

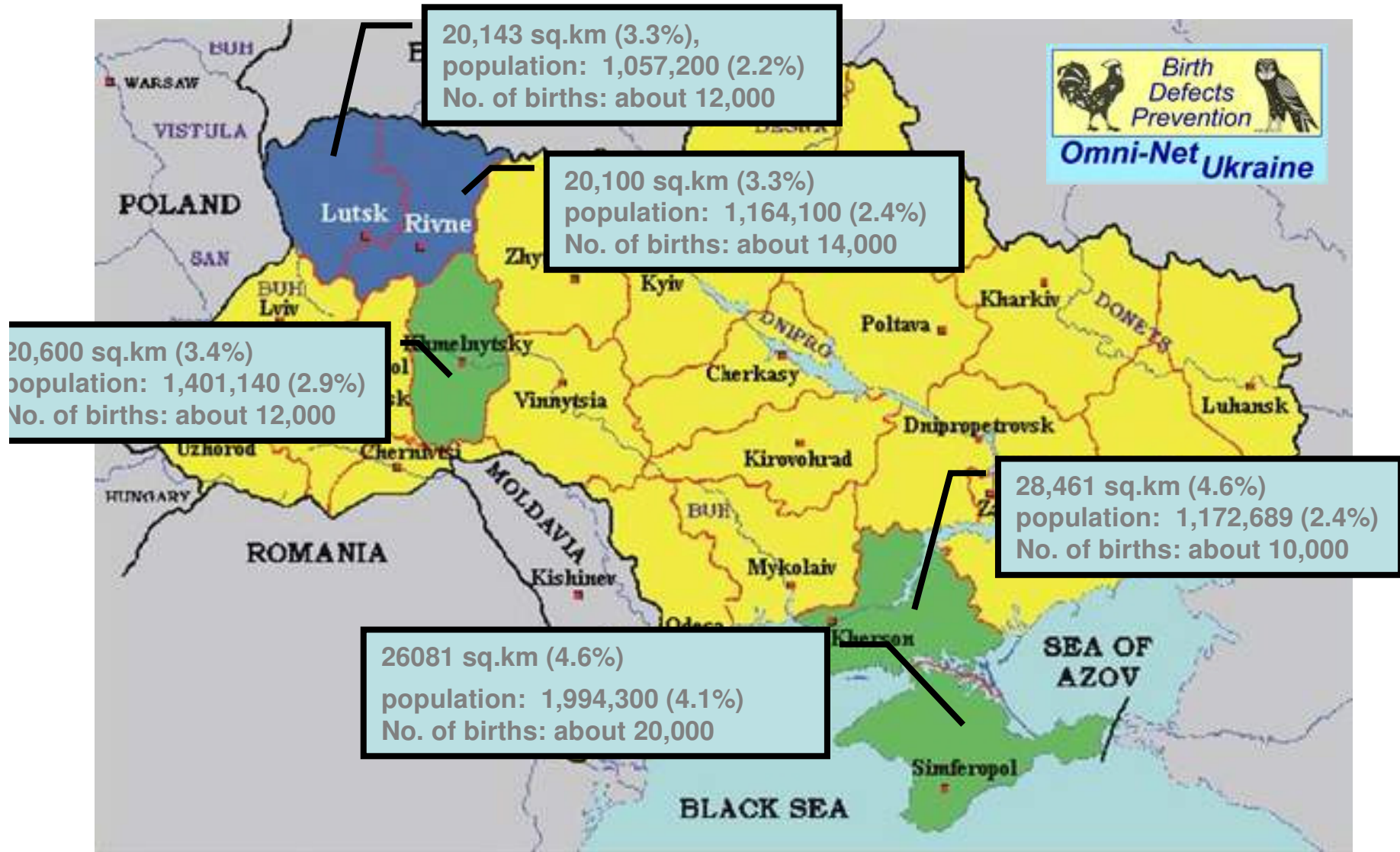
**OMNI-Net Birth Defects Ukrainian Consortium:
Impact and Lessons Learned from "De-centralized"
Strategies**

*Wladimir Wertelecki, M.D. – Ukraine and Univ. of South Alabama
(Personal Views)*

More at the Break out 8 session



- 1998 Planning
- 1999 Training
- 2000 BD and Neonatal Population Registries initiated
- 2002 Volyn+Rivne > **NTD ~ 20 per 10000 livebirths** (Yuskiv et al. 2004)
- 2003 **3rd set of conjoined twins solely in the Rivne region**
- 2006 Higher NTD rates in **Rivne-Polissia**
6th set of Conjoined twins noted in Rivne
- 2007 Focus on NTD – Twins – Omphalocele - Body Stalk ... **Blastophies Complex**



UKRAINE ~ FRANCE



Resource OMNI-Centers Network

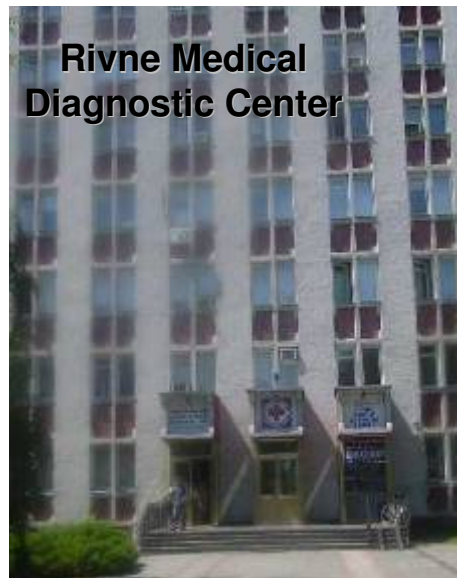


Volyn Children Medical Ctr.



Kherson Children's Hosp.

**Next Ukrainian - Uzhhorod ...
Next International ? ...**



**Rivne Medical
Diagnostic Center**

PARTNERISHIPS

**Data
Tele-medicine
Parental Support
Research**

(FASD – EI – EUROCAT – IBDCH - ...)



**Crimea Children's
Hosp.**



**Khmelnytsky
Perinatal Center**



OMNI-Net is **VIRTUAL and REAL**

- > Medical professionals are employed by major regional medical centers.
 - > Resource Centers are an integral part of regional medical centers (**caviat**; dedicated to BD care-prevention)
 - > Programs are only undertaken by agreement with local health authorities
-
- > Registered as a not-for profit **Ukrainian** International organization.
 - > Recipient of grants and donations
 - > Deploys resources as shared property
 - > Provides a basis for collaborative agreements linking multiple oblasts
 - > Provides a basis for multi-oblasts links with national/international partners.
 - > Welcomes parental support organizations
 - > Welcomes **individuals as partners**



Flow of National - International Initiatives

Usual “centralized” flow

Central Authorities > Select Oblasts > Oblast Selects Partners

Alternative “decentralized” flow

OMNI-Net > OMNI-Net partners > Oblast Authorities > **Central Authorities**



STRATEGIES

- **Network** OMNI Resource Centers (**Resource Sharing**)
- **Local Authorities (Health and ...)** – **Partners**
- **Web** (computer and information-electronic resources) (IBIS ...)
- **Telemedicine** (national and international)
- **Prevention** – Provider-Parents-Consumer links

TACTICS



- Start in **regions** (oblasts)
- Locate OMNI-Centers in **key (interested) medical centers**
- Train **local professionals** (neonatologists, medical geneticists ...)
- Stress **web and English** competent staff
- **Sustain transparency** of activities and data

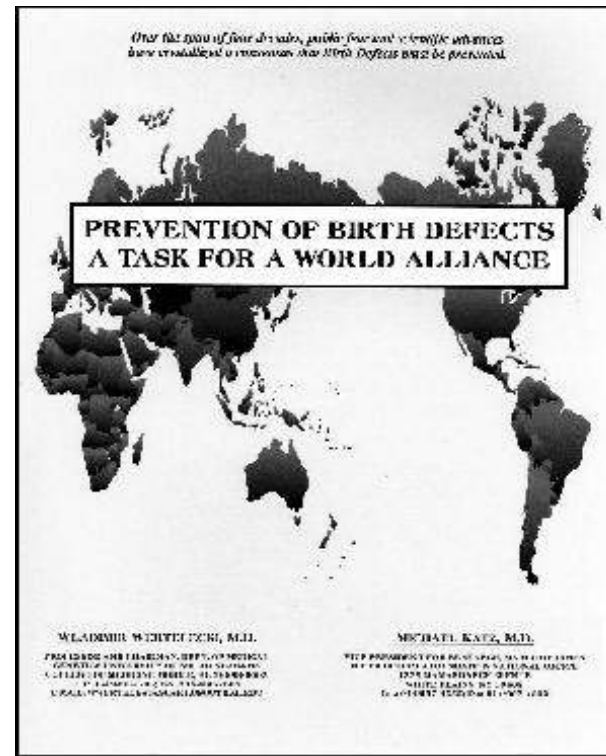


Current Status

(Catalyst – Implementations – Advocacy)

- **Ombudsman – Facilitation - Logistical support** (English competent staff, Internet) for national-international initiatives)
- **Experience** : implementation of initiatives funded per World Bank, USAID, Swiss, Sweden, ... NIH, CDC, ...
- Welcomes **pilot trials** of potential research partnerships
- co-sponsor of **courses, training and workshops**
- programs aimed at **orphanage reforms**
- **parental support groups**
- Seeks to materialize a “Polissia” Initiative –
- International data review/analysis panel

Drs. V. Zamostian, I. Baryliak, Edmonds, W. Wertelecki, J. Howse, M.Katz, Y. Poortman, J. Harris, L. Yevtushok, T. Lyvitz, ...



1998

Construction of a Perinatal Center in Lutsk A Presidential Visit

2001



УКРАЇНА

ВОЛИНЬСЬКА ОБЛАСНА ДЕРЖАВНА АДМІНІСТРАЦІЯ

49027, м. Луцьк, Київська площа, 9, тел. 7-98-81

20.06.2001 № 1.78/1533

№ №

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June 18, 2001, Lutsk

Dear Dr. Wladimir Wertelecki,

Thank you for your attention paid to the construction of the Perinatal Center in Lutsk. I am glad to inform you that on the 16-th of June 2001, the President of Ukraine Leonid Kuchma laid the foundation stone and capsule with appeal to posterity in basement of future Volyn Perinatal Center.



The President of Ukraine L. Kuchma and Governor of Volyn S. Klimentchuk laying the foundation stone in the Perinatal Center basement.



The President of Ukraine L. Kuchma signing his name in "Golden book" of Perinatal Center founders.



First International Bioethics Kyiv Congress

2001



*Couple receiving folic acid pills
Sponsored by "Women for Future"
Association*



National University “Ostroh Academy” Students and this Summit



- > **Lviv Univ. Sch. of Med.**, Ukraine – Prof. Korzhynskyy – Infant Mortality
- > **Ternopil Univ. Sch. Med.**, Ukraine – W. Wertelecki, M.D. – Seasonal impact on NTD and DZ conceptions
- > **Sefaric Univ.**, Slovakia – Prof. L. Podradska - MTHFR and NTD risk
- > **N.Y. Univ. USA.**, Prof. R. Garruto – Radiation Risk related behaviors
- > **Univ. So. Alabama**, USA – W. Wertelecki, M.D. - Conjoined Twins

Health Care <> Public Awareness <> FASD Pilot > Research



International FASD Consortium

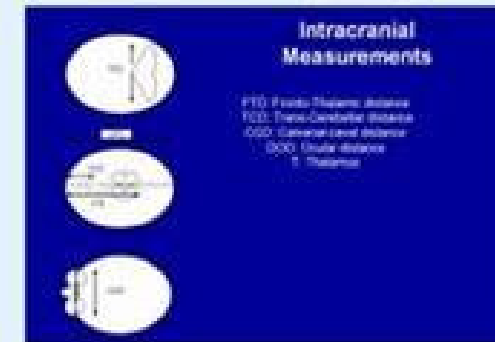


National Institute on Alcohol Abuse and Alcoholism
Participating sites:

- ◊ San Diego State University
- ◊ Indiana University School of Medicine
- ◊ University of California, San Diego
- ◊ University of California, Los Angeles
- ◊ University of New Mexico
- ◊ Vienna State University
- ◊ Indiana University Purdue University School of Science
- ◊ **OMNI-Net Ukraine**
- ◊ University of Washington
- ◊ Harvard University
- ◊ SUNY Buffalo
- ◊ Eschelon Research Center, Montreal
- ◊ University of Cape Town
- ◊ Moscow Institute of Psychiatry
- ◊ Moscow Institute of Obstetrics and Gynecology
- ◊ University of Rome



Ultrasound Markers of Prenatal Alcohol Exposure



Differences in Brain Measures (Second Trimester)

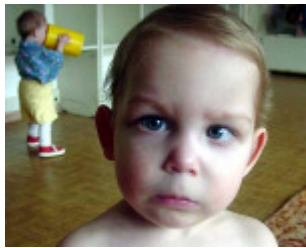
Measure	Alcohol-exposed (N=48)	Controls (N=37)	p-value* (ANCOVA)
OPC%	48.3	48.9	0.917
IPC%	62.6	60.2	0.737
TCD	22.7	21.3	0.215
OPD	64.6	63.7	0.398
CDD	24.4	25.6	0.090
PFD	38.9	41.4	0.004
ODD	34.3	34.3	0.888
OD	10.4	9.8	0.280
OD	10.8	10.8	0.647

*Adjusted for gestational age

Conclusions

- Based on these preliminary results, measurement of the frontal area of the brain on prenatal ultrasound may be an early indication of risky alcohol exposure during pregnancy

FADS International Consortrium 2007 Expansion



Early Intervention Center "Pahinets" in Rivne (2002-2004-2007-2008 ...)



Mrs. Svitlana Bohatyrchuk-Kryvko and Mr. Valentin Kroka



Ukraine Special Needs Orphanages Fund (USA)

Y. Ihnatenko, M. Rutherford, K. Feathers, I. Shumlyansky, J LeSueur, O Kholod, T. Ponimanska, L. Yevtushok





ORPHANS

A task **UNFINISHED**

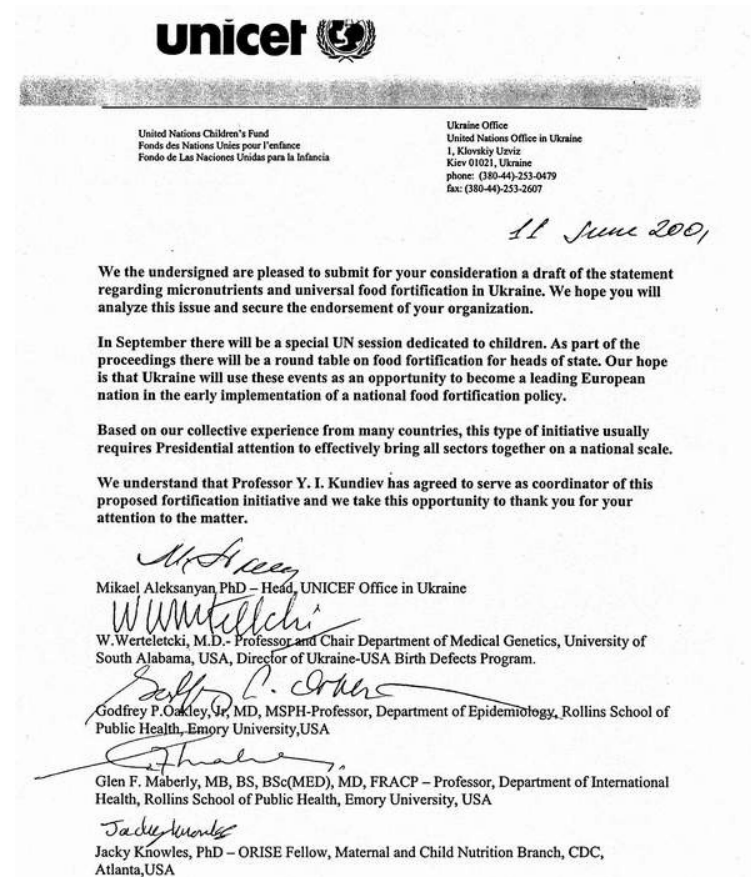
- > A “deposit” of those with BD.
- > A source of serious iatrogenic developmental disorders

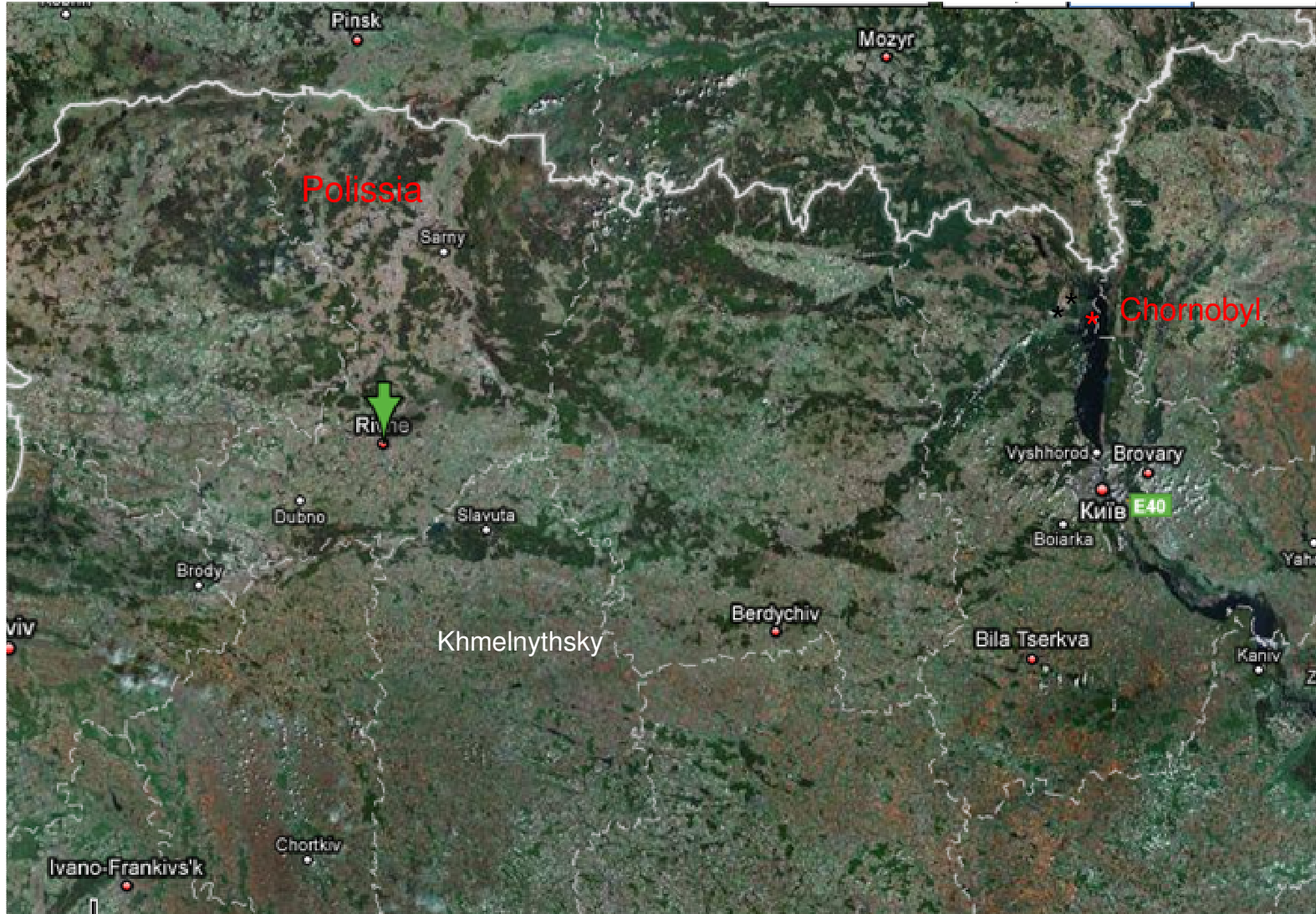


IODINE - FOLIC ACID - UNICEF – UKRAINIAN MINISTRY OF HEALTH – OMNI-Net ANOTHER UNFINISHED TASK



Drs. G. Oakley, G. Maberly (upper left) and L. Sever and L. Edmons (lower left) and other counterparts.







POLISSIA INITIATIVE - International Experts

	Polissia	Non-Polissia
ISOLATED NTD x 10000	22.35	15.84 (<i>P</i> :<0.05)
NTD and Omphalocele (N)	7	2



Credits

REGIONS

- Hospital Directors
- Mat. Child Health Dir.
- Governors
- Educators

OMNI Centers

- Medical Directors
- Clinical Teams
- Information Officers
- Staff

NATIONAL

- Ministry of Health
- Continuing Med. Education Inst.
- Academic Establishments
- Leading medical experts

INTERNATIONAL

- Dr. G. Oakley, L. Sever, L. Edmonds ...
- CDC
- MoD
- Drs. R. Stevenson, C. Chambers, K. Jones
- ...
- ...

See you at the
Break out 8 session