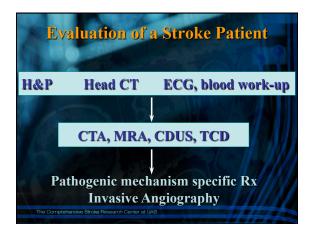
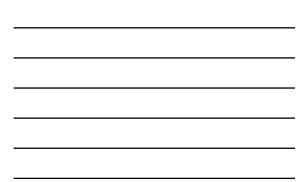
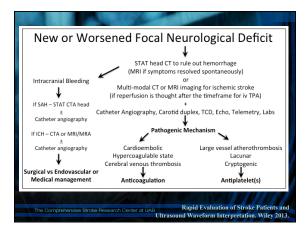




SVIN, ICAVL, ASN Inventor, US Patent # 6733450 Chairman, Scientific Advisory Board, Cerevast Therapeutics, Inc.

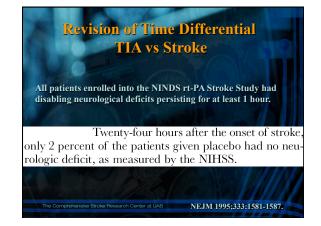






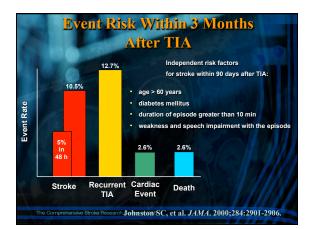


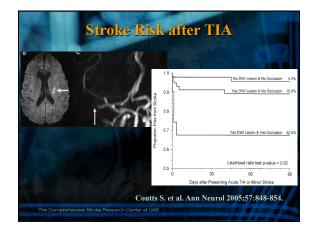




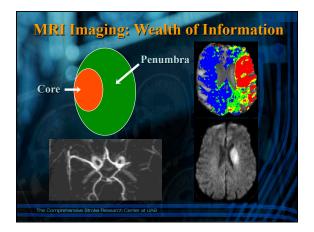
Definition and Evaluation of Transient Ischemic Attack A Scientific Statement for Healthcare Professionals From the American Heart Association/American Stroke Association Stroke Council: Council on Cardiovascular Surgery and Anesthesia; Council on Cardiovascular Radiology and Intervention; Council on Cardiovascular Nursing; and the Interdisciplinary Council on Peripheral Vascular Disease The American Academy of Neurology affirms the value of this statement as an educational tool for neurologists. J. Donald Easton, MD, FAHA, Chair, Jeffrey L. Saver, MD, FAHA, FAAS; MD, Mark J. Aberts, MD, FAHA, Seeman Chaurveid, MD, FAHA, FAAS; Edward Feldman, MD, FAHA, Thomas S, Hastokani, MD, FAHA, T-Hana, ALA, FAAS; Elaward Foldman, MD, FAHA, CRB, FAHA; Ragh L. Sacco, MD, MS, FAAA, FAHA; Elaine Miler, DNS, RN, CRB, FAHA; Ragh L. Sacco, MD, MS, FAAA, FAHA

Datate Minici, DOS, KN, CKKKI TAIAY, KAIJU L. SAKO, MO, DA JA, TAAN, TAIAY Martae-Thus scientific statement in interaction for use by physican and allide balls presend caring for patients with transient ischerin attacks. Formal evidence review included a structured literature search of Meditire from 1990 to Jane 2007 and data synthesis employing evidence tables, therearoalyses, and pooled analysis of individual patient-evide data. The review supported endoscenter of the following: tissue-based definition of transient ischerine attack. (TAI): a transient episode of neurological dynamics nameday (Foca Barin, signal cord, er trainal ischerine, without actual fraterious data. The review are at high risk of early struke, and their risk may be straffield by diffusion superses neuroimaging evaluation within 24 bases of symptom onest, preferably with magnetic resonance imaging, heading diffusion superses: noninvasive imaging bound occurs areas as possible after. The and probaged endoscent incursions in consolution in the struke whord occurs areas on spossible after. The and probaged endoscent is mentioning and extra consolution patients with TAIA and they endoscent endoscent and the struke and the consolution of the struke and the struke and the struke and endoscent as a probable after TAIA and probaged endoscent areas reasonable in patients with TAIA they present within TAIA and probaged endoscent and the struke and is reasonable to polynize patients with TAI they present within T2 bours and have an ABCD' sover 85. A failed and probaged endoscent areas of early resurrence, or the evaluation cannot be rapidly completed on an outpatient basis. (Struke, 2009;40:276-2293.)

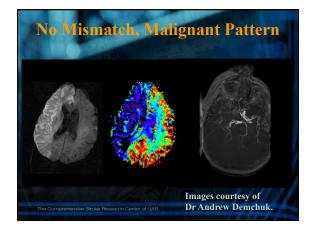




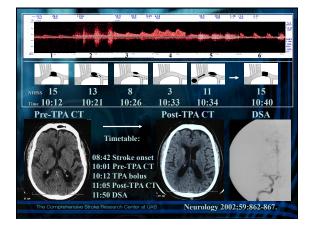








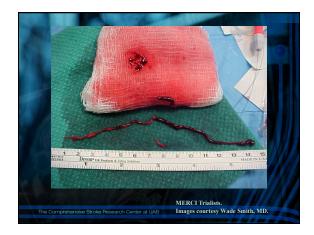












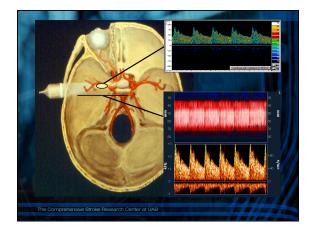
Neurovascular Examination

NIHSS is sensitive to clot presence but not to its location Low NIHSS and TIA are not a guarantee that vessels are open

Focused neurological exam Clinical localization-driven Rapid targeted ultrasound Intra- and extracranial Functional tests and Monitoring if needed

Bedside



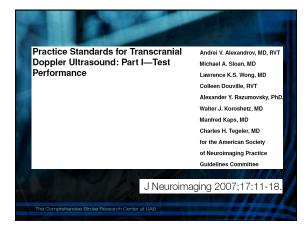




US Spectrum of Information

- Extracranial lesion localization/stenosis grading
- Downstream hemodynamic changes: collaterals
- Emboli detection: localization and quantification
- Right-to-left shunt testing
- Intracranial stenoses
- Vasomotor reactivity
- Recanalization, reocclusion, hypo- & hyperperfusion
- Vasospasm detection, grading and monitoring
- Arterial steals

Neurovascular Examination at UAB Rapid Evaluation of Stroke Patients and Ultrasound Waveform Interpretation. Wiley (in press).





Clinical Applications Type, Strength of H	
1. Sickle Cell Anemia	A, I-II
2. Subarachnoid Hemorrhage	A, I-II
3. Ischemic Stroke/TIA	
1. Intracranial stenosis-occlusion	B, II-III
2. Vasomotor reactivity testing	B, II-III
3. Monitoring thrombolysis	B, II-III
4. Cerebral circulatory arrest	A, II
5. Detection of right-left shunts	A, II
6. Monitoring CEA / CABG	B, II-III/B-C, II-III
7. Headache, Venous Thrombosis	Doubtful
	et al. Neurology 2004;62:1468-81 Neuroimaging 2000;10:101-115

Practice Standards for Transcranial Doppler (TCD) Ultrasound. Part II. Clinical Indications and Expected Outcomes

Andrei V. Alexandrov, Michael A. Sloan, Charles H. Tegeler, David N. Newell, Alan Lumsden, Zsolt Garami, Christopher R. Levy, Lawrence K.S. Wong, Colleen Dowille, Manfred Kaps, Georgios Taivgoulis; for Her American Society of Neuroimaging Practice Guidelmes Committee (Rull), Bash Reguing Mark Feret Nuewly delaters at Brenzin, Birnighan, A. MA, OT, Competence Bites Cene, Unwesty disaming Finish, Ihm (Rull), Bash Reguing, Mark Feret Nuewly delaters at Brenzin, Birnighan, A. MA, OT, Competence Bites Cene, Unwesty disaming Santa (Santa), Santa,

ABSTRACT

TRACT and bopper (CD) is a physiological altrasound text with established solvey sm. , rathoopin hunging device may be used to depict tatoscenial flow support calls visualization the under-scale provided by imaging depicts or nonimising DT and visualization by this multificitigating page of open as established are factories considered by this multificitigation page of open as established are celledisease, cerebral ischemia, detection of right-beirt shurst (RS), subarach-emorbage, brind beith, and periprocedual or surgical motioning. The fallowing and states are performed in involute in and outpatient clinical practice complete and outpatient clinical practice complete

Keywords: TCD, indications, applica- tions and outcomes.	
Acceptance: Received May 23, 2010, and in revised form July 06, 2010. Ac- cepted for publication July 15, 2010.	
Correspondence: Address correspon- dence to Dr. Andrei V. Alexandrov, Com- prehensive Stroke Center/Neurology. The University of Alabama at Birming- ham, RWUH M226, 619 15th St South, Birmingham, AL 35249-3280. E-mail: avalexandrov@att.net.	
J Neuroimaging 2010;XX:1-10.	

A 16 year old girl had a sudden onset of left sided weakness. Normal CT scan done at 2.5 hr. TPA given at 3 hours, transferred to a level 1 hospital, and improvement noted en route.

Noser E, et al. Child Neurology 2001;16:286-288.

Risk factors: smoking, birth-control pill

NIHSS 4 points upon arrival

Dx: ?

Prognosis: ?







