HAIR ELEMENTS



PATIENT: Number 228

SEX: Male AGE: 10

LOCATION: North Essex, United Kingdom

POTENTIALLY TOXIC ELEMENTS TOXIC RESULT REFERENCE PERCENTILE	LOCATION: North Essex, United Kingdom	
TOXIC RESULT REFERENCE PERCENTILE		
	_+th	
F-5-5	5 th	
Aluminum 15 < 8.0		
Antimony 0.042 < 0.066		
Arsenic 0.065 < 0.080		
Beryllium < 0.01 < 0.020		
Bismuth 0.006 < 2.0		
Cadmium 0.029 < 0.15		
Lead 0.90 < 1.0		
Mercury 0.44 < 0.40		
Platinum 0.005 < 0.005		
Thallium < 0.001 < 0.010		
Thorium < 0.001 < 0.005		
Uranium 0.001 < 0.060 ●		
Nickel 0.07 < 0.40		
Silver 0.05 < 0.13		
Tin 0.12 < 0.30		
Titanium 0.63 < 1.0		
Total Toxic Representation		
ESSENTIAL AND OTHER ELEMENTS		
RESULT REFERENCE PERCENTILE		
ELEMENTS μg/g RANGE 2.5 th 16 th 50 th	84 th 97.5 th	
Calcium 264 160- 500		
Magnesium 15 12- 50		
Sodium 120 12- 90		
Potassium 190 10- 40		
Copper 11 9.0- 30		
Zinc 150 110- 190 -		
Manganese 0.13 0.18- 0.60		
Chromium 0.34 0.23- 0.50		
Vanadium 0.050 0.025- 0.10		
Molybdenum 0.047 0.040- 0.089		
Boron 3.5 0.50- 3.5		
Iodine 0.29 0.25- 1.3		
Lithium 0.008 0.007- 0.023		
Phosphorus 217 160 - 250		
Selenium 0.69 0.95- 1.7		
Strontium 1.5 0.21- 2.1		
Sulfur 51900 45500 – 53000		
Barium 0.14 0.19- 1.6		
Cobalt 0.008 0.013 0.035		
Iron 12 6.0- 17		
Germanium 0.028 0.045 - 0.065		
Rubidium 0.14 0.008- 0.080		
Zirconium 0.051 0.060- 0.70		
	TIOS	
	TIOS	
	EXPECTED	
COMMENTS:		
Date Collected: 11/13/2008 Sample Size: 0.203 g ELEMENTS RAT		
Date Collected: 11/13/2008 Sample Size: 0.203 g ELEMENTS RAT Date Received: 11/17/2008 Sample Type: Head Ca/Mg 17.6	4- 30	
Date Collected: 11/13/2008 Sample Size: 0.203 g ELEMENTS RAT Date Received: 11/17/2008 Sample Type: Head Ca/Mg 17.6 Date Completed: 11/19/2008 Hair Color: Brown Ca/P 1.22	0.8- 8	
Date Collected: 11/13/2008 Sample Size: 0.203 g ELEMENTS RAT Date Received: 11/17/2008 Sample Type: Head Ca/Mg 17.6 Date Completed: 11/19/2008 Hair Color: Brown Ca/P 1.22 Treatment: Na/K 0.632	0.8-8	
Date Collected: 11/13/2008 Sample Size: 0.203 g ELEMENTS RAT Date Received: 11/17/2008 Sample Type: Head Ca/Mg 17.6 Date Completed: 11/19/2008 Hair Color: Brown Ca/P 1.22	0.8- 8 0.5- 10 4- 20	

Health history for hair test 228

First child, mother had threatened miscarriage at 5 weeks. Remainder of preganancy and birth was normal. Late to talk although other developmental milestones normal. Non verbal communication good and made up own sign language. Diagnosed with verbal dyspraxia (apraxia) at age 3. Difficulty learning to read, assessment showed dyslexia and high functioning autistic traits. Assessed by Behavioural Optometrist at age 5 years, eye tracking and focusing problems identified. Eye exercises given to perform at home, reading improved. Discharged by Behavioural Optometrist at age 8. Diagnosed with asthma at age 5 and eczema since baby but both have decreased over time At age 3 hair at back of head in "bird's nest", fish oil resolved this.

Current problems. Difficulty with short term memory, concentration, slow to organise thoughts and ideas when writing, this is becoming a problem at school. Very easily distracted. Emotionally immature. Feels cold easily and slow to warm. Melancholic child. Difficulty interpreting social situations and making friends. Much happier in adult company rather than with peers. Exercises regularly and looks forward to it but frequently bad tempered/unhappy by the end.

- 2. No dental work. Live in an area of natually high fluoride in the water.
- 4. Mother had 8 amalgams prior to pregnancy. No treatment during pregnancy.
- 5. Normal childhood vaccinations given. Diphtheria, Tetanus, Whooping Cough, Hib, Polio, MMR and Meningitis C at normal routine ages. Due to an allergic reaction after the first MMR vaccination the second MMR was not given.
- 6. No supplements or medications.
- 7. EyeQ fish oil supplement given between ages 4 and 9years. Initially 15mls per day for 3 months and then 10mls per day.
- 8. Location, North Essex, United Kingdom.