CHI Learning & Development (CHILD) System



Project Title

GO GREEN Initiative from Office Desk to Operational Practices in a Laboratory Animal Research Facility

Project Lead and Members

Project members: Edgar M. Pena, Judith M. Mercado, Zaw Min Tun

Organisation(s) Involved

Singapore Health Services Pte. Ltd.

Healthcare Family Group(s) Involved in this Project

Ancillary Care

Applicable Specialty or Discipline

Animal Research

Project Period

Start date: Not Available

Completed date: Year 2023

Aims

- To establish a paperless office operation policy without compromising the workflow of laboratory animal research facility
- To create a faster, more efficient and secured sharing of experimental documents and research operation paper works
- To implement sustainable recycling program of used papers and utilize the end product to promote and enhance the welfare of research animals e g chickens
- To reduce the amount of manpower and resources being utilized for filing,
 utilization and disposal of paper documents



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Project Attachment

See poster appended/ below

Background

See poster appended/ below

Methods

See poster appended/ below

Results

See poster appended/ below

Conclusion

See poster appended/ below

Project Category

Technology

Digitalization, Digitization

Keywords

Digitalization, Paperless

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GO GREEN Initiative from Office Desk to Operational Practices in a Laboratory **Animal Research Facility**



Edgar M. Pena, DVM, MVSc, Judith M. Mercado, DVM Zaw Min Tun, RALAT

Singapore Health Services Pte. Ltd.

Introduction

The inception of the very first "world earth day" in 1970 has since mobilized a billion individuals from almost 192 countries for initiatives to promote green planet (https://www.earthday.org/). Singapore's Ministry of Sustainability and the Environment has been a supporter of this global initiative and is leading the campaign in promoting green community that encourages every local and resident's participation (http://www.gogreen.sg).

The recycling and reduced paper use are few of the usual environment friendly programs in an office setting. The laboratory animal research facility operation uses significant amount of paper for data recording, regulatory approvals and to document experimental procedures. An organized paper trail and documentation processes facilitates good conduct of experiment and contributes to higher cost recovery rate of research facility. Whilst documentation using papers are traditionally effective, every single sheet used is equivalent to a piece of tree pulp. It was estimated that a ream (500 sheets) of paper produced have utilized 5% of a standard pine tree size and this statement is closely related to a number

environment driven organizations' claims i.e. Ribble-pack.com, Conservatee.org etc. on how much trees are used in global paper production for years.

Objectives of the Program

- To establish a paperless office operation policy without compromising the workflow of laboratory animal research facility.
- To create a faster, more efficient and secured sharing of experimental documents and research operation paper works.
- ☐ To implement sustainable recycling program of used papers and utilize the end product to promote and enhance the welfare of research animals (e.g. chickens).
- To reduce the amount of manpower and resources being utilized for filing, utilization and disposal of paper documents.

Methods **Experimental Data Gathering** Paperless documentation and secured data sharing Utilizing shredded paper as beddings for research animals Transporting safely

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Designation: Research Assistar

Some info on item prices and quantities in Section B might be estimated or not available at the point of service provision or preparation of this SR, e.g.

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animals to the Lab.

NLARF Access Request File

Results and Value to Lab Animal Research Facility Operation

The Go Green (paperless) program has started making transformational changes in the workflow after being implemented for less than a year:

- ✓ Review and approval of research project service reports were shortened from 3 days to 1 day and it facilitated faster submission of invoices for timely billing to principal investigators and facility users.
- ✓ A reduction of 2 (two) reams of A4 size paper consumption was recorded three months after the onset of implementation.
- ✓ Frequency of ordering office stationaries dropped and utilization of supplies lowered.
- ✓ Achieved sustainable utilization of recycled papers that were converted as day-old chicks comfort beddings and enrichment during transport and housing which will contributed to better human life saving translational research results.