

Appendix 5: Overall medication use on 1st and 2nd ATC level according to timing of use in pregnancy (n=9,459)*

Anatomical Therapeutic Chemical (ATC) classification index 1st and 2nd levels		Anytime during pregnancy n (%)	1st trimester n (%)	2nd trimester n (%)	3rd trimester n (%)
A	Alimentary tract and metabolism	4,275 (45.2)	2,786 (29.5)	3,390 (35.8)	3,160 (33.4)
A01	Stomatological preparations	62 (0.7)	42 (0.4)	52 (0.5)	46 (0.5)
A02	<i>Drugs for acid related disorders</i>	3,242 (34.3)	2,034 (21.5)	2,634 (27.8)	2,615 (27.6)
A03	Drugs for functional gastrointestinal disorders	650 (6.9)	543 (5.7)	512 (5.4)	381 (4.0)
A04	Antiemetics and antinauseants	136 (1.4)	124 (1.3)	114 (1.2)	81 (0.9)
A05	Bile and liver therapy	24 (0.3)	15 (0.2)	17 (0.2)	16 (0.2)
A06	<i>Laxatives</i>	978 (10.3)	696 (7.4)	835 (8.8)	735 (7.8)
A07	Antidiarrheals, intestinal antiinflammatory/antiinfective agents	89 (0.9)	61 (0.6)	69 (0.7)	57 (0.6)
A09	Digestives, incl. enzymes	9 (0.1)	7 (0.1)	8 (0.1)	3 (0.0)
A10	Drugs used in diabetes	85 (0.9)	57 (0.6)	58 (0.6)	45 (0.5)
-	Unspecified medications for nausea	6 (0.1)	5 (0.1)	4 (0.0)	3 (0.0)
B	Blood and blood forming organs	148 (1.6)	89 (0.9)	102 (1.1)	79 (0.8)
B01	<i>Antithrombotic agents</i>	135 (1.4)	78 (0.8)	95 (1.0)	72 (0.8)
B02	Antihemorrhagics	5 (0.1)	4 (0.0)	2 (0.0)	3 (0.0)
B05	Blood substitutes and perfusion solutions	7 (0.1)	5 (0.1)	5 (0.1)	2 (0.0)
B06	Other hematological agents	3 (0.0)	2 (0.0)	2 (0.0)	3 (0.0)
C	Cardiovascular system	202 (2.1)	132 (1.4)	161 (1.7)	133 (1.4)
C01	Cardiac therapy	7 (0.1)	4 (0.0)	5 (0.1)	4 (0.1)
C02	<i>Antihypertensives</i>	56 (0.6)	34 (0.4)	42 (0.4)	31 (0.3)
C03	Diuretics	6 (0.1)	5 (0.1)	3 (0.0)	2 (0.0)
C04	Peripheral vasodilators	3 (0.0)	3 (0.0)	3 (0.0)	3 (0.0)
C05	Vasoprotectives	44 (0.5)	24 (0.3)	35 (0.4)	31 (0.3)
C07	<i>Beta blocking agents</i>	74 (0.8)	51 (0.5)	59 (0.6)	51 (0.5)
C08	Calcium channel blockers	21 (0.2)	16 (0.2)	18 (0.2)	13 (0.1)
C09	Agents acting on the renin-angiotensin system	4 (0.0)	2 (0.0)	2 (0.0)	2 (0.0)

Anatomical Therapeutic Chemical (ATC) classification index 1 st and 2 nd levels		Anytime during pregnancy n (%)	1 st trimester n (%)	2 nd trimester n (%)	3 rd trimester n (%)
C10	Lipid modifying agents	5 (0.1)	3 (0.0)	4 (0.0)	4 (0.0)
-	Unspecified medications for hypertension	4 (0.0)	3 (0.0)	3 (0.0)	2 (0.0)
D	Dermatologicals	162 (1.7)	116 (1.2)	127 (1.3)	103 (1.1)
D01	<i>Antifungals for dermatological use</i>	38 (0.4)	28 (0.3)	33 (0.3)	27 (0.3)
D02	Emollients and protectives	14 (0.1)	11 (0.1)	12 (0.1)	10 (0.1)
D03	Preparations for treatment of wounds and ulcers	4 (0.0)	3 (0.0)	3 (0.0)	3 (0.0)
D04	Antipruritics, incl. antihistamines, anaesthetics, etc.	6 (0.1)	3 (0.0)	5 (0.1)	4 (0.0)
D05	Antipsoriatics	3 (0.0)	1 (0.0)	1 (0.0)	1 (0.0)
D06	Antibiotics and chemotherapeutics for dermatological use	21 (0.2)	15 (0.2)	16 (0.2)	13 (0.1)
D07	<i>Corticosteroids, dermatological preparations</i>	56 (0.6)	40 (0.4)	39 (0.4)	31 (0.3)
D08	Antiseptics and disinfectants	14 (0.1)	9 (0.1)	10 (0.1)	9 (0.1)
D09	Medicated dressings	5 (0.1)	5 (0.1)	5 (0.1)	3 (0.0)
D10	Anti-acne preparations	4 (0.0)	4 (0.0)	4 (0.0)	2 (0.0)
D11	Other dermatological preparations	1 (0.0)	-	1 (0.0)	1 (0.0)
-	Unspecified medications for skin disorders	5 (0.1)	4 (0.0)	4 (0.0)	3 (0.0)
G	Genitourinary system and sex hormones	488 (5.2)	318 (3.4)	394 (4.2)	303 (3.2)
G01	<i>Gynaecological antiinfective and antiseptics</i>	406 (4.3)	255 (2.7)	337 (3.6)	258 (2.7)
G02	Other gynecologicals	13 (0.1)	10 (0.1)	10 (0.1)	8 (0.1)
G03	Sex hormones and modulators of the genital system	68 (0.7)	55 (0.6)	50 (0.5)	36 (0.4)
G04	Urologicals	12 (0.1)	8 (0.1)	7 (0.1)	8 (0.1)
H	Systemic hormonal preparations, excl. sex hormones and insulins	486 (5.1)	304 (3.2)	346 (3.7)	262 (2.8)
H01	Pituitary and hypothalamic hormones and analogues	4 (0.0)	4 (0.0)	3 (0.0)	4 (0.0)
H02	Corticosteroids for systemic use	93 (1.0)	64 (0.7)	78 (0.8)	63 (0.7)
H03	<i>Thyroid therapy</i>	397 (4.2)	242 (2.6)	273 (2.9)	201 (2.1)
J	Anti-infective for systemic use	1,381 (14.6)	874 (9.2)	1,107 (11.7)	943 (10.0)
J01	<i>Antibacterials for systemic use</i>	1,325 (14.0)	840 (8.9)	1,061 (11.2)	908 (9.6)
J02	Antimycotics for systemic use	23 (0.2)	16 (0.2)	21 (0.2)	17 (0.2)

Anatomical Therapeutic Chemical (ATC) classification index 1 st and 2 nd levels		Anytime during pregnancy n (%)	1 st trimester n (%)	2 nd trimester n (%)	3 rd trimester n (%)
J05	Antivirals for systemic use	39 (0.4)	27 (0.3)	30 (0.3)	26 (0.3)
J06	Immune sera and immunoglobulins	4 (0.0)	2 (0.0)	3 (0.0)	4 (0.0)
J07	Vaccines	10 (0.1)	5 (0.1)	8 (0.1)	5 (0.1)
L	Antineoplastic and immunomodulating agents	134 (1.4)	83 (0.9)	117 (1.2)	97 (1.0)
L01	Antineoplastic agents	4 (0.0)	3 (0.0)	4 (0.0)	1 (0.0)
L03	<i>Immunostimulants</i>	96 (1.0)	58 (0.6)	86 (0.9)	78 (0.8)
L04	Immunosuppressants	34 (0.4)	22 (0.2)	27 (0.3)	18 (0.2)
M	Musculo-skeletal system	571 (6.0)	416 (4.4)	437 (4.6)	380 (4.0)
M01	<i>Antiinflammatory and antirheumatic products</i>	515 (5.4)	378 (4.0)	396 (4.2)	342 (3.6)
M02	Topical products for joint and muscular pain	54 (0.6)	37 (0.4)	41 (0.4)	41 (0.4)
M03	Muscle relaxants	8 (0.1)	8 (0.1)	4 (0.0)	1 (0.0)
M05	Drugs for treatment of bone diseases	1 (0.0)	-	1 (0.0)	-
M09	Other drugs for disorders of the musculo-skeletal system	2 (0.0)	2 (0.0)	2 (0.0)	2 (0.0)
-	Unspecified medications for headache	2 (0.0)	1 (0.0)	1 (0.0)	1 (0.0)
N	Nervous system	5,441 (57.5)	3,638 (38.5)	4,247 (44.9)	3,449 (36.5)
N01	Anaesthetics	13 (0.1)	10 (0.1)	7 (0.1)	8 (0.1)
N02	<i>Analgesics</i>	5,297 (56.0)	3,562 (37.7)	4,171 (44.1)	3,387 (35.8)
N03	Antiepileptics	76 (0.8)	46 (0.5)	49 (0.5)	42 (0.4)
N05	<i>Psycholeptics</i>	210 (2.2)	173 (1.8)	164 (1.7)	138 (1.5)
N06	<i>Psychoanaleptics</i>	275 (2.9)	211 (2.2)	213 (2.3)	179 (1.9)
N07	Other nervous system drugs	6 (0.1)	4 (0.0)	5 (0.1)	3 (0.0)
-	Unspecified analgesics/medications for the nervous system	52 (0.5)	38 (0.4)	43 (0.5)	35 (0.4)
P	Antiparasitic products, insecticides and repellents	26 (0.3)	20 (0.2)	22 (0.2)	16 (0.2)
P01	<i>Antiprotozoals</i>	25 (0.3)	20 (0.2)	22 (0.2)	16 (0.2)
P02	Anthelmintics	1 (0.0)	-	-	-
R	Respiratory system	2,609 (27.6)	1,878 (19.9)	2,047 (21.6)	1,702 (18.0)
R01	<i>Nasal preparations</i>	1,547 (16.4)	1,079 (11.4)	1,229 (13.0)	1,046 (11.1)

Anatomical Therapeutic Chemical (ATC) classification index 1 st and 2 nd levels		Anytime during pregnancy n (%)	1 st trimester n (%)	2 nd trimester n (%)	3 rd trimester n (%)
R02	Throat preparations	167 (1.8)	110 (1.2)	131 (1.4)	122 (1.3)
R03	<i>Drugs for obstructive airway diseases</i>	396 (4.2)	269 (2.8)	304 (3.2)	242 (2.6)
R05	Cough and cold preparations	152 (1.6)	103 (1.1)	125 (1.3)	101 (1.1)
R06	<i>Antihistamines for systemic use</i>	912 (9.6)	777 (8.2)	740 (7.8)	580 (6.1)
R07	Other respiratory system products	3 (0.0)	2 (0.0)	3 (0.0)	3 (0.0)
-	Unspecified medications of the respiratory system	142 (1.5)	101 (1.1)	118 (1.2)	99 (1.0)
S	Sensory organs	45 (0.5)	33 (0.3)	38 (0.4)	28 (0.3)
S01	<i>Ophthalmologicals</i>	33 (0.3)	24 (0.3)	28 (0.3)	23 (0.2)
S02	Otologicals	5 (0.1)	3 (0.0)	4 (0.0)	2 (0.0)
S03	Ophthalmological and otological preparations	3 (0.0)	2 (0.0)	2 (0.0)	2 (0.0)
-	Unspecified medications for eye disorders	5 (0.1)	4 (0.0)	5 (0.1)	2 (0.0)
V	Various	15 (0.2)	10 (0.1)	11 (0.1)	9 (0.1)
Total medication use (any ATC)		7,678 (81.2)	4,710 (49.8)	5,538 (58.5)	4,663 (49.3)

*The most common medication groups within each ATC class are in italics. Exposure timing is defined as follows: 1st trimester (gestational weeks 0-12), 2nd trimester (gestational week 13-24), 3rd trimester (gestational week 25 and up to childbirth).