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Generating Ideas, Designing Trials...
Neonatal Model

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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

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Generation of ideas

• Needs thorough knowledge of the subject

• Should come from inquisitive minds

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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

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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

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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

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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

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Designing Trials

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

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Designing Trials

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

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Format

• **Population**
• **Intervention**
• **Comparison**
• **Outcome**
• **Time 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
- 2nd International Conference and Exhibition on Pediatric Cardiology
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