



# CAVALIER HEALTH CENSUS June 2<sup>nd</sup> to June 9<sup>th</sup> 2013

## DIAGNOSED CONDITIONS SUMMARY OF RETURNS

### Issue 2

Compiled by:

A handwritten signature in black ink, appearing to read 'D W Norris', with a stylized flourish at the end.

D W Norris IEng MIET  
17<sup>th</sup> December 2013

Authorised by:

A handwritten signature in black ink, appearing to read 'S Maclaine', written in a cursive style.

Miss S Maclaine  
Chairman  
CKCS Club  
17<sup>th</sup> December 2013

### Change History

<b>Issue</b>	<b>Changes</b>	<b>Date</b>
1	Initial Issue	1 <sup>st</sup> August 2013
2	Formal Issue	17 <sup>th</sup> December 2013

## Table of Contents

1. INTRODUCTION .....	5
2. CENSUS RETURNS .....	5
2.1. GENERAL .....	5
2.2. DETAILED REPORTING.....	5
2.3. DATA PROTECTION .....	6
2.4. EDITING OF RETURNS.....	6
3. DEMOGRAPHIC PROFILES .....	6
3.1. WORLDWIDE .....	6
4. SUMMARY OF DIAGNOSED CONDITIONS .....	7
4.1. GENERAL .....	7
4.2. SUMMARIES.....	7

## List of Tables

Table 1 - Summary of Returns Worldwide.....	6
---	---

## Table of Figures

Figure 1 - Total Returns Distribution by Colour and Sex. ....	6
Figure 2 – Heart Condition.....	7
Figure 3 – Hereditary Cataract.....	7
Figure 4 – Juvenile Cataract .....	8
Figure 5 – Multi Retinal Dysplasia .....	8
Figure 6 – Cherry Eye.....	8
Figure 7 – Distichiasis.....	9
Figure 8 – Cancer .....	9
Figure 9 – Skeletal Problems.....	9
Figure 10 – Luxating Patella .....	10
Figure 11 – Hip Dysplasia.....	10
Figure 12 - Arthritis .....	10
Figure 13 - Masticatory Muscle Myositis.....	11
Figure 14 – Auto Immune Disease .....	11
Figure 15 - Brachycephalic Airways Obstruction .....	11
Figure 16 – Infertility .....	12
Figure 17 – Birthing Difficulties .....	12
Figure 18 – Cryptorchidism.....	12
Figure 19 – Monorchidism .....	13
Figure 20 – Pyometra .....	13
Figure 21 – Chiari Malformation.....	13
Figure 22 – Syringomyelia .....	14
Figure 23 – Epilepsy .....	14
Figure 24 - Primary Secretory Otitis Media.....	14
Figure 25 – Hearing Loss.....	15
Figure 26 – Dry Eye / Curly Coat .....	15
Figure 27 – Episodic Falling Syndrome .....	15
Figure 28 – Dental Issues .....	16
Figure 29 – Umbilical Hernia.....	16
Figure 30 - Inguinal Hernia .....	16
Figure 31 – Colitis.....	17
Figure 32 – Hemorrhagic Gastroenteritis.....	17
Figure 33 – Liver Disease .....	17
Figure 34 – Kidney Disease.....	18
Figure 35 - Diabetes .....	18
Figure 36 – Cushing’s Disease .....	18

Figure 37 – Pancreatic Deficiency ..... 19  
Figure 38 – Allergy To Food ..... 19

# **CAVALIER HEALTH CENSUS - June 2<sup>nd</sup> to June 9<sup>th</sup> 2013**

## **DIAGNOSED CONDITIONS – SUMMARY OF RETURNS**

### **1. INTRODUCTION**

It has been some years since the UK Cavalier Club first produced a series of booklets entitled “Looking at the Breed” and working with the agreement of all UK regional Cavalier Clubs a Health Census was carried out during the period of 2<sup>nd</sup> June to 9<sup>th</sup> June 2013.

Cavalier owners were asked to complete a Census return either on paper or via the Internet at various locations including the UK CKCS Club website, Facebook and other breed web sites.

Initially the Census was intended to be restricted to owners resident in the United Kingdom but due to the interest from owners all over the world, the Census was extended to include these owners.

This document contains a summary of the returns relating to Diagnosed Conditions from all returns received.

This document does not derive any conclusions nor make any recommendations from the data submitted.

### **2. CENSUS RETURNS**

#### **2.1. GENERAL**

Cavalier owners were asked to complete a Census return either on paper or via the Internet at various locations including the UK CKCS Club website, Facebook and other breed web sites.

The form was designed to be a “tick box” format to ensure that the observations and descriptions were consistent across all returns. Owners were asked for their names and the pet names of their dogs, but this was not mandatory, and these fields have been removed from all analysis files making all returns anonymous.

Worldwide details for a total of 5559 Cavaliers were submitted, 326 by paper and 5233 electronically via the Internet.

- For the UK, returns for a total of 2927 Cavaliers were submitted.
- For the FCI countries, electronic returns for a total of 450 Cavaliers were submitted.
- For the USA & Canada, electronic returns for a total of 1883 Cavaliers were submitted.
- For Australia and New Zealand, electronic returns for a total of 299 Cavaliers were submitted.

Returns were initially stored in a secure MySQL database and then transferred to a spreadsheet for analysis.

#### **2.2. DETAILED REPORTING**

The returns were divided into four regions:

- United Kingdom - England, Scotland, Wales and Northern Ireland.
- FCI countries - those countries that are either Full or Associate Members of The Fédération Cynologique Internationale (FCI). The single return from an owner resident in the United Arabs Emirates was also included in this section.
- United States of America and Canada.
- Australia and New Zealand.

Detailed reports on the analysis of the returns have been issued for the four selected regions

### 2.3. DATA PROTECTION

All data has been handled in accordance with the UK Data Protection Act 1998, Data Controller reference Z9120799 refers, and all references to the owner and the dog names have been removed from the analysis data. Therefore the identities of the owner or dog cannot be derived from the analysis provided in this report.

### 2.4. EDITING OF RETURNS

Editing of the returns prior to analysis was restricted to the following:

- Deletion of names of owners.
- Deletion of names of dogs.
- Adjusting the ages to a common format.
- Deletion of a dog that was declared as “deceased” and therefore was not in compliance with the instructions given on the Census Form.
- Amendments as requested by the owner.
- Addition of “Country of Residence” field.

No other changes were made to the source data.

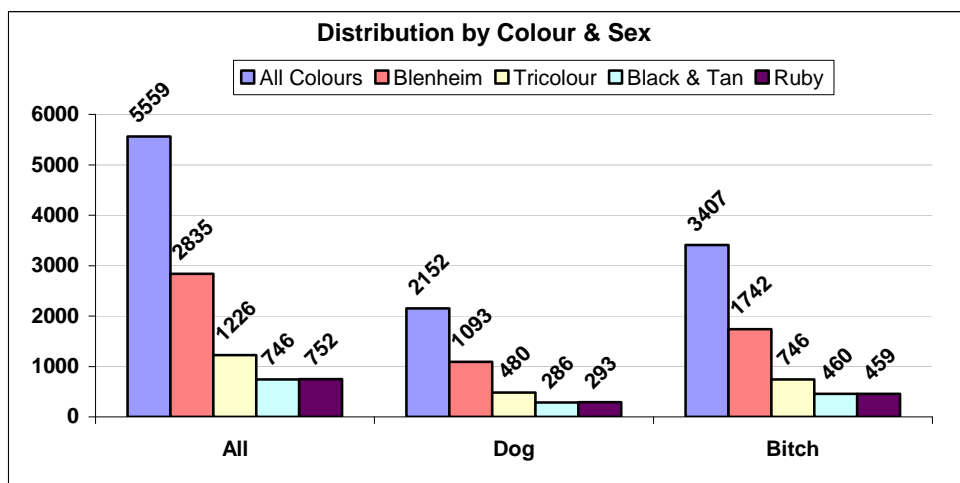
## 3. DEMOGRAPHIC PROFILES

### 3.1. WORLDWIDE

	Total		Dogs		Bitches	
All Colours	5559	100%	2152	38.71%	3407	61.29%
Blenheim	2835	51.00%	1093	38.55%	1742	61.45%
Tricolour	1226	22.05%	480	39.15%	746	60.85%
Black and Tan	746	13.42%	286	38.34%	460	61.66%
Ruby	752	13.53%	293	38.96%	459	61.04%

**Table 1 - Summary of Returns Worldwide.**

Figure 1 illustrates the distribution for the total returns received by coat colour and sex.



**Figure 1 - Total Returns Distribution by Colour and Sex.**

## 4. SUMMARY OF DIAGNOSED CONDITIONS

### 4.1. GENERAL

Owners were asked to identify if a Veterinary Practitioner had diagnosed their Cavalier with any of 36 defined conditions.

Owners were not asked for the Grade, for the results of any DNA test or whether the Cavalier was Symptomatic or Asymptomatic. No conclusions should therefore be made on these points from the returns received. Whilst owners were asked for the age of their Cavalier, they were not asked for the age of the onset of any diagnosed condition.

The following charts provide a comparison of the 36 specific conditions for the four regions analysed. They are presented in the order that they appeared on the original questionnaire.

As the numerical sample size is different for each region, comparisons have been made using the percentage of returns for the specific region quoted rounded to two decimal places.

### 4.2. SUMMARIES

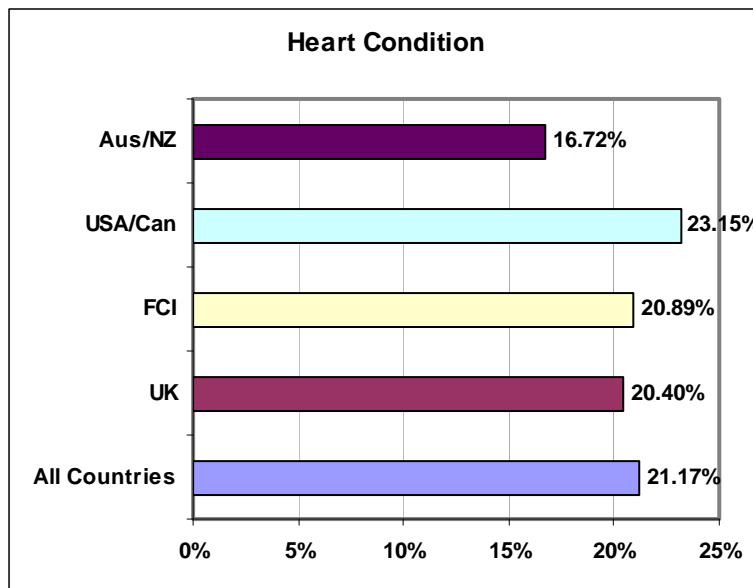


Figure 2 – Heart Condition

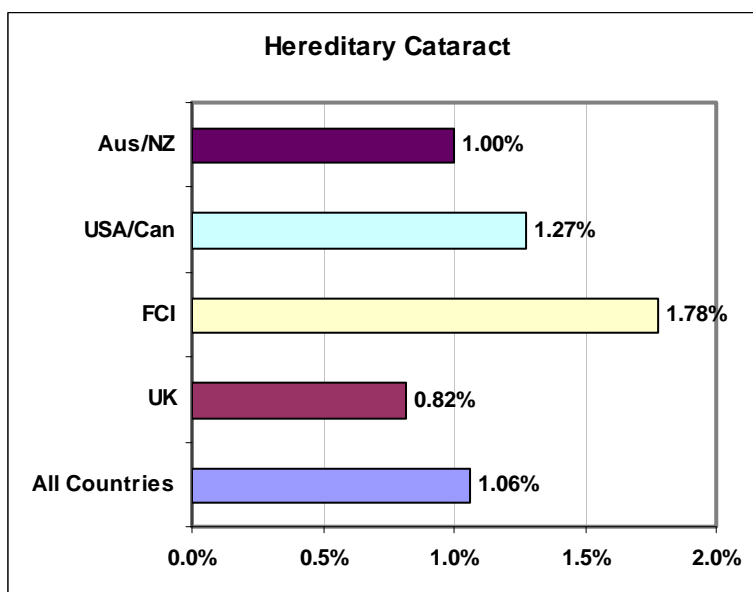


Figure 3 – Hereditary Cataract

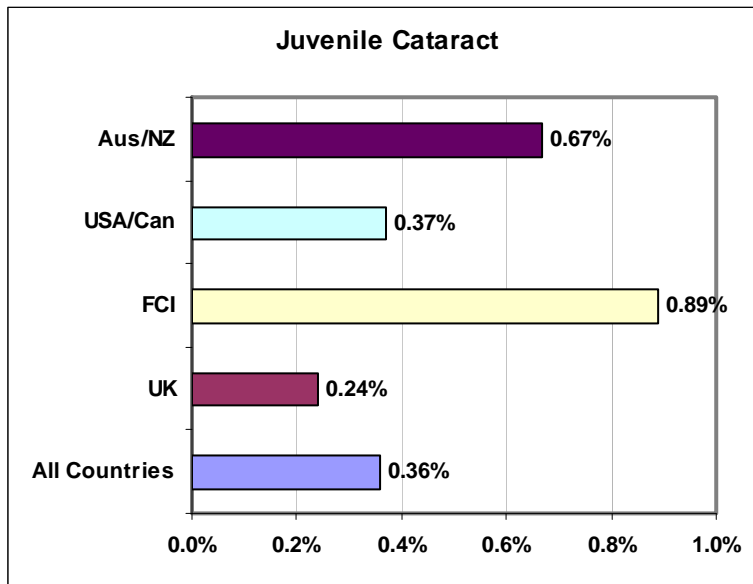


Figure 4 – Juvenile Cataract

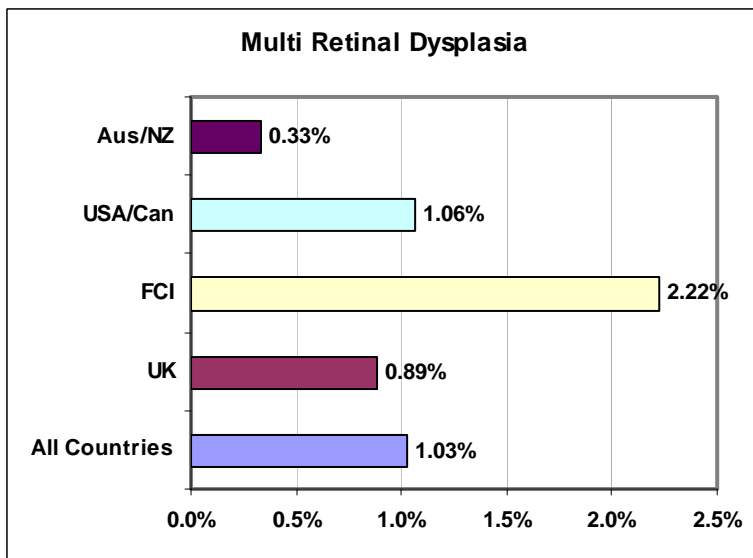


Figure 5 – Multi Retinal Dysplasia

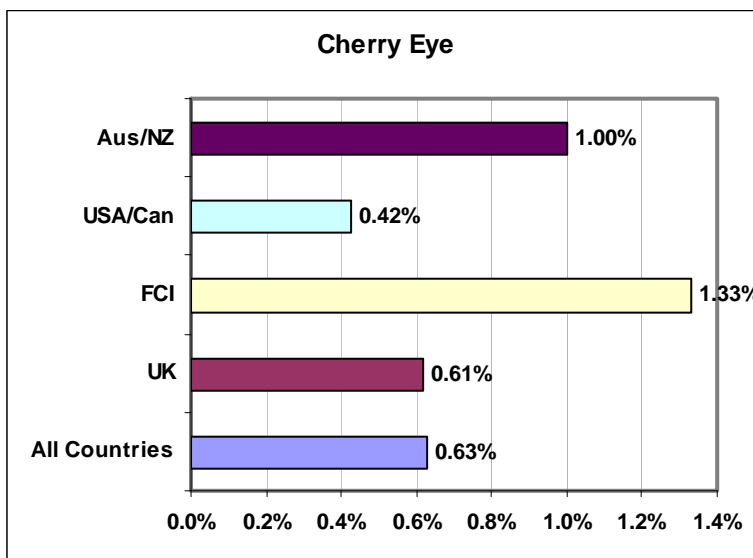


Figure 6 – Cherry Eye



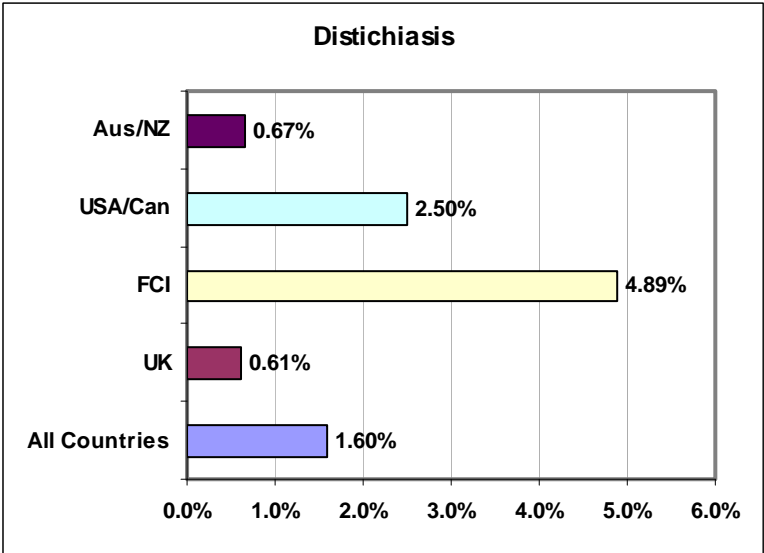


Figure 7 – Distichiasis

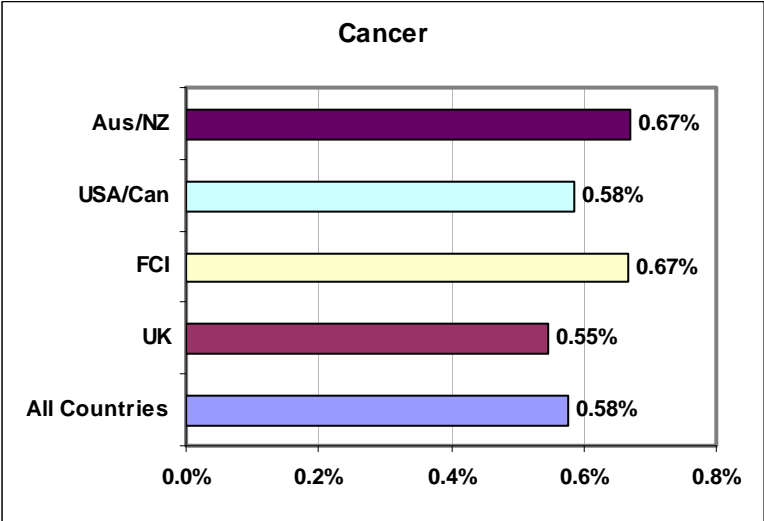


Figure 8 – Cancer

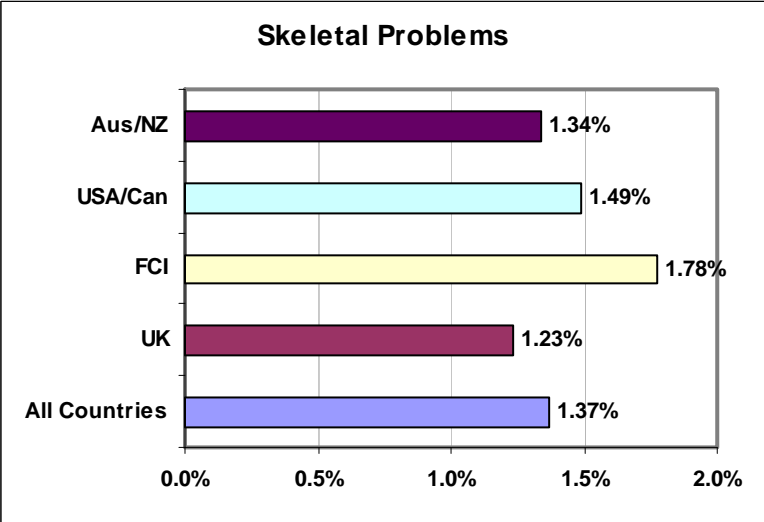


Figure 9 – Skeletal Problems

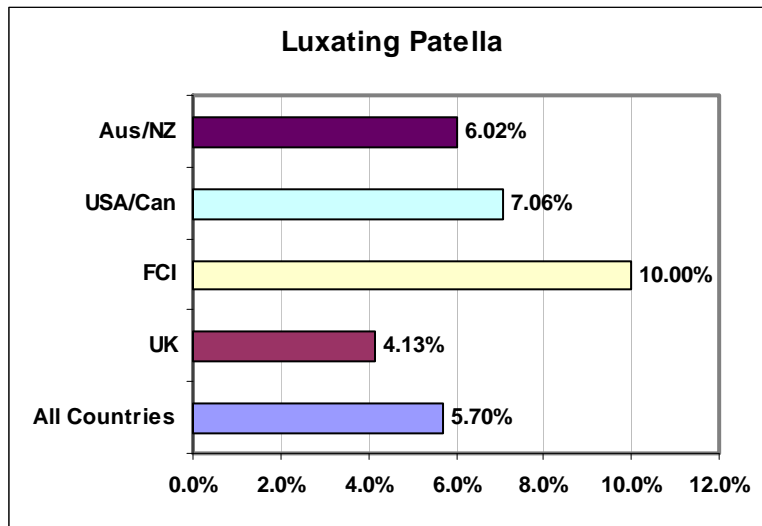


Figure 10 – Luxating Patella

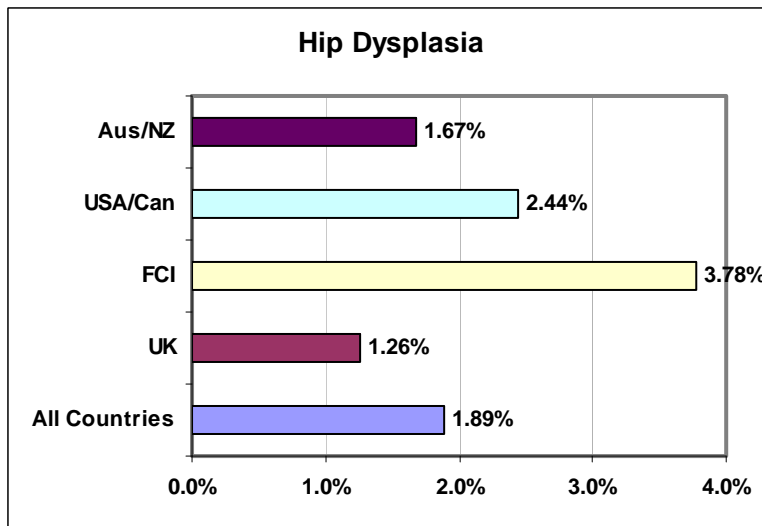


Figure 11 – Hip Dysplasia

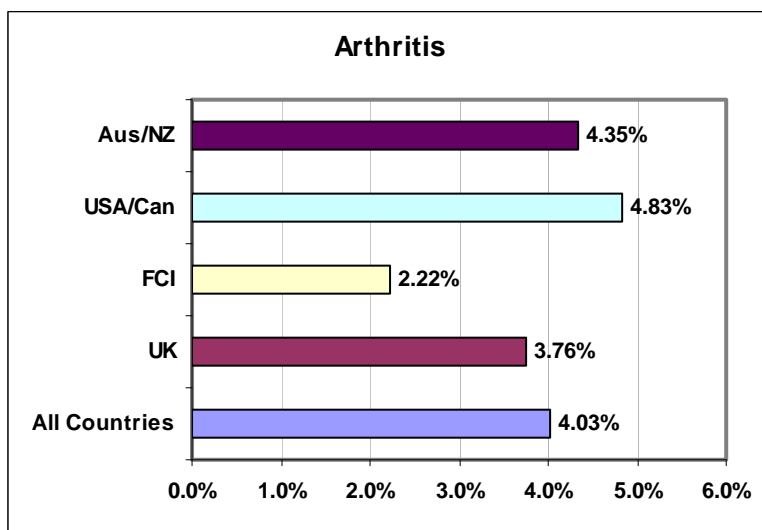


Figure 12 - Arthritis

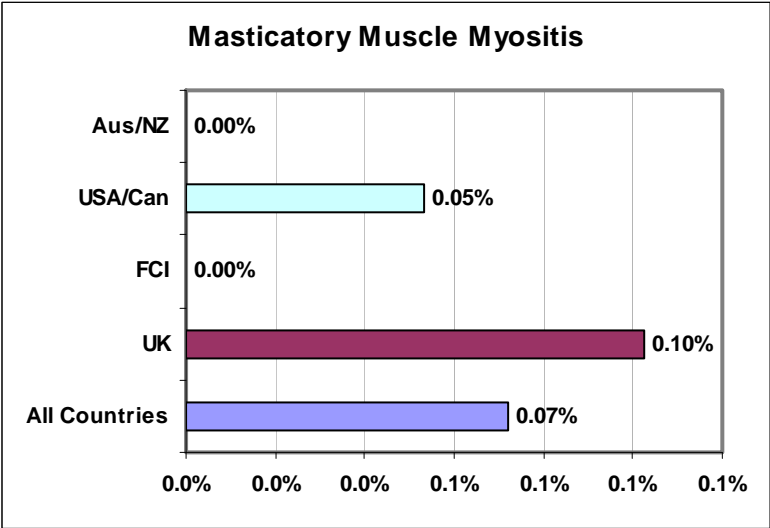


Figure 13 - Masticatory Muscle Myositis

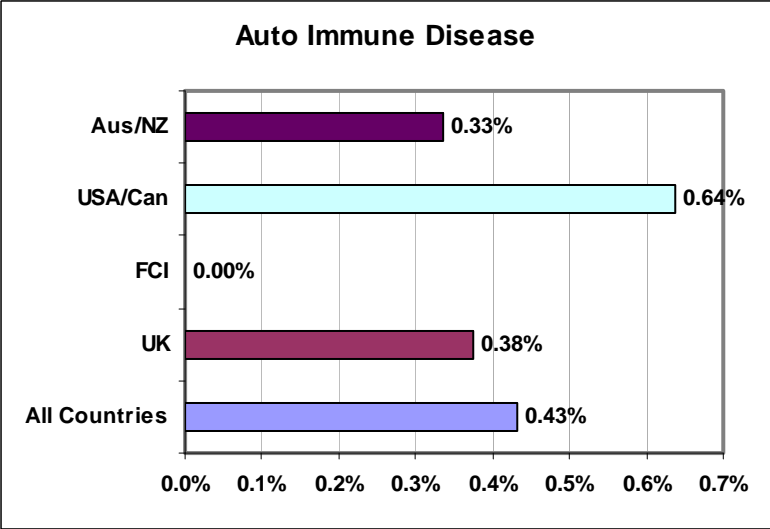


Figure 14 – Auto Immune Disease

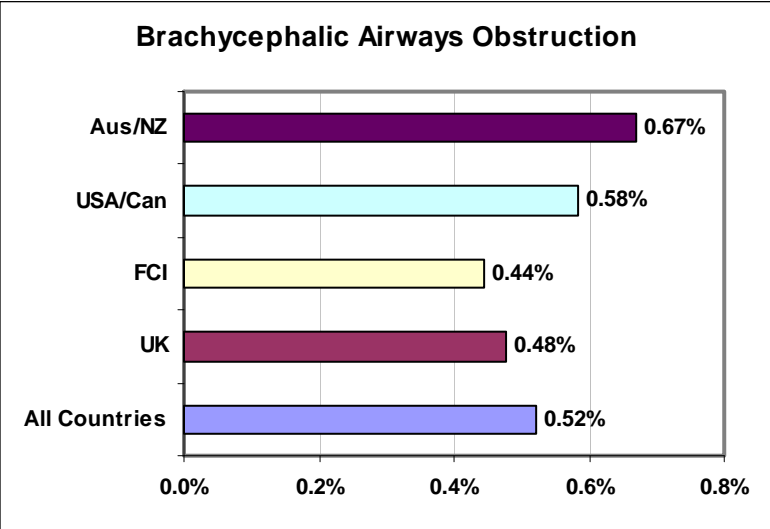


Figure 15 - Brachycephalic Airways Obstruction

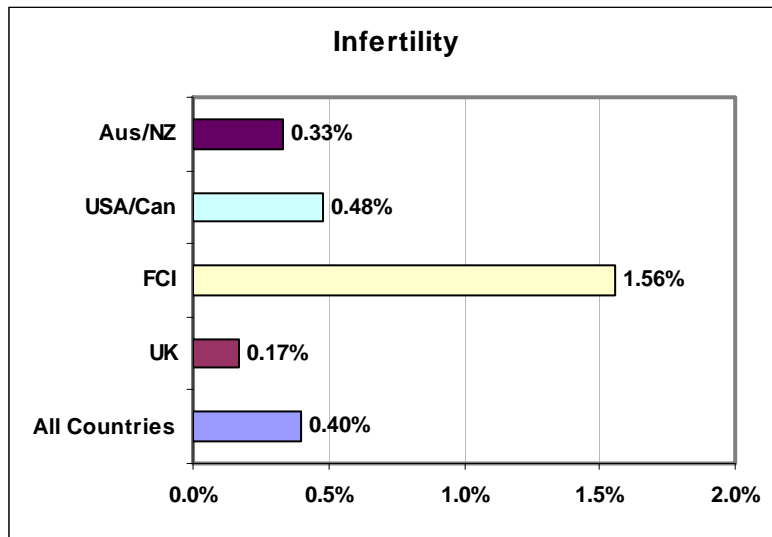


Figure 16 – Infertility

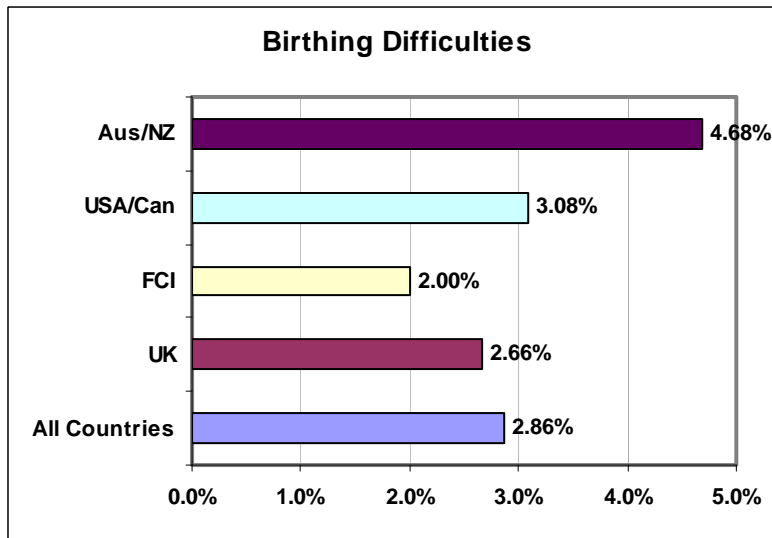


Figure 17 – Birthing Difficulties

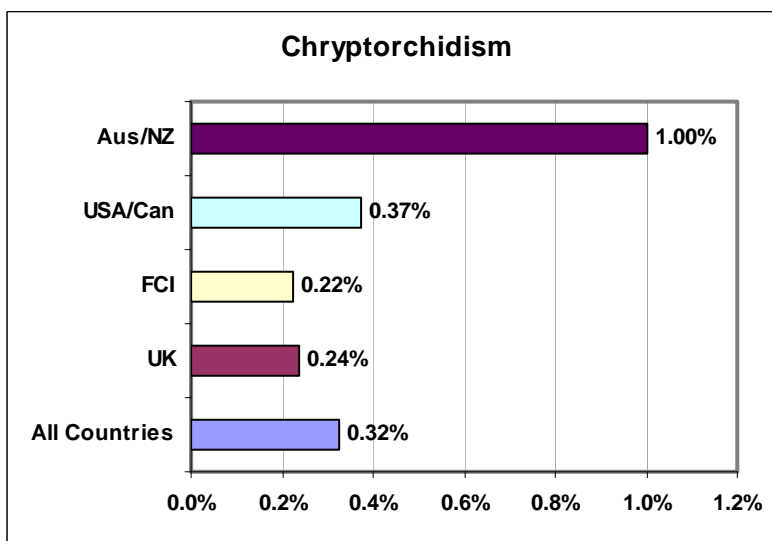


Figure 18 – Cryptorchidism

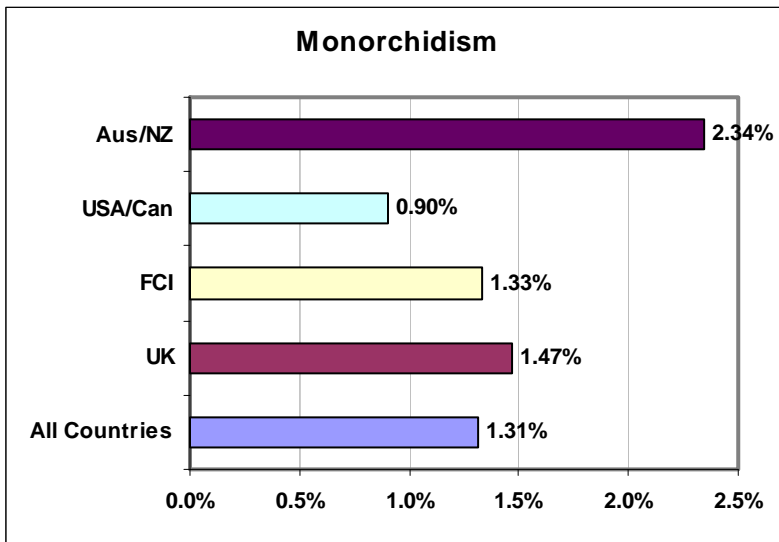


Figure 19 – Monorchidism

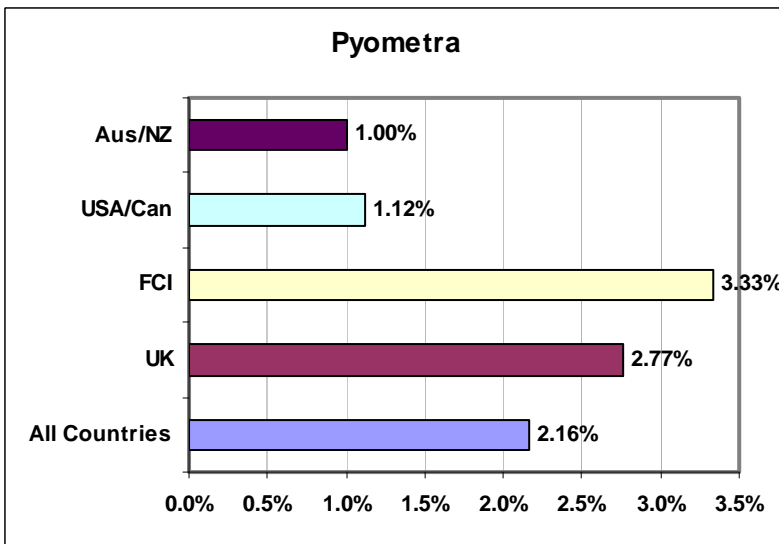


Figure 20 – Pyometra

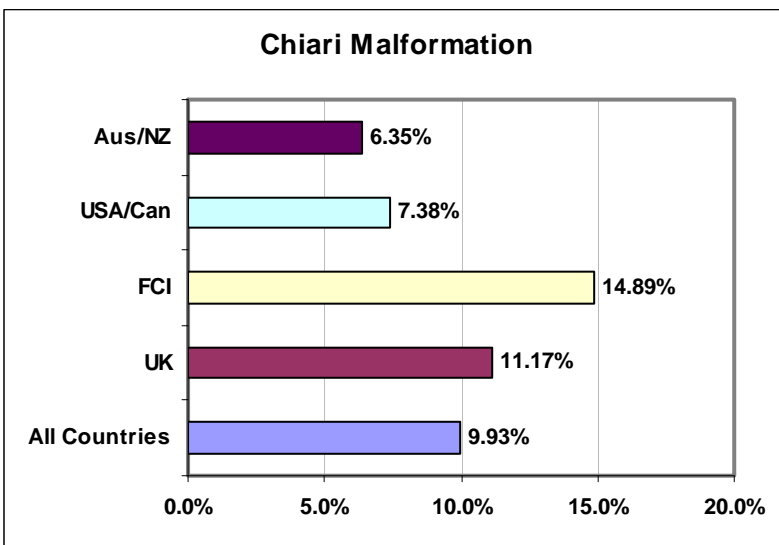


Figure 21 – Chiari Malformation

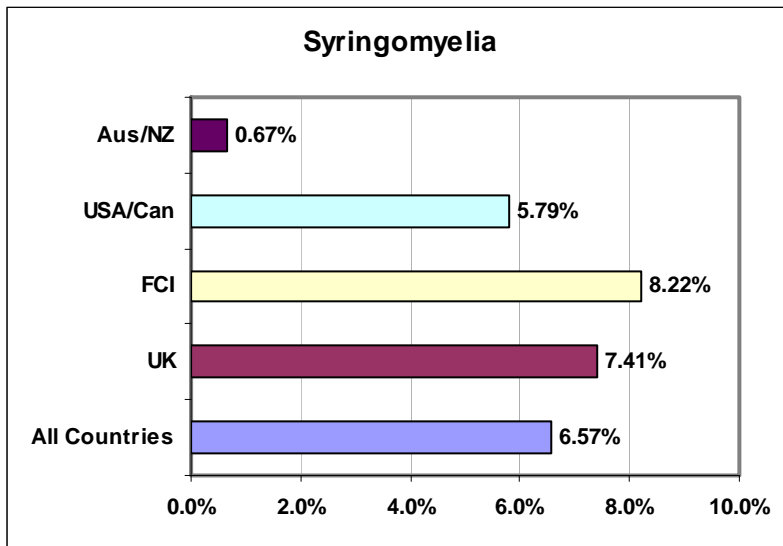


Figure 22 – Syringomyelia

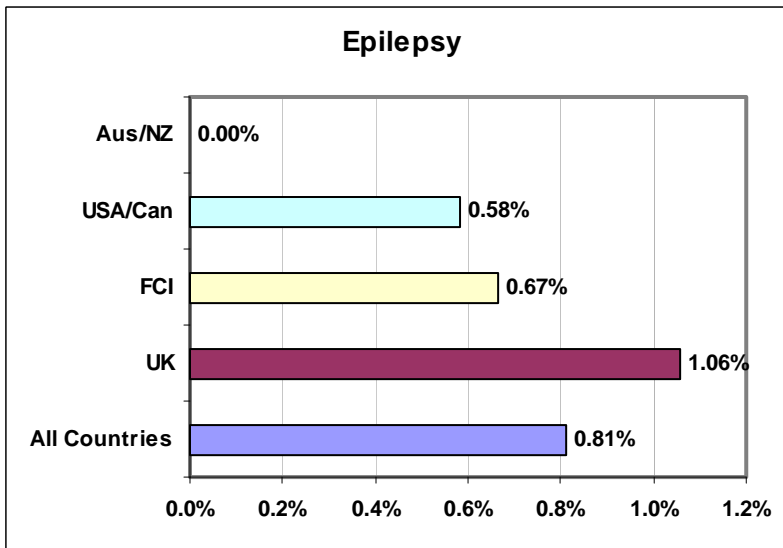


Figure 23 – Epilepsy

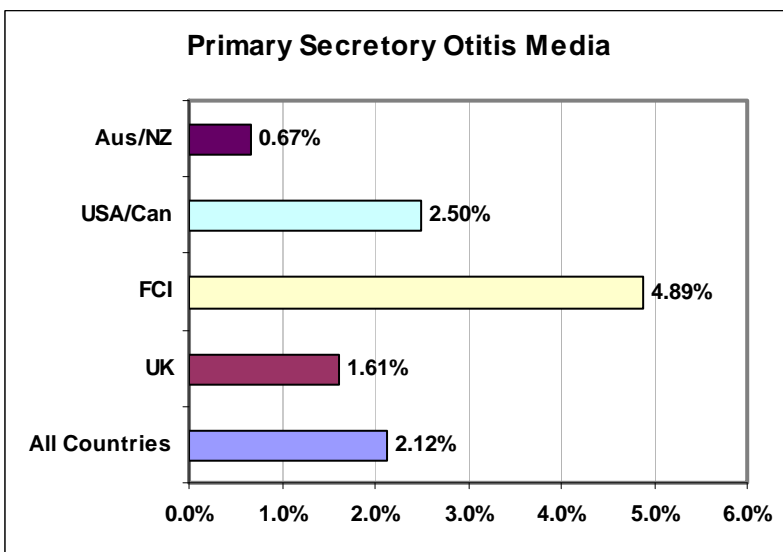


Figure 24 - Primary Secretory Otitis Media

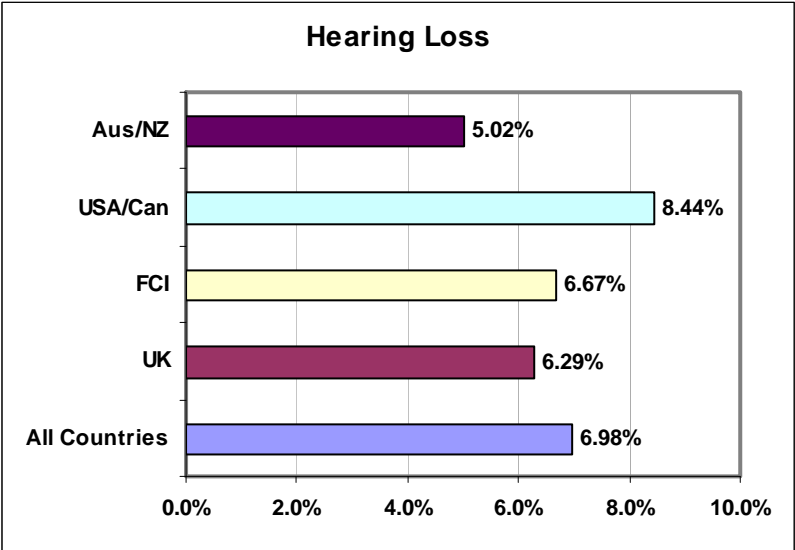


Figure 25 – Hearing Loss

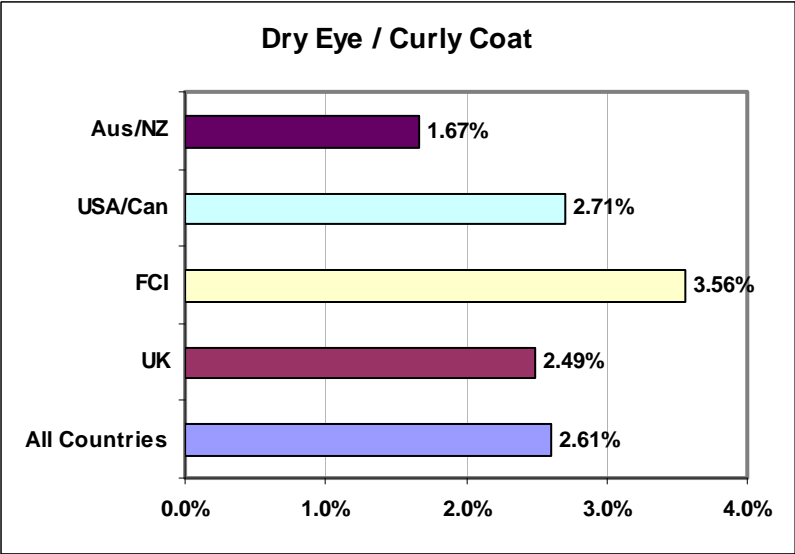


Figure 26 – Dry Eye / Curly Coat

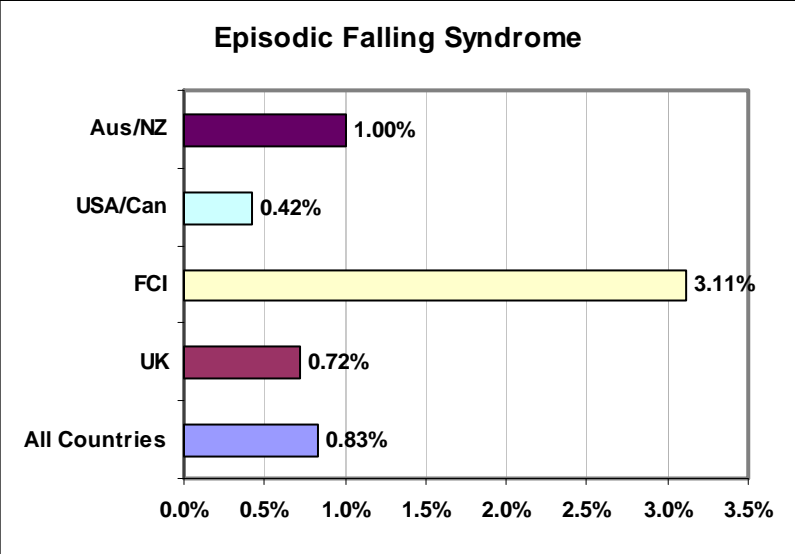


Figure 27 – Episodic Falling Syndrome

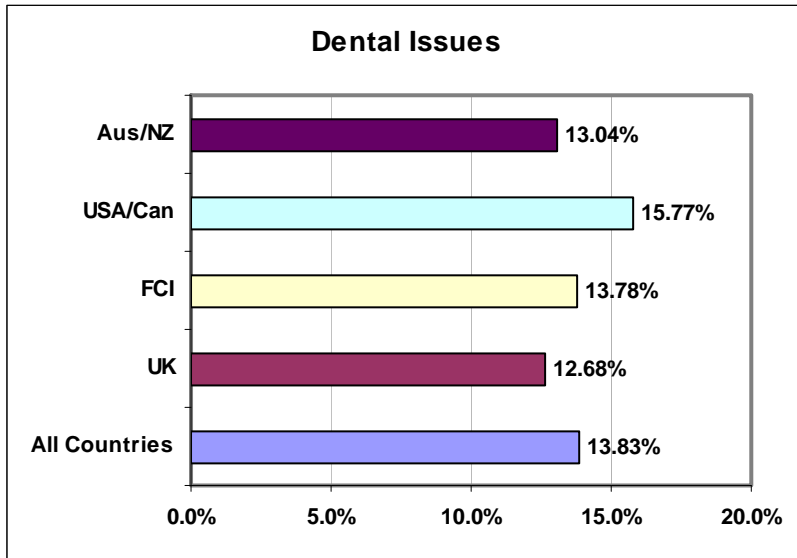


Figure 28 – Dental Issues

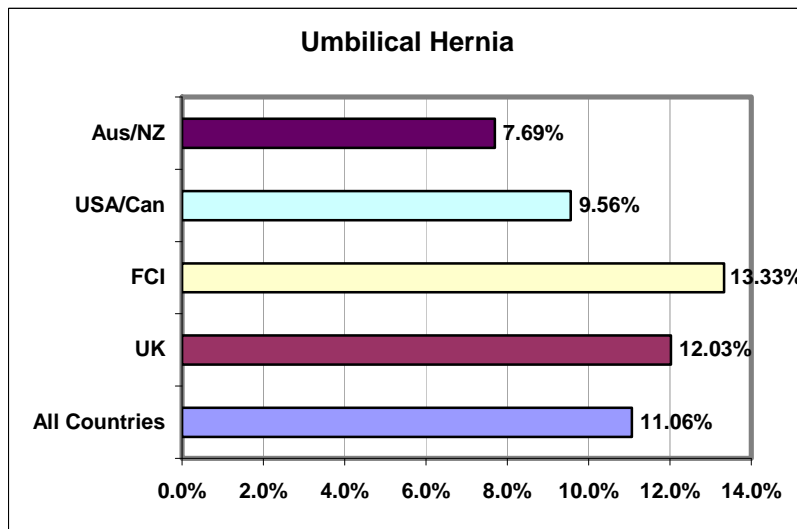


Figure 29 – Umbilical Hernia

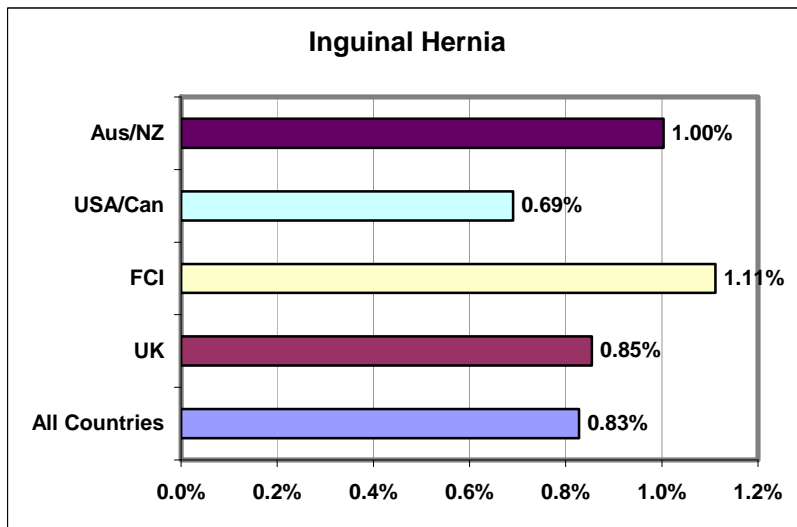


Figure 30 - Inguinal Hernia



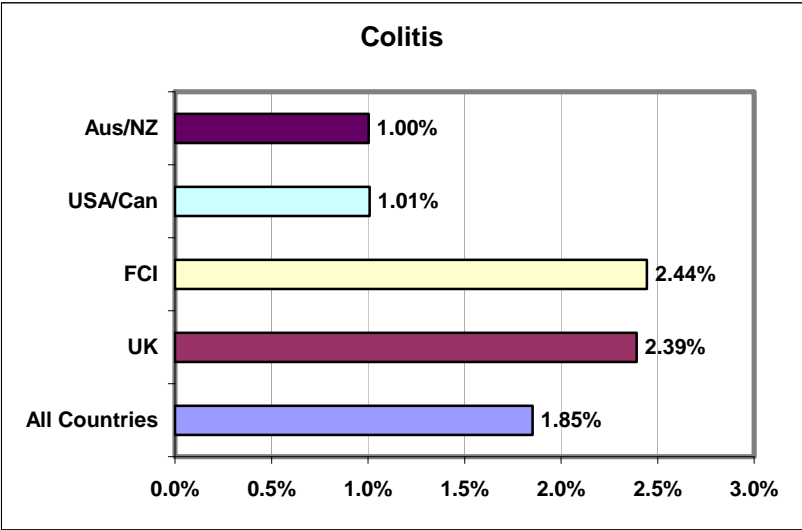


Figure 31 – Colitis

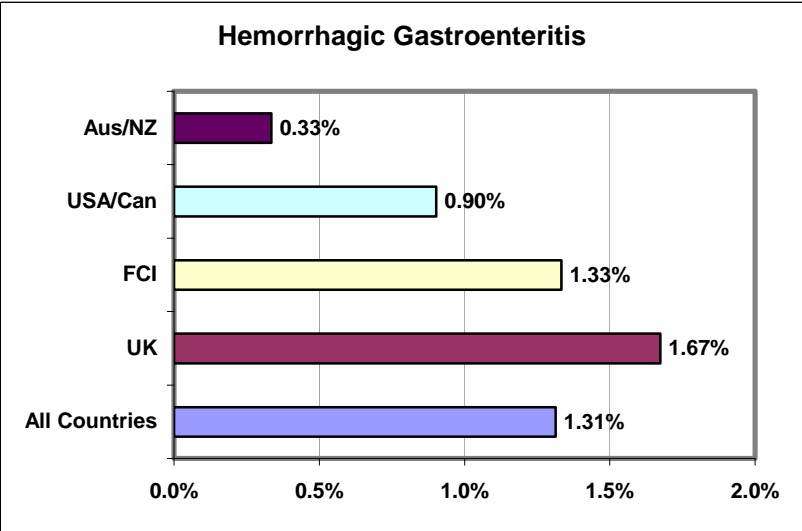


Figure 32 – Hemorrhagic Gastroenteritis

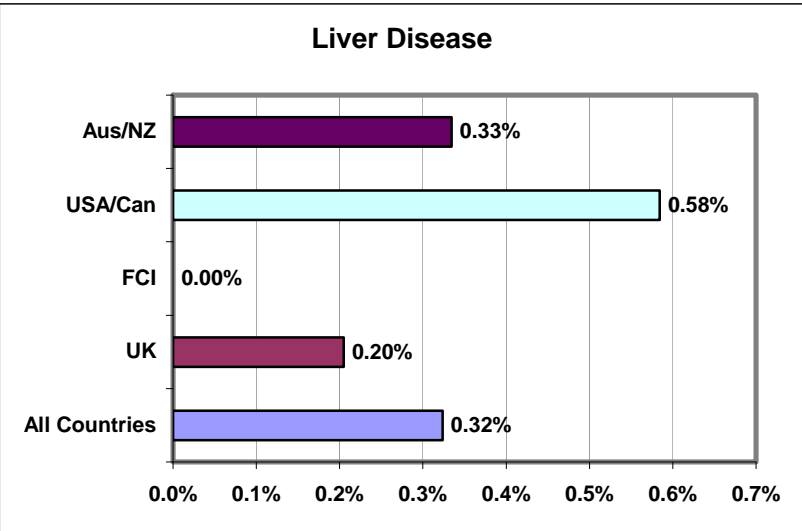


Figure 33 – Liver Disease

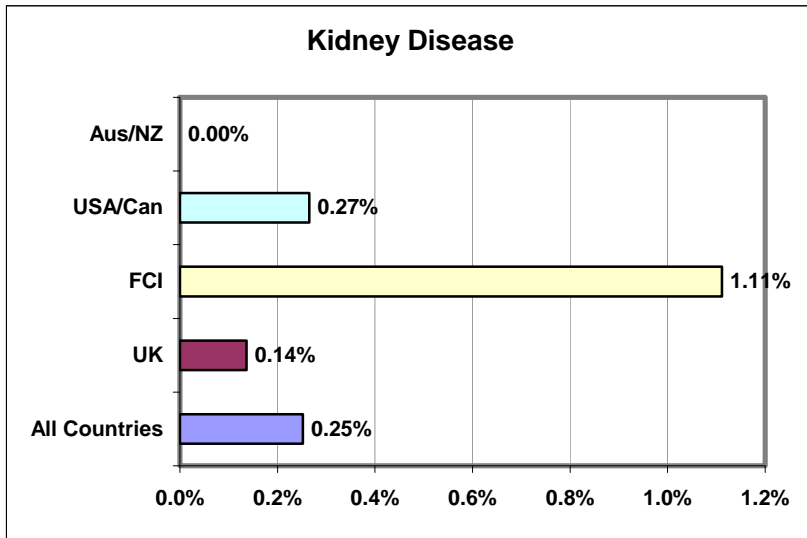


Figure 34 – Kidney Disease

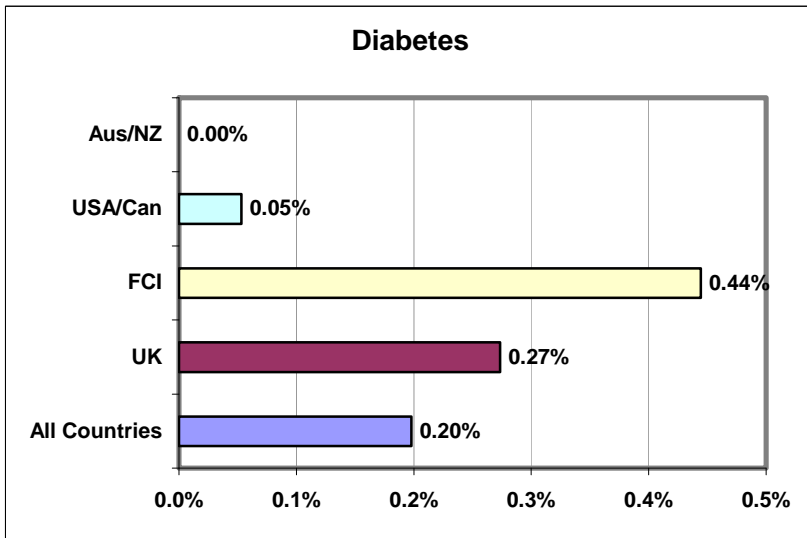


Figure 35 - Diabetes

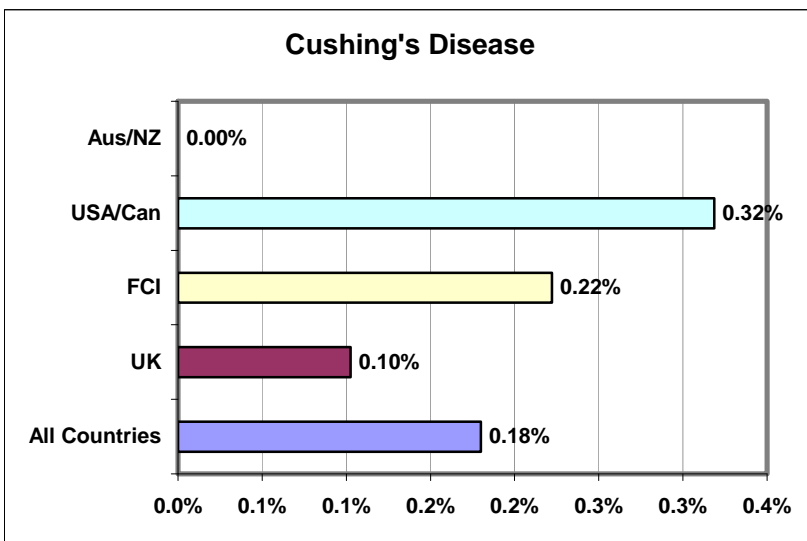


Figure 36 – Cushing's Disease

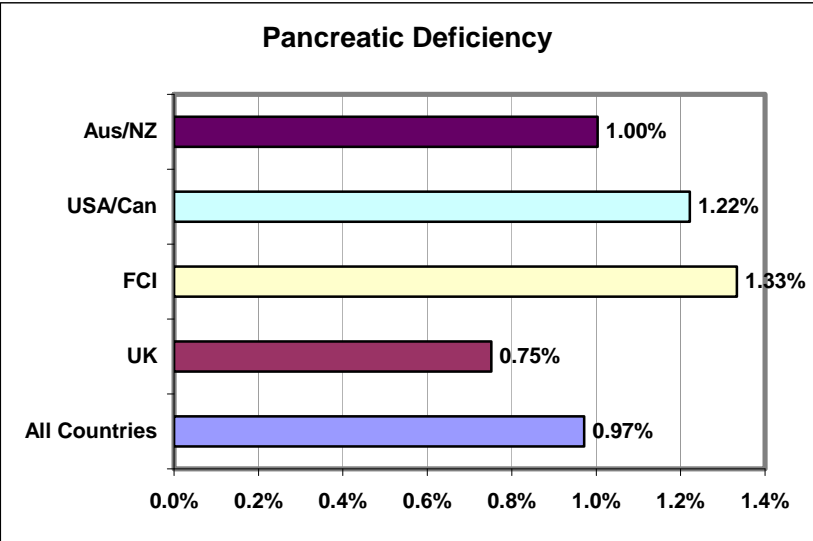


Figure 37 – Pancreatic Deficiency

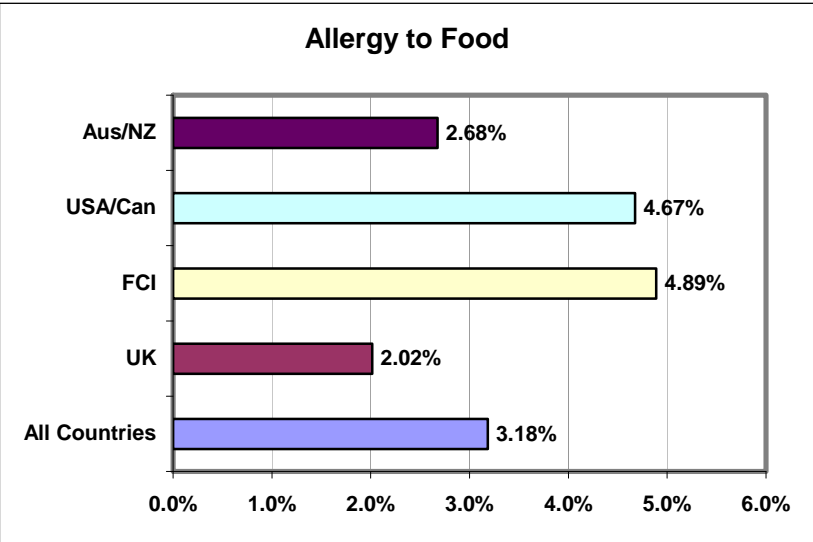


Figure 38 – Allergy To Food

This Page Intentionally Blank