

Navigation: navigating with the GRIN capability

For
Charles Darwin University and Monash Research Institute RTI
Lecture: Axi – RTI Landscape
27 November 2015

A red fire truck is parked on a street at night. The truck's emergency lights are flashing, and its headlights are on. The truck is positioned on the left side of the frame, facing towards the right. In the background, there is a building with a white facade and a dark roof. The scene is dimly lit, with the primary light sources being the truck's lights and some ambient light from the building.

CBRN is not new ...

but it does present new
strategic, operational,
clinical & logistic
challenges.

Algebra

Algebra

Algebra

estimate

estimate

estimate

estimate

estimate

LIFE INTERNATIONAL HEALTH REGULATIONS (2000 / 2001) & THE GLOBAL HEALTH SECURITY Agenda

- 1. Spearheaded by the International Sanitary Regulations
- 2. It was proclaimed the global standard of international health
- 3. The primary purpose of the regulations is to ensure health, safety and the regulation of international commerce
- 4. Not limited to specific diseases (but apply to most and even emerging global health risks)
- 5. Establishes the legal basis for international health and requires that health be freely, transparently, and in a coordinated manner
- 6. Independent National Primary Instruments (NPI, NPIs)



WRI – Trust External Evaluation (2015)

- 1. Identify and Evaluate Elements of the Trust's Core Activities
- 2. Develop a Logical Framework Document and Narrative Report
- 3. Conduct
- 4. Identify
- 5. Implement
- 6. Monitor & Evaluate
- 7. Final Report: Assessment of Learning and Impact
- 8. Identify and Report on Key Findings
- 9. Identify and Report on Key Findings
- 10. Identify and Report on Key Findings
- 11. Identify and Report on Key Findings
- 12. Identify and Report on Key Findings

...which is a new approach to program delivery that is more effective and more efficient.

...using community-based models, community-based organizations, and community-based organizations, that are working together to address the needs of the community and to improve the quality of life for the community.

...community-based organizations, as well.

...community-based organizations, as well. The community-based organizations are working together to address the needs of the community and to improve the quality of life for the community.

JEE – Technical Areas

General

- 1. Mathematics (pure) – minimum
- 2. 10th and 11th standard science (chemistry, physics)
- 3. Mathematics – minimum

Engineering

- 4. Physics – minimum
- 5. Chemistry – minimum
- 6. Mathematics – minimum

Medical

- 7. Physics – minimum
- 8. Chemistry – minimum
- 9. Mathematics – minimum

AI/IT/ITM

- 10. Mathematics – minimum

Pharmacy

- 11. Mathematics – minimum
- 12. Chemistry – minimum
- 13. 10th and 11th standard science (chemistry, physics)
- 14. 10th and 11th standard science (chemistry, physics)
- 15. 10th and 11th standard science (chemistry, physics)

Other Fields

- 16. Mathematics – minimum
- 17. Physics – minimum
- 18. Chemistry – minimum
- 19. Mathematics – minimum



Systematic Literature Review - From Geneva to Alice

History - Overview - Background - Methodology - Results - Discussion - Conclusion - References - Appendix - Glossary - Index



Australian Centre for Disease Control

- The report for January 2009
- Please be aware that the following will be published on the website
- If necessary and appropriate the committee has agreed to the following
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Pharmaceutical Health Management Preparatory [PHMP]



- 1. Emergency Response Coordination
- 2. Laboratory Safety Management & Training
- 3. Bioethics
- 4. Epidemiological Investigation
- 5. Laboratory Quality
- 6. Laboratory Facilities
- 7. Clinical Facilities
- 8. Laboratory Technology
- 9. Hospital Laboratory Management
- 10. Public Health Laboratory Care
- 11. Community Capacity
- 12. All Research Methodology
- 13. Clinical Specific Application
- 14. Policy



Regional
Bodies

International
Organizations

Other
International
Organizations



NATO Rapid Reaction model

1. Comprehensive NATO Readiness (2017) (Art. 4)
2. Communication of capabilities
3. Collective Readiness (1 nation to 6 joint command capability)
4. NATO Rapid Reaction model

what does a path forward look like?

- International community, public, private, government – establish a health board and create the infrastructure
- Launch for global innovation that more reflects the cross-sectoral needs and vision for a national laboratory (like research for COVID-19)
- Invest financial resources together
- Address public health emergency management, governance



Workforce challenges – The excluded providers

- How do we ensure we are addressing the needs of the excluded providers?
- How do we engage around this?
- How do we encourage the ability to include NHS clinical facilities?
- How do we engage with the excluded providers? (e.g. via the NHS Clinical Commissioning Group)

The key is interoperability

- 1. **Security & safety** (active & passive) (but you can't have it all)
- 2. **Interoperability** (can be an issue) (interoperability comes down to common standards)
- 3. **Recognised & recognised** (active & passive) (active & passive) (active & passive)
- 4. **Effective operations** (active & passive) (active & passive) (active & passive)



Health & Medical Intelligence Public Health Campaigning

- Early Public Health Service activities
- Epidemiology and health screening
- International Health Service (1946-1955) & National Health Service management plan
- International Cancer Research
- Life expectancy rates
- Plans with Royal Commission on Population
- Early Contraception and fertility control issues

Exercises: A. Understanding Docker as a Linux container

1. What is Docker?
2. What is a container?
3. What is a Docker image?
4. How does Docker work?
5. What are the benefits of Docker?
6. How can I install Docker?
7. How can I run a container?
8. How can I manage containers?
9. How can I build a Docker image?

Consultation & Academia

Health Research Board for Scotland

Healthcare Research Unit

Healthcare and Public Health Research & Evaluation Unit

Researcher in Public Health, Public Health Unit, Health Research Unit

Research Unit, 2014-2015

Researcher in Public Health, Health Research Unit

Researcher in Public Health, Health Research Unit

Researcher in Public Health, Health Research Unit

Researcher in Public Health, Health Research Unit

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Researcher in Public Health, Health Research Unit

Adapting the clinical environment to enable clinical treatment, care & turnover

- It is essential to ensure that the patient is safe and comfortable
- Staff and Patient Management
- Clinical and Technical Staffing
- Equipment and Facilities

<http://www.bmja.com/content/347/g1122>





Deployable solutions – COUPRO & Decontamination

1. **COUPRO**

2. **Decontamination**

3. **COUPRO**

4. **Decontamination**

5. **COUPRO**

6. **Decontamination**

7. **COUPRO**

Clinical Equipment & Assessment

- Body status / how they look
- **HEENT** (HEAD, EYES, EARS, NOSE, THROAT)
- **CV** (CARDIOVASCULAR)
- **ABDOMEN** (GI, URINARY, REPRODUCTIVE, ENDOCRINE)
- **MUSCULOSKELETAL** (movement, gait)
- **NEUROLOGICAL** (any, gait, reflexes)
- **SKIN** (color, height, pressure)
- **PSYCH** (MINDSET)





Clinical Governance

- Framework to govern a NHS approved institution
- Clinical Governance strategy needs to cover all the Policy of Government that stipulates the treatment of Patients and the Institution
- APPROVAL MUST BE OBTAINED FROM THE NHS COMMISSIONING BODY
- Systems management of Clinical Governance, Information, Quality, Complaints and the environment of the Institution fully comply with the NHS Commissioning and Governance Policy for the Institution
- **CLINICAL GOVERNANCE AND THE CLINICAL GOVERNANCE POLICY**

Training & Running COURSES

- **Training & Running course** is a 10-week course
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Behaviour, TLR, VCRM, Credibility & Accountability

- Behaviour is the observable & measurable effect of an individual or several individuals and their attitudes
- Attitudes are inner & stable ideas
- Regulated by 3 factors: Beliefs & associated learning, social feedback for role
- **How high is the level of TLR, VCRM, Credibility & Accountability?**
- **Low accountability** - not to observe & measure individual behaviour
- **Lowly the global market** - finding common ground is a challenge
- **Lowest point in behaviour that leads to breakdown**



field clinical isolation &
management of
nonambulatory symptomatic
patients

100

The art of the possible



