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# 1 Tables

## 1.1 General statistics for diseases

Modality	Count	Relative	Cumulative
Skin and subcutaneous tissue	258	0.53	0.53
Respiratory system	155	0.32	0.85
Mental and behavioural	16	0.03	0.88
Nervous system	15	0.03	0.91
Musculoskeletal system and connective tissue	12	0.02	0.93
Digestive system	7	0.01	0.95
Injury, poisoning and certain other consequences of external causes	6	0.01	0.96
Neoplasms	5	0.01	0.97
Endocrine, nutritional and metabolic	4	0.01	0.98
Eye and adnexa	3	0.01	0.99
Not elsewhere classified	2	0	0.99
Genitourinary system	2	0	0.99
Congenital malformations, deformations and chromosomal abnormalities	2	0	1
Circulatory system	1	0	1

**Table 1:** Absolute frequency of diseases for MEN by ICD10 group

Modality	Count	Relative	Cumulative
Skin and subcutaneous tissue	368	0.58	0.58
Respiratory system	141	0.22	0.8
Nervous system	34	0.05	0.85
Mental and behavioural	30	0.05	0.9
Musculoskeletal system and connective tissue	24	0.04	0.94
Injury, poisoning and certain other consequences of external causes	13	0.02	0.96
Digestive system	7	0.01	0.97
Not elsewhere classified	6	0.01	0.98
Endocrine, nutritional and metabolic	6	0.01	0.99
Neoplasms	3	0	0.99
Congenital malformations, deformations and chromosomal abnormalities	2	0	1
Infectious and parasitic	1	0	1
Genitourinary system	1	0	1
External causes of morbidity and mortality	1	0	1

**Table 2:** Absolute frequency of diseases for WOMEN by ICD10 group

Modality	Count	Relative	Cumulative
Pruritus, unspecified	104	0.21	0.21
Rhinitis	79	0.16	0.38
Asthma	75	0.15	0.53
Atopic dermatitis, unspecified	64	0.13	0.66
Dyshidrosis	48	0.1	0.76
Psoriasis	23	0.05	0.81
Eczema	14	0.03	0.83
Migraine, unspecified	9	0.02	0.85
ADHD	9	0.02	0.87
Food allergy	4	0.01	0.88
Celiac disease	4	0.01	0.89
Epilepsy, unspecified, not intractable, without status epilepticus	3	0.01	0.89
Anemia, unspecified	3	0.01	0.9
Juvenile osteochondrosis of patella	2	0	0.9
Juvenile arthritis	2	0	0.91
Imnsonia	2	0	0.91
Diabetes Type 1	2	0	0.92
Crohns disease	2	0	0.92
Xerosis cutis	1	0	0.92
Unspecified sensorineural hearing loss	1	0	0.92
Unspecified injury of unspecified lower leg	1	0	0.93
Tinnitus	1	0	0.93
Strain of unspecified muscle and tendon at lower leg level	1	0	0.93
Other specified disorders of tendon, right wrist	1	0	0.93
Other specified disorders of tendon, left wrist	1	0	0.93
Other recurrent depressive disorders	1	0	0.94
Other disorders of urinary system	1	0	0.94
Nonscarring hair loss, unspecified	1	0	0.94
Neoplasm of unspecified behavior of bone, soft tissue, and skin	1	0	0.94
Lupus erythematosus	1	0	0.94
Localized swelling, mass and lump, right lower limb	1	0	0.95
Localized swelling, mass and lump, left lower limb	1	0	0.95
Lactose intolerance	1	0	0.95
Iridocyclitis	1	0	0.95
Immune thrombocytopenic purpura	1	0	0.95
Hypothyroidism	1	0	0.96
Hereditary motor and sensory neuropathy	1	0	0.96
Fragile X chromosome	1	0	0.96
Dorsalgia, unspecified	1	0	0.96
Disorder of the skin and subcutaneous tissue, unspecified	1	0	0.97
Disorder of patella	1	0	0.97
Disorder of central nervous system, unspecified	1	0	0.97
Depression	1	0	0.97
Cluttering	1	0	0.97
Chronic kidney disease, stage 2 (mild)	1	0	0.98
Cervicalgia	1	0	0.98
Cerebral palsy, unspecified	1	0	0.98
Calcific tendinitis	1	0	0.98
Autistic disorder	1	0	0.98
Atrioventricular block, complete	1	0	0.99
Atresia of esophagus without fistula	1	0	0.99
Asperger's syndrome	1	0	0.99
Arthritis	1	0	0.99
Ankylosing spondylitis of unspecified sites in spine	1	0	0.99
Allergic rhinitis due to pollen	1	0	1
Allergic contact dermatitis due to plants, except food	1	0	1
Abdominal hernia	1	0	1

Table 3: Absolute frequency of diseases for MEN by ICD10

Modality	Count	Relative	Cumulative
Pruritus, unspecified	150	0.24	0.24
Atopic dermatitis, unspecified	93	0.15	0.38
Dyshidrosis	77	0.12	0.5
Rhinitis	72	0.11	0.62
Asthma	68	0.11	0.72
Migraine, unspecified	23	0.04	0.76
Eczema	23	0.04	0.79
Psoriasis	20	0.03	0.83
Depression	10	0.02	0.84
Food allergy	8	0.01	0.85
ADHD	7	0.01	0.86
Dorsalgia, unspecified	6	0.01	0.87
Anxiety	6	0.01	0.88
Epilepsy, unspecified, not intractable, without status epilepticus	5	0.01	0.89
Tension headache (TTH)	4	0.01	0.9
Scoliosis	4	0.01	0.9
Imnsonia	4	0.01	0.91
Unspecified abdominal pain	3	0	0.92
Diabetes Type 1	3	0	0.92
Von Willebrand's disease	2	0	0.92
Other specified injuries of left lower leg	2	0	0.93
Osteomyelitis, unspecified	2	0	0.93
Lactose intolerance	2	0	0.93
Cervicalgia	2	0	0.94
Celiac disease	2	0	0.94
Vitiligo	1	0	0.94
Urticaria, unspecified	1	0	0.94
Urticaria due to cold and heat	1	0	0.94
Urinary tract infection, site not specified	1	0	0.95
Unspecified superficial injury of shoulder	1	0	0.95
Unspecified superficial injury of knee	1	0	0.95
Unspecified psychosis	1	0	0.95
Sebaceous cyst	1	0	0.95
Polycystic ovarian syndrome	1	0	0.95
Other specified intervertebral disc displacement	1	0	0.95
Other specified injuries of right lower leg	1	0	0.96
Other specified congenital malformation of peripheral vascular system	1	0	0.96
Other congenital malformations of aorta	1	0	0.96
Other chronic pancreatitis	1	0	0.96
Other articular cartilage disorders, hip	1	0	0.96
Other arthritis	1	0	0.96
Osteomyelitis	1	0	0.97
Myotonic muscular dystrophy	1	0	0.97
Myalgia	1	0	0.97
Malignant neoplasm of thyroid gland	1	0	0.97
Localized swelling, mass and lump, left lower limb	1	0	0.97
Legg–Calvé–Perthes disease (LCPD)	1	0	0.97
Juvenile osteochondrosis of patella	1	0	0.97
Juvenile myoclonic epilepsy, intractable, without status epilepticus	1	0	0.98
Juvenile arthritis	1	0	0.98
Intentional self-harm by sharp object	1	0	0.98
Infectious mononucleosis, unspecified without complication	1	0	0.98
Hypermobility syndrome	1	0	0.98
Headache	1	0	0.98
Gastritis	1	0	0.99
Gastric ulcer	1	0	0.99
Eating Disorder	1	0	0.99
Crohns disease	1	0	0.99
Chronic Fatigue Syndrome	1	0	0.99
Autoimmune hepatitis	1	0	0.99
Asperger's syndrome	1	0	1
Arthritis	1	0	1
Allergic rhinitis due to pollen	1	0	1
Acne	1	0	1

Table 4: Absolute frequency of diseases for WOMEN by ICD10

- 1.2 Biomarkers differences for each specific disease**
- 1.3 General statistics for medicines**
- 1.4 Biomarkers differences for each specific medicines**
- 1.5 Tables for presentations, delete this**

Protein	Pruritus, unspecified	Rhinitis	Asthma	Atopic dermatitis, unspecified	Dysidrosis	Psoriasis	Eczema	Migraine, unspecified	ADHD	Food allergy	Celiac disease
Adenosine Deaminase											
Artemin								****	****	****	****
Axin-1											
Brain-derived neurotrophic factor											
Beta-nerve growth factor											
Caspase-8											
Eotaxin											
C-C motif chemokine 19											
C-C motif chemokine 20											
C-C motif chemokine 23											
C-C motif chemokine 25											
C-C motif chemokine 28											
C-C motif chemokine 3									*		
C-C motif chemokine 4											
Natural killer cell receptor 2B4											
CD40L receptor											
T-cell surface glycoprotein CD5											
T cell surface glycoprotein CD6 isoform											
CUB domain-containing protein 1											
Macrophage colony-stimulating factor 1							*				
Cystatin D											
Fractalkine											
C-X-C motif chemokine 1											
C-X-C motif chemokine 10											
C-X-C motif chemokine 11											
C-X-C motif chemokine 5											
C-X-C motif chemokine 6											
C-X-C motif chemokine 9											
Delta and Notch-like epidermal growth factor-related receptor											
Eukaryotic translation initiation factor 4E-binding protein 1											
Protein S100-A12											
Fibroblast growth factor 19											
Fibroblast growth factor 21											
Fibroblast growth factor 23											
Fibroblast growth factor 5											
Fms-related tyrosine kinase 3 ligand											
Glial cell line-derived neurotrophic factor											
Hepatocyte growth factor											
Interferon gamma							****	****	****	****	****
Interleukin-10											
Interleukin-10 receptor subunit alpha											
Interleukin-10 receptor subunit beta											
Interleukin-12 subunit beta											
Interleukin-13								****	****		
Interleukin-15 receptor subunit alpha											
Interleukin-17A											
Interleukin-17C											
Interleukin-18											
Interleukin-18 receptor 1											
Interleukin-1 alpha										****	****
Interleukin-2	****	****	****	****	****	****	****	****	****	****	****
Interleukin-20										****	****
Interleukin-20 receptor subunit alpha											****
Interleukin-22 receptor subunit alpha-1	****	****	****	****	****	****	****	****	****	****	****
Interleukin-24										****	****
Interleukin-2 receptor subunit beta							****		****	****	****
Interleukin-33						****		****		****	****
Interleukin-4											
Interleukin-5											
Interleukin-6											
Interleukin-7											
Interleukin-8											
Leukemia inhibitory factor						*			****		****
Leukemia inhibitory factor receptor											
Monocyte chemotactic protein 1											
Monocyte chemotactic protein 2											
Monocyte chemotactic protein 3											
Monocyte chemotactic protein 4				**							
Matrix metalloproteinase-1											
Matrix metalloproteinase-10											
Neurturin					*		****	****	****		
Neurotrophin-3											
Osteoprotegerin											
Oncostatin-M											
Programmed cell death 1 ligand 1											
Stem cell factor											
SIR2-like protein 2											
Signaling lymphocytic activation molecule											
Sulfotransferase 1A1											
STAM-binding protein											
Transforming growth factor alpha											
Latency-associated peptide transforming growth factor beta-1											
Tumor necrosis factor										****	****
TNF-beta											
Tumor necrosis factor receptor superfamily member 9											
Tumor necrosis factor ligand superfamily member 14											
TNF-related apoptosis-inducing ligand											
TNF-related activation-induced cytokine											
Thymic stromal lymphopoietin							****		****	****	****
Tumor necrosis factor											
Urokinase-type plasminogen activator											
Vascular endothelial growth factor A											

Table 5: Significant biomarkers for diseases and men, adjusted for Bonferroni

Protein	Pruritus, unspecified	Atopic dermatitis, unspecified	Dyshidrosis	Rhinitis	Asthma	Migraine, unspecified	Eczema	Psoriasis	Depression	Food allergy	ADHD	Dorsalgia, unspecified	Anxiety	Epilepsy, unspecified, not intractable, without status epilepticus	Tension headache (TTH)	Scoliosis	Insomnia
Adenosine Deaminase																	
Artemin												****					****
Axin-1																	
Brain-derived neurotrophic factor																	
Beta-nerve growth factor																	
Caspase-8																	
Eotaxin																	
C-C motif chemokine 19																	
C-C motif chemokine 20																	
C-C motif chemokine 23																	
C-C motif chemokine 25																	
C-C motif chemokine 28																	
C-C motif chemokine 3																	
C-C motif chemokine 4																	
Natural killer cell receptor 2B4																	
CD40L receptor																	
T-cell surface glycoprotein CD5																	
T cell surface glycoprotein CD6 isoform														*			
CUB domain-containing protein 1																	
Macrophage colony-stimulating factor 1																	
Cystatin D																	
Fractalkine																	****
C-X-C motif chemokine 1																	
C-X-C motif chemokine 10																	
C-X-C motif chemokine 11																	
C-X-C motif chemokine 5																	
C-X-C motif chemokine 6																	
C-X-C motif chemokine 9																	
Delta and Notch-like epidermal growth factor-related receptor																	
Eukaryotic translation initiation factor 4E-binding protein 1																	
Protein S100-A12																	
Fibroblast growth factor 19																	
Fibroblast growth factor 21																	
Fibroblast growth factor 23																	
Fibroblast growth factor 5																	
Fms-related tyrosine kinase 3 ligand																	
Glial cell line-derived neurotrophic factor																	
Hepatocyte growth factor																	
Interferon gamma						****	****	****	****	****	****	****	****	****	****	****	****
Interleukin-10																	
Interleukin-10 receptor subunit alpha																	
Interleukin-10 receptor subunit beta																	
Interleukin-12 subunit beta																	
Interleukin-13						****	****					****		****		****	
Interleukin-15 receptor subunit alpha																	
Interleukin-17A																	
Interleukin-17C																	
Interleukin-18																	
Interleukin-18 receptor 1																	
Interleukin-1 alpha														****		****	
Interleukin-2	****	****		****	****	****	****	****	****	****	****	****	****	****	****	****	****
Interleukin-20														****		****	
Interleukin-20 receptor subunit alpha											*				*		*
Interleukin-22 receptor subunit alpha-1	****	****		****	****	****	****	****	****	****	****	****	****	****	****	****	****
Interleukin-24									****	****	****	****	****	****	****	****	****
Interleukin-2 receptor subunit beta									****	****	****	****	****	****	****	****	****
Interleukin-33								****	****	****	****	****	****	****	****	****	****
Interleukin-4																	
Interleukin-5												*	****	****			****
Interleukin-6																	
Interleukin-7																	
Interleukin-8																	
Leukemia inhibitory factor													****	****	****		****
Leukemia inhibitory factor receptor																	
Monocyte chemotactic protein 1																	
Monocyte chemotactic protein 2																	
Monocyte chemotactic protein 3																	
Monocyte chemotactic protein 4																	
Matrix metalloproteinase-1																	
Matrix metalloproteinase-10																	
Neurturin															****	****	****
Neurotrophin-3																	
Osteoprotegerin																	
Oncostatin-M																	
Programmed cell death 1 ligand 1																	
Stem cell factor																	
SIR2-like protein 2																	
Signaling lymphocytic activation molecule																	
Sulfotransferase 1A1																	
STAM-binding protein																	
Transforming growth factor alpha																	
Latency-associated peptide transforming growth factor beta-1																	
Tumor necrosis factor														****			
TNF-beta																	
Tumor necrosis factor receptor superfamily member 9																	
Tumor necrosis factor ligand superfamily member 14																	
TNF-related apoptosis-inducing ligand																	
TNF-related activation-induced cytokine															***	***	
Thymic stromal lymphopoietin										****	****	****		****	****	****	****
Tumor necrosis factor																	
Urokinase-type plasminogen activator																	
Vascular endothelial growth factor A																	

Table 6: Significant biomarkers for diseases and women, adjusted for Bonferroni

Modality	Count	Relative	Cumulative
Respiratory system	83	0.41	0.41
Nervous system	59	0.29	0.7
Musculo-skeletal system	35	0.17	0.88
Dermatologicals	12	0.06	0.94
Antiinfectives for systemic use	7	0.03	0.97
Systemic hormonal preparations, excluding sex hormones and insulins	2	0.01	0.98
Blood and blood forming organs	2	0.01	0.99
Alimentary tract and metabolism	2	0.01	1

Table 7: Absolute frequency of medicines for MEN by ATC group

Modality	Count	Relative	Cumulative
Genito-urinary system and sex hormones	163	0.33	0.33
Respiratory system	113	0.23	0.56
Nervous system	112	0.23	0.79
Musculo-skeletal system	85	0.17	0.96
Dermatologicals	8	0.02	0.98
Antiinfectives for systemic use	8	0.02	0.99
Alimentary tract and metabolism	3	0.01	1
Systemic hormonal preparations, excluding sex hormones and insulins	1	0	1

Table 8: Absolute frequency of medicines for WOMEN by ATC group

## 2 Images



Modality	Count	Relative	Cumulative
Paracetamol	49	0.24	0.24
Ibux 200 mg	24	0.12	0.36
Zyrtec	21	0.1	0.47
Ventolin	18	0.09	0.55
Cetirizin	18	0.09	0.64
Symbicort	6	0.03	0.67
Ibux 400 mg	6	0.03	0.7
Seretide	5	0.02	0.73
Roaccutan	5	0.02	0.75
Concerta	4	0.02	0.77
Singulair	3	0.01	0.79
Ritalin	3	0.01	0.8
Otrivin	3	0.01	0.82
Ibux 600 mg	3	0.01	0.83
Tetralysal	2	0.01	0.84
Tetracyclin	2	0.01	0.85
Paralgin forte	2	0.01	0.86
Locoid	2	0.01	0.87
Kestine	2	0.01	0.88
Insulin	2	0.01	0.89
Betnovat	2	0.01	0.9
Voltaren	1	0	0.91
Teralysal	1	0	0.91
Rhinocort	1	0	0.92
Prednisolon	1	0	0.92
Mildison	1	0	0.93
Lomudal	1	0	0.93
Livostin	1	0	0.94
Levaxin	1	0	0.94
Lamictal	1	0	0.95
Hydrokortison	1	0	0.95
Flutide nasal	1	0	0.96
Ferromax	1	0	0.96
Ery-Max	1	0	0.97
Ekvacillin	1	0	0.97
Duroferron	1	0	0.98
Diclofenac	1	0	0.98
Clarityn	1	0	0.99
Bricanyl	1	0	0.99
Apolar	1	0	1
Aerius	1	0	1

**Table 9:** Absolute frequency of medicines for MEN by brand

Modality	Count	Relative	Cumulative
Paracetamol	82	0.17	0.17
Microgynon	82	0.17	0.33
Ibux 200 mg	52	0.11	0.44
Loette	32	0.06	0.5
Ventolin	29	0.06	0.56
Zyrtec	26	0.05	0.61
Ibux 400 mg	25	0.05	0.67
Cetirizin	22	0.04	0.71
Mercilon	12	0.02	0.73
Yasmin	10	0.02	0.75
Cerazette	10	0.02	0.77
Imigran	8	0.02	0.79
Yasminelle	6	0.01	0.8
Flutide	6	0.01	0.82
Symbicort	5	0.01	0.83
Livostin	5	0.01	0.84
Ibux 600 mg	4	0.01	0.84
Depo-provera	4	0.01	0.85
Bricanyl	4	0.01	0.86
Zyrona	3	0.01	0.87
Voltaren	3	0.01	0.87
Roaccutan	3	0.01	0.88
Ritalin	3	0.01	0.88
Pinex	3	0.01	0.89
Paralgin forte	3	0.01	0.9
Flutide nasal	3	0.01	0.9
Concerta	3	0.01	0.91
Apocillin	3	0.01	0.91
Tetralysal	2	0	0.92
Teralysal	2	0	0.92
Synfase	2	0	0.93
Singulair	2	0	0.93
Seretide	2	0	0.94
Rhinox	2	0	0.94
Loratadin	2	0	0.94
Lamictal	2	0	0.95
Insulin	2	0	0.95
Hydrokortison	2	0	0.96
Evra	2	0	0.96
Apolar	2	0	0.96
Aerius	2	0	0.97
Zoloft	1	0	0.97
Zantac	1	0	0.97
Trimonil	1	0	0.97
Stesolid	1	0	0.98
Seroquel	1	0	0.98
Pulmicort	1	0	0.98
Panodil	1	0	0.98
Otrivin	1	0	0.98
Naprosyn	1	0	0.99
Levaxin	1	0	0.99
Kestine	1	0	0.99
Fenazon	1	0	0.99
Efexor	1	0	0.99
Doksycyklin HEXAL	1	0	1
Cipralex	1	0	1
Betnovat	1	0	1

Table 10: Absolute frequency of medicines for WOMEN by brand

Protein	Paracetamol	Ibux 200 mg	Zytec	Venolin	Cerizin	Symbicort	Ibux 400 mg	Seretide	Roaccutan	Concerta
Adenosine Deaminase										
Artemin				**			****	****		****
Axin-1										
Brain-derived neurotrophic factor										
Beta-nerve growth factor										
Caspase-8										
Eotaxin										
C-C motif chemokine 19										
C-C motif chemokine 20										
C-C motif chemokine 23										
C-C motif chemokine 25										
C-C motif chemokine 28										
C-C motif chemokine 3										****
C-C motif chemokine 4										
Natural killer cell receptor 2B4										
CD40L receptor										
T-cell surface glycoprotein CD5										
T cell surface glycoprotein CD6 isoform										
CUB domain-containing protein 1										
Macrophage colony-stimulating factor 1										
Cystatin D										
Fractalkine										
C-X-C motif chemokine 1										
C-X-C motif chemokine 10										
C-X-C motif chemokine 11										
C-X-C motif chemokine 5										
C-X-C motif chemokine 6										
C-X-C motif chemokine 9										
Delta and Notch-like epidermal growth factor-related receptor										
Eukaryotic translation initiation factor 4E-binding protein 1										
Protein S100-A12										
Fibroblast growth factor 19										
Fibroblast growth factor 21									*	
Fibroblast growth factor 23										
Fibroblast growth factor 5										
Fms-related tyrosine kinase 3 ligand										
Glial cell line-derived neurotrophic factor										
Hepatocyte growth factor										
Interferon gamma				****		****	****	****		****
Interleukin-10										
Interleukin-10 receptor subunit alpha								**		
Interleukin-10 receptor subunit beta										
Interleukin-12 subunit beta										
Interleukin-13							****	****	****	****
Interleukin-15 receptor subunit alpha										
Interleukin-17A										
Interleukin-17C										
Interleukin-18										
Interleukin-18 receptor 1										
Interleukin-1 alpha							****			****
Interleukin-2	****	****	****	****	****	****	****	****	****	****
Interleukin-20										****
Interleukin-20 receptor subunit alpha			*					**		****
Interleukin-22 receptor subunit alpha-1	****	****	****	****	****	****	****	****	****	****
Interleukin-24			*							****
Interleukin-2 receptor subunit beta			****		****	****	****		****	****
Interleukin-33			****	****		****		****	****	
Interleukin-4		*						****	****	
Interleukin-5										
Interleukin-6										
Interleukin-7										
Interleukin-8										
Leukemia inhibitory factor		***		**	**					****
Leukemia inhibitory factor receptor										
Monocyte chemotactic protein 1										
Monocyte chemotactic protein 2		*								
Monocyte chemotactic protein 3										
Monocyte chemotactic protein 4										
Matrix metalloproteinase-1										
Matrix metalloproteinase-10										
Neurturin			**			****		****		****
Neurotrophin-3										
Osteoprotegerin										
Oncostatin-M										
Programmed cell death 1 ligand 1										
Stem cell factor										
SIR2-like protein 2										
Signaling lymphocytic activation molecule										
Sulfotransferase 1A1										
STAM-binding protein										
Transforming growth factor alpha										
Latency-associated peptide transforming growth factor beta-1										
Tumor necrosis factor							****			****
TNF-beta										
Tumor necrosis factor receptor superfamily member 9										
Tumor necrosis factor ligand superfamily member 14										
TNF-related apoptosis-inducing ligand										
TNF-related activation-induced cytokine										
Thymic stromal lymphopoietin			****	****		****		****	****	****
Tumor necrosis factor										
Urokinase-type plasminogen activator										
Vascular endothelial growth factor A										

Table 11: Significant biomarkers for medicines and men, adjusted for Bonferroni

Protein	Paracetamol	Microgynon	Ibux 200 mg	Loette	Ventolin	Zynec	Ibux 400 mg	Cerizin	Mercilon	Yamin	Cerazette	Imigran	Yasminele	Fluide	Symbicort	Livostin	Ibux 600 mg	Depo-provera	Brianyl
Adenosine Deaminase																			
Artemin									****	****			****		****		****		****
Axin-1																			
Brain-derived neurotrophic factor				*															
Beta-nerve growth factor																			
Caspase-8																			
Eotaxin		****						*											
C-C motif chemokine 19																			
C-C motif chemokine 20																			
C-C motif chemokine 23				***															
C-C motif chemokine 25																			
C-C motif chemokine 28																			
C-C motif chemokine 3																			
C-C motif chemokine 4																			
Natural killer cell receptor 2B4																			
CD40L receptor																			
T-cell surface glycoprotein CD5																			
T cell surface glycoprotein CD6 isoform		*																	
CUB domain-containing protein 1																			
Macrophage colony-stimulating factor 1		****																	
Cystatin D																			
Fractalkine																			
C-X-C motif chemokine 1																			
C-X-C motif chemokine 10																			
C-X-C motif chemokine 11																			
C-X-C motif chemokine 5																			
C-X-C motif chemokine 6		**																	
C-X-C motif chemokine 9																			
Delta and Notch-like epidermal growth factor-related receptor																			
Eukaryotic translation initiation factor 4E-binding protein 1		*																	
Protein S100-A12																			
Fibroblast growth factor 19		***																	
Fibroblast growth factor 21																			
Fibroblast growth factor 23				***	**				**					***					
Fibroblast growth factor 5		*																	
Fms-related tyrosine kinase 3 ligand																			
Glial cell line-derived neurotrophic factor	**	****		****					*	***			**						
Hepatocyte growth factor																			
Interferon gamma				****					****	****	****	****	****			****	****	****	****
Interleukin-10																			
Interleukin-10 receptor subunit alpha																			
Interleukin-10 receptor subunit beta																			
Interleukin-12 subunit beta																			
Interleukin-13									****	****		****	****			****		****	****
Interleukin-15 receptor subunit alpha																			
Interleukin-17A																			
Interleukin-17C																			
Interleukin-18																			
Interleukin-18 receptor 1		*																	
Interleukin-1 alpha																****			
Interleukin-2	****		****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
Interleukin-20																****			
Interleukin-20 receptor subunit alpha													*					*	
Interleukin-22 receptor subunit alpha-1		***	***	***	***	***		***	***	***	***	***	***	***	***	***	***	***	***
Interleukin-24				***					***	***	***	***	***	***	***	***	***	***	***
Interleukin-2 receptor subunit beta									***			***	***	***	***	***	***	***	***
Interleukin-33				***					***	***			***	***	***	***	***	***	***
Interleukin-4											**								
Interleukin-5				*															
Interleukin-6																			
Interleukin-7																			
Interleukin-8																			
Leukemia inhibitory factor										***			***			***			***
Leukemia inhibitory factor receptor		****		**															
Monocyte chemotactic protein 1																			
Monocyte chemotactic protein 2																			
Monocyte chemotactic protein 3																			
Monocyte chemotactic protein 4		***																	
Matrix metalloproteinase-1																			
Matrix metalloproteinase-10																			
Neurturin										***		***	***				***		
Neurotrophin-3																			
Osteoprotegerin																			
Oncostatin-M																			
Programmed cell death 1 ligand 1																			
Stem cell factor	*	****		**															
SIR2-like protein 2																			
Signaling lymphocytic activation molecule																			*
Sulfotransferase 1A1																			
STAM-binding protein																			
Transforming growth factor alpha																			
Latency-associated peptide transforming growth factor beta-1																**			
Tumor necrosis factor																			
TNF-beta																			
Tumor necrosis factor receptor superfamily member 9																			
Tumor necrosis factor ligand superfamily member 14																			
TNF-related apoptosis-inducing ligand	**			**															
TNF-related activation-induced cytokine	*																		
Thymic stromal lymphopoietin						****	****	****	****	****					****	****	****	****	****
Tumor necrosis factor	****																		
Urokinase-type plasminogen activator	****			**															
Vascular endothelial growth factor A	*																		

Table 12: Significant biomarkers for medicines and women, adjusted for Bonferroni

Protein	Ibux 200 mg	Ibux 400 mg	Ibux 600 mg
Artemin			****
Interferon gamma			****
Interleukin-2	****	****	****
Interleukin-22 receptor subunit alpha-1	****		****
Interleukin-24			****
Interleukin-2 receptor subunit beta			****
Interleukin-33			****
Neurturin			****
Thymic stromal lymphopoietin		****	****

Table 13: Comparison of antiinflammatories with respect biomarkers

Protein	Microgynon	Loette	Cetizin	Mercilon	Yasmin	Cerazette	Yasminelle	Depo-provera
Artemin				***	***		***	
Beta-nerve growth factor		*						
Eotaxin	***		*					
C-C motif chemokine 23		**						
T cell surface glycoprotein CD6 isoform	*							
Macrophage colony-stimulating factor 1	***							
C-X-C motif chemokine 6	**							
Eukaryotic translation initiation factor 4E-binding protein 1	*							
Fibroblast growth factor 19	***							
Fibroblast growth factor 23		***		**			***	
Fibroblast growth factor 5	*							
Glial cell line-derived neurotrophic factor	***	***		*	***		**	
Interferon gamma		***		***	***	***	***	***
Interleukin-13				***	***		***	***
Interleukin-18 receptor 1	*							
Interleukin-2		***	***	***	***	***	***	***
Interleukin-20 receptor subunit alpha							*	*
Interleukin-22 receptor subunit alpha-1	***	***	***	***	***	***	***	***
Interleukin-24				***		***	***	***
Interleukin-2 receptor subunit beta				***				
Interleukin-33				***	***		***	***
Interleukin-4						**		
Interleukin-5		*						
Leukemia inhibitory factor					***		***	
Leukemia inhibitory factor receptor	***	**						
Monocyte chemotactic protein 4	***							
Neurturin					***		***	
Stem cell factor	***	**						
TNF-related apoptosis-inducing ligand	**	**						
TNF-related activation-induced cytokine	*							
Thymic stromal lymphopoietin			***	***	***	***		***
Tumor necrosis factor	***							
Urokinase-type plasminogen activator	***	**						
Vascular endothelial growth factor A	*							

Table 14: Comparison of hormonal contraceptives with respect biomarkers

### **3 Change History**

This section helps keeping track of all the changes done in the document.

#### **0.1**

Nothing yet.