The NeoCheck Project: Development of a Prescription-screening Tool Specific to Neonatology

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Potential uses of the tool:
- Optimization of prescriptions
- Young physicians and pharmacists training
- Basis for developing institutional guidelines

1375 recommendations on neonatal pharmacotherapy were identified by a large literature review. Main sources: AAP, CPS, ESN, NICE, Cochrane Neo.

Recommendations on same topics were gathered and merged.

Selection process by the steering group to keep only the most relevant topics and reduce the number of recommendations.

2-rounds Delphi Validation Method

• Online questionnaire answered by 23 Swiss experts to assess their personal level of agreement* with each recommendation:
  - Round 1: 158 recommendations
  - Round 2: 145 recommendations

Start vitamin D supplementation from the first days of life in all neonates.
Recommended dose is 400 IU once daily during the first year of life and 600 IU once daily during the two next years.

Grade of recommendations: National Guidelines

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2020: prospective study on the impact of NeoCheck

NeoCheck chapters
- Basic management
- Nephrology
- Cardiology
- Neurology
- Endocrinology
- Pain, sedation & neonatal abstinence syndrome
- Gastroenterology
- Pharmacology
- Hematology
- Pneumology
- Infectiology

Experts characteristics

- Profession:
  - Neonatologists (MD with Schwerpunkt Neonatologie) 22
  - Pharmacist 1

- Years of practice:
  - >10 years 15
  - 5-10 years 4
  - 1-5 years 4

Exemple of a NeoCheck recommendation

We developed a tool to optimize drug use in neonatology