

Support on Various X-Ray (Radiography) Resources for Nepal

As you know Nepal has limited Resources in **Diagnostic Imaging System/Services (DIS)**. As a Radiographer in Nepal, I feel Radiological Resources (Human, Physical, Financial and Informational) are much more helpful for performing and interpreting the Diagnostic Imaging System (X-rays, Ultrasound, CT Scan, MRI Scan and Nuclear Medicine etc.)

Radiological Investigation Process(RIP) is not a total remedy disease of patients but it is a guiding principles to assess the diseases and deformity . With the application of Radiological Diagnosis, Patient's illness and deformity is exactly finalized for the prescribing the drugs, therapy and treatment. So, Radiological Investigation is integrated into 3 basic components:-

- a. Dedicated Equipments & Technology such as X-ray Machine etc.
- b. Semi-skilled/Skilled Manpower eg. Radiographer
- c. Accessories such as electricity, water, space etc.

These 3 basic elements provide a complete Radiological Investigation. But most of the Developing Countries like Nepal have lack of almost all basic requirements. So, our main objectives is focuses these 3 basic elements either to establish or upgrade the **Rural Radiological Diagnostic Centre** in Nepalese Communities.

X-Rays (Radiography) is First Radiological Diagnostic tool in limited Resources settings. Lack of Trained, Qualified, Dedicated manpower and sufficient Teaching Resources are not available in remote low resources settings of Nepal Kingdom.

To fill such Radiological Resources gab, we established Nepalese Radiological Philanthropic organization. This has named as **Nepal Radiological Development Initiative**. For more details please visit us on Word press Blog:

www.nrdip.wordpress.com or Face book Page: www.facebook.com/rad.nrdi/info and Causes Page:

<http://www.causes.com/causes/657284-your-rad-contribution>

This non-profit organization has following working Principles.

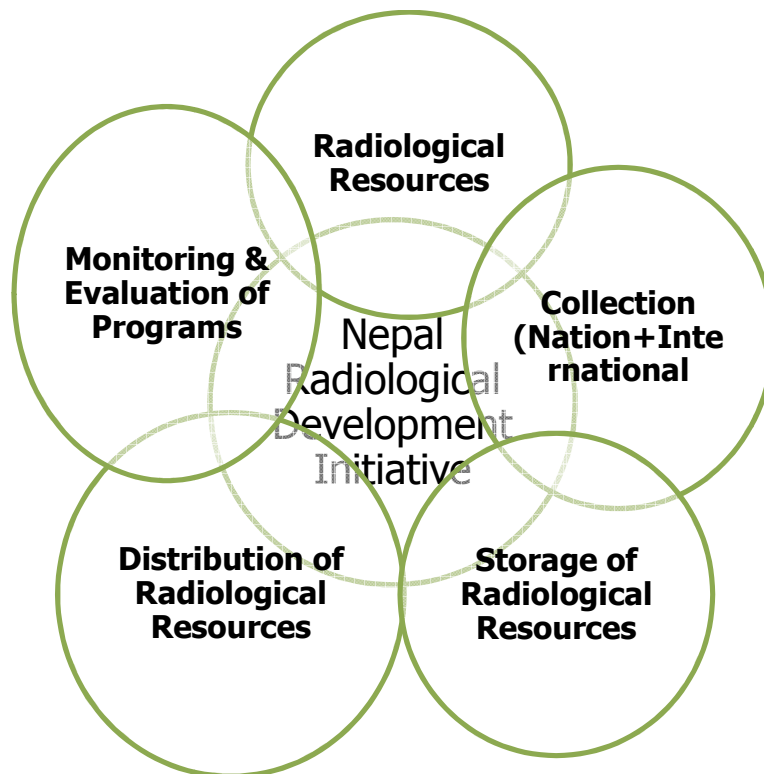


Fig. Working Principles & Flow-Chart of Nepal Radiological Development Initiative

You and Your organization can be delivering any types of support to our needed Nepalese clientele through following ways:

A. Providing Educational Resources(Books, Text Books, Manual on Print Format) on X-Rays(Radiography)

We are seeking following X-Rays (Radiography) Educational Resources to distribute needy professionals within Nepal Kingdom.

X-Rays Interpreting Books for Radiographer/Radiological Technologist

1. **Radiology and Imaging for Medical Student**; seventh Edition; David Sutton; Churchill Livingstone
2. **Diagnostic Radiography**; Fourth Edition; Glenda J. Bryan; Churchill Livingstone
3. **Clark's Positioning in Radiography**; 12th Edition;
4. **A Guide to Radiological Procedure**; 4th Edition; Stephen Chapman & Richard Nakielnly; Elsevier Science
5. **The Who Manual of Diagnostic Imaging**; Radiographic Anatomy & Interpretation of the Musculoskeletal System; WHO & ISR
6. **DIAGNOSTIC IMAGING IN THE COMMUNITY** A Manual for Clinics and Small Hospitals ; 2011 Philip E.S. Palmer Gerald P. Hanson Janice Honeyman-Buck, Editor
7. **Textbook of RADIOLOGY for Residents & Technicians**; Satish K. Bhargava; CBS Publishers & Distributors

Radiography Preparation Resources

1. **Radiography Preparation**; 5th Edition; D.A. Saia; Mc Graw Hill Medical

Radiography Equipment /X-Rays Maintenance/Repair/X-Rays Engineering

1. Tameside & Glossop Acute Services NHS Trust **Handbook For: Routine Performance Testing for Radiographic Equipment+ Films Screens Processors**; © Nick Oldnall 1999
2. **Maintenance and Repair of Laboratory, Diagnostic Imaging, an Hospital Equipment**; WHO, Geneva, 1994
3. **X-ray equipment maintenance and repairs workbook for radiographers & radiological technologists** by Ian R McClelland Chief technical support engineer (retired), WHO;
4. X-ray Physics & Equipment; ASHROTH; Blackwell Scientific
5. X-ray Equipment for Student Radiographers; D.Noreen Chesney & Muriel O. Chesney; CBS Publisher & Distributors
6. Chistensen's Physics of Diagnostic Radiology;

Radiological Anatomy and Physiology

- 1) **1.Rose and Wilson Anatomy and Physiology in Health and Illness**; Ninth Edition; Anne Waugh, Allison Grant; Churchill Livingstone
- 2) **2. Applied Radiological Anatomy for Medical Student**; Paul Butler; Adam W.M. Mitchell; Harold Ellis; Cambridge University Press
3. **Pocket Atlas of Radiographic Anatomy** Second edition, revised and enlarged; Torsten B. Moeller, M.D.; Emil Reif, M.D.; Thieme Stuttgart · New York 2000

Radiography Photography & Darkroom Technique Management

1. **1.Chesney, S Radiographic imaging, by John Balls & Tony Price**
2. **Radiographic imaging, by D.N & M.O.Chesney.**
3. **Fundamentals of radiographic photography, by Kodak's volumes.**
4. **Radiologic science for technologists-physics, biology & protection, by Stewart C.Bushong**

5. Radiographic Photography & Imaging Process; Jenkin D.J.; Churchill Livingstone
6. The Science of Photography; Baines H.; Halstead Press
7. Radiographic Photography; Chesney M.O.; Blackwell Scientific
- 8.

Radiography/Medical/Radiology Physics

1. **MEDICAL IMAGING PHYSICS** Fourth Edition William R. Hendee, Ph.D.; E. Russell Ritenour, Ph.D.; A JOHN WILEY & SONS, INC., PUBLICATION
2. An introduction to the physics of diagnostic radiology; Christensen; Lea of febiger
3. Physics of Radiology; Johns Charles; Johns Charles
4. Essential Physics for radiology; Ball & Moore; Blackwell Scientific
5. Introduction to Radiation Protection; Markin & Marbison; Crosby Lockward & Staples
6. Fundamental Physics of Radiology; W.J.Meredith & J.B.Massey; Varghese Publications
7. First Year Physics for Radiographers; George A. Hay; ELBS & Bailliere
8. Fundamental Physics for Radiology & Radiotherapy; Joseph Selmen
9. The Essential Physics of Medical Imaging; Jerrold T. Bushbert Williams;
10. **Radiologic science for technologists-physics, biology & protection, by Stewart C.Bushong**
11. **Chistensen's Physics of Diagnostic Radiology;**

Radiation Protection and Quality Assurance

1. Quality Systems for Medical Imaging Guidelines for Implementation and Monitoring; Philip Palmer& Graham Walker& Mohamed M.EI.Nageh,WHO Regional Series 21

B. Supply of Training & Manpower in Radiological Sector

Our various radiology centres lacks of skilled manpower, lack of training for operating and maintenance of various medical and radiological equipments. Apart from this, reporting system was not systematically established due to lack of proper manpower. You and Your organization can deliver training, conference, education or provide volunteering Radiography in our Remote Community with skills and knowledge transfer.

C. Providing Physical Resources on X-Rays (Radiography)

New/Refurbished X-ray Equipments and Technology Transfer

You and Your organization can directly support those community where Radiological Technology gab exist through giving donation, support on various medical and radiological equipments as well as Technology such as Reporting System.

'**NRDI**' can be directly distributing various kinds of Radio-Technological Equipments and its Accessories for poor/remote Nepalese communities. These Includes New or refurbished which are fitted to us from our valuable supporter.

These are our Needs:

-X-ray Machine (50 m A -800 m A) and its Full Dark Room Accessories Set

-Stationary Bucky Table.

-Various Sizes Grid

- Voltage Stabilizer – up to 100KVA

Radiation Protection Accessories such as Lead Apron (.5mm/1mm equivalent of Lead, Lead Sheets, lead Marker, Film Badge, Film Dosimeter) etc.

-Other Diagnostic Equipments such as ECG, Suction Machine, Pulse Ox miter, Digital BP Instruments.

-Other Laboratory Equipments.

D. Providing Financial Resources on X-Rays (Radiography)

You and Your Organization can provide various kinds of information and monetary fund for poor Nepalese Communities. These Includes "fund for Installation of X-ray Machine and it's Accessories, " fund for the Construction or Re-Construction of X-ray /Radiology Department, "Fund for the Installation of Ultrasound Machine" etc for the poor and remote Nepalese Communities.

E. Providing Human Resources on X-Ray (Radiography)

Human Resources are primarily important in Radiological Technological area within Nepal Kingdom. Human Resources contain various experiences, skills, knowledge and ideas which can be share voluntarily in our remote settings. Radiological Technological Professionals (Radiographers, Radiological Technologist, Sonographer and Radiologist) can be deliver their various **Radiological Services** in this mission.

We receive your contribution at:

Thakur Prasad Lamsal
Chairmain

Nepal Radiological Development Initiative

Neelkantha-2, Rayatar, Dhading Bensi

Dhading District, Bagmati Zone, Nepal

Phone: +977-010-50959

Email: thakur.lamsal@hotmail.com

Web: www.nrdip.wordpress.com

<http://www.causes.com/causes/657284-your-rad-contribution>

www.facebook.com/rad.nrdi