

Developing a protocol for reporting chronic exposure to environmental contaminants



A Andermann, M Trepanier, E Robinson, F Richer, V Laberge Gaudin, P Lejeune, S Coté, E Nieboer, E Dewailly, L Jacques, Y Bonnier Viger.
Cree Board of Health and Social Services, James Bay

Outline

- Introduction
- Objectives
- Methods
- Results
- Conclusion
 - Limitations
 - Recommendations
 - Issues for further debate

Cette présentation a été effectuée le 15 novembre 2005, au cours de la journée « L'éthique dans les interventions de santé publique : lui faire une place » dans le cadre des Journées annuelles de santé publique (JASP) 2005. L'ensemble des présentations est disponible sur le site Web des JASP, à l'adresse <http://www.inspq.qc.ca/jasp/archives/>.



Introduction

- **Changing risk profiles**
 - Environmental contaminants
 - Chronic diseases
- **Previous studies**
 - Oujé-bougoumou / Nemaska, Nunavik
- **Multi-community environmental health study**
 - Mistissini pilot
- **Need results reporting protocol**
 - Community expectations
 - Consent form
 - Political context



Objectives

- Improve patient understanding of results
- Prevent unnecessary anxiety & depression
- Empower individuals and communities
- Avoid additional burden on clinical services

Methods

- **Initial exploratory phase**
 - Consultation with key informants
- **Protocol development phase**
 - Literature reviews, expert consensus panel
- **Protocol testing phase**
 - Consultation with end users
- **Use and evaluation phase**
 - Interviews with patients and staff

Results – exploratory phase

- **Protocol welcomed**
 - promote communication
 - standardize information
 - minimize areas of uncertainty
 - facilitate clinical work
 - ensure accountability
- **Challenges ahead**
 - Cultural and language issues
 - Logistical and workforce issues
 - Evidence base limited – non-acute, non-occupational

Results – development phase I

- **Define roles and responsibilities**
 - Responsibility of researchers vs clinicians vs PH
- **Determine which tests to report and how**
 - 40 laboratory and 10 clinical tests performed
 - Every participant can discuss results in person with MD
 - Category A – notified in person (e.g. BP)
 - Category B – notified by phone (e.g. holter)
 - Category C – notified by hand-delivered letter (e.g. lab tests)
 - Biochemistry (glucose, lipid profile, OGTT, thyroid studies)
 - Contaminants (Cadmium, Lead, Mercury, PCBs)
 - Category D – group reporting only (e.g. research purposes)

Results – development phase II

- **Develop clinical algorithms**
 - For contaminants only
 - Only existed for chronic exposure to lead (Nunavik)
 - Needed to be developed for cadmium, mercury, PCBs
- **Generate educational messages**
 - Coherence with previous messages
 - Mercury “fish map”
 - Simple but sufficiently directive, respect traditions
 - Pregnant women and children should not eat walleye or pike

Results – testing phase

- Lengthy iterative process
 - **Research team**
 - Timeline for test availability, expert responsible for results
 - **Clinicians**
 - Reinforce need for clear algorithms, or “won’t happen”
 - **Clinical support staff**
 - Share the workload, reinforce “COMMON MESSAGE”
 - **Community representatives**
 - Culturally acceptable (format of letter simple, not “scary”)
 - Feasible (patients may not be available if “in the bush”)

Results – evaluation phase

- **To be carried out by evaluation rep**
- **Key element of the process, necessary to:**
 - Give stakeholders a voice
 - Determine what worked or didn’t work
 - Raise fundamental concerns about the research
 - Improve the research protocol as well as the results reporting protocol for next year
 - “perennial document”

Conclusions

- **Protocol itself important**
 - Ethical imperative in reporting results
 - Maximize likelihood of successful outcomes
- **Protocol development process important**
 - Raises fundamental issues about the research
 - Promotes collaboration and teamwork
 - Researchers and Clinical team

Limitations

- **Protocol development started late**
 - End of the data collection period of the study
- **Time constraints**
 - Ready by the time results available
- **Bound by the consent form**
 - Can “do better” than what is written
- **Complexities of players involved**
 - Research, clinical, community, etc.

Recommendations

- **No reporting if insufficient evidence**
 - Support interventions and advice
- **Greater involvement of community**
 - Spot on research steering committee
- **Greater focus on communication strategy**
 - Individual reporting
 - Group reporting

Issues for further debate

- **Bridging the gap between research & clinic**
 - Individual approach vs population approach
 - Rationale of tests performed
 - Research rarely incorporates implementation
 - Lack of rewards beyond publishing papers
 - Limited mention in timeline, not budgeted for
- **Throwing out the baby with the bathwater?**
 - **CON** : Research “stirring-up problems”, complicated
 - **PRO** : Desire of community to learn about environment