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(Nb)

The Future Of Iraq Project



Public Health and Humanitarian Needs

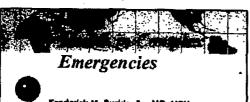
Working Group

Public Health and Humanitarian Needs Working Group

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^(*) Reflects consensus of the participants in the working group. Other papers reflect the views of their authors.



Frederick M. Burkle, Jr., MD, MPH o for Global Health

COMPLEX POLITICAL DISASTERS

" ...situations in which the capacity to sustain livelihood and life is threatened primarily by political factors, and, in particular, by high levels of violence."



- Politically driven resource wars
- Vulnerable populations, cultures, ethnic, minority groups most at risk
- Represent catastrophic public health emergencies



- Direct Effects
- Injuries/Illness
- Deaths
- Human rights abuses
- International Humanitarian Law abuses
- * Psychological stress
- Disabilities

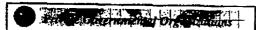
- **Indirect Effects**
- Population displacement
- 4 Disruption of food
- Destroyed health facilities
- Destroyed public health infrastructure



- **◆ International Organizations**
- Non-governmental Organizations
- Private Governmental Organizations
- Donor Agencies/Countries
- Militaries

International Organic tous

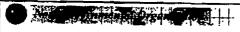
- United Nations Agencies
- Functionally separate from the UN
 - > UNHCR (UN High Commissioner for Refugees)
 - > WFP (World Food Program)
 - > UNICEF (UN Children's Fund)
 - > OCHA (Office of the Coordinator for Humanitarian Assistance)
 - > UNDP (UN Development Program)



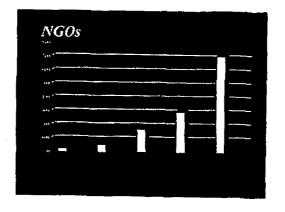
- International Committee of the Red Cross (ICRC)
- Federation of Red Cross & Red Crescent Societies (IFRC/RC)
- International Organization for Migration (IOM)



- US Agency for International Development/Office of Foreign Disaster Assistance (USAID/OFDA)
- PEU/ECHO (Europe)
- ♥JICA (Japan)
- ◆AUSAID (Australia)
- ODA (England)



- Ability under international law to by-pass governments and go directly to the people
- Organized around function:
 - > Relief
 - > Development
 - > Relief & development
 - > Advocacy



COMMUNITY

NGOs, UN AGENCIES, RC/RC:

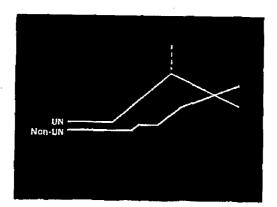
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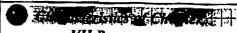
UN Peacekeepers:

• 1992-1998: 67% of 700+ deaths from intentional violence

Burnham, Seet: Lancet 2001

- UN Peacekeeping Forces (UN Charter, Chapter 6)
- UN Peace Enforcement (UN Charter, Chapter 7)
- Article 51





VII Response

- Requires military intervention to coase violence
- Military participation in declining mortality & morbidity until safe for NGOs
- Strict monitoring of human rights and International humanitarian law*
- Transition to Chapter VI force with signing of peace agreement *

Epidemiological Models of Complex Emergencies Developing country Developed country

Chronic/smoldering

ACUTE PHASE EMERGENCY Health Profile:

- > Severe malnutrition > Outbreaks of communicable
- diseases
- > High crude mortality rates (CMR) > High case fatality rates (CFR)

- - OMortality rates define the stages of a complex emergency, expressed as crude mortality rates (CMR)
 - Ounder age 5 mortality rates second most common indicator

Benchmarks

- < 0.5/10,000/Day =Normal rate in
 - developing countries
- > 1.0/10,000/Day = Serious Situation
- > 2.0/10,000/Day = Emergency Situation
- > 5.0/10,000/Day =Severe Famine, Disaster
- < 1.0/10,000/Day =Effective Relief Program

*Small change represents major difference

- 0
 - Mortality rates 7 to 20 times the baseline population
 - Rates of 5-10 deaths/10,000/day equals 20-60 % of population dying in a year
 - Examples:
 - > Rwanda: 60 times baseline
 - Unaccompanied minors: 100-800 times baseline
 - > Internally displaced persons (IDPs) rates higher overall

- Case-Fatality Rates
 - Measure the severity of a disease
 - Defined as proportion of cases which are fatal within specific period of time
 - WHAT DISEASE ACCOUNTS FOR MORE DEATHS IN MALNOURISHED CHILDREN THAN ANY OTHER?



Kurdish Crisis Somalia

Rwanda

Dehydration

Starvation

Dehydration

 Common Pathogens Measles

 Cholera/ dysentery

> than 75% of epidemics in 1990s occurred in complex emergencies

•Supplementary/therapeutic feeding programs

ONutritional & health assessments

●Vaccine control measures

•Essential drugs

Surveillance programs

Develop and expand Health Information System (HIS)



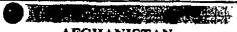
TIMOR

- 9 150,000 IDPs in 200 camps
 - > CMR 2.1/10,000/day
- Focus on outbreak control:
 - > food/water-borne
 - > HIV/AIDS/malaria/TB
 - > Dengue, Japanese B Encephalitis



AFGHANISTAN

- 6 High maternal mortality rates:
- > lack of skilled maternal health workers
- > childbearing at extremes of reproductive age
- > inadequate birth spacing
- > compromised nutritional status



AFGHANISTAN

- High child mortality and morbidity:
- > major causes are preventable
- > respiratory infections
- > diarrheal diseases
- > malaria
- > high levels of chronic & micronutrient malnutrition
- > measles and tetanus

Congo February-April 2001

- Congo is assessment challenged: Few demographics, hostile territory with rapidly moving and easily lost populations
- 2.5 million excess deaths (CI: 2.0-4.0)
- > Only 10% deaths due to war related violence
- > Remainder are <u>preventable</u>: distribus, mainutriti
- 4 75% of children born during 2001 will die or before age 2 years

Roberts Li IRC, NYC

Complex Emergencies

- Initial assessment
- Water and sanitation
- Food and nutrition
- Shelter and site planning
- Health care
- Control of communicable diseases & epidemics
- Public health surveillance
- Human resources and training
- Coordination

THE PROPERTY OF THE PARTY OF TH

- Prevent excess mortality and morbidity
- •Grant priority to non-medical actions:
- •Inter-sectoral coordination MOST critical



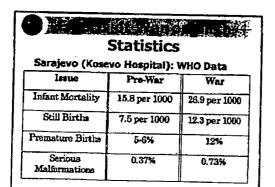
FORMER YUGOSLAVIA

- Relatively healthy populations with demographic & disease profiles of Western countries
- Primarily war-related trauma: Advanced weaponry
- · Chronic diseases, elderly undernutrition
- · Under age 5 did not have wasting
- Few epidemics

Sericholder ST, at al: Force Migration & Hortzüty Proceedings, 2000



- CMRs from Kosovo, Macedonia and Albania low: never reached daily rate of 1.0/10,000/person/day
- War-related trauma: 1.1/10,000/day, 63% elderly
- Rape, traumatic exposures common
- Indicators for reproductive health & .
 psychological morbidity needed



Statistics					
Issue	Pre-War	War			
Fertility Rate	13.8 per 1000	2.2 per 1000			
Abortions	28.6% of pregnancies	64.3% of programcies			
Average Birth Weight	3700 gms	3100 gms			



KOSOVO

- IDPs 55-63% children
- Most vulnerable:
- >Boys 16-18*
- >Elderly men*
- >Both genders 0-5 years
- *Indiscriminate and direct targets: used as evidence in Hague prosecution

Salama & Spiegel, Laucet, 2000

Emergencies

SUDAN: since 1955

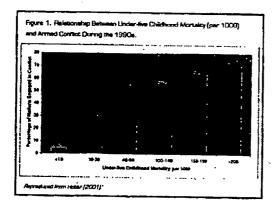
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- Little access to healthcare & education
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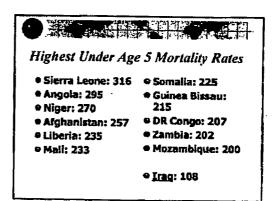
<u>Developing</u> Developed Countries: Countries: • Primary care • Pediatric &

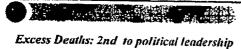
- OB/GYN Infectious Disease
- **Specialists**
- Public Health
- Preventive Medicine
- Surgical **Specialties**
- Emergency Medicine
- Anesthesia
- Public Health
- VanRooyen M, et al: PDM 2001

Office of the Coordinator for **Humanitarian Assistance** (OCHA):

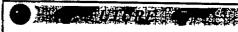
- Suggests 73 countries at risk with differing degrees of instability
- Total population of 1800 million people





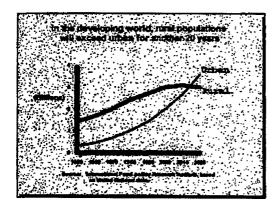


- Rule by intimidation & fear
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Population:

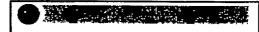
- Altering patterns
- urban poor
- o numbers of major cities
- 9 density of population
- o humanitarian assistance moving from rural to urban areas





Public Health:

- Redefining "public health"
- Mortality/morbidity dependent on:
 - > infrastructure
 - > moral integrity of governments
- Public health as a strategic and/or security issue
- Not prepared to protect the urban public health infrastructure



IRAQ: Expectations



- United Nations Agencies:
 - >OCHA, WFP, UNICEF especially;
- >UNHCR in Iran, Jordan
- Later:
 - > UNDP
- ICRC; IFRC/RC:
 - >ICRC already established; Iraqi Red Crescent Society & sister Societies (e.g., Jordan)



- NGOs
 - > Northern Iraq: support for most vulnerable and mine-affected communities
 - > Baghdad-controlled Irag: currently 7 NGOs allowed by Iragi government
 - > Southern Irag: ICRC plus Assisting Marsh Arabs & Refugees (AMAR) in Iran

NGOs will expand tremendously

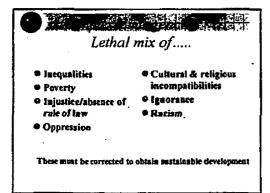


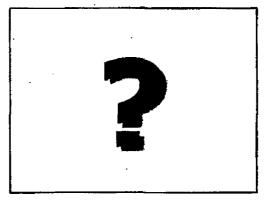
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Consequences of WMD event

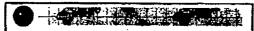
- Response similar to complex emergencies
- Large numbers of refugees and IDPs
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Frederick M. Burkle, Jr., MD, HPH Deputy Assistant Administrator Normal for Global Health



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- International Organizations
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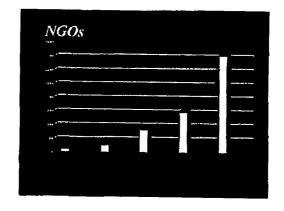


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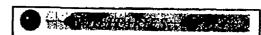




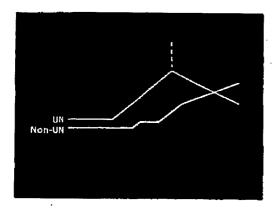
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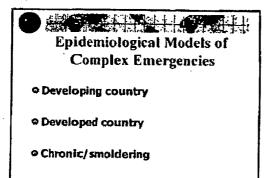
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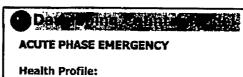




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Disaster

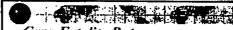
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=Effective Relief

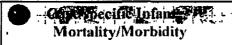
Program



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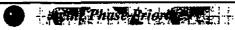
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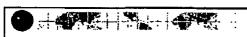
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Rwanda

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- StarvationMeasles
- DehydrationCholera/
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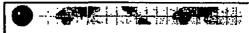


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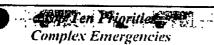


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Roberts L: IRC, AYC



- Initial assessment
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- Health care
- Control of communicable diseases & epidemics
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- *Prevent excess mortality and morbidity
- Grant priority to non-medical actions:
 - Security/protection food
 - water

 - sanitation shelter
- Inter-sectoral coordination MOST critical

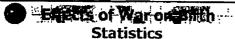


Descripped Country Podel

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- · Rape, traumatic exposures common
- · Indicators for reproductive health & psychological morbidity needed



Sarajevo (Kosevo Hospital): WHO Data

Issue	Pre-War	War
Infant Mortality	15.8 per 1000	26.9 per 1000
Still Births	7.5 per 1000	12.3 per 1000
Premature Births	5-6%	12%
Serious Malformations	0.37%	0.73%

0	Election Wall of Shick
İ	Statistics

Lisue	Pre-War	War
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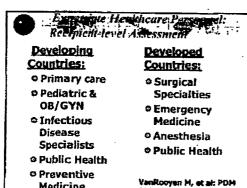
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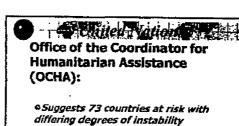
Cherry Smillering Emergencies

SUDAN: since 1955

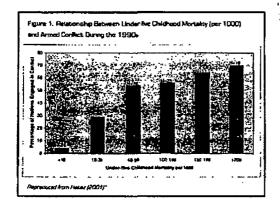
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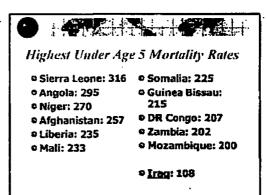


Medicine



- a Total population of 1800 million people

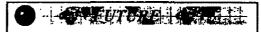






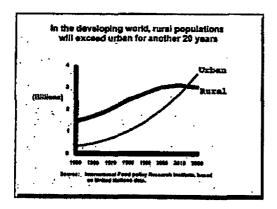
Excess Deaths: 2nd to political leadership

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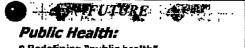


Population:

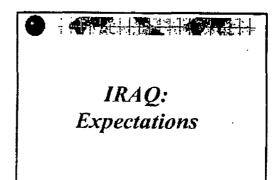
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- o urban poor
- o numbers of major cities
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- Redefining "public health"
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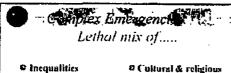


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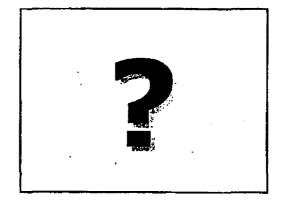


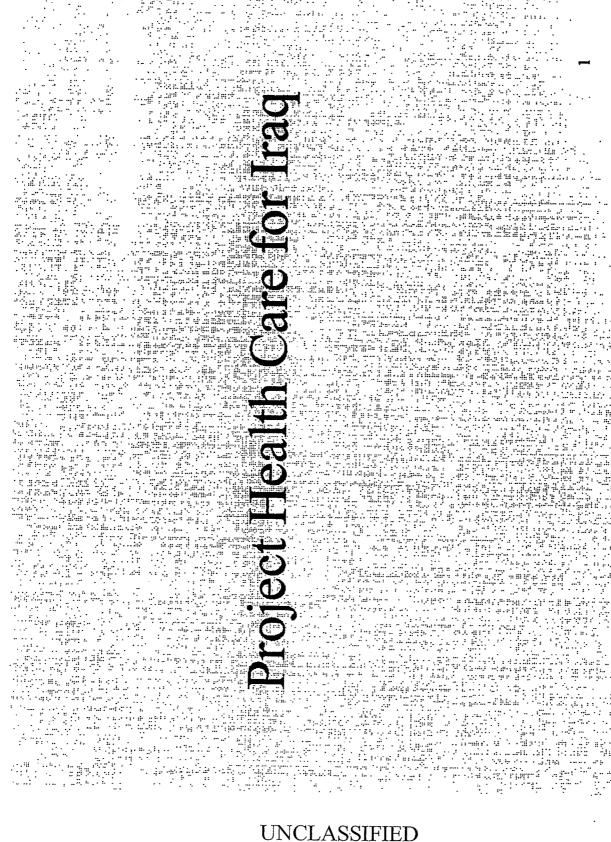
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- o Cultural & religious incompatibilities
- Poverty
- Injustice/absence of rule of law
- o ignorance O Racism
- Oppression





Data; diseases and health services

WHO credible memory not credible visitors and ex-patriot and others, +/.

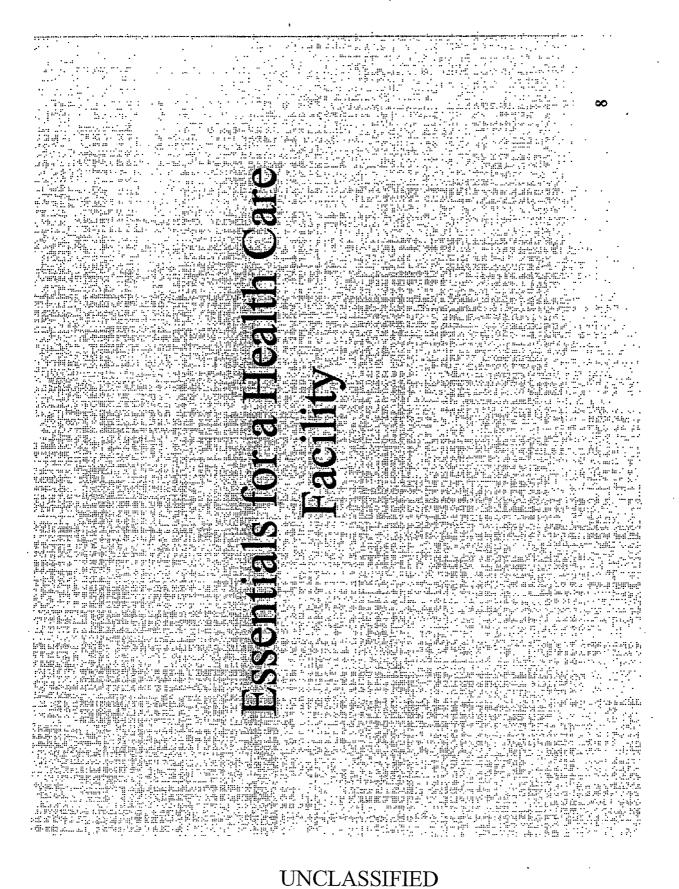
To plan

human and material.

Prepackaged clinics Temporary short term: Service specific patient population, Need a back up larger multi-service building (hospital);

Refurish:
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And the space, clear circulation of an analysis of patients of patients of patients of patients of patients of patients of patients. Consider the services provided and effectively and the cultural the services provided Planting of the space clear circulation of

Structures, Lobby, registration family waiting area
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21

Progress Report of Future of Iraq Project Public Health and Humanitarian Assistance Working Group 16-17 October

The Public Health and Humanitarian Assistance Working Group met 16-17 October 2002 preceded by a welcoming reception on the evening of 15 October.

The day-and-a-half discussion eventually settled into a framework of timing of response needs:

- Emergency, "trauma" (the first week)
- Urgent, "filling gaps" (the first month)
- Short-term, "stabilizing" (up to six months)
- Longer-term, "improving and rebuilding" (more than six months).

Some participants argued that the framework should include an additional distinction between preventive and curative activities. While the group agreed this would be useful, time did not permit these distinctions to become evident in further discussion. See attached list of items generated by the Working Group for each period of time.

Dr. John Fawcett spoke briefly about the role of the UN in humanitarian crises, cautioning host governments against allowing UN agencies too much control and authority.

Dr. Frederick ("Skip") Burkle presented a "reality check" for the Working Group, providing them with examples from past humanitarian emergency experiences and possible scenarios for Iraq. Dr. Burkle emphasized that the first two or three weeks of an emergency are often extremely dangerous/insecure and highly chaotic. Consequently the activities during the initial emergency period should be left for professional international and non-governmental organizations. He pointed out that subsequent critical periods (urgent and short-term) require deliberate attention to coordination among operational agencies (what they do, where they operate, which populations they serve) and establishment of processes and procedures that will be a foundation for long term activities

The meeting ended with a decision to create open, non-binding subgroups in five categories.

- Immediate, emergency supplies and logistics
- Education for immediate public awareness and subsequently for medical and other health care professions
- Policy for long-term public health and health planning
- Infrastructure to examine assets and needs in the water, sanitation, energy resource areas, as well as health and institutions (clinics, hospitals, etc.)
- Outreach to non-represented professions, professional associations, other FOI, working groups, the UN

The conclusion of this Working Group was that it should be and be seen as independent of the US government and highly focused on a consultative and advisory role to the USG, UN agencies, and health focused NGOs both inside and outside Iraq.

PUBLIC HEALTH AND HUMANITARIAN SERVICES WORKING GROUP

From October 16-17, 2002 Meeting

Issues to Note at Various Times During the Crisis

EMERGENCY (1 Week) - "War Trauma"

- Ask in-country people what their needs are
- Setting up -
 - o trauma center (make mobile)
 - o refugee camps
 - o crisis units for biological/chemical
 - o crisis mental health (including drugs, PTSD)
 - o communication networks
 - water purification
 - o mobile clinics
 - o triage system
 - o various "subgroups"
- Public awareness of safe food and water storage
- Tetanus
- Food distribution
- Antidotes for chemical weapons (also masks)
- Cold chain maintenance
- Garbage collection
- Sewage system
- Food Humanitarian Daily Rations (HDRs)
- Mobile clinics
- Water provision, distribution of safe water
- Blood supply
- Stocking hospital operating theaters, burn units, ICUs; antibiotics, antiseptics, anesthetics, sedatives, IVs, oral rehydration fluid, other fluids
- Electricity and water supply (purification, reverse osmosis)
- Communication with field
- Work with NGOs (local and international)
 - o Entry regulations/registration
- Security—how, by whom, how will people know
- Restore confidence in systems
 - o Establish DOS money for physician retraining
- Training in leadership, management, and administration
- Maternal/fetal health
- Advance registration of outside MDs who are willing to go/work
 - Inside and outside Iraq brain, chest, ortho, heart, neuro, critical, internists, infectious diseases
 - o Look at academic medicine, residents with loan forgiveness
 - o Facilitate/ease temporary and long-term return

C:\TEMP\Public Health Flip Chart Notes Oct16-17.doc

- Para-professionals, nurses, other auxiliary health workers, emergency medical technicians, physical therapy, lab technicians
- Public awareness of place and services available: radio station, leaflet drops
- Infectious disease impacted by war
- Climate exposure
- Ambulances
- "Care packages"
- Working with other regional countries
- Mobilize in-country health workers NOW
- Transportation
- Cooperation with military/ies (including sending trauma specialists, disaster teams)
- Consult with experienced "war trauma"/health teams (including mental health)
- Distribution of care, services, drugs, specialists, information, decisions, populations, needs (urban/rural, centralized/decentralized)
- Coordinate with religious community (example: dealing with the dead, dealing with panic; to engender trust and hope)
- Media/IT plan (Free Iraq, VOA, satellité TV, local radio and TV, jamming, radio, leaflets)
- Support proper/good medicine creative practices and processes
- Disabled people old and new
- Work with international organization –WFP, UNICEF, IOM, UN, etc.
- Social diseases
- Political issues (example: deportation, ID)
- Financial plan for stability
- Mechanisms to air grievances
- Widows and woman-headed households
- Revenge killings
- Transparency –against corruption
- Democratizing institutions
- Financial security unemployed
- "Help community help itself" particularly in long-term issues
- Market Iraq! for researcher
- Coordinate and collaborate with external education and research institutions
- Work to improve morale of health care professionals
- Health for all? Health as a right? Health as a privilege?
- Eliminate "us-and-them", "good years-bad years" distinctions

URGENT (1 Month) - "Rebuild and Fill Gaps"

- Continue "Emergency" activities
- Water, air, soil safety assessments (use experienced experts)
- Prepare various scenarios
- Continue rationing system—household food security—with assessment
- Restore of sewage system
- Resuming garbage collection
- Electricity
- Drugs availability including psychotropics
- Disease/health assessment (including nutrition, epidemiology—water-borne; vector borne)
- Renewal of supplies, drugs stocks
- Rehabilitate major medical centers
- Resume medication education (immediate and further re-education—look for academicians; send journals and books; telemedicine)
 - o Example: rehydration therapies, prevention
 - o Through local and distant workshops
- Re-establish supplies distribution routes—including storage
- Train/re-train nurses and para-medical personnel knowledge exchange
- Prepare "crash courses" in family medicine and other basic areas
- Re-establish monitoring and evaluation processes
- Feeding for malnourished
- Maternal/fetal health infant formula
- Infections/vaccines/diarrhea
- Nutrition and household food supply
- "Healthy Family" education for women/mothers
- Polio vaccine
- Tuberculosis care
- "Internet-in-a-box" for health care
- Mental health care
- Child centers for family reunification
 - o "Children's Welfare Centers"
- Ail issues should be "taught," "trained"

SHORT-TERM (6 Months) - "Stabilize"

- Continue "Urgent" care activities
- Continue food rationing for household food security
- Continue assessment and continuing education; mentoring Training of Trainers
- Consider ways of decentralization
- Assessment of local NGOs and their capacities—build
- Deal with family breakdown
- Establish multidisciplinary epidemiology surveillance teams and systems centralized, "nuclear"
- Rehabilitate medical/health schools (exchanges) nursing, lab, technicians
- Re-assess new/changing needs of country
- Begin rebuilding water sanitation systems
- Begin groundwork for primary health care—needs and assets; tertiary care needs and assets
- Focus on infrastructure
- Begin/keep long-term planning (in light of lifted sanctions)
- Integrate NGOs remaining coordination
- Move external experts from directive –consultation
- Engage positively US/drug companies at policy level
- Move from NGO and donor dependency to self sustainability
- NGO exit strategy
- Investigate/audit oil for food
- Physical therapy
- Mental Health care anger management, DV, anxiety, trauma (tology) with public education
- Establish antiseptic procedures for sustainability
- Emphasize hygiene, vaccines (use school systems)
- Influx of returning refugees

LONG TERM (6 Month+) - "Improve and Expand"

- · Continue "Short-term" activities
- Create database of health services and institutional assets
- Rehabilitate medical/health education system, including licensing, residency programs
- Medical insurance/subsidies for poor
- Social securities for the unemployed
- Establish "epidemic" response teams
- Establish "medical exchange" programs with grant money
- Population planning and birth control
- Begin to plan emergency health plans/systems
- Establishing/reinstating health care policy
 - o Nationalized health care for basics
 - o Pay for specialty care
 - o Incentives for providers
 - Address barriers to access gender disparities
- Explore public-private partnerships for care provision
- Develop food and drug regulatory agency
- Detoxification plans and implementation
- Health policy infrastructure development and planning long-term visioning and projects
- Rebuilding family unit (worries: girls' prostitution, employment, children's education)
- Focus on education and appropriate recruitment
- Address access discrepancy issues
- Health screenings (hearing, vision, cancer, etc.) through schools
- Rebuilding water sanitation programs
- Maternal, child health programs
- Mental health, long-term effects, implications, and treatment, particularly for children
- Create humanitarian relief coordinator
- Reflexive assessment of what exists and has been done, by whom
- Establish data collections (registries) and analysis capabilities
 - o Centrally controlled/located
 - Used for project development
- Develop "Public Health" as a key part of medical curriculum, separate public health school
- Work to restore an older, but structured care distribution system with low or no fees
- Establish a model of "healthy people" household individual
- Restructure medical education system to be more "free thinking" education
- Work on specialty care delivery and methods (oncology, for example)
- Create systems to bring in new, updated medical/health information (including regional libraries)
- For disabled: schools, prosthetics
- Consider management for institutions

- Institute evaluation and monitoring plans and processes
- Consider issues for the elderly
- Rehabilitate nursing field, physician assistants
- Upgrade medical/health curriculum and residency programs and continuing education
- Work more deliberately with NGOs
- Family/household/awareness on domestic violence, disability
- Remember maintenance of equipment (train technicians)
- Develop in-country scientific community infrastructure for mutual support, research, external exchange and collaboration
- Address women along whole life cycle
- Focus on public prevention measures (ex. Mammograms, screenings)
- Be up-front on "taboo topics" alcohol, drug use, etc.
- Provide computer access
- Address land mine removal and victim care
- Begin to establish medical licensing procedures
- Make sure professionals and para-professionals other than MD are trained, retrained, provided continuing education, and then respected and used
- Implement decontamination procedures
- Focus on appropriate technology (for info and health)
- Include family planning
- In health system planning, consider rural hospitals and community clinics

BETWEEN NOW AND 1 WEEK

- We here are "consultative", "advisory"
- Make subgroups
 - o Immediate, emergency
 - o Education immediate public information; medical health training
 - o Policy-making for health and public health
 - Infrastructure urban development and planning for public health, service organizations, health institutions, rural
 - o Outreach
- Ensure cross-presentation of PHWG with other working groups
- Be Iraqi health advisors/consultants to UN, international organizations, NGOs
- Do comprehensive literature review of current situation and resources for health care in Iraq
- Develop a public awareness of potential in Iraq for outsiders "outreach"
- Documenting "our" experiences in this process
- Investigate oil for food plan to end it
- Identify current local, operating NGOs
- Explore VOA, BBC, Free Iraq, etc. opportunities

Salahaddin University

Salahaddin University, formerly University of Sulaymania (founded in 1968) was established in the academic year 1982-1983. It is the largest of the three universities in Iraqi Kurdistan, situated in the provincial capital town of Arbil. It is a member of International Association of Universities. Currently Salahaddin University has 12 colleges, which are:

- 1. College of Science
- 3. College of Arts
- 5. College of Administration and Economics
- 7. College of Law and Politic Sciences
- 9. College of Dentistry
- 11. College of Pharmacy

- 2. College of Engineering
- 4. College of Education
- 6. College of Medicine
- 8. College of Law (Evening)
- 10. College of Agriculture
- 12. College of Physical Education

The university has experienced enormous growth in recent years, especially after the historic uprising of Kurdish people in the spring of 1991 and the establishment of the first parliament in Iraqi Kurdistan. The university has received special care and support from the Kurdistan Regional Government.

The university has, as a part of its scientific strategy, tried to establish scientific cooperation with other universities and scientific institutions worldwide. The presence of three universities and the divergent and potential resources in the area provides a good basis for such cooperation in future.

If you are interested in learning more about the university, please feel free to contact us: Address:

Salahaddin University Arbil/ Iraqi Kurdistan Tel: 00873762566859

Fax: 00873762566861

E-mail: Salahhaw@web-sat.com

University of Sulaimani

COLLEGE OF MEDICINE med@univsul.com

The decision to open the College of Medicine in the University of Sulaimani was made in 1972, but it was only in 1977 when the University finally admitted the first 91 students for medical training. The University of Sulaimani never witnessed their graduation, as by the year 1982-83, when the first graduation took place, it was closed down and transferred to Hewler (Erbil). The first graduates of the College, therefore, were the graduates of the University of Salahaddeen.

The necessity to provide Kurdistan with trained medical staff prompted the Kurdistan Regional Government to include the College of Medicine into the list of the three colleges to be re-opened first. In 1992, on November 15, the College of Medicine opened its doors to the students alongside the Colleges of Agriculture and Languages.

The students who pass the secondary school final Baccalorite examinations (scientific branch) gaining 90 marks out of hundred and above are entitled to submit their applications, provided they have achieved Grade A in Biology, Chemistry, Physics and English language in the first attempt.

The top 80 - 90 successful applicants will be accepted, starting from the highest mark and down to the number 80th or 90th. All the applicants are also interviewed by a special college committee for assessment of their mental and physical status. Facilities available at both the medical college and affiliated teaching hospitals:

Facilities available at college of medicine

- 1. Four lecture halls: Three of them contain 360 seats (120 seats in each) and the 4th hall 50 seats.
- Each hall contains: Audiovisual facilities, black boards, overhead projectors, screens, T.V., computers and LCD projectors.
- 2. Twelve laboratories: Anatomy, Biology, Chemistry, physics, Computer Center, Physiology, Biochemistry, Histology, Pharmacology, Pathology, Parasitology, and Microbiology.
- Each laboratory contains: Microscopes (of different types) , facilities for different experiments, computers, charts, necessary instruments, teaching slides, specimens and other equipments.
- The anatomy laboratory is provided with human cadavers.
- 3. One research laboratory contains: Fluorescent microscopes, light microscopes, cold centrifuges, centrifuges, micro centrifuge, digital spectrophotometer,water bath, shakers, striers, balance, PH meter, pipettes, glassware, ECG, peak flow meter, vitalograph, oven, autoclaves, tuning forks & glucosmeter.
- 4. Audiovisual unit: contains: videocassettes, sonic cassettes, clinical teaching stides, slide-projectors, photo camera, digital camera & video camera.
- 5. Museum: contains skeletons, bones, skulls, specimens, anatomical dolls, charts and many other demonstrating facilities
- 6. Two libraries:
- A. Teaching staff library: contains English Medical books, journals and periodicals.
- B. Student library: contains English Medical books, journals and periodicals.
- 7. Computer unit: contains: Computers , printers , scanners , medical CDs and LCD projectors .
- 8. Internet access: All teaching staff and students have access to internet .
- 9. E-mail: med@univsul.com
- 10. Annual JSMC: Journal of Sulaimani Medical College
- 11. Annual JSMC- student:
- 12. The followings have been requested under (986 UN Resolution) of oil for food program .
- a- Fluorescent Microscopes
- b- Flowcytometry
- c- Electron microscope
- 13. Out patient medical center to provide out patient medical care for all university teaching staff and students.
- 14. The college administration: A group of employee to run the daily administration and financial affairs of the

college.

15. SCHEIK contribution: Is a committee of British citizens of Kurdish origin in UK based in London to support the college by donating books, journals, periodicals, teaching facilities and by sending a team annually to participate in the final graduation examinations of the sixth year students as co-examiners and also by arranging short courses of clinical and theoretical teachings.

16. College activities:

- Persistent weekly one hour case presentation in the clinical meetings for all teaching staff, students & Doctors in the hospitals held by college teaching staff.
- · Persistent weekly one hour medical seminars for fifth and sixth year students .
- · Persistent weekly one hour films presentation .
- Journal club for the sixth year students.
- · Weekly tutorial sessions for the final three years students.

Facilities available at the affiliated teaching hospital

- 1. There are five teaching hospitals affiliated to the college of medicine:
- Sulaimani Teaching Surgical Hospital: (General surgery, orthopedic and minor surgical branch)
- Sulaimani Teaching General Hospital: (General medicine, infectious diseases and psychiatry)
- Sulaimani Teaching Pediatric Hospital : (Pediatrics)
- Sulaimani Teaching Maternity Hospital: (Gynaecology and obstetrics)
- · Sulaimani Teaching Causality Hospital: (Accident / emergency and traumatology)
- 2. Total number of beds in all five hospitals : (1151) beds .
- 3. Facilities of Radiology, sonography, mammography, CT scan, laparascopic surgery, laboratories, histopathology, renal dialysis, upper and lower GI endoscopy facilities.
- 4. Rehabilitation and physiotherapy centre: provided with necessary equipments, artificial limbs and EMG
- 5. Polyclinic out patient: run by college consultants.
- 6. TB centre:
- 7. Respiratory laboratory: Under 986 UN resolution of oil for food program: all the instruments have arrived and the laboratory is going to be established.

Academic and clinical teaching staff with their qualifications for academic year 2000 - 2001 College teaching staff:

- Dr . Ali Saeed MOHAMMAD , MRCP (UK.) Consultant Physician Dean
- Dr. Faraedon M.A. KAFTAN, DVD (London) Consultant Dermatologist Vice Dean
- Dr . Jamal A . RASHID , D.Ch.(London), MRCP(UK) Consultant Pediatrics Head of Dept.
- Dr . Foud A . BABAN , FRCP , MRCP (London) Consultant Physician Head of Dept.
- Dr . Tahir A . HAWRAMY , CABS (Baghdad) Consultant Surgeon Head of Dept.
- Dr . Talar A . AHMED , CABOG (Baghdad) Consultant Gynacologist Head of Dept.
- Dr . Nawzad ATTAR , FRCS (London) Consultant Surgeon Dept . of Surgery
- Dr . Samar ALMALAIKA , FRCOG (London) Consultant Gynaecologist Dept. Gynaecology & Obstetrics
- Dr. Jamal S. ABDULRAHMAN, DTH & M, MRCPI (Ireland) (London) Consultant Physician Dept. Medicine
- Dr. Omed H.K. ABDULWAHAB, FICMS (Baghdad) Consultant Physician Head of Dept.
- Dr . Nasreen A . ALWAFY , M.Sc. (Manchester) Physiology Head of Dept.
- Dr . Sherko A . OMER , M.Sc. (Baghdad) Microbiology Head of Dept.
- Dr. Faruq H. FARAJ, FRCS (London) Consultant Surgeon(Anatomy & Histology) Head of Dept.
- Dr . Nizar M.M. AMIN , DPM (London), MRCPsych (London) Consultant Psychiatrist Dept . of Medicine
- Dr . Ali J . ALRUBAYEE , DPM (UK) Consultant Psychiatrist Dept. of Medicine
- Dr . Raouf R. MERZ , DMRCh (London), M.Phil (UK) Consultant Rhuomatologist , Dept . of Medicine
- Dr . Abdulla .Sh. ABDULLA, DIM (Baghdad), FICMS (Baghdad) Consultant Physician Dept. of Medicine
- Dr . Muhamad A . MUHAMAD , CABM (Baghdad) Consultant Physician Dept . of Medicine
- Dr . Muhamad O. MUHAMA , DIM (Baghdad), FICMS (Baghdad) Consultant Physician Dept. of Medicine
- Dr . Taha . O. ASSED , FICMS (Baghadad) Consultant Physician Dept . of Medicine
- Dr . Amang . A . JALAL , FICMS (Mustansiria) Consultant Physician Dept . of Medicine
- Dr . Rasul M . HASSAN , CABM (Baghdad) Consultant Physician Dept . of Medicine
- Dr . Baxtyar M . MAHAMUD , Ph.D. (London) Consultant Physician Dept . of Medicine
- Dr . Abubakir O.M. NADIR , High Diploma (Carddif , UK) Consultant Chest Physician Dept . of Medicine
- Dr . Aras A . ABDULLA , CABM (Baghdad) Consultant Physician Dept . of Medicine

- Dr. Zhyan S. RAMZY, M.Sc. (Baghdad) Community Medicine Dept. Head
- Dr. Mustafa K. AHMAD, M.Sc. (Alexandria, Eygpt.) Consultant Pediatrician Dept. Pediatrics
- Dr . Adiba I . ALI , High Diploma (Baghdad) Consultant Pediatrician Dept . Pediatrics
- Dr. Hiwa O. AHMAD, CABS (Mosul) Consultant Surgeon Dept. of Surgery
- Dr. Ismaeel, H. A. AGHA, CABS (Baghdad) Consultant Urologist Dept. Surgery
- Dr . Sirwan H . SHARIF , CABS (Baghdad) Consultant Urologist Dept . Surgery
- Dr . Aso O . RASHED , CABS (Baghdad) Consultant Urologist Dept . Surgery
- Dr. Nizar M. TAWFIQ, CABS (Baghdad) Consultant Surgeon Dept. Surgery
- Dr. Lameea. M. TAWFQ, DLO (Baghdad), FICMS (Baghdad) Consultant Otolaryngologist Dept. Surgery
- Dr. Sherko S. ZIMNAKO, M.Sc. (Salahaddin) Consultant Otolaryngologist Dept. Surgery
- Dr. Behjat AL GANABY, Ph.D (London), Ph.D (Germany) Parasitology, Dept. Microbiology
- Dr., Kamal A., SAEED, CABS (Baghdad) Consultant Surgeon Dept., Surgery
- Dr. Nasreen M. TAHIR, M.Sc. (Mosul) Radiologist Dept. Surgery
- Dr . Amir A.M.ALI , M.Sc. (Baghdad) Radiologist Dept . Surgery
- Dr. Baxtyar M. RASUL, High Diploma (Baghdad) Consultant Orthopedician Dept. Surgery
- Dr. Aree R. ZANGANA, CABS (Baghdad) Consultant plastic Surgery Dept. Surgery
- Dr., Zahir H., BRAKHUALL, CABS (Baghdad) Consultant Urologist Dept., Surgery
- Dr . Huma F . ASEED , High Diploma (Baghdad) Consultant Ophthalmologist Dept . Surgery
- Dr . Omer A . RAFIQ , CABS (Baghdad) Consultant Orthopedic Dept . Surgery

Part time teaching staff from ministry of health for practical teaching in sessions the laboratories and clinical teaching in the hospitals:

- Dr . Tirifa Sh . GHAFUR , M.Sc. (Baghdad) Pathology Dept. , Pathology
- Dr . Diler N . RASHID , High Diploma (Dublin) Consultant Gynecologist Dept . Gynaecology
- Dr. Runak I. MUHIDDIN, High Diploma (Baghdad) Consultant Gynecologist Dept. Gynaecology
- Dr. Zhyan A. ABDULLA, High Diploma (Baghdad) Consultant Gynecologist Dept. Gynaecology
- Dr. Parween Kh. KHOSHNAW, High Diploma (Baghdad) Consultant Gynecologist Dept. Gynaecology
- Dr. Ikhlas N. JWAMER, High Diploma (Baghdad) Consultant Pediatrician Dept. Pediatrics
- Dr . Sirwa A . AHMAD , High Diploma (Baghdad) Consultant Pediatrician Dept . Pediatrics
- Dr . Muhamad N . RASHED , High Diploma (Baghdad) Consultant Surgeon Dept . Surgery
- Dr . Ata F . ABDULLA , High Diploma (Baghdad) Consultant Anasthetist Dept . Surgery
- Dr. Abdulrahman M. RASULL, High Diploma (Baghdad) Consultant Ophthalmologist Dept. Surgery
- Dr. Latif A . MAHMUD , M,B.Ch.B. (Mosul) Pathology Lab. Dept . Pathology
- Dr. Jamal O. TAWFIQ M.B.Ch.B. (Mosul) Psychiatry Dept. Psychiatry

System of Examinations conducted throughout the course

There are:

- A . Mid year examination in January which includes : theoretical , clinical and practical examinations ; (30% of total marks is allocated)
- B . Final examination in June includes : theoretical , clinical and practical examinations ; (60% of total marks is allocated)
- C . Frequent QUIZ examinations in both first and second trimesters : (10% of total marks is allocated)
- D. The above examination system conducted for first five years
- E. In the final sixth year:

The students will be examined in

- 1. General Medicine and medical subspecialities of Psychiatry and Dermatology
- 2. General Surgery and Surgical subspecialities of Ophthalmology , ENT , Anesthesia and Radiology
- 3. Gynecology and Obstetrics
- 4. Pediatrics

The examinations include:

- 1. Theoretical examination (MCQ , gray cases , Data interpretation):
- (30% of total marks)
- 2. Oral examination: (20% of total marks)
- 3. Clinical examination includes : Long cases, short cases:

(30% of total marks)

4. Clinical assessment during Hospital clinical training:

(20% of total marks)

Number of Students:

And average of 92 (ninety two) graduate students are enrolled annually since academic year 1992 - 1993

1992-1993 102 students 1993-1994 109 students 1994-1995 92 students 1995-1996 87 students 1996-1997 93 students 1997-1998 97 students 1998-1999 74 students 1999-2000 89 students

87 students

2000-2001

Number of students graduated from the college of Medicine:

1997 – 1998 : 86 students (males : 60 and Females : 26) 1998 – 1999 : 61 students (males : 46 and Females : 15) 1999 – 2000 : 70 students (males : 48 and Females : 22)

Number of post graduated students at 2000 : They were six : two in surgery , two in Medicine and two in Pediatrics

Number of postgraduate students accepted at academic year at 2001 are 18 students, Surgery: 5 students Pediatrics: 4 students, Community Medicine 4 students, Urology: 2 students, ENT: 1 student, Orthopedics and Fracture: 1 student, Pharmacology: 1 student

University of Dohuk

The College of Medicine has the following objectives:

- 1- To meet the need of Kurdistan for doctors with necessary clinical skills and continues training to provide good health care to the people.
- 2- To conduct post-graduate studies in different branches of clinical and basic medical sciences, assisted by advisers and supervisors from other universities in Kurdistan and worldwide.
- 3- To engage the students and the staff in different programs to act and interact in their community for promoting health standards.

The College of Medicine at the University of Duhok, at the moment, has the following clinical and basic Departments located at campus or based at Azadi General Hospital. in addition to these departments, the College encompasses the School of Nursing & Midwifery. The College also is affiliated to a number of other Institutes and Centers both internal and external to the University and there are close links with other Universities and external Consultants worldwide also has links with WHO & UNESCO.

Basic Science Departments:

- Department of Chemistry & Biochemistry.
- Department of Anatomy & Microanatomy.
- Department of Physiology & pharmacology.
- Department of Pathology.
- Department of Microbiology.
- Department of computer and Medical Physic.

Clinical Departments:

- Department of surgery
 - i- To teach medical students.
 - ii- To run the different surgical departments of Azadi teaching hospital and A&E hospital, general surgery, trauma, urology, ear, nose & throat, vascular & plastic surgery.
 - iii- To supervise postgraduate studies in this branch.
- Department of Medicine:
 - This department currently has seven Consultant Physicians to provide wide range of specialist activities. Physicians are also responsible for the inpatient wards and outpatient departments, assisted by well-trained junior staff, supported by laboratory & Radiological department including CT scan & MRI. The Department conduct ECG exercise testing, Echo & Doppler Echocardiography, Endoscopy & Bronchoscopy. It also has Pharmacy and Nursing Services. The Specialist Physicians teaches and train medical students at different levels and supervises postgraduate students.

- As a part of department, the Community Medicine Section performs teaching responsibilities in addition to epidemiological & statistical consultations for research projects of the staff of other departments, also at the undergraduate level the section is involved in planning & conducting urban and rural health care studies.
- Department of Obstetrics & Gynecology:
 - The main objectives for this Department are to serve women, look after their wellbeing, and to decrease maternal & infant mortality & morbidity. Teaching students starts at the fourth year and continues for three years. There are 5 Consultant Gynecologists who are responsible for teaching, training students and also running the Department of Gynecology at Azadi General Hospital where they are responsible for various wards, which offer services like delivery ward, antenatal & postnatal clinics, and family planning clinic and infertility clinic.
- Department of Pediatrics:
 - The Department has six Consultant Pediatricians, they teach medical students for the last three years of the study; they also supervise postgraduate students.