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**Type** Note

**Date d'ajout** Tuesday, July 10, 2012 7:15:05 PM

**Modifié le** Tuesday, July 10, 2012 7:15:41 PM

Embolie amniotique

*En ce qui concerne les sources : Moteurs de recherche utilisés : Web of Science sur l'ensemble de la littérature scientifique répertoriés dans WOS – Medline sur l'ensemble des publications médicales recensés dans Pubmed. Après comparaison et exclusion des articles non pertinents (et de certains papiers inaccessibles), les résultats affichés sont les mêmes. Rq : Pubmed est accessible depuis WOS, je n'ai pas essayé.*

Hélène C Juillet 2012

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## L'enquête confidentielle française sur les morts maternelles, 1996–2006 : quelles conséquences pour les soins en obstétrique ?

**Type** Article de revue

**Auteur** M.-H. Bouvier-Colle

**Auteur** M. Saucedo

**Auteur** C. Deneux-Tharoux

**Résumé** Résumé L'Enquête nationale confidentielle sur les morts maternelles (ENCMM) et son comité (CNEMM) ont pour but d'étudier tous les décès maternels survenant en France et d'en expertiser la prise en charge. Le présent rapport concerne les décès survenus depuis l'année 1996 – mise en place de l'ENCMM au niveau national – jusqu'à 2006. Après signalement des décès potentiellement maternels par le Centre d'étude épidémiologique sur les causes médicales de décès (CépiDC) et acceptation des médecins concernés, deux assesseurs (un anesthésiste-réanimateur et un gynécologue-obstétricien) collectent les informations médicales et obstétricales auprès de l'équipe ayant traité la femme au moyen d'un questionnaire standard détaillé. Les dossiers complètement anonymes sont expertisés par le CNEMM. Des taux de mortalité maternelle ont été calculés par période ; la répartition des causes obstétricales de décès a été étudiée, ainsi que les caractéristiques des femmes décédées. L'évitabilité des décès et ses principaux facteurs ont été estimés par groupe de pathologies. De 1996 à 2006, 729 décès maternels ont été retenus dont 553 ont été expertisés. La plupart des décès maternels sont de cause obstétricale directe (73 %), principalement hémorragies (22 %), embolie amniotique (12 %), complications de l'HTA et thromboembolies (environ 10 % chacune). Les décès de causes obstétricales directes ont été jugés évitables à 50 %, et tout particulièrement les décès liés à l'hémorragie ou le sepsis. Les facteurs d'évitabilité sont principalement le retard à l'intervention thérapeutique (31 %), le traitement inadapté (28 %), voire la faute professionnelle (20 %), l'absence de diagnostic (15 %) ou la patiente irresponsable (7 %). Sept décès sont décrits en détail dans une section spéciale et discutés en incluant des recommandations sur comment améliorer les soins. Summary The national confidential enquiry into maternal deaths (ENCMM) and its committee (CNEMM) have the target to study all maternal deaths occurring in France, in order to expertise the care provided. The current report covers the 1996 – year of the ENCMM establishment – to

2006 years. After being informed of the potential maternal deaths by the Epidemiological center on medical causes of deaths (CépiDC), and agreement from the medical doctors concerned, two assessors (one anesthetist and one obstetrician) gather the medical or obstetrical information near the team involved in the care of the women, by the mean of a detailed and specific questionnaire. The completely anonymous files are expertised by the CNEMM. Maternal mortality rates have been calculated by periods, the distribution of the obstetrical causes and the characteristics of the dead women were calculated too. The substandard care and the avoidability of deaths were estimated by subgroup. Since 1996 to 2006, 729 maternal deaths were included of which 553 were expertised. The majority of maternal deaths were due to direct obstetrical causes (73%) mainly haemorrhages (22%), amniotic fluid embolism (12%), complications of hypertension (10 %), and venous thrombo-embolism (around 10 % each). Half of maternal deaths were considered preventable by the CNEMM, particularly haemorrhage and sepsis. The factors of avoidability are delay to treat (31%) inadapted therapeutics (28%), even professional default (20%) no diagnosis (15%) or reluctant patient (7%). Seven deaths are discussed in a specific section including a detailed description of, and recommendations on how the quality of care may be improved.

**Publication** Journal de Gynécologie Obstétrique et Biologie de la Reproduction

**Volume** 40

**Numéro** 2

**Pages** 87-102

**Date** avril 2011

**DOI** 10.1016/j.jgyn.2010.12.007

**ISSN** 0368-2315

**Titre abrégé** L'enquête confidentielle française sur les morts maternelles, 1996–2006

**URL** <http://www.sciencedirect.com/science/article/pii/S0368231510003480>

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### Marqueurs :

Causes obstétricales de décès, Confidential enquiries, Enquête confidentielle, Maternal Mortality, Mortalité maternelle, Obstetrical causes of death, Soins non optimaux, Substandard health care

### Pièces jointes

- ScienceDirect Snapshot

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## Incidence and risk factors for amniotic-fluid embolism

**Type** Article de revue

**Auteur** Marian Knight

**Auteur** Derek Tuffnell

**Auteur** Peter Brocklehurst

**Auteur** Patsy Spark

**Auteur** Jennifer J Kurinczuk

**Résumé** **OBJECTIVE** To estimate the incidence of amniotic-fluid embolism and to describe risk factors, management, and outcomes. **METHODS** Through a population-based cohort study and nested case-control analysis, using the UK Obstetric Surveillance System, we identified 60 women in the United Kingdom who had an amniotic-fluid embolism between February 2005 and February 2009 and 1,227 women for the control group. We investigated the potential factors underlying amniotic-fluid embolism using an exploratory logistic regression analysis to estimate odds ratios (ORs) and 95% confidence intervals (CIs). **RESULTS** Sixty cases of amniotic-fluid embolism were reported, an estimated incidence of 2.0 per 100,000 deliveries (95% CI 1.5-2.5). Amniotic-fluid embolism occurrence was significantly associated with induction of labor (adjusted OR 3.86, 95% CI 2.04-7.31) and multiple pregnancy (adjusted OR 10.9, 95% CI 2.81-42.7); an increased risk also was noted in older, ethnic-minority women (adjusted OR 9.85, 95% CI 3.57-27.2). Cesarean delivery was associated with postnatal amniotic-fluid embolism (adjusted OR 8.84, 95% CI 3.70-21.1). Twelve women died (case fatality 20%, 95% CI 11-32%); 5 of 37 newborns of women with antenatal amniotic-fluid embolism died (perinatal mortality 135 per 1,000 total births, 95% CI 45-288). Women who died were significantly more likely to be from ethnic-minority groups (adjusted OR 11.8, 95% CI 1.40-99.5). **CONCLUSION** High-quality supportive care can result in good maternal outcomes after amniotic-fluid embolism. Clinicians should consider both the risks and benefits of induction and cesarean delivery because more restricted use may result in a decrease in the number of women suffering a potentially fatal amniotic-fluid embolism. The observed increased risk of fatality in ethnic-minority women may be associated with differences in underlying medical conditions or access to care, and clinicians should that ensure appropriate services are provided to minimize this risk.

**Publication** Obstetrics and gynecology

**Volume** 115

**Numéro** 5

**Pages** 910-917

**Date** May 2010

**Abrév. de revue** Obstet Gynecol

**DOI** 10.1097/AOG.0b013e3181d9f629

**ISSN** 1873-233X

**URL** <http://www.ncbi.nlm.nih.gov/pubmed/20410762>

**Consulté le** Tuesday, July 10, 2012 7:11:41 PM

**Catalogue de bibl.** NCBI PubMed

**Extra** PMID: 20410762

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### Marqueurs :

Adult, Cesarean Section, Embolism, Amniotic Fluid, Female, Fetal Membranes, Premature Rupture, Great Britain, Humans, Incidence, Infant, Newborn, Logistic Models, Population Surveillance, Pregnancy, Pregnancy Outcome, Risk Factors

## Pièces jointes

- Knight et al. - 2010 - Incidence and risk factors for amniotic-fluid embo.pdf

## Amniotic fluid embolism in an Australian population-based cohort

**Type** Article de revue

**Auteur** Cl Roberts

**Auteur** Cs Algert

**Auteur** M Knight

**Auteur** Jm Morris

**Résumé** Please cite this paper as: Roberts C, Algert C, Knight M, Morris J. Amniotic fluid embolism in an Australian population-based cohort. BJOG 2010;117:1417–1421. We utilised linked birth, hospital and death data for the entire population to determine the incidence of amniotic fluid embolism (AFE) and its mortality and morbidity. AFE diagnoses were identified from International Classification of Diseases, 10th Revision (ICD10)-coded hospital and/or death records with additional case definition criteria imposed. The AFE incidence was 3.3 per 100 000 (95% CI, 1.9–4.7), maternal fatality rate 35% (95% CI, 15–59) and perinatal mortality rate 32% (95% CI, 12–56). Newly identified risk factors included induction with vaginal prostaglandin and manual removal of the placenta, and survivors were at increased risk of cerebral infarction. Although two-thirds of women and infants survived, AFE also caused severe morbidity.

**Publication** BJOG: An International Journal of Obstetrics & Gynaecology

**Volume** 117

**Numéro** 11

**Pages** 1417–1421

**Date** 2010

**Langue** en

**DOI** 10.1111/j.1471-0528.2010.02656.x

**ISSN** 1471-0528

**URL** <http://onlinelibrary.wiley.com/doi/10.1111/j.1471-0528.2010.02656.x/abstract>

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**Catalogue de bibl.** Wiley Online Library

**Autorisations** © 2010 The Authors Journal compilation © RCOG 2010 BJOG An International Journal of Obstetrics and Gynaecology

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## Marqueurs :

Amniotic fluid embolism, cohort study, disseminated intravascular coagulation, Maternal Mortality, Perinatal Mortality, record linkage

## Pièces jointes

- Roberts et al. - 2010 - Amniotic fluid embolism in an Australian populatio.pdf

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## Amniotic fluid embolism: an evidence-based review

**Type** Article de revue

**Auteur** Agustín Conde-Agudelo

**Auteur** Roberto Romero

**Résumé** We conducted an evidence-based review of information about amniotic fluid embolism (AFE). The estimated incidence of AFE is 1:15,200 and 1:53,800 deliveries in North America and Europe, respectively. The case fatality rate and perinatal mortality associated with AFE are 13-30% and 9-44%, respectively. Risk factors associated with an increased risk of AFE include advanced maternal age, placental abnormalities, operative deliveries, eclampsia, polyhydramnios, cervical lacerations, and uterine rupture. The hemodynamic response in AFE is biphasic, with initial pulmonary hypertension and right ventricular failure, followed by left ventricular failure. Promising therapies include selective pulmonary vasodilators and recombinant activated factor VIIa. Important topics for future research are presented.

**Publication** American Journal of Obstetrics and Gynecology

**Volume** 201

**Numéro** 5

**Pages** 445.e1-445.e13

**Date** 11/2009

**DOI** 10.1016/j.ajog.2009.04.052

**ISSN** 00029378

**Titre abrégé** Amniotic fluid embolism

**URL** [http://www.ajog.org/article/S0002-9378\(09\)00444-X/abstract](http://www.ajog.org/article/S0002-9378(09)00444-X/abstract)

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**Catalogue de bibl.** CrossRef

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**Modifié le** Tuesday, July 10, 2012 7:49:21 PM

### Pièces jointes

- Amniotic fluid embolism: an evidence-based review

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## Amniotic fluid embolism: still a diagnostic enigma for obstetrician and pathologist?

**Type** Article de revue

**Auteur** Emanuela Turillazzi

**Auteur** Pantaleo Greco

**Auteur** Margherita Neri

**Auteur** Cristoforo Pomara

**Auteur** Irene Riezzo

**Auteur** Vittorio Fineschi

**Résumé** Eight fatal cases of amniotic fluid embolism (AFE) are described to identify definable and preventable risk factors increasing the incidence of AFE. Maternal age, past medical history, previous pregnancies and outcome, prenatal care, gestational age, neonatal outcome, mode of delivery, time of the onset of clinical symptoms, and maternal autopsy findings were retrospectively analyzed. Risk factors and clinical manifestations present in the patients were investigated. Peripartum clinical information included tachycardia and shock as the most frequent symptoms (62.5%), while bradycardia and coma were present in 37.5% of the victims. The interval between onset of labor and symptoms ranged between 0.4 and 7.5 hours. All the women died within seven hours of the onset of the symptoms. AFE can neither be predicted nor prevented as cases occur sporadically with a broad spectrum of clinical manifestations that are less consistent than that previously reported.

**Publication** Acta obstetricia et gynecologica Scandinavica

**Volume** 88

**Numéro** 7

**Pages** 839-841

**Date** 2009

**Abrév. de revue** Acta Obstet Gynecol Scand

**DOI** 10.1080/00016340902971474

**ISSN** 1600-0412

**Titre abrégé** Amniotic fluid embolism

**URL** <http://www.ncbi.nlm.nih.gov/pubmed/19449220>

**Consulté le** Tuesday, July 10, 2012 7:52:00 PM

**Catalogue de bibl.** NCBI PubMed

**Extra** PMID: 19449220

**Date d'ajout** Tuesday, July 10, 2012 7:52:00 PM

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### Marqueurs :

Adult, Autopsy, Diagnosis, Differential, Embolism, Amniotic Fluid, Female, Humans, Italy, Pregnancy, Retrospective Studies, Risk Factors

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## Amniotic Fluid Embolism

**Type** Article de revue

**Auteur** Richard S. Gist

**Auteur** Irene P. Stafford

**Auteur** Andrew B. Leibowitz

**Auteur** Yaakov Beilin

**Résumé** Amniotic fluid embolism is one of the most catastrophic complications of pregnancy. First described in 1941, the condition is exceedingly rare and the exact pathophysiology is still unknown. The etiology was thought to be embolic in nature, but more recent evidence suggests an immunologic basis. Common presenting symptoms include dyspnea, nonreassuring fetal status, hypotension, seizures, and disseminated intravascular coagulation. Early recognition of

amniotic fluid embolism is critical to a successful outcome. However, despite intensive resuscitation, outcomes are frequently poor for both infant and mother. Recently, aggressive and successful management of amniotic fluid embolism with recombinant factor VIIa and a ventricular assist device, inhaled nitric oxide, cardiopulmonary bypass and intraaortic balloon pump with extracorporeal membrane oxygenation have been reported and should be considered in select cases.

**Publication** Anesthesia and analgesia

**Volume** 108

**Numéro** 5

**Pages** 1599-1602

**Date** 2009

**Titre de la coll.** Anesthesia and analgesia

**Langue** eng

**ISSN** 0003-2999

**URL** <http://cat.inist.fr/?aModele=afficheN&...>

**Consulté le** Tuesday, July 10, 2012 7:53:20 PM

**Catalogue de bibl.** cat.inist.fr

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### Marqueurs :

Amniotic embolism, Anesthesia, Anesthésie, Embolia amniótica, Embolie amniotique

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## Amniotic Fluid Embolism: a Comparison between Patients Who Survived and Those Who Died

**Type** Article de revue

**Auteur** Y Matsuda

**Auteur** M Kamitomo

**Résumé** This study aimed to investigate comparative clinical courses for a series of women with amniotic fluid embolism (AFE) and to assess factors associated with patient survival. Clinical courses of nine patients with AFE in a single tertiary centre were reviewed. AFE was diagnosed when a woman presented with typical clinical symptoms accompanied by abnormal laboratory tests (including abnormal coagulation) or at autopsy when fetal debris was found in the maternal pulmonary arteries. Five patients survived and four died. The first clinical manifestations of AFE were variable; dyspnoea was noted in only four patients. Other signs were state of shock, abdominal pain and uterine atony. The mean  $\pm$  SD interval between the onset of clinical manifestations and treatment was significantly shorter for survivors ( $48.0 \pm 36.3$  min) than for non-survivors ( $137.5 \pm 49.7$  min). The number of failed organs was significantly fewer for the survivors compared with the non-survivors. AFE was accompanied by a wide variety of clinical manifestations, but early diagnosis and treatment appeared to be the most critical factors associated with survival.

**Publication** J Int Med Res

**Volume** 5

**Numéro** 37

**Pages** 1515-1521

**Date** 2009

**URL** <http://www.jimronline.net/article/1280/>

**Date d'ajout** Tuesday, July 10, 2012 8:01:03 PM

**Modifié le** Tuesday, July 10, 2012 8:02:31 PM

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## Critical care in obstetrics: pregnancy-specific conditions

**Type** Article de revue

**Auteur** Jennifer Williams

**Auteur** Ellen Mozurkewich

**Auteur** Julie Chilimigras

**Auteur** Cosmas Van De Ven

**Résumé** This chapter summarizes the clinical presentation, pathophysiology, evaluation and management of six commonly encountered complications unique to pregnancy that require critical care management: obstetric haemorrhage; pre-eclampsia/HELLP (haemolysis–elevated liver enzymes–low platelets) syndrome; acute fatty liver of pregnancy; peripartum cardiomyopathy; amniotic fluid embolism; and trauma.

**Publication** Best Practice & Research Clinical Obstetrics & Gynaecology

**Volume** 22

**Numéro** 5

**Pages** 825-846

**Date** octobre 2008

**DOI** 10.1016/j.bpobgyn.2008.06.003

**ISSN** 1521-6934

**Titre abrégé** Critical care in obstetrics

**URL** <http://www.sciencedirect.com/science/article/pii/S1521693408000813>

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### Marqueurs :

acute fatty liver, Amniotic fluid embolism, obstetric haemorrhage, peripartum cardiomyopathy, pre-eclampsia/HELLP syndrome, trauma

### Pièces jointes

- ScienceDirect Snapshot

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## Incidence and risk factors of amniotic fluid embolisms: a population-based study

## on 3 million births in the United States

**Type** Article de revue

**Auteur** Haim A. Abenhaim

**Auteur** Laurent Azoulay

**Auteur** Michael S. Kramer

**Auteur** Line Leduc

**Résumé** Objective Amniotic fluid embolism (AFE) is a condition occurring during delivery that can lead to severe maternal morbidity and mortality. Given the rarity of its occurrence, current estimates and predictors of the incidence and outcomes are often difficult to obtain. Study Design We conducted a population-based cohort study on 3 million birth records in the Healthcare Cost and Utilization Project–Nationwide Inpatient Sample from 1999 to 2003 to estimate the incidence and case fatality of AFEs. Logistic regression was used to calculate the odds ratio (OR) and corresponding 95% confidence intervals (CIs) of demographic and obstetrical determinants of AFEs and fatal AFEs. Results The overall incidence of AFE was 7.7 per 100,000 births (95% CI 6.7 to 8.7), with a case fatality rate of 21.6% (95% CI 15.5 to 27.6%). AFE was associated with maternal age greater than 35 (OR 2.2, 95% CI 1.5 to 2.1), placenta previa (OR 30.4, 95% CI 15.4 to 60.1), and cesarean delivery (OR 5.7, 95% CI 3.7 to 8.7). Although AFEs were not significantly associated with induction of labor (OR 1.5, 95% CI 0.9 to 2.3), they were associated with preeclampsia, abruptio placentae, and the use of forceps. Among women with an AFE, common demographic or obstetrical determinants were not predictive of maternal mortality. Conclusion AFE is a rare but serious condition that is associated with advanced maternal age, placental pathologies, and cesarean deliveries. Further research on the treatment of this condition is necessary.

**Publication** American Journal of Obstetrics and Gynecology

**Volume** 199

**Numéro** 1

**Pages** 49.e1-49.e8

**Date** 7/2008

**DOI** 10.1016/j.ajog.2007.11.061

**ISSN** 00029378

**Titre abrégé** Incidence and risk factors of amniotic fluid embolisms

**URL** [http://www.ajog.org/article/S0002-9378\(07\)02243-0/abstract](http://www.ajog.org/article/S0002-9378(07)02243-0/abstract)

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### Pièces jointes

- Incidence and risk factors of amniotic fluid embolisms: a population-based study on 3 million births in the United States

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Maternal death in the 21st century: causes, prevention, and relationship to cesarean delivery

**Type** Article de revue  
**Auteur** Steven L. Clark  
**Auteur** Michael A. Belfort  
**Auteur** Gary A. Dildy  
**Auteur** Melissa A. Herbst  
**Auteur** Janet A. Meyers  
**Auteur** Gary D. Hankins

**Résumé** Objective We sought to examine etiology and preventability of maternal death and the causal relationship of cesarean delivery to maternal death in a series of approximately 1.5 million deliveries between 2000 and 2006. Study Design This was a retrospective medical records extraction of data from all maternal deaths in this time period, augmented when necessary by interviews with involved health care providers. Cause of death, preventability, and causal relationship to mode of delivery were examined. Results Ninety-five maternal deaths occurred in 1,461,270 pregnancies (6.5 per 100,000 pregnancies.) Leading causes of death were complications of preeclampsia, pulmonary thromboembolism, amniotic fluid embolism, obstetric hemorrhage, and cardiac disease. Only 1 death was seen from placenta accreta. Twenty-seven deaths (28%) were deemed preventable (17 by actions of health care personnel and 10 by actions of non-health care personnel). The rate of maternal death causally related to mode of delivery was 0.2 per 100,000 for vaginal birth and 2.2 per 100,000 for cesarean delivery, suggesting that the number of annual deaths resulting causally from cesarean delivery in the United States is about 20. Conclusion Most maternal deaths are not preventable. Preventable deaths are equally likely to result from actions by nonmedical persons as from provider error. Given the diversity of causes of maternal death, no systematic reduction in maternal death rate in the United States can be expected unless all women undergoing cesarean delivery receive thromboembolism prophylaxis. Such a policy would be expected to eliminate any statistical difference in death rates caused by cesarean and vaginal delivery.

**Publication** American Journal of Obstetrics and Gynecology

**Volume** 199

**Numéro** 1

**Pages** 36.e1-36.e5

**Date** 7/2008

**DOI** 10.1016/j.ajog.2008.03.007

**ISSN** 00029378

**Titre abrégé** Maternal death in the 21st century

**URL** [http://www.ajog.org/article/S0002-9378\(08\)00268-8/abstract](http://www.ajog.org/article/S0002-9378(08)00268-8/abstract)

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**Catalogue de bibl.** CrossRef

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## Pièces jointes

- Maternal death in the 21st century: causes, prevention, and relationship to cesarean delivery

**Type** Article de revue

**Auteur** Sue Kildea

**Auteur** Wendy Elizabeth Pollock

**Auteur** Lesley Barclay

**Résumé** Australia is one of the safest countries in the world to birth. Because maternal deaths are rare, often the focus during pregnancy is on the well-being of the fetus. The relative safety of birth has fostered a shift in the focus of maternal health, from survival, to the model of care or the birth experience. Yet women still die in Australia as a result of child bearing and many of these deaths are associated with avoidable factors. The purpose of this paper is to outline the maternal death monitoring and review process in Australia and to present to clinicians the salient features of the most recently published Australian maternal death report. The notion of preventability and the potential for practice to have an effect on reducing maternal mortality are also discussed.

**Publication** Australian and New Zealand Journal of Obstetrics and Gynaecology

**Volume** 48

**Numéro** 2

**Pages** 130–136

**Date** 2008

**Langue** en

**DOI** 10.1111/j.1479-828X.2008.00846.x

**ISSN** 1479-828X

**Titre abrégé** Making pregnancy safer in Australia

**URL** <http://onlinelibrary.wiley.com/doi/10.1111/j.1479-828X.2008.00846.x/abstract>

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**Autorisations** © 2008 The Authors

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## Marqueurs :

aboriginal, Australia, clinician, indigenous, maternal death, Maternal Mortality

## Pièces jointes

- Snapshot

## Biochemical and electrophoretic studies of erythrocyte pyridoxine kinase in white and black Americans

**Type** Article de revue

**Auteur** C J Chern

**Auteur** E Beutler

**Résumé** The mean PNK activity in red blood cells from black subjects was only about 40% of that in whites. Among 51 whites examined, one was found to have enzyme deficiency. The estimated gene frequencies for PNKH (the common

allele in whites which codes for higher enzyme activity) and PNKL (the common allele in blacks which codes for lower enzyme activity) were .35 and .65, respectively, for black donors, and .81 and .19, respectively, for white donors. The variant enzyme in persons with enzyme deficiency was associated with an increased rate of degradation in red cells during aging. No other biochemical or electrophoretic differences were detected.

**Publication** American journal of human genetics  
**Volume** 28  
**Numéro** 1  
**Pages** 9-17  
**Date** Jan 1976  
**Abrév. de revue** Am. J. Hum. Genet.  
**ISSN** 0002-9297  
**URL** <http://www.ncbi.nlm.nih.gov/pubmed/2009>  
**Consulté le** Tuesday, July 10, 2012 7:59:00 PM  
**Catalogue de bibl.** NCBI PubMed  
**Extra** PMID: 2009  
**Date d'ajout** Tuesday, July 10, 2012 7:59:00 PM  
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### Marqueurs :

African Continental Ancestry Group, Alleles, Erythrocytes, European Continental Ancestry Group, Gene Frequency, Genes, Hexokinase, Humans, Hydrogen-Ion Concentration, Pedigree, Phenotype, Phosphotransferases, Temperature, United States

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## Poly(8-aminoguanilyc acid): formation of ordered self-structures and interaction with poly(cytidylic acid)

**Type** Article de revue  
**Auteur** M Hattori  
**Auteur** J Frazier  
**Auteur** H T Miles  
**Résumé** Poly(8-aminoguanilyc acid) has in neutral solution a novel ordered structure of high stability. The 8-amino group permits formation of three hydrogen bonds between two residues along the "top", or long axis, of the purines. The usual hydrogen bonding protons and Watson-Crick pairing sites are not involved in the association. The bonding scheme has a twofold rotation axis and is hemiprotonated at N(7). Poly(8NH<sub>2</sub>G) is converted by alkaline titration (pK = 9.7) to a quite different ordered structure, which is the favored form over the range approximately pH 10-11. The bonding scheme appears to be composed of a planar, tetrameric array of guanine residues, in which the 8-amino group does not participate in interbase hydrogen bonding. Poly (8NH<sub>2</sub>G) does not interact with poly(C) in neutral solution because of the high stability of the hemiprotonated G-G self-structure. Titration to the alkaline plateau, however, permits ready formation of a two-stranded Watson-Crick helix. In contrast to the monomer 8NH<sub>2</sub>GMP, poly(8NH<sub>2</sub>G) does not form a triple helix with poly(C) under any

conditions. The properties of the ordered structures are interpreted in terms of a strong tendency of the 8-amino group to form a third interbase hydrogen bond, when this possibility is not prevented by high pH.

**Publication** Biochemistry  
**Volume** 14  
**Numéro** 23  
**Pages** 5033-5045  
**Date** Nov 18, 1975  
**Abrév. de revue** Biochemistry  
**ISSN** 0006-2960  
**Titre abrégé** Poly(8-aminoguanilyc acid)  
**URL** <http://www.ncbi.nlm.nih.gov/pubmed/37>  
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### Marqueurs :

Binding Sites, Circular Dichroism, Drug Stability, Escherichia coli, Hydrogen Bonding, Hydrogen-Ion Concentration, Micrococcus, Models, Molecular, Nucleic Acid Conformation, Poly C, Poly G, Polyribonucleotide Nucleotidyltransferase, Polyribonucleotides, Spectrophotometry, Infrared, Spectrophotometry, Ultraviolet, Temperature