

**BERGAMO POISON CONTROL CENTER
AND CLINICAL TOXICOLOGY UNIT**

**TERATOLOGY
INFORMATION SERVICE**

REPORT 2000 - 2019



**In addition to the risk associated with fetal
exposure to teratogenic drugs,
there is a risk associated with misinformation
about the teratogenicity of drugs,
which can lead to unnecessary abortions
or the avoidance of needed therapy**

(Gideon Koren et al; NEJM 338: 1128-1137; 1998)



**Mamma,
non voltare
le spalle
alla salute.**

**Durante la gravidanza e l'allattamento
puoi curarti senza nuocere al tuo bambino.**

**Evita il "fai da te", anche con i cosiddetti prodotti naturali.
Non sospendere e non assumere farmaci di tua iniziativa.
Parlane col tuo medico o chiamaci.**

800.883.300

CENTRO ANTIVELENI DI BERGAMO

**SERVIZIO INFORMAZIONE FARMACI
IN GRAVIDANZA E ALLATTAMENTO**



MN
MARIO NEGRI
SERVIZIO
INFORMAZIONE FARMACI
IN GRAVIDANZA E ALLATTAMENTO

XXIII
Ospedale
Papa Giovanni XXIII

Sistema Socio Sanitario
**Regione
Lombardia**
ASST Papa Giovanni XXIII

BERGAMO POISON CONTROL CENTER

The Poison Control Center and Clinical Toxicology Unit was founded in June 1999 and since January 2000 has been operating with 6 physicians, specialists in Medical Toxicology; it is open 24 hours a day, 365 days a year.

As a Poison Control Center, our main activities are both the care of intoxicated patients admitted to the Bergamo's Hospital and the provision of advice on poisoning treatment by phone.

Moreover, the Bergamo Poison Control Centre is involved in the following activities:

- specialized toxicological consultation to health care providers, emergency medical services and general public;
- direct management of patients with acute poisoning at the Emergency Department of the hospital of Bergamo;
- retrieval, implementation and continuous updating of toxicological databases and databases relating to all products marketed in Italy (drugs, products for domestic use, products for agricultural use, industrial products, etc.);
- participation in surveillance and alert activities, in collaboration with the Italian Ministry of Health, the regions and institutionally competent bodies;
- monitoring the needs and assessing the effectiveness and safety of antidotes used in the National and Regional Health Systems;
- collaboration in the supply of antidotes at regional and national level;
- sharing our protocols for the care of poisoned patients with other medical facilities;
- toxicological support for the management of health emergencies arising from chemical accidents, conventional or not, including terrorism, in support of the Civil Protection, Ministry of Defence;
- participation in working groups for emergency plans for chemical industry at risk for major chemical accident;
- toxicological support to Prevention Departments, Veterinary Departments, Public Health Laboratories and to Zooprohylactic Institutes;
- consultations for drugs used in pregnancy and breastfeeding. This service provides advice to both physicians and general public. Our project sets out to describe, through the elaboration of these demands, the epidemiologic profile of drugs exposure in pregnancy and lactation and to enlarge the collaboration with the other Teratology Information Services in Italy and in Europe.

TERATOLOGY INFORMATION SERVICE

REPORT

1ST JANUARY 2000 - 31ST DECEMBER 2019

In twenty years of activity, the Teratology Information Service of Bergamo, within the Poison Control Service, received **316.834** requests for information about drugs in pregnancy (37%) and lactation (63%).

Pregnancy was confirmed in 90% of cases, suspected for 2.5%; in 7.5% of cases the patients called because of the intention to get pregnant. The majority of the callers were the patients themselves (76%). Pregnancies occurred in women under 20 years of age accounted for 3% of cases, ages 20 to 30 years for 24%, ages 30 to 40 years for 65% and 8% of the women were over 40 years old. Most of the pregnant patients were no smokers (91%), 5% stopped before or during pregnancy and 4% continue to smoke. Alcohol drinking was reported in 0.8% of the patients. At the moment of the call, a little more than the half of the pregnant patients (51%) had started taking folic acid supplementation and only 35% of them had started with folic acid before they became pregnant. Moreover, 14% of the patients have not taken folic acid at all.

Ninety-eight percent of the inquiries were related to drugs, mainly NSAIDs (14%) and antibiotics (10.2%). Anxiolytics (10.9%), antidepressants (7.9%) and antipsychotics (3%) were the drug classes of major concern.

The teratogenic risk assessment provided to the pregnant patients was within the range of safety in 89% of the requests. For the drugs with no data (7.5%) and those to have a known or possible risk (3.5%), we consider important to evaluate with the obstetricians the correct estimation of the risk to benefit ratio, suggesting alternative drugs when possible.

As in pregnancy, during **breastfeeding**, the majority of the callers were the patients themselves (85%). The ages of the women reflected, as expected, those of pregnancy with an average age of 35 years old; the age of the infants at the time of the request for our advice was between 0 to 6 months in 57% of the cases, from 7 to 12 months in 22%, from 13 to 24 months in 17% while, in 4% of the cases the infants were older than 2 years. Three percent of the women were smokers and in 1% reported drinking alcohol. Ninety-eight percent of the inquiries were related to drugs, mainly NSAIDs (20.6% of the total calls) and antibiotics (13.8%).

The risk assessment provided to the patients in breastfeeding was within the range of safety in 85% of the requests; for the drugs with no data in lactation (12%) and those to be of concern (3%) we evaluate to discuss with the paediatricians about the therapy and suggesting alternative drugs.

PAPA GIOVANNI XXIII HOSPITAL



BERGAMO POISON CONTROL CENTER & TERATOLOGY INFORMATION SERVICE



Collaboration with public organizations

- **Collaboration with the Health Ministry**
Participation in the Working Group aiming the definition of guidelines for the promotion of breastfeeding and drug use in lactation;
- **Collaboration with Health Protection Agency of Bergamo and Milan**
Collaboration with the Department of Health Protection Agency and Primary care, in order to disseminate information about the correct use of drugs during pregnancy and lactation;
- **Collaboration with the Department of Neonatology in the project, “Epidemiological surveillance of the use of antidepressant drugs during pregnancy and the effects on newborn”**
The objective of this study is to assert the relationship between these drugs and the neonatal clinical picture and the incidence of the side effects;
- **Collaboration with the Department of Psychiatry in the project, “National Guidelines on psychotropic drugs use in pregnancy and lactation”**
This collaboration aims to propose a National Guidelines on psychotropic drugs use in pregnancy and lactation with the contribute of the Italian Societies of Toxicology, Neonatology, Obstetrics and Gynecology and Psychopharmacology;
- **Collaboration with the Leche League**
Publication of a document for the OTC drugs during breastfeeding; it has been published on the Leche League web site;
- **Collaboration with the Department of Obstetrics during the “World Breastfeeding week”**
Collaboration in the hospital initiatives for the world breastfeeding week from 2016 to 2019;
- **Collaboration with the Poison Control Center of Milan**
This collaboration aims to evaluate the incidence of poisoning in pregnancy and perform follow-up after delivery and to create a database of poisoning in pregnancy including the outcome of intoxication and the subsequent follow-up after birth;
- **Collaboration with the University of Milan**
Teaching in Bachelor in Midwifery, University of Milan;
- **Collaboration with the Mario Negri Institute**
Carrying out scientific research projects;
- **Collaboration with the Department for Anti-Drug Policies**
Development of a multicentric research for information enhancement of the Early Warning System;
- **Collaboration with the Italian Society of Drug Addiction**
Development of a multicentric research for information of the new illicit drugs;
- **Collaboration with the Regional Health Protection Agency**
Collaboration on the WHO / UNICEF model "Protection, promotion and support of breastfeeding".

CLINICAL ACTIVITY

INTERDISCIPLINARY WORKING GROUP

In order to offer the best approach to the pregnant patients with specific or rare diseases, in 2008 a multidisciplinary working group was set up. Pregnant patients who require drug therapies are evaluated by different specialists (toxicologist, obstetrician cardiologist, dietitian, immunologist, infectious disease specialist, neurologist, pulmonary disease specialist, psychiatrist and rheumatologist).

The Working Group specialists operate through different ways depending on the case, in particular:

- sharing of protocols for specific diseases, based on the evaluation of the literature evidence;
- collegial evaluation of the patient;
- follow-up of pregnancy.

Social Networks

- Presentation of our Facebook page (Poison Control Center Papa Giovanni XXIII Hospital) marked in 2015 with more than 890.000 views.



<https://it-it.facebook.com/pages/category/Medical-Company/Centro-Antiveleni-Ospedale-Papa-Giovanni-XXIII-di-Bergamo-831712480279028/>

Mass Media

- Participation in the TV program "33 - Medicine, health, well-being" of the network TV Bergamo, dated 19/04/2015.
- Interview article for the magazine "Bergamo Salute N° 5" dated 26/09/2016
- Interview article for the journal "Corriere della Sera di Bergamo", dated 11/08/17
- Interview article for the journal "Eco di Bergamo", dated 23/01/18
- Participation in the TV program "Medicine" of the national TV network, dated 22/03/2018
- Interview-based blogging on "mammiamoci.blogspot.com", dated 05/05/18
- Interview-based blogging on "www.nostrofiglio.it", dated 26/07/18
- Interview article for the journal "Eco di Bergamo", dated 17/08/18
- Interview-based blogging on "Bergamonews.it" dated 12/12/2018
- Participation in the Radio program "Radio Due" of the national Radio network, dated 06/03/2019
- Participation in the TV program "Television News - Studio Aperto" of the national TV network, dated 5/07/2019.

Mass Media



Un Centro antiveleni da guinness In un anno oltre 42 mila consulenze

Asst Papa Giovanni. Nel 2016 incremento del 21%. Fiore all'occhiello il servizio per le donne in gravidanza: 33.150 richieste nel 2015. Il responsabile Bacis: riferimento a livello europeo

Offre consulenza su farmaci, terapie in gravidanza, consulenze tossicologiche 24 ore su 24: è il Centro antiveleni dell'ospedale Papa Giovanni XXIII di Bergamo, che vanta numeri da record, tanto che il responsabile del servizio, Giuseppe Bacis, non esita a sottolineare che quello di Bergamo è un «Centro tossicologico di riferimento nazionale, e uno dei più importanti a livello europeo come servizio di informazione teratologica». Qualche numero? Il Centro antiveleni (fondato nel 1999 e nel 2005 ha ottenuto il riconoscimento di Centro antiveleni nazionale) continua ad avere incrementi di notevole portata: solo nell'anno scorso ha effettuato 37.693 consulenze, alcune richieste e casi clinici hanno reso necessario, per la loro particolare complessità, contatti ripetuti per un totale di 42.280 consulenze fornite. E nel primo semestre 2016 si è avuto un ulteriore incremento del 21%. Tra i casi clinici, quelli che sono arrivati all'ospedale di Bergamo sono stati 688 e sono stati

seguiti direttamente dai medici della Tossicologia clinica per un totale di 944 visite specialistiche.

Sempre in linea

«Non solo. L'importanza del servizio che è a disposizione di tutti gli italiani - continua Giuseppe Bacis - è rappresentata dal fatto che in 15 anni il servizio di Tossicologia clinica si è occupato di oltre 65 mila consulenze per intossicazioni acute, e oltre 9.000 pazienti sono stati seguiti a Bergamo. Forniamo risposte in-



Centro antiveleni, il manifesto sul servizio per le donne in gravidanza

Mamma, non voltare le spalle alla salute.

ore su 24. E per questo avremmo bisogno di più personale: secondo gli standard internazionali dovremmo avere almeno 10 persone in organico per consentire turnazioni agevolate e possibilità di alternarsi con ferie e riposi, siamo invece in 7». Un'eccezione che ha al suo interno un'altra eccezione, ovvero il Servizio di informazione sull'uso di farmaci in gravidanza e allattamento.

«Ci sono esempi simili al nostro, a Roma e a Firenze, per esempio - rimarca Bacis - Ma nessuno ha i numeri no-

lità di fornire le informazioni in tempo reale: è possibile farlo grazie al fatto che abbiamo a disposizione diversi database di informazioni su farmaci e sulle patologie estremamente aggiornati oltre a strumenti d'avanguardia in rete». Un dato importante, tra le cifre del 2015 per il servizio di informazione in gravidanza, sta nel fatto che le richieste di informazioni riguardano farmaci nel 97% dei casi, in particolare ansiolitici, antidepressivi e antipsicotici, e che nella maggior parte dei casi sono state le pazienti stesse a contattare il servizio (nel 73% dei casi), seguite da medici o infermieri e ostetriche (29,5%) e da familiari (7,5%).

«Il fatto che siano soprattutto le donne ad accedere direttamente al servizio - evidenzia Bacis - segna, che purtroppo molto di quanto riguarda gravidanza e allattamento viene ancora delegato alla donna. Evidentemente ci sono colleghi medici, di fronte a una donna che deve assumere farmaci ed è incinta o vuole

L'ECO DI BERGAMO
DOMENICA 26 MARZO 2017

Centro antiveleni, boom di chiamate dalle mamme

Nel 2016. Cresciute del 16% le richieste sull'uso di farmaci in allattamento. Cifre record per il servizio della Tossicologia: oltre 130 consulenze al giorno

CARMEN TANCREDI

Oltre 130 consulenze fornite quotidianamente per 365 giorni, con un'impennata rispetto al 2015 del 15%, oltre 100 richieste di informazioni su farmaci in gravidanza e allattamento arrivate ogni giorno nel corso del 2016: è il bilancio da record del Centro antiveleni di Bergamo (unità di Tossicologia clinica) dell'ospedale Papa Giovanni XXIII di Bergamo, insieme al servizio apposito per le mamme in attesa o che hanno appena partorito, istituito dal 2002 e che ha visto una crescita esponenziale delle richieste nel corso degli anni.

Il Centro antiveleni di Bergamo è riconosciuto come struttura di portata nazionale dal ministero della Salute sin dal 2005 ed è un servizio che ha collegamenti continui con le banche dati europee e internazionali: fornisce una copertura di assistenza ventiquattrore su ventiquattrore.

Bacis: «Nel solo mese di gennaio 2017 sono arrivate 16.184 chiamate al numero verde»

in quattro e un'operatività, in caso di emergenza, in tempo reale. «L'attività è notevolmente aumentata nel corso degli anni - spiega Giuseppe Bacis, responsabile dell'Unità di Tossicologia e Centro antiveleni - Basti pensare che rispetto al 2013 le consulenze sono aumentate del 73% e rispetto al 2014 del 39%. Di più: nel solo mese di gennaio 2017 sono arrivate ben 16.184 chiamate al nostro numero verde e nonostante la carenza di risorse siamo riusciti a fornire

L'ECO DI BERGAMO
LUNEDÌ 12 MARZO 2016

servizio specifico di consulenza in gravidanza e allattamento sono salite del 16,8% in un anno. La «portata» del servizio del Centro antiveleni è su scala nazionale, la maggior parte delle richieste di consulenza arriva dalla Lombardia (16.399), seguita dal Veneto (4.916), quasi a pari merito con il Lazio (4.576): va rimarcato che non c'è regione che non abbia fatto riferimento al Centro del Papa Giovanni, quelle con un numero minore di richieste sono il Molise (113). La

to, siano state richieste nell'85% dei casi dalle pazienti, dai medici nel 9% dei casi e dai familiari nel 6%. Le richieste di informazioni riguardavano nel 97-98% dei casi l'uso dei farmaci, sia in gravidanza sia in allattamento (i più vari, dagli antinfiammatori, agli antidepressivi, fino agli antibiotici), mentre il 2% riguardava informazioni su esecuzione di radiografie, per esempio, o l'uso di cosmetici. Va evidenziato che i farmaci su cui sono state chieste informazioni



Farmaci e consulenze: è boom al Centro antiveleni della Tossicologia

Farmaci in gravidanza, boom di telefonate Centro antiveleni: ora c'è il vademecum

Dal ministero. Documento elaborato con la consulenza degli specialisti di Bergamo: «50 preparati non vietati». Al numero verde del Papa Giovanni l'anno scorso arrivate 158.934 chiamate, quasi 40 mila per gestanti in terapia

CARMEN TANCREDI

«È un documento importantissimo, è stato da pochi giorni diffuso dal ministero della Salute a tutte le Regioni e dovrà servire agli operatori sanitari per avere maggiori informazioni sui farmaci che si possono utilizzare in gravidanza e in allattamento. È un documento rivoluzionario, frutto di un tavolo di confronto con Aifa, Istituto Mario Negri e il nostro Centro antiveleni. L'unico accreditato in Italia per il confronto ministeriale. Nel 2017 abbiamo avuto un totale di 158.934 chiamate al nostro numero verde, pari a 424 al giorno, riuscendo a rispondere solo a 48.732 richieste di consulenza, e la gran parte di queste chiamate riguardano proprio chiarimenti su medicinali da assumere in gravidanza o in allattamento». Giuseppe Bacis, responsabile dell'Unità di Tossicologia-Centro antiveleni dell'Asst Papa Giovanni XXIII di Bergamo non nasconde l'entusiasmo davanti a questo nuovo strumento per gli operatori sanitari: uno strumento, spiega, che è un servizio in più per le donne che sono in gravidanza o in allattamento e che, essendo sottoposte a terapie farmacologiche per le più svariate patologie, non vorrebbero smettere di curarsi e nello stesso tempo non causare danni al bambino.

«Questo lavoro, che ci ha visti protagonisti, è frutto di anni di esperienza sul campo. Possiamo affermare che purtroppo molto spesso le donne, in gravidanza o in allattamento, si ritrovano bombardate dalle informazioni più svariate sui farmaci che possono o non possono assumere. E spesso sono in condi-

zioni di salute delicate e si ritrovano da sole nella scelta - evidenzia Bacis -. Oltretutto, con l'utilizzo diffuso di internet chiunque può avere informazioni, più o meno scientifiche, anche su questo campo. La confusione quindi aumenta, e si complica anche perché non tutti gli operatori sanitari, dai medici di medicina generale agli specialisti, dagli infermieri alle ostetriche, sono aggiornati sui farmaci da usare in gravidanza. Così moltissime donne si rivolgono a noi. E c'è capitato di sentirsi dire di tutto: donne con infezioni alle vie urinarie chiedono di prescrivere un antibiotico ogni 10 giorni (sbagliato, così si aiutano solo i batteri), donne che si sono sentite dire che gli antistaminici possono ridurre il latte, donne con patologie di ansia o di depressione il cui specialista ha deciso di sospendere la cura e che ci chiamavano disperate perché stavano peggio di prima. Questo documento, con indicazioni su una cinquantina di farmaci di maggiore consumo, dovrebbe risolvere dubbi e aumentare le competenze, e aiutare sia i medici sia le donne». E Bacis rimarca, per esempio, che ci sono antinfiammatori utilizzabili con serenità, e così diversi antibiotici, antimicotici, antistaminici. «E per l'ambito psichiatrico, su cui il documento non interviene, va ricordato che il nostro Centro collabora con la Ginecologia e la Psichiatria dell'ospedale in un ambulatorio apposito: seguiamo ogni singolo caso, senza lasciare sole le donne». Uno dei compiti, questo delle consulenze per l'ambito psichiatrico in gravidanza e allattamento, che si ag-

Il Centro antiveleni

CHIAMATE AL NUMERO VERDE NEL 2017
158.934
delle quali evase
con consulenze 48.732

CASI CLINICI SEGUITI
7.934
più 1.384 richiami
(ovvero che hanno richiesto ulteriori consulenze)

INFORMAZIONI FORNITE
34.731
delle quali
su farmaci **33.877**
33.616
per farmaci in gravidanza
4.663
richiami



COSTO ANNUALE DEL NUMERO VERDE (pagato dall'Asst e gratuito per gli utenti)
113.729,47
EURO

Gli Interventi

Intossicati da droghe in crescita

Farmaci, ma non solo. Tra le tante consulenze richieste al Centro antiveleni una buona parte riguarda interventi per le droghe: e gli esperti del Centro stanno toccando con mano la diffusione, soprattutto tra i ragazzi, di preparati chimici venduti su internet non ancora classificati come droghe o di droghe, come la marijuana «potenziale», che contiene oltre il 15% di principio attivo, che può causare danni cerebrali anche molto gravi. Come quel caso di un diciassettenne in cura in un noto istituto neurologico per convulsioni di cui non si riusciva a individuare la causa: al

Centro antiveleni si è scoperto che assumeva da diversi mesi questa marijuana, senza averlo mai detto in famiglia. Ma esistono pericoli anche in natura: diversi gli interventi per persone in gravi condizioni perché avevano bevuto decotti di piante senza conoscere gli effetti delle piante utilizzate. Per salvare una donna che aveva fatto una cura a base di erbe per gonfiori alle gambe si è dovuto ricorrere al trapianto di fegato. Tra i bambini, infine, è diffusa l'ingestione di sostanze tossiche e corrosive utilizzate per le pulizie e messe in bottiglie lasciate incustodite.

giunge ai numeri da capogiro dell'attività del Centro antiveleni: il Centro ha potuto effettuare 48.732 prime consulenze, ha seguito 7.934 casi clinici con 1.384 richiami, ha fornito 34.731 informazioni, delle quali 33.877 riguardavano farmaci e di queste 33.616 per gravidanza e allattamento con 4.663 richiami. Inoltre il Centro ha effettuato 1.182 visite parere (consulenze richieste dal pronto soccorso o da altri reparti per intossicazioni, farmaci, terapie e altro), salite dell'8,2% rispetto al 2016. «C'è un altro dato da non trascurare: 158.934 chiamate ricevute in un anno al numero verde (800-883300 che è attivo 24 ore su 24) significa che l'Asst ha speso 113.729 euro in un anno (le

chiamate sono gratis per gli utenti perché le paga l'Azienda) con un aumento di costi rispetto al 2016, visto che due anni fa la spesa era stata di 80 mila euro - conclude Bacis -. Un corretto uso di questo manuale potrebbe aiutare anche a far diminuire le chiamate consentendo al Centro di concentrarsi sui casi più complessi, e risparmiando fondi per ampliare il personale: siamo solo 6 medici (di cui uno con part-time) più un libero professionista, una biologa, una farmacista e un infermiere, vorremmo almeno una infermiera in più e due ostetriche, oltre alle studentesse del corso di laurea in Ostetricia che vengono a fare una settimana di tirocinio».

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L'Eco di Bergamo
newspaper articles
by Carmen Tancredi

Lectures in Seminars and Courses in Teratology

- Risk Assessment in Reproductive and Developmental Toxicology, Berlin, 2008;
- Psychoactive drugs in pregnancy and lactation, School of Specialization in Psychiatry, Pavia, 2008;
- Pathophysiology of teratogenesis, Degree course in Obstetrics, Bergamo, 2008;
- Drugs in pregnancy and lactation, Paediatricians in the province of Bergamo - Bergamo, 2009;
- Use of Drugs in pregnancy and lactation - Bergamo Local Health Agency, 2009;
- Psychotropic drugs in pregnancy and lactation, Psychiatrists of Bergamo, Bergamo, 2009;
- Pathophysiology of teratogenesis, Psychiatrists in the Department of Mental Health, Bergamo, 2010;
- Drugs in pregnancy and lactation, Psychiatrists of Brescia, Esine, 2010;
- Psychotropic drugs in nursing: interruption or continuation of treatment, Giardini di Naxos, 2012;
- The pharmacological treatment during pregnancy - National Day of Women's Mental Health, Bergamo, 2013-2014;
- Illuminating the dark side of Motherhood, Bergamo 2014;
- Drugs in lactation, Bergamo Local Health Agency, 2014;
- Drugs in pregnancy and lactation, Reggio Emilia, 2014;
- Poisoning in pregnancy, Bergamo, 2014 – 2016;
- Use of drugs during pregnancy, Foggia, 2014 – 2016;
- The Information Service on drugs in pregnancy and lactation: activities and research projects, Bergamo, 2015;
- The role of the primary care physician in the protection, promotion and support of breastfeeding in the path OMS/UNICEF "child-friendly communities for breastfeeding " Bergamo, 2015;
- Fertility Day, Rome, 2016;
- Drugs in pregnancy and lactation, Pharmacists of Bergamo - Bergamo, 2017;
- Drug interactions and the use of drugs in pregnancy, Physicians of Bergamo - Bergamo, 2017;
- Chronic diseases in lactation and diagnostic imaging, Milan 2017;
- Taking charge of the woman and support women in the presence of perinatal mental distress, Bologna 2017;
- Medication safety during pregnancy and lactation, Aosta 2018;
- Drug Addiction and Craving: Focus in Pregnancy and Breastfeeding, Milan, 2018;
- Master in Psychology, Psychopathology and Perinatal Psychiatry, Milan 2019;
- Training course on the WHO / UNICEF model "Protection, promotion and support of breastfeeding" Bergamo, 2017-2019;
- Network Meeting "Together for breastfeeding", Bergamo 2019;
- Psychotropic drugs in pregnancy and breastfeeding, Bologna 2020.

Congresses

European Teratology Society and European Network of Teratology Information Services (ENTIS)

Haarlem (Netherlands) 2005
Abano Terme (Italy) 2006
Helsinki (Finland) 2007
Edinburgh (Scotland) 2008
Florence (Italy) 2009
Barcelona (Spain) 2010
Jerusalem (Israel) 2011
Linz (Austria) 2012
Amsterdam (Netherlands) 2013
Toronto (Canada) 2014
Prague (Czech Republic) 2015
Berlin (Germany) 2016
Budapest (Hungary) 2017
Newcastle Upon Tyne (UK) 2018
Oslo (Norway) 2019
Bergamo (Italy) 2020

European Association of Poisons Centres and Clinical Toxicologists (EAPCCT)

Rome (Italy) 2003, Strasbourg (France) 2004, Berlin (Germany) 2005, Prague (Czech Republic) 2006, Athens (Greece) 2007, Seville (Spain) 2008, Stockholm (Sweden) 2009, Bordeaux (France) 2010, Dubrovnik (Croatia) 2011, London (U.K) 2012, Copenhagen (Denmark) 2013, Brussels (Belgium) 2014, St. Julian's (Malta) 2015, Madrid (Spain) 2016, Basel (Switzerland) 2017, Bucharest (Romania) 2018, Naples (Italy) 2019.

Congress of Clinical Toxicology

Foggia, 2014 - 2016

National Congress of Italian Society of Toxicology (SITOX)

Bologna, 2000-2020

Recent Issues in Clinical Toxicology - Antidotes in Depth

Pavia, 2000-2019

Bergamo Health Agency “Basic Training Course Peer Counsellor”

Bergamo, 2017-2020

North American Congress of Clinical Toxicology (NACCT) in USA

Orlando (FL) 2005, Boston (MA) 2016, Chicago (IL) 2018

National Seminar of the Italian Institute of Health (ISS)

Rome, 2011-2020

National Congress of the Italian Society of Drug Addiction (SITD)

Rome, 2015-2020

ENTIS MEETINGS

1990 Milan

1991 Lausanne 1992 Lyon

1993 Bilthoven 1994 Heraclion

1995 Paris 1996 Linz

1997 Newcastle-Upon-Tyne 1998 Rome

1999 Madrid 2000 Jerusalem

2001 Berlin 2002 Padova 2003 Elsinore

2004 Prague 2005 Haarlem

2006 Abano Terme 2007 Helsinki

2008 Edinburgh 2009 Florence

2010 Barcelona 2011 Jerusalem

2012 Linz 2013 Amsterdam

2014 Toronto

2015 Berlin 2016 Budapest

2017 Prague

2018 Newcastle Upon Tyne 2019 Oslo

31st Conference of ENTIS

15 - 17 October 2020, Bergamo, Italy



CENTRO
CONGRESSI
GIOVANNI XXIII

Final announcement

Local scientific committee

Local organization committee

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Publications

ABSTRACTS

Poison Centre's role on drug exposures in Pregnancy and Lactation

Eleftheriou G, Peila E, Carrara M, Faraoni L, Bacis G, Farina ML.

Abstract NACCT Congress, 9-14 September, Orlando Florida, 2005 & Clinical Toxicology 2005; 43 (6):657.

Pregnancy outcome of women using Selective Serotonin Re-Uptake Inhibitors.

Eleftheriou G, Carrara M, Bacis G.

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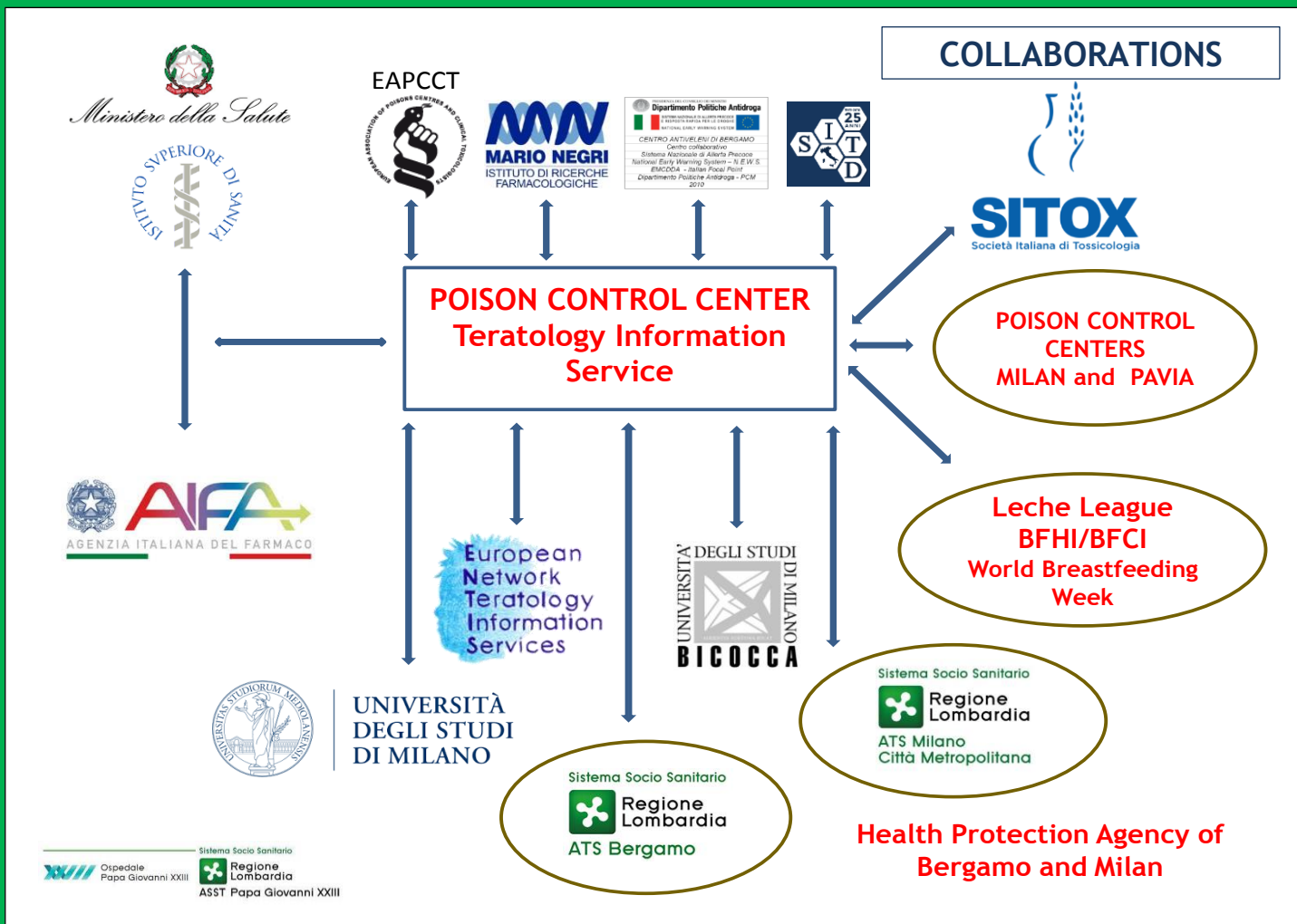
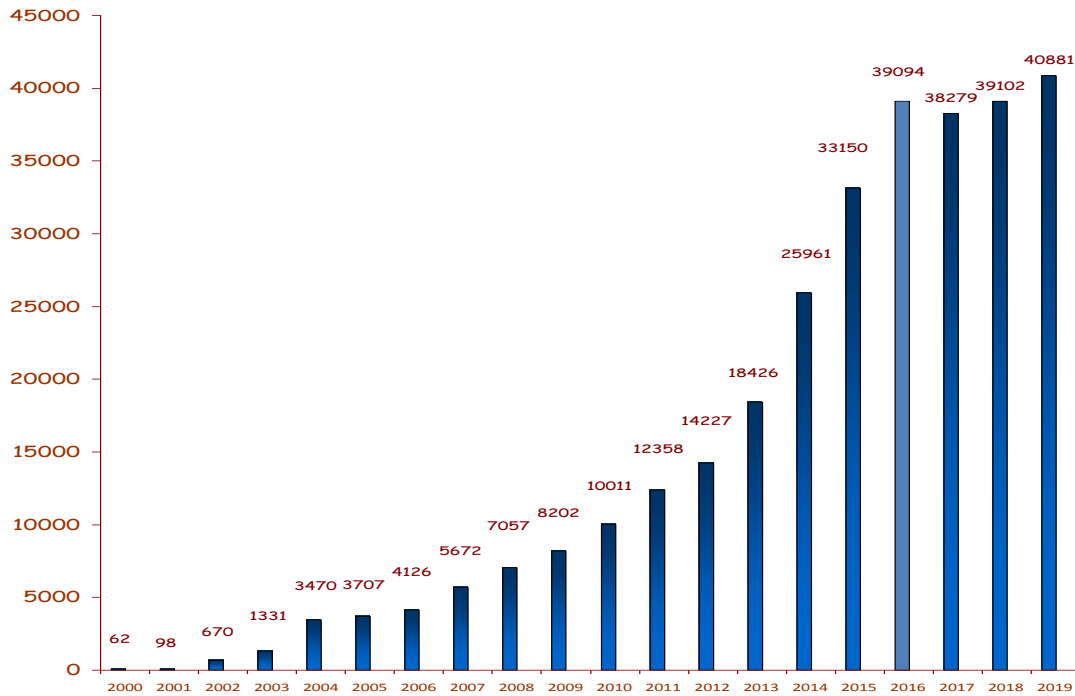
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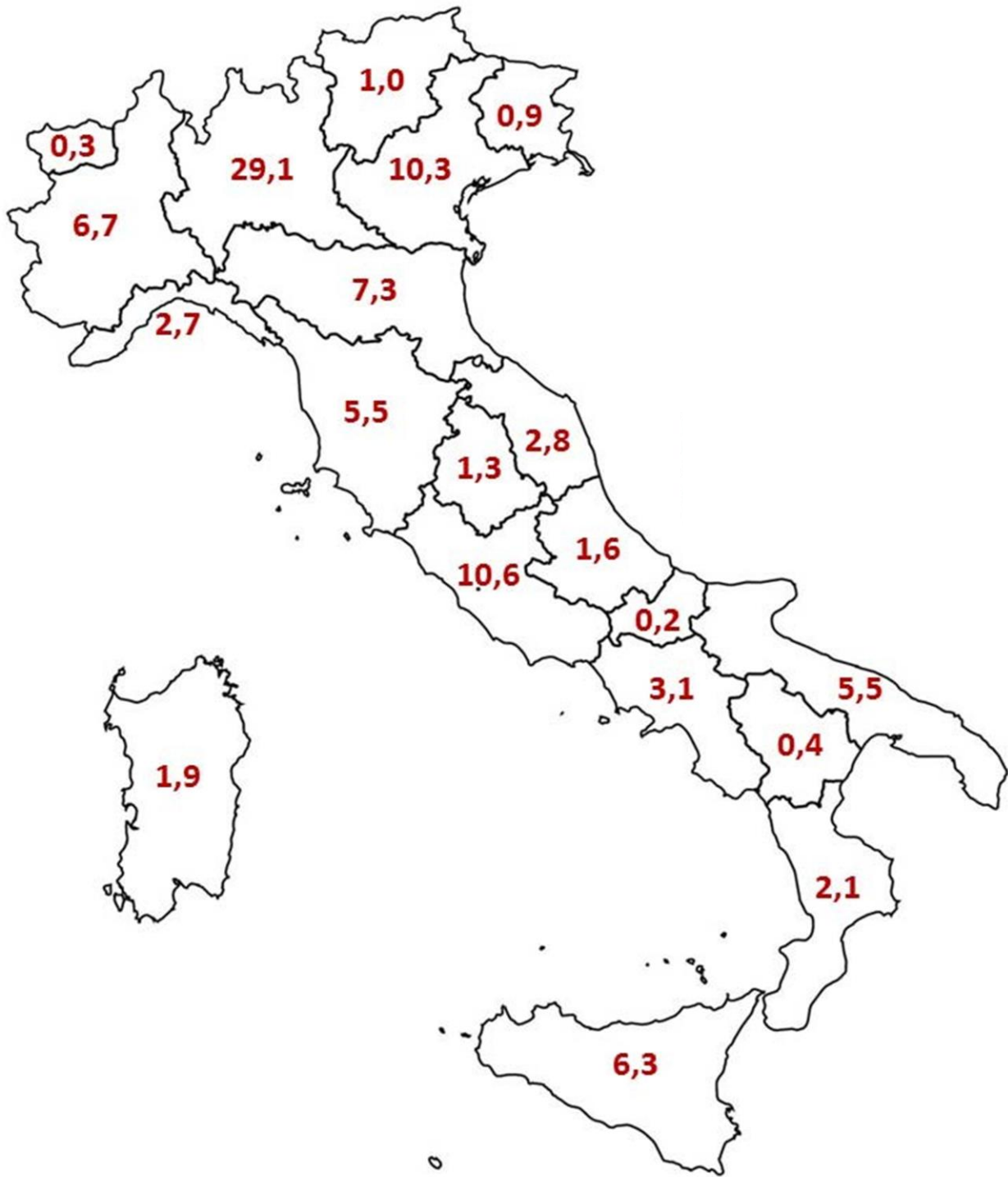
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BERGAMO TIS ACTIVITY

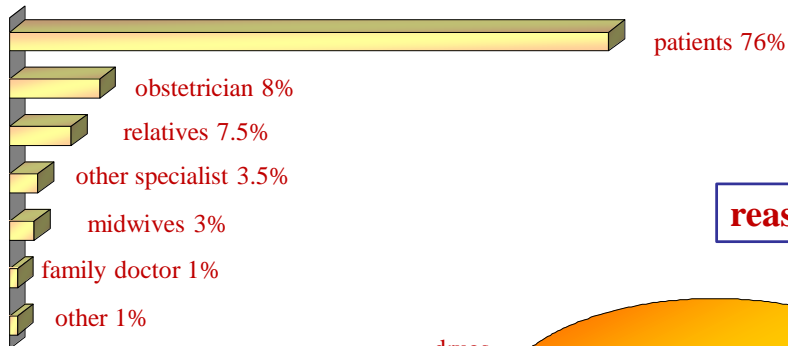


PERCENTAGE OF REQUESTS FROM ITALIAN REGIONS

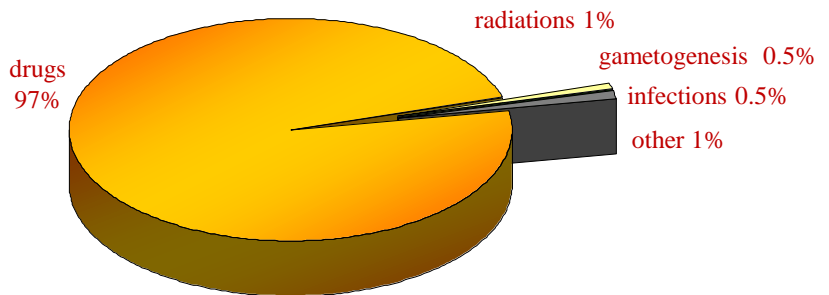


PREGNANCY

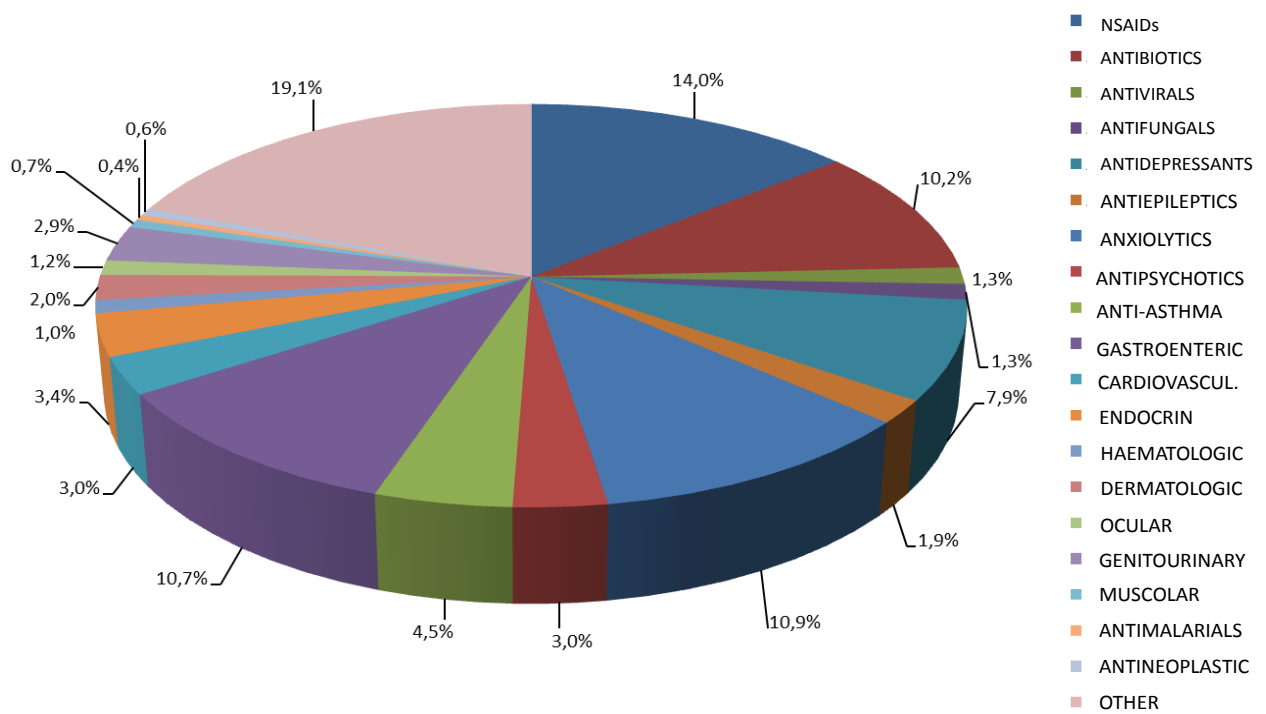
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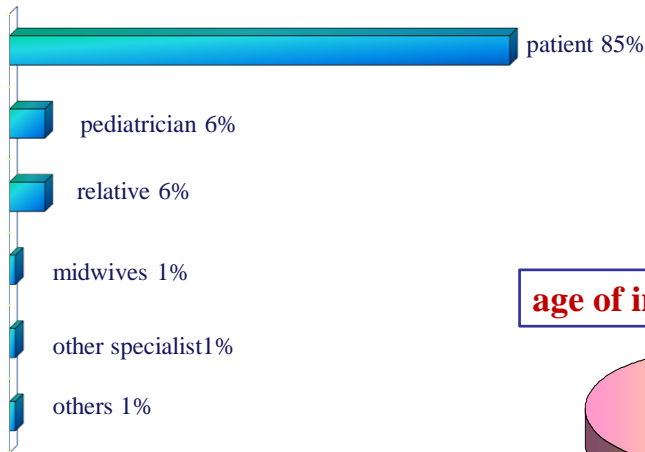


Drug classes used in pregnancy

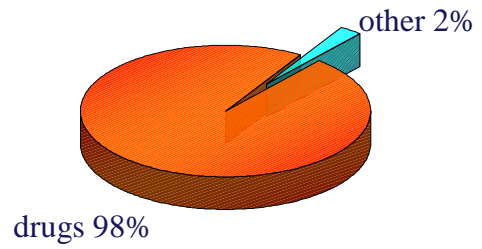


BREASTFEEDING

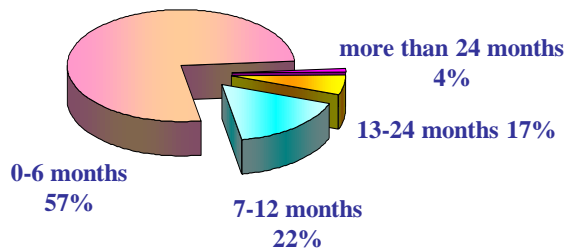
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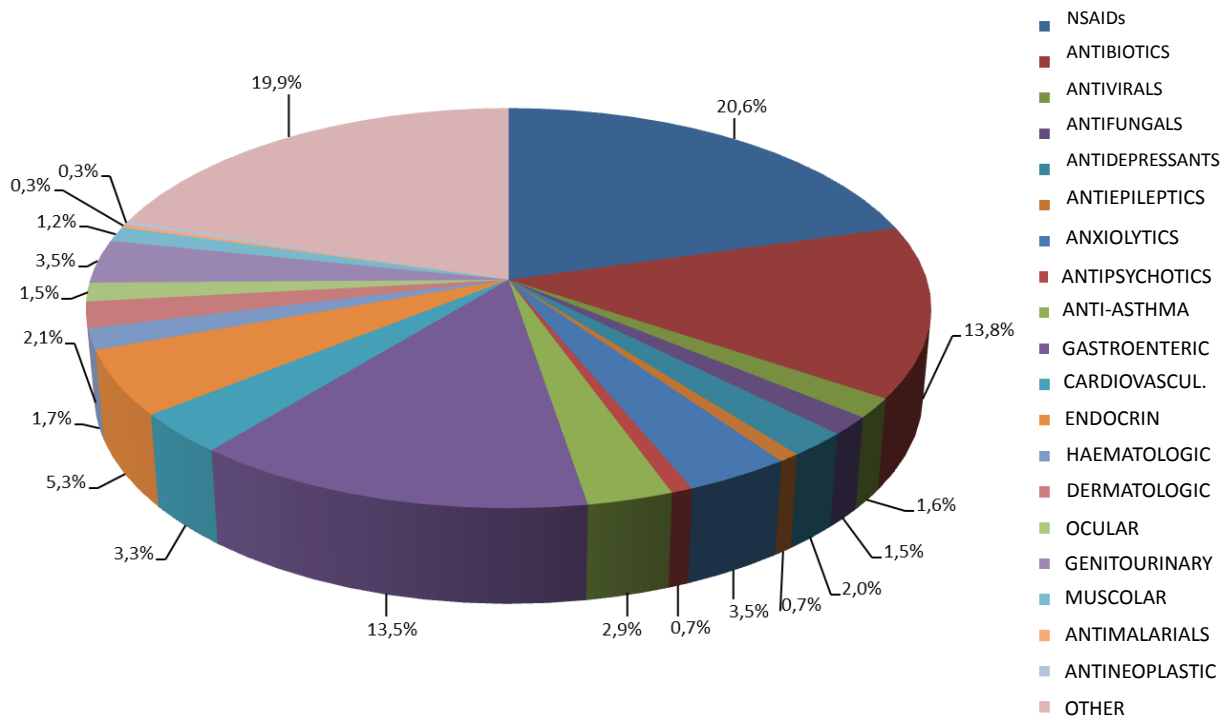
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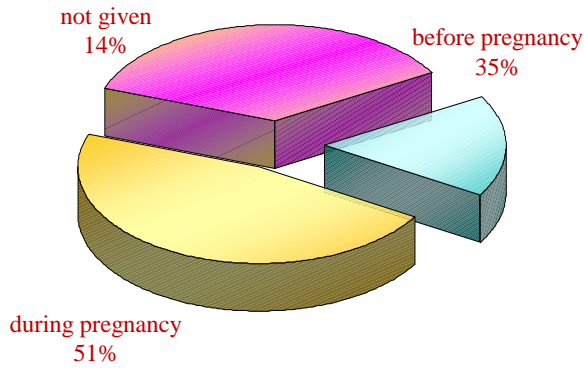
age of infants



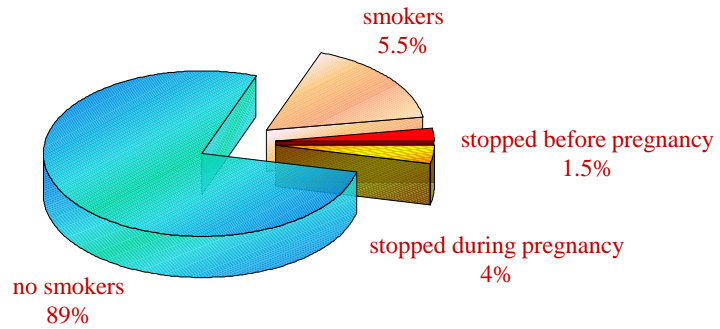
Drug classes in lactation



folic acid supplementation in pregnancy

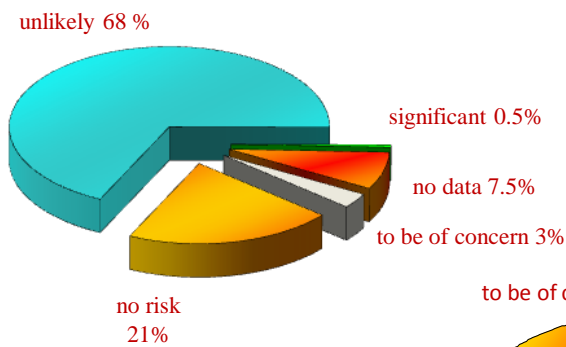


smoking in pregnancy

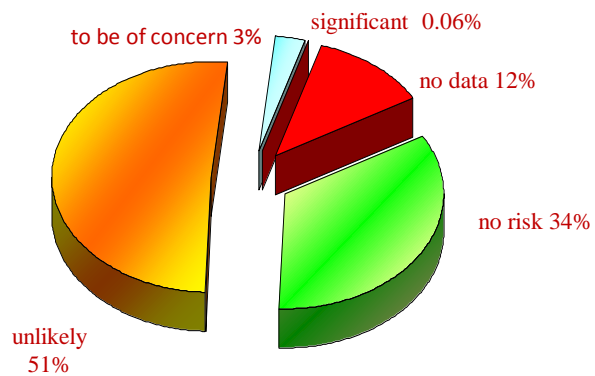


Risk assessment given to the patients

PREGNANCY



BREASTFEEDING





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di Bergamo

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