

# The NT Examiner

Sponsored by the Nuchal Translucency Quality Review Program



February 5, 2007, Issue No. 2

"Welcome to the second issue of The NT Examiner newsletter. It seems only a short time ago when we distributed our first issue. Since then, we have been hard at work to deliver more valuable information on first trimester screening and the NTQR Program to our participating providers and laboratories, as well as others interested in first trimester risk assessment.

These series of articles are devoted to that effort. We hope you enjoy this newsletter and we look forward to providing more in-depth and timely articles for you in the future. If you happen to be attending the SMFM 27th Annual Meeting in San Francisco next week please stop by the NTQR booth. We would love to talk to you and get your thoughts and feed-back. Thank you!"



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#### Top Tip: Forgot your password?

To gain access to your account when you have forgotten your password, click on the "Forgot your password?" link from our home page and enter your username when prompted. A new password will be sent to you via email after you click "Reset Password". If you do not see an email from NTQR Support with the subject heading "NTQR Password Reset" within a few minutes, you may want to check your Junk Mail folder should you have one.



# ACOG Endorses First Trimester Risk Assessment - Editorial

By Steven L. Warsof, MD Prof. Ob-Gyn, Eastern Virginia Medical School Director, Center for Advanced Fetal Therapy

It is not every day that Obstetrics is featured on CNN, Fox News and most local and National newspapers around the country, but that was the case early in January after ACOG released its Practice Bulletin #77 which endorsed First Trimester Risk Assessment for all Obstetrical patients.

ACOG first addressed Nuchal Translucency (NT) measurements in their Committee Opinion # 223 in October 1999. Although increasingly used in Europe for Down Syndrome screening, ACOG recommended that "First trimester screening for chromosomal, cardiac, and other abnormalities using the NT marker alone or in combination with serum markers appears promising but remains investigational". ACOG called for "the need for standardization and for further studies". Until then, NT measurements were not recommended for routine clinical use.

Since then studies in Europe (SURUSS) and in the U.S. (BUN and FASTER trials) have been performed which have given us a wealth of information on the effectiveness of First Trimester screening. In July 2004, ACOG Committee Opinion #296 replaced the 1999 opinion. At that time, ACOG recommended that

"Although First trimester screening for Down Syndrome and trisomy 18 is an option, it should be offered only if the following criteria can be met:

- 1. Appropriate ultrasound training and ongoing quality monitoring programs are in place.
- Sufficient information and resources are available to provide comprehensive counseling to women regarding the different screening options and limitations of these tests and
- Access to an appropriate diagnostic test is available when screening tests results are positive".

The NTQR program has taken that challenge to establish education, training, and quality monitoring, providing both web based and traditional land courses for physicians and sonographers, providing outreach, genetic counseling and diagnostic services.

In response to our efforts and those of other organizations, ACOG in January 2007 has issued Practice Bulletin #77 replacing the earlier Committee Bulletins. Using the data published from multiple studies comparing first and second trimester screening strategies for Down Syndrome, they have concluded that:

- All obstetrical patients should be offered aneuploidy screening before 20 weeks of gestation regardless of maternal age.
- First trimester screening with both NT and biochemical markers (PAPP-A and free or total BHCG) is an effective screening test for the general population, and is comparable to 2nd trimester screening with serum markers (MSAFP, BHCG, uE3, and Inhibin) with the additional advantage of earlier and thus safer and more available pregnancy terminations if desired.
- Combinations of first and second trimester screening will lead to higher sensitivity with lower false positive rates.
- Women with increased risk of aneuploidy should be offered diagnostic testing with either CVS or second trimester amniocentesis.
- 5. The caveat of necessary training, standardization, appropriate ultrasound equipment and ongoing quality assessment are necessary to achieve optimal NT measurements.

As can be seen, NT measurements have gone from a promising investigational tool (1999), to an option in appropriate circumstances (2004), to an effective screening test for Down Syndrome in the general population (2007). NTQR Program's role will be to assure standardization of measurement techniques, credentialing of physicians and sonographers, and maintain ongoing quality review. In addition NTQR is considering ways to coordinate ongoing research efforts to continue to seek the optimal Down Syndrome Risk Assessment strategy. Currently there continue to be a dizzying array of different options promoted within the professional and commercial communities, including combined first trimester screening, fully integrated screening, serum integrated screening, step-wise sequential screening and contingency screening strategies. Many of these choices are confusing to patients and physicians. We will use additional articles in this and future NT Examiners to help clarify the advantages and disadvantages of these various approaches. It is now our challenge to implement and maintain this program on a national basis. The NTQR is there to help you meet these challenges.



# Nuchal Translucency Quality Review (NTQR); Creation and Initial Action Plans

By Richard Depp, MD
President, Maternal Fetal Medicine Foundation
Member of the NTOC
Executive VP, Society for Maternal Fetal Medicine

The Society for Maternal Fetal Medicine (SMFM) recognized the importance of establishing a nationally respected, consensus-based Nuchal Translucency (NT) quality review program. Approximately two years ago a financially independent (administratively and financially) not-for-profit organization, the Maternal Fetal Medicine Foundation (MFMF) was created by six clinical leaders nominated by the SMFM for their expertise to create and manage the Nuchal Translucency Quality Review program. The current MFMF Board members are Drs. Mary D'Alton, Richard Depp, Roger Newman, Dan O'Keeffe, Larry Platt, and Ronald Wapner.

The first four actions of the MFM Foundation were to:

- establish a NT Oversight Committee to oversee the development of the NTQR program a nationally recognized, consensus-based education and quality review program that would be responsive to the circumstances and needs of American clinicians and
- develop a business plan including anticipated programs, associated expenses and strategies to pay for the program's activities;
- 3. contract with an experienced data management and website management organization to develop a website that would allow virtually all program activities to be managed electronically; and
- identify and develop a collaborative and responsive relationship with the key participants involved in prenatal screening
  - a. clinicians (MFMs, Obs, Radiologists, Geneticists);
  - b. non-physician sonographers (SDMS);
  - c. professional societies (ACOG, ACR, AIUM, ACOOG, SDMS & NSGC);
  - d. commercial and private analyte laboratories.

## What Has the NTQR Program Done for You Lately?

By Richard Depp, MD
President, Maternal Fetal Medicine Foundation
Member of the NTOC
Executive VP, Society for Maternal Fetal Medicine

NT CPT Codes (76813 and 76814): Several members of the NTQR and members of the SMFM Coding Committee were instrumental in the creation of two new CPT codes for Nuchal Translucency risk assessment. These new codes are usable as either stand-alone or add-on codes, and will allow practices to properly code and bill for the added work of NT measurements. The codes 76813/76814 include three components: fetal viability, crown/rump measurement and nuchal thickness. These codes are <a href="effective on January 1">effective on January 1</a>, 2007. They are as follows:

- **76813** Ultrasound, pregnant uterus, real time with image documentation, first trimester fetal nuchal translucency measurement, transabdominal or transvaginal approach; single or first gestation.
- 76814 each additional gestation (List separately in addition to code for primary procedure)







Nasal Bone Criteria for QA

By Beryl Benacerraf & Alfred Abuhamad

The detection of the nasal bone is technically challenging, and as such requires proper training and expertise. If everyone uses the same strict uniform criteria, the outcome of the screening will be optimal, where as individualizing the methods will lead to vastly inaccurate results.

The criteria that NTQR has set forth for assessing the presence or absence of the nasal bone ossification is as follows:

- 1. The fetus must be in a midsagittal plane, similar to the plane required for measuring the nuchal translucency. The facial profile must be well defined and the tip of the nose well seen.
- 2. The image must be magnified sufficiently so that the fetal head and upper torso occupy the majority of the image. This criterion is the same as that required for the nuchal translucency. A second fetus of the same size should not fit in the surrounding space on the image.
- 3. The margins and resolution of the anatomy must be clear and not blurry, so as to see the image detail unambiguously.
- 4. The angle of insonation must be at a 45 degree angle to the fetal profile so as to be perpendicular to the nasal bone. This is necessary to enhance visualization of the nasal bone.
- 5. The echogenicity of the nasal bone must be observed to be equal or greater than the overlying skin on the surface of the nose.

#### **Normal Case**



**Abnormal Case** 



Detecting the presence or absence of nasal bone ossification is difficult and requires practice. There is a learning curve such that sonographers starting their training are far less accurate than those who have been performing the nasal bone assessment for some time. NTQR has suggested that 40 cases is the minimum number required for an experienced sonographer to become proficient in nasal bone assessment. Therefore, NTQR recommends that practitioners and sonographers not start using the nasal bone assessment clinically to determine the risk of aneuploidy until they have performed the evaluation of at least 40 cases and feel comfortable with their technique.



Is it a Myth or a Fact?
By Larry Platt, MD
NTOC Member
Prof. Ob-Gyn, Geffen School of Medicine at UCLA,
Director, Center for Fetal Medicine and Women's Ultrasound

## Is it a Myth or a Fact?

"The NTQR credentialing is only for MFM subspecialists and their sonographers."

### It's a MYTH.

NTQR education and credentialing is open to all interested physicians including General Ob/GYN, Radiologists, or other specialists. They may be M.D.'s or D.O.'s. There is separate credentialing for sonographers.



# Is it a Myth or a Fact?

"NTQR will only hold educational courses at the professional society (ACOG, AIUM, SMFM, and SDMS) meetings."

## It's a MYTH.

NTQR has already scheduled meetings in conjunction with many other post graduate courses put on by Medical Centers and other CME providers at free standing courses around the country.

## Is it a Myth or a Fact?

"NTQR continues to collaborate with principal investigators in the US to provide evidence based studies to analyze best practices."

#### It's a FACT

The NTQR is made up of clinicians from across the United States who will be participating in studies to provide evidence based studies to determine best practices.

#### Is it a Myth or a Fact?

"NTQR has established its complete program and is not amenable to suggestions from individuals who are not members of the NTOC or participants in the NTQR program."

# It's a MYTH.

NTQR is a continually evolving program, always interested in hearing suggestion and ideas to improve the program. In fact, we have recently completed our second complete revision of our educational content for our web based and land based courses based on input from participants in these courses.



Update on NT Epidemiologic Monitoring Reports

By Kim Dukes President and CEO, DM-STAT, Inc.

The primary goal of the NTQR program is to aid providers in obtaining reproducible and valid NT measurements. The NTQR program provides didactic training, image review (for proficiency testing) and on-going epidemiologic monitoring. In the image review, each provider submits 10 images to an NTQR image review expert to establish proficiency. Once proficiency is established, epidemiologic monitoring techniques are used to assess quality over time. These techniques are cost effective and provide systematic guidelines to determine how each provider's measurements compare to the population at large. Credentialed providers and their supervisors will receive epidemiologic monitoring reports on a quarterly basis, the first quarter reports for 2007 have been distributed.

One of the components of the epidemiologic report is a graphical display containing the providers observed NT measurements as a function of CRL (see Figure 1 below). The solid line in the figure is the population referent, the points are the provider's NT measurements. The example provided in Figure 1, illustrates that the provider is measuring "within expected range" as compared to Figure 2 where the provider is measuring systematically smaller than expected. It is important to note that the observed measurements are not expected to fall along the line, however, approximately half should be above and half below the line over the entire range of CRLs. We also routinely assess the proportion of NT measurements above the 95th percentile and below the 5th percentile.

Figure 1: Provider with NT measurements "within expected range" (measuring similar to the population)

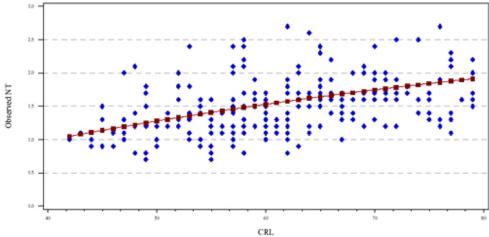
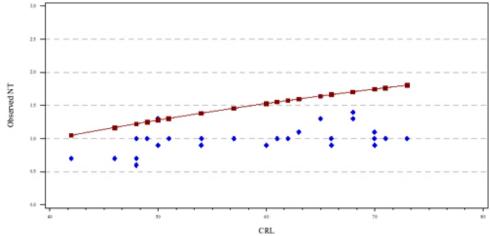


Figure 2: Provider with NT measurements "outside of the expected range" (measuring systematically smaller than the population)



In the next issue of the NT Examiner, we will discuss the statistical methods used to determine whether a provider is within or outside of the expected range and the subsequent steps taken by the NTQR. For further information, please contact <a href="mailto:Kim.Dukes@DMSTAT.com">Kim.Dukes@DMSTAT.com</a>.

# **Epidemiologic Monitoring Report Dividend**

By Richard Depp, MD President, Maternal Fetal Medicine Foundation Member of the NTOC Executive VP, Society for Maternal Fetal Medicine

January 2007 marks our first quarterly distribution of the NTQR program's epidemiologic reports to credentialed sonographers and their credentialed supervisors. Within days we have received our first dividend. A sonographer report that was outside the expected range was reviewed by the appropriate supervising sonologist who quickly communicated the following to the NTQR: "Our internal QA confirms what the report NTQR generated suggested; the sonographer's NTs are all over the map. I would like the sonographer to redo the educational module, retake the test, and resubmit images." The NTQR can respond to that request with educational content, as well as image review and feedback - all quickly done with our web-based program.

The NTQR program's epidemiologic monitoring of NT proficiency offers objective screening of image proficiency and assessment of quality over time for individual providers - <u>but only for NT providers that are NTQR credentialed and who submit a sufficient number of their NT case data to analyte laboratories that cooperate with the NTQR and that in turn exchange NT related data with the NTQR.</u>

The quarterly NTQR Epidemiologic monitoring reports are cost effective and eliminate the need to submit images annually. It's easy for credentialed providers to get started: create a NTQR Provider Practice Account, record the sonologist and sonographer NTQR codes and select clinical data on the lab requisition form for at least 30 cases per year to a lab that participates in the NTQR program. Data for an individual provider can also be aggregated across multiple analyte labs as long as each lab cooperates with the NTQR program.

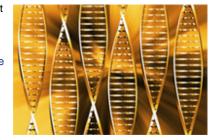


Genetic Counselor's Corner By Renee Laux, M.S.

Questions related to First trimester screening will present many challenges during genetic counseling sessions. It will be our task to present this evolving information in a coherent fashion so that patients can make appropriate informed decisions. These are some questions that have been submitted to the Genetic Counselor's corner.

**Q.** My patient wants the screening that, if screen negative, will reassure her the most that the fetus does not have Down syndrome. Timing is not an issue for her as she states that she would not pursue invasive diagnostic testing. What screening would be best?

**A.** Fully Integrated screening. This includes NT measurement with PAPP-A between 11 and 13 6/7 weeks followed by second trimester biochemical screening (MSAFP, BHCG, uE3, and Inhibin) between 15-20 weeks. After which a single final risk assessment for Down Syndrome would be made.



- **Q.** My patient is undecided about whether she would have CVS or amniocentesis. She would like biochemical and ultrasound screening that would allow for either diagnostic test, if screening increased her risk. What screening would you recommend?
- **A.** Stepwise Sequential Screening. This includes NT measurement with PAPP-A and either free or total BHCG between 11 and 13 6/7 weeks. If screen positive she would have the option of CVS. If she was screen negative, then she would go on to second trimester biochemical screening (MSAFP, BHCG, uE3, and Inhibin) between 15-20 weeks. She would then have the option for amniocentesis at this point.
- **Q.** It was not possible to obtain an NT for my patient at her appointment at 11+3 weeks. She still desires the screening that can reassure her the most. What are her options?
- **A.** Serum integrated screening now, or she can return within 2 weeks to see if an NT can be obtained at this later date. If not, have her blood drawn at that time for serum integrated screening.
- **Q.** My patient desires screening for Down syndrome and would choose to have a CVS but would not choose to have amniocentesis, as she had complication in a previous pregnancy following an amniocentesis. What screening would be best for her?
- **A.** Combined First trimester screening which includes NT measurement with PAPP-A and either free or total BHCG between 11 and 13 6/7 weeks. This would be followed by MSAFP alone in the 2nd trimester to screen for open neural tube and ventral wall defects.

If you have any questions that you would like to submit to future editions of the NT Examiner, please contact Renee Laux at <a href="mailto:onedrflslf@yahoo.com">onedrflslf@yahoo.com</a>.



**Sonographer's Corner**By Anthony E. Swartz, B.S., RT(R), RDMS University of North Carolina - Chapel Hill Department of Obstetrics & Gynecology aswartz@unch.unc.edu

There is much more to performing NT screening for aneuploidy than just doing the sonogram, and obtaining a good quality images. Even if you are new at NT measurements, you know that patients frequently have questions. Even after having a complete genetic counseling session, patients often will ask the sonographer questions that they forget to ask the genetic counselor. Complex questions should always be redirected back to the genetic counselor or a physician. However, many questions can be answered by the sonographer. You should first know your organization's policy regarding answering patient questions. If you are permitted the latitude to answer questions, are you prepared to answer them?

Much of what we do in sonography is based on research, and NT risk assessment is no different. The first step in preparing for patients' questions is to be aware of the research on NT. That means pulling the papers and spending a little time reading. You will be amazed at how much information can be gained from reading the research that went into NT screening.

Access to these papers, including the FASTER (First and Second Trimester Evaluation of Risk) trial papers, are available through PUBMED <a href="http://www.ncbi.nlm.nih.gov/entrez/">http://www.ncbi.nlm.nih.gov/entrez/</a>. If you do not have access to PUBMED, free articles are available on the web. One such article entitled "U/S Clinics: Putting the FASTER results into clinical practice" was written by one of the principal investigators of the FASTER trial, and was published in <a href="https://www.contemporaryobgyn.net/obgyn/article/article/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/entitle/en

Obtaining NT credentialing is the first step in a journey of NT screening. Being familiar with the key studies on NT screening will not only provide a deeper understanding of NT screening, but will also enhance your role as a member of the NT screening team. More importantly, the patient is better served.

#### **NTQR Finances**

By Richard Depp, MD President, Maternal Fetal Medicine Foundation Member of the NTOC Executive VP, Society for Maternal Fetal Medicine

#### 1) How does the EZ-Pass Fee Collection work?

The NTOC opted to adopt an EZPass approach to collect monitoring fees. This will work similarly to the method used on many toll roads in the US. The users create and pre-fund, a Practice Account. As labs forward patient data to the NTOC, the account is debited. Once the account falls below a predetermined level, it is automatically replenished. The EZPass approach avoids the necessity of submitting invoices to participating providers, which would result in additional costs to the NTQR as well as to the provider's practice. The fee may be prepaid by check or periodically by Credit card in much the same way as with other periodic fees.

It is necessary for the provider's practice to register a **Physician Provider Account** (PPA) which is necessary for the linkages to create NTQR's quarterly epidemiologic monitoring reports for NTQR credentialed providers in the practice. It is also necessary to provide a financial linkage and promote a number of efficiencies with regard to consolidation of fees.

In future issues we will discuss other Financial issues such as - what services the fees cover, management of surpluses and deficits and the relative merits of a Member fee versus a Click Fee.

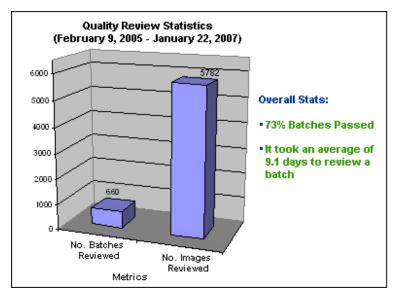
## Criteria for Nuchal Translucency (NT) Measurements

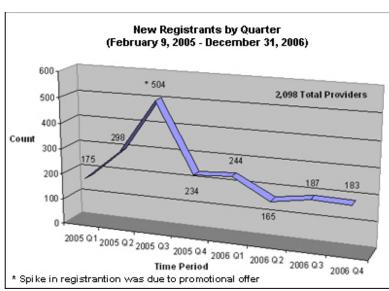
By Steven L. Warsof, MD Prof. Ob-Gyn, Eastern Virginia Medical School Director, Center for Advanced Fetal Therapy

This will be the first in a series of articles for the NT Examiner to clarify the nine criteria established by the Nuchal Translucency Quality Review (NTQR) Program for NT measurements. It is the goal of the NTQR to standardize the NT measurement. It is critical for First Trimester Risk Assessment that the NT measurement be done uniformly, correctly, and precisely. The NT measurement is unique in diagnostic obstetrical ultrasound as fractions of mm's can make significant differences in individual risk assessment for Down Syndrome, patient's decisions for diagnostic testing, and the overall effectiveness of any Down Syndrome screening program.

Nuchal Translucency measurements must be between 10 3/7 weeks and 13 6/7 weeks gestation. This is equivalent to a CRL measurement between 38-84 mm. In this window of time CRL accuracy for gestational dating is 3-5 days. The CRL measurement must be included with NT measurement as the NT measurement is converted into multiples of the mean (MOM) for the CRL. The measured CRL is not the actual anatomic CRL but rather the longest straight line measurement of the fetus while its head is maintained in the neutral position. See figure 1. Unlike the NT measurement in which the longest of three good measurements is used, the CRL uses the average from 3 good measurements. NT measurements can be obtained either transabdominally or endovaginally.

- 1. **Margins of the NT edges are clear.** Although this may seem obvious, it is critical that the margins of the fetal skin edges and facial structures are crisp and clean. Fuzzy images will make measurements inaccurate. The angle of insonation needs to be perpendicular to the NT space. Any misalignment will introduce inaccuracy. In addition the NT lines themselves should be clear. Fuzzy lines will make caliper placement inaccurate.
- 2. **Fetus in Midsagital Plane.** The NT measurement should only be made in the midsagital view with the fetal spine seen in cervical and thoracic regions. The tip of the nose should be clear in fetal profile. The third and fourth ventricles of the fetal CNS are also frequently seen. Structures not in the mid line should not be seen. If fetal ribs, stomach or heart are seen in the NT image, this would indicate an oblique scan which is not in the midsagital plane and therefore would be an inappropriate image for NT measurement.





## **Upcoming Land-based NTQR Courses**

27th Annual Meeting
 The Pregnancy Meeting™
 San Francisco Hilton & Towers
 San Francisco, CA
 Feb 5-10, 2007

http://206.18.123.200/index.cfm?zone=calendar&nav=meeting

 2007 AIUM Annual Convention Marriott Marquis Hotel New York City, NY Mar 15-18, 2007

http://www.aium.org/cmeactivities/events/ann2007/intro.asp

74th Annual Conference

American College of Osteopathic Obstetricians and Gynecologists LaQuinta Resort Palm Springs, CA

March 27-31, 2007

http://www.acoog.com/events.html

55th Annual Clinical Meeting
 American College of Obstetricians and Gynecologists
 San Diego Convention Center
 San Diego, CA
 May 5-9, 2007
 http://www.acog.org/acm/

Fetal and Women's Ultrasound 2007

Hyatt Regency Dallas

Dallas, TX

May 18-20, 2007

#### http://www.iame.com/courses/fetal0507/fetal.html

• OBGYN Ultrasound Update

Chicago, IL

Aug 24-26, 2007

#### http://fmfaus.meetingpro.info/

2007 SDMS Annual Conference

Red Rock Resort, Casino, Spa

Las Vegas, NV

October 11-14, 2007

# http://www.sdms.org/meetings/default.asp

• IAME 8th Annual Obstetric Ultrasound in the High Risk Patient

The Venetian Resort Hotel

Las Vegas, NV

October 26-28, 2007

## http://www.iame.com/courses/hirisk1007/hirisk.html

• 10th Annual Mid-Atlantic Ultrasound Symposium for Obstetrics and Gynecology

and Nuchal Translucency

The Hilton Hotel at Ocean Front

Virginia Beach, VA

November 9-10, 2007

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#### **LETTERS AND OTHER INQUIRIES**

Send letters to the editor and all other inquiries to the NT Examiner newsletter.

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Washington, DC 20024, or send e-mail to <a href="https://www.ntgr.org">NTQRSupport@ntqr.org</a>.

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