What are the Challenges Being Faced?

1. Lack of globally harmonised data sharing standards:
   - No universally adopted system or standard for data sharing in public health emergencies that supports scientific research and policymaking.
   - Lack of pre-approved sharing agreements and archiving information systems.
   - No universally adopted system or standard for COVID-19 research data.

2. Critical Need for Rapid Data Sharing:
   - The COVID-19 pandemic required swift data sharing.
   - Timely data sharing was essential to support public health and scientific research.

3. Timely and FAIR data sharing:
   - FAIR principles: Findability, Accessibility, Interoperability, and Reuse (FAIR)
   - Improving data sharing efforts to maximize efficiency.

4. Coordination cross-jurisdictional efforts to foster global research practice:
   - The guidelines and recommendations listed here are highlights. Please find more detailed information in the full-length publication at: doi.org/10.15497/rda00052

What are the Key Recommendations?

1. Define clear data sharing timelines and software systems.
   - Define clear data sharing timelines and software systems.

2. Develop and implement a clear and effective data management plan.
   - The Research Data Alliance (RDA) recommends the development and implementation of a clear and effective data management plan.

3. Provide robust funding for data sharing infrastructures.
   - Provide robust funding for data sharing infrastructures.

4. Encourage public and patient involvement through data management policies.
   - Encourage public and patient involvement through data management policies.

5. Ensure robust funding for data sharing infrastructures.
   - Ensure robust funding for data sharing infrastructures.

A Collaborative Cross-Disciplinary Approach

The work has been divided into four research areas with four cross-cutting themes.

1. Guidelines - detailed practical advice aimed at researchers, data stewards, software engineers, and public health officials.
   - Guidelines - detailed practical advice aimed at researchers, data stewards, software engineers, and public health officials.

2. Recommendations - Higher level generic advice aimed at policymakers, funders, publishers, and infrastructure providers.
   - Recommendations - Higher level generic advice aimed at policymakers, funders, publishers, and infrastructure providers.

3. INDIGENOUS DATA GUIDELINES
   - INDIGENOUS DATA GUIDELINES

4. LEGAL AND ETHICAL CONSIDERATIONS
   - LEGAL AND ETHICAL CONSIDERATIONS

What is the Collaborative Cross-Disciplinary Approach?

1. CLINICAL
   - CLINICAL

2. OMICS
   - OMICS

3. EPIDEMIOLOGY
   - EPIDEMIOLOGY

4. SOCIAL SCIENCES
   - SOCIAL SCIENCES

In summary, the Collaborative Cross-Disciplinary Approach is aimed at addressing the needs of diverse communities and stakeholders involved in COVID-19 research. It seeks to create a harmonised, responsive, and effective framework for data sharing, access, and use, ensuring that the scientific community and wider society can learn from and recover from the COVID-19 pandemic.