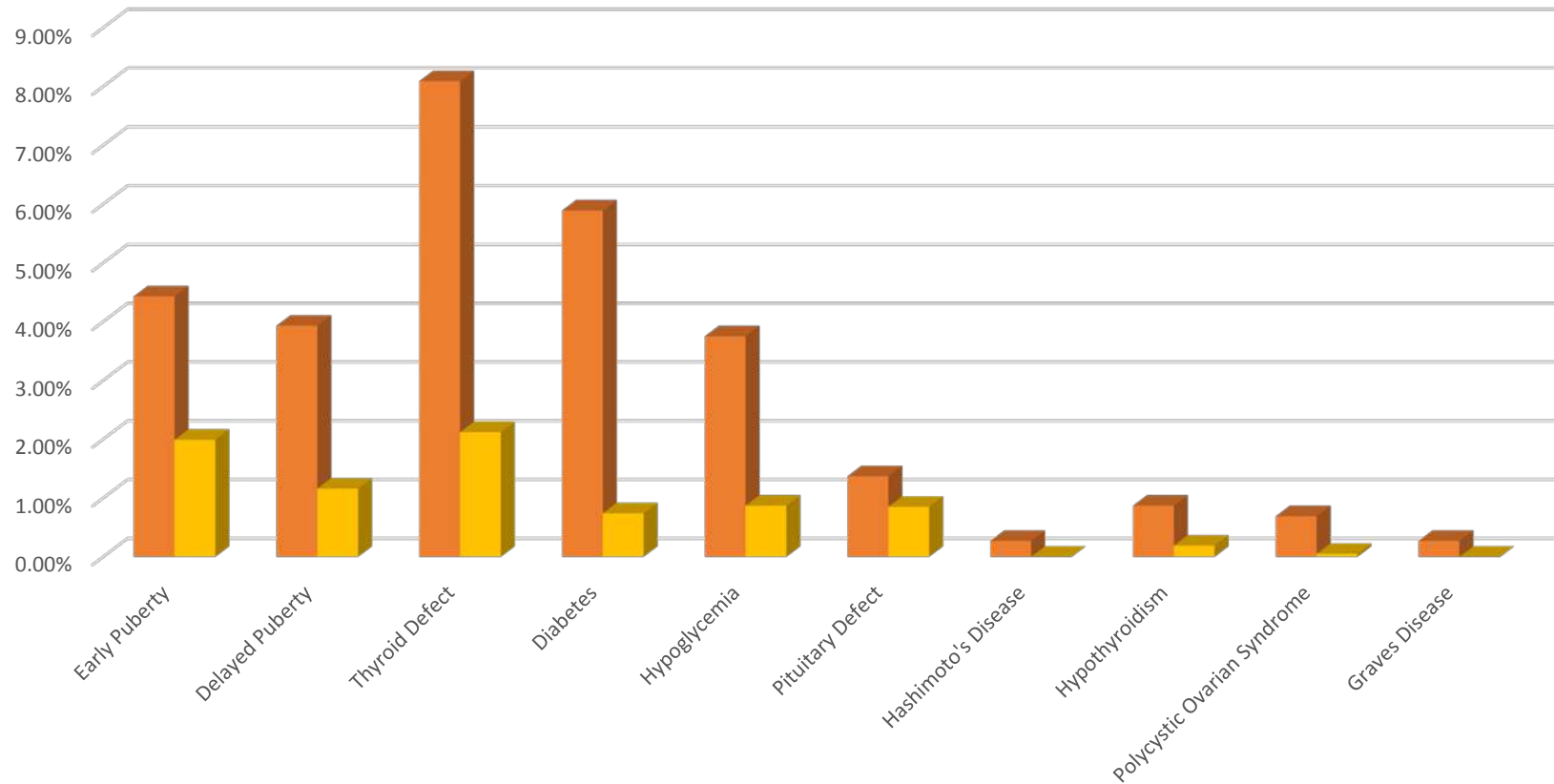
Cases percentage

	Vietnam Veteran Fathers	Non Veteran Fathers
Primary Immune Defect	1.01%	0.34%
Frequent Urinary Tract Infections	9.46%	4.69%
Frequent Upper Respiratory Infections	19.51%	11.38%
Frequent Ear Infections	21.11%	13.37%
Hypogammaglobulinemia	0.73%	0.11%
Chronic Virus	1.83%	1.03%
Immune Deficiency	4.11%	2.12%
Thrush/Chronic Candida	2.38%	2.20%
Unexplained Fevers	5.76%	3.57%
Autoimmune Disorder	6.58%	1.09%
Addison's	0.14%	0.08%
Rheumatoid Arthritis	3.24%	0.45%
Lupus	0.55%	0.03%
Multiple Sclerosis	0.50%	0.03%
Psoriatic Arthritis	0.23%	0.00%

Birth Defects Research for Children, Inc.

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 Vietnam Veteran
 Non-Veteran



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Endocrine Defects

Cases percentage

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National Birth Defects Registry – Children of Vietnam Veterans and Non-Veterans

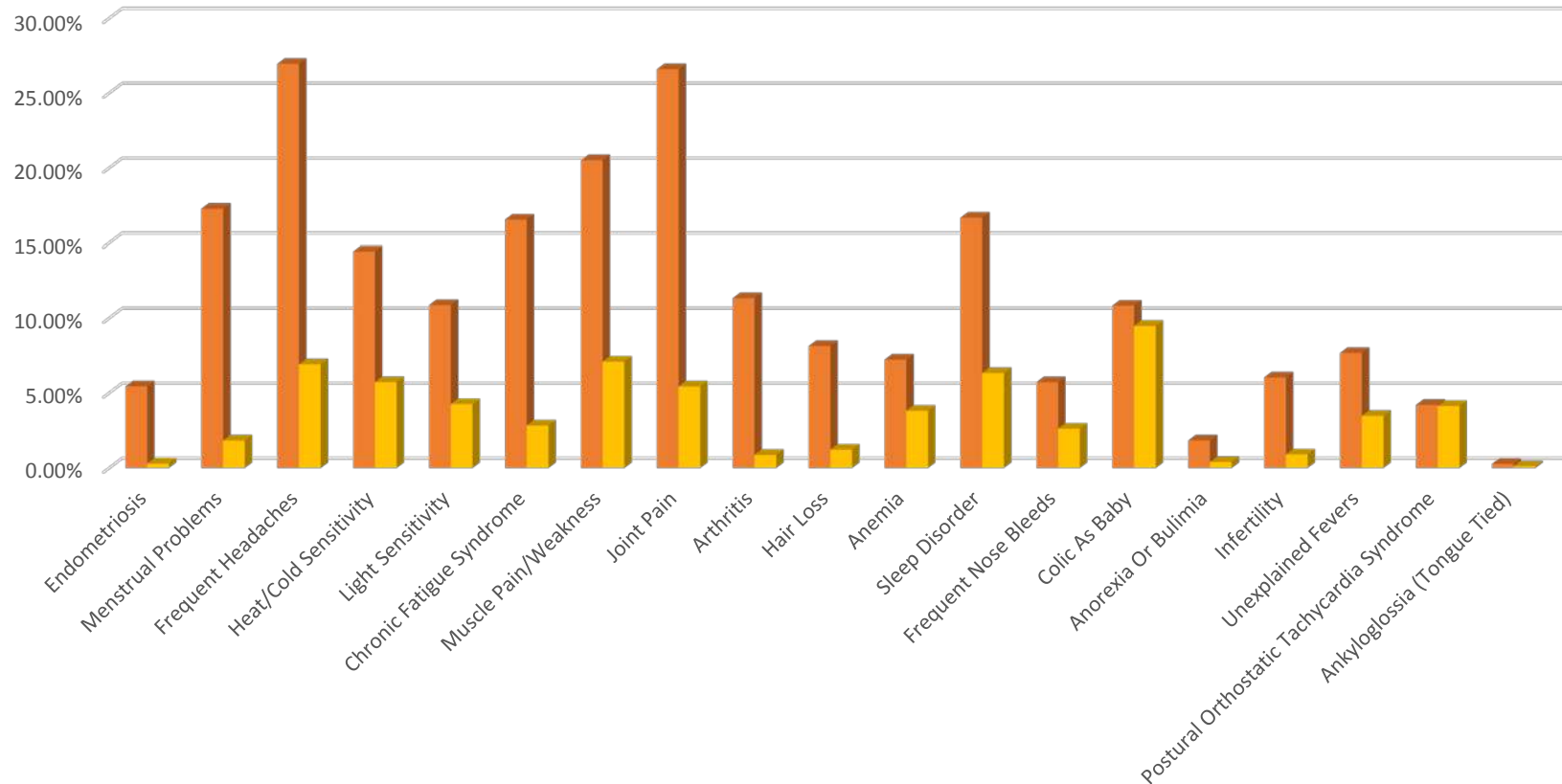
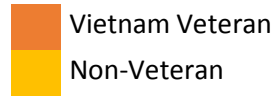
Endocrine Defects

Cases percentage

	Vietnam Veteran Fathers	Non Veteran Fathers
Early Puberty	4.43%	1.99%
Delayed Puberty	3.93%	1.16%
Thyroid Defect	8.09%	2.12%
Diabetes	5.89%	0.74%
Hypoglycemia	3.75%	0.87%
Pituitary Defect	1.37%	0.85%
Hashimoto's Disease	0.27%	0.00%
Hypothyroidism	0.87%	0.19%
Polycystic Ovarian Syndrome	0.69%	0.05%
Graves Disease	0.27%	0.00%

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Query: 02/14/2019

Miscellaneous Defects
Cases percentage

Birth Defects Research for Children, Inc.

National Birth Defects Registry – Children of Vietnam Veterans and Non-Veterans

Miscellaneous Defects

Cases percentage

	Vietnam Veteran Fathers	Non Veteran Fathers
Endometriosis	5.44%	0.29%
Menstrual Problems	17.27%	1.83%
Frequent Headaches	26.95%	6.91%
Heat/Cold Sensitivity	14.44%	5.72%
Light Sensitivity	10.87%	4.26%
Chronic Fatigue Syndrome	16.54%	2.83%
Muscle Pain/Weakness	20.51%	7.09%
Joint Pain	26.59%	5.43%
Arthritis	11.33%	0.87%
Hair Loss	8.13%	1.22%
Anemia	7.22%	3.81%
Sleep Disorder	16.67%	6.33%
Frequent Nose Bleeds	5.71%	2.62%
Colic As Baby	10.83%	9.48%
Anorexia Or Bulimia	1.83%	0.40%
Infertility	6.03%	0.90%
Unexplained Fevers	7.67%	3.47%
Postural Orthostatic Tachycardia Syndrome	4.20%	4.13%
Ankyloglossia (Tongue Tied)	0.27%	0.11%