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# Pediatrics & Therapeutics

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**Generating Ideas, Designing Trials...**

**Neonatal Model**

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## Health Sciences Building



## Future Children's Hospital of Saskatchewan



## Royal University Hospital



## Saskatoon





# Disclosures

I have no financial relationships to disclose or conflict of interest to resolve

## Generating Ideas

Ideas should have:

- Clinical appeal
- Novel
- Easy to implement
- Positive outcomes
- Result in change of practice
- Sound scientific footing
- Good physiologic basis



## Generation of ideas

- Needs thorough knowledge of the subject
- Should come from inquisitive minds



## Generation of ideas

1. Literature reviews, meta analysis
2. Bedside discussion, teaching
3. Talking with caregivers'/ parents
4. Attending conferences, symposia
5. Basic science investigations
6. Translational Investigations
7. Population studies





## Generation of ideas

8. Editorials
9. Stumbling blocks/gaps in clinical care
10. Sounding board
11. Peer reviews, correspondence, case studies
12. Poster symposia
13. Innovations
14. Other disciplines



## Lessons from patients

- Failures and successes
- Unusual cases
- Attention to details
  - History
  - Physical examination
  - Clinical progress



## Designing trials

- **Environment**
  - Academic versus non-academic
  - University versus community-based
- **Infrastructure**
  - Dry, Wet lab
  - Staff
  - Statistical support
- **Funding**
  - Proposals
  - Grants
    - Public
    - Private
- **Writing and review**
- **Administration**



## Lessons from Classical Neonatal Trials

- Surfactant
- Indomethacin
- Caffeine
- Drug trials
- COT trial



## Designing Trials

- Randomized control trials
- Pragmatic trials
- Industry supported trials
- Superiority or non-inferiority trials
- Case-control trials



## Designing Trials

- Cluster randomized trials
- Pharmacology/Pharmacy
- Epidemiological trials
- Hypothesis generating work
- Quality improvement initiatives



## Designing Trials

- Ethics
- Administration
- Steering committees
- Overseeing committees
- Regional boards
- Ongoing monitoring



## Format

- **P**opulation
- **I**ntervention
- **C**omparison
- **O**utcome
- **T**ime frame

# Pediatrics & Therapeutics Related Journals

- Insights in Pediatric Cardiology
- Pediatric Oncology: Open Access
- Clinical Pediatrics: Open Access
- Pediatric Care
- Neonatal and Pediatric Medicine
- Child and Adolescent Behavior
- Psychological Abnormalities in Children
- Neonatal Biology
- Interventional Pediatrics & Research



# Pediatrics & Therapeutics Related Conferences

- 4th International Conference on Pediatrics
- 5th World Pediatric Congress
- 2<sup>nd</sup> International Conference and Exhibition on Pediatric Cardiology



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