7.2 Best Practices

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Best Practice 1 - Body Donation Program

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Best Practice 1 - Body Donation Program

Department of Anatomy



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Department of Anatomy

Title of the practice: Body Donation Program

Aim: Aim of the program is to create awareness among general population about whole body donation for the purpose of medical education and research.

Objectives of the Practice:

- 1. To help relatives of body donor to fulfil the last wish
 - 2. To arrange vehicle to receive donor at the earliest and embalm it.
 - 3. To provide cadavers for dissection and for Cadaveric workshop.
 - 4. To conduct research on cadavers
 - 5. To prepare specimens for Anatomy Museum

The Context: The institute is located in rural part of Nagpur. People in surrounding region are not much aware about body donation. First MBBS students learn anatomy and dissection is the integral part of studying anatomy. More than a book cadavers teach them. They are the silent mentors and first teacher of the students. During covid 19 there was a shortage of cadavers. Hence the body donation awareness program was started so that we can offer better learning environment to the students.

The Practice: The motivation of public for body donation is the first step in body donation awareness program. We conducted awareness program in rural and urban areasand distributed body donation forms. Two NGO's joined hands with us. We provide donor card to the people who submit the body donation form of the institute. After death,we provide free ambulance service 24X7 to the relatives of body donor. Application from close relatives, Death certificate of diseased, Aadhar card of donor and relatives are required at the time of donation. Certificates are given to the relatives.Thanks giving program is arranged after body donation.

Evidence of Success: Body donation awareness program started from September 2021. Within a period of 15 months, we received 15 body donations.

Problems encountered and resources required: Initially arranging people for the awareness program was difficult but with the help of NGO's we could manage it.

Resources required – Vehicle, LCD Projector, Screen, Body donation forms, Banners and Mike system.

Body donation & Organ donation awareness programs conducted by Dept. of Anatomy

Body donation awareness program for Non- teaching staff at LMH 28-9-21



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No. NKP SIMS & RC and LMH/ Anat / 181 /2021

Date : 30th Sept. 2021

Department of Anatomy

Report on "Body Donation Awareness Program"

Department of Anatomy organized a 'Body Donation Awareness Program' for non teaching staff on Tuesday 28/09/2021 from 2-3 pm in Anatomy department. One clerk / technician from each department was deputed. It was attended by 20 staff members.

Dr. D. P. Onkar, Professor & HOD conducted the session & participants were sensitized about the body donation. Body donation is the highest level of charity & it is a true altruism. Due respect should be given to the donors. Current scenario and the need for body donation was discussed. Queries from the participants were solved.



prowlar FEPALI ONKAR PROPESSOR & HOD Department of Anatomy N.K.P. Salve Institute of Medica Sciences & Research Centre and Lata Mangeshkar Hospital, Nagpur

DEAN N.K.P. Salve Institute Of Med. Sciences & RC and LMH, NAGPUP

BODY DONATION PUBLIC AWARENESS PROGRAM AT ISSASANI 29-6-22



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NKPSIMS & RC and LMH/Anat./ 114 /2022

Date: 30 /06/2022

DEPARTMENT OF ANATOMY

Report

Department of Anatomy organised Body Donation Awareness Program for general public on 29/06/2022 at Gram Panchayat, Isasani village. Mr. Vishwajit Paikrao co-ordinated the event. Dr. Anant Fulse gave brief introduction about the program. Dr. Deepali Onkar HOD Anatomy described the need and the purpose of body donation in detail. 25 participants attended the program.



Body Donation Awareness Program at Gram Panchayat, Isasanis on 29th June 2022 by Dept. of Anatomy

ontar DEEPALI ONKAR DR. PROPESSOR & HOD

Department of Anatomy N.K.P. Salve Institute of Medica Sciences & Research Centre and Lata Mangeshkar Hospital, Nagpir

DEAN N.K.P. Salve Institute Of Med. Sciences & RC and LMH, NAGPUP

Body donation & Organ donation Public awareness program Wadi-18-8-22



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NKPSIMS & RC and LMH/Anat./ 154 /2022

Date: 18 /08/2022

DEPARTMENT OF ANATOMY

Report on Body Donation and Organ Donation awareness program

Department of Anatomy, NKP Salve Institute of Medical Sciences & Research Centre, and Lata Mangeshkar Hospital, Nagpur organized Body Donation and Organ Donation Awareness Program for general public on 11/8/2022 from 1PM to 4 PM at Pradhnyasheel Buddha Vihar, Mandpe Layout, Wadi, Nagpur.

Dr. D.P. Onkar described the need of body donation through power point presentation and stressed that more & more people should make a will of body donation for the purpose of Medical Education & Research. Dr. Sushil Meshram, a social worker from Seva Dal Women College was chief guest for the function. He explained about organ and tissue donation through examples.

Thirty participants attended the program. Twenty people pledged for body donation after the program and submitted the forms. All the departmental staff members attended the program. Mr. Suresh Uike, social worker and Dr. R.N. Dehankar, Professor Anatomy coordinated the program.



prombar DR. DEEPALI ONKAR PROPESSOR & HOD Department of Anatomy N.K.P. Salve Institute of Medica Sciences & Research Centre and Lata Mangeshkar Hospital, Nagpur

DEAN N.K.P. Salve Institute Of Med. Sciences & RC and LMH, NAGPUP

LIST OF THE BODY DONERS



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DEPARTMENT OF ANATOMY

LIST OF THE DONORS, WHO HAVE DONATED THEIR BODY FOR MEDICAL EDUCATION AND RESEARCH

SR.NO.	Date of Receiving Body	Name of Person & Address	Age & Sex (M/F)
1	11/11/ 2021	Mrs. Pikholabai Shamrao Taywade Laxminarayan Nagar Mahajanwadi, Wanadongri, Nagpur	84Yrs, Female
2	09/06/ 2022	Mrs. Padma Subramanian 136, poonam vihar- 1, Indraprastha layout, Swawlambi Nagar, Nagpur -440022	79Yrs, Female
3	13/06/ 2022	Mrs. Kausalya Sambaji Sayare R/o Dwarka nagari,Anandwan square, Anandwan,Warora, Chandrapur-442914	88Yrs, Female
4	25/06/ 2022	Mrs. Sawitribai Durgadasji Rakshak R/o Gali No. 15, Gurudeo Kiranabhandar, near Anjani Police Station, Vishwakarma nagar, Nagpur	85Yrs, Female
5	06/08/ 2022	Mr.Ravindra Wagle R/o B-1 Bhima Apartment Arohi Bharat nagar, Behind Ambazari police station Amravati Road, Nagpur	87Yrs, Male
6	12/08/ 2022	Mrs. Sushilabai Shashikant Bhalgat R/o Main Road, Vallabh Bhai Patel Ward, Bhandara – 441904	70Yrs, Female
7	23/08/2022	Mrs. Panchfula Vishwas Tale R/o Dipori Wadgaon Rajdi, Amravati, Maharashtra, 444709	73Yrs, Female
8	02/09/2022	Mrs. Smita Vinayak Kanetkar R/o Plot No. 7, Bhaskar Apts, Bajaj Nagar, Nagpur, Maharashtra, 440010	83Yrs, Female
9	19/09/2022	Mr. Viddyadhar Sharatchandra Ranade R/o Plot No. 172, Dhanlaxmi apartment, Near Chhatrapati Sabhagruh, Chhatrapati Nagar, Nagpur, Maharashtra, 440015	90Yrs, Male
10	08/10/ 2022	Smt. Suman Ganpatrao Shende R/o. 40 Ladikar layout, Manewada Road, Nagpur - 24	80 Yrs, Female
11	10/10/2022	Mrs. Vanlata Arun Huddar <u>R/o. Plot No. 120 Shubhangi Layout, Khamla Road, Near</u> <u>Raut Hospital, Pande Layout, Khamla, Khamla, Nagpur -</u> <u>440025</u>	84Yrs, Female

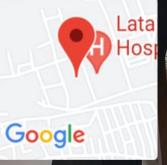
12	13/10/2022	Mrs. Nalini Manohar Kanetkar	92Yrs, Female
	4	R/o. Plot No. 90 Behind Joshi Chakki, Swawalambi Nagar,	The second second
		Ranapratap Nagar, Nagpur – 440022	
13	30/10/2022	Mrs. Sumitra Kaliram Gaikwad	62Yrs, Female
		C/o. Kaliram Kashiram Gaikwad, Behind Tahsil Office, Bardi,	
		Armori, District - Gadchiroli - 441208	ALL CLASSING REAL
14	18/11/2022	Smt. Susheela Manikrao Dhanpalwar	84Yrs, Female
		R/o. 3-4 -1013/19, Rajendra Colony, Barkatpura	
		Himayathnagar, Station Kachiguda, Hyderabad, Telangana –	
		500027	
		C/o. Shrikant Manikrao Dhanpalwar, R/o. 204 Kuber	
		Regency, Congress Nagar, Patwardhan Ground, Nagpur.	
		Maharashtra – 440012.	
15	19/12/2022	Ku. Lata Mahadeo Patil	64Yrs, Female
		R/o. Near Buddha Putla, Galli No. 1, Kunjilal Peth, Bhagwan	
		Nagar, Nagpur- 440027. Maharashtra	

prombar

Dr. Deepali P.Onkar Professor & HOD Anatomy NKP SIMS & RC and LMH, Nagpur

PHOTOGRAPHS TAKEN WHILE OFFERING CERTIFICATE TO RELATIVES OF BODY DONERS





Nagpur, Maharashtra, India 4222+FPQ, Police Nagar, Nagpur, Maharashtra 440016, India Lat 21.101351° Long 79.001802° 23/08/22 11:17 PM

GPS Map Camera

DEEPALI ONKAS

Nagpur, MH, India

Digdoh Hills, Nagpur, 440016, MH, India Lat 21.101347, Long 79.001899 10/08/2022 10:23 PM GMT+05:30

Sunt Humany

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Certificates issued to relatives of body donors



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DEPARTMENT OF ANATOMY

No. NKP SIMS/ Anat./ Cert./ 15 /2021

Date: 11/11/2021

2

CERTIFICATE

Govt. of Maharashtra by its notification No. MED-190/3589/MED-4(A) dated 01.08.1990 has declared this institution as an approved institution for the purpose of Anatomical Act.

This department has received donated body (cadaver) of Mrs. Pikholabai Shamrao Taywade, Aged 84Yrs Female, Laxminarayan Nagar Mahajanwadi, Wanadongri, Nagpur - on 11/11/2021, along with the Death Certificate.

THIS DONATED BODY (CADAVER) WILL BE USED FOR TEACHING PURPOSES.

DR. DEEPALI P.ONKAR HOD. DEPT. OF ANATOMY DR. DEEPALI ONKAR PROFESSOR & HOD Department of Anatomy N.K.P. Salve Institute of Medica Sciences & Research Centre and Lata Mangeshkar Hospital, Nagpur



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DEPARTMENT OF ANATOMY

No. NKP SIMS/ Anat./ Cert./ 50 /2022

Date: 09/06/ 2022

1

CERTIFICATE

Govt. of Maharashtra by its notification No. MED-190/3589/MED-4(A) dated 01.08.1990 has declared this institution as an approved institution for the purpose of Anatomical Act.

This department has received donated body (cadaver) of Mrs. Padma Subramanian Aged 79Yrs, Female, 136, poonam vihar- 1, Indraprastha layout, Swawlambi Nagar, Nagpur -440022, on 08/06/ 2022, along with the Death Certificate.

THIS DONATED BODY (CADAVER) WILL BE USED FOR TEACHING PURPOSES.

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DR. DEEPALI P. ONKAR PROFESSOR & HOD. DEPT. OF ANATOMY DR. DEEPALI ONKAR PROFESSOR & HOD Department of Anatomy N K P. Salve Institute of Medica.

S car & Research Centre and daugesnkar Mospital, Nagpur



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DEPARTMENT OF ANATOMY

No. NKP SIMS/ Anat./ Cert./ | 6 /2022

Date: 13/06/ 2022

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CERTIFICATE

Govt. of Maharashtra by its notification No. MED-190/3589/MED-4(A) dated 01.08.1990 has declared this institution as an approved institution for the purpose of Anatomical Act.

This department has received donated body (cadaver) of Mrs. Kausalya Śambaji Sayare, Aged 88Yrs, Female, R/o Dwarka nagari,Anandwan square, Anandwan,Warora, Chandrapur-442914, on 13/06/ 2022, along with the Death Certificate.

THIS DONATED BODY (CADAVER) WILL BE USED FOR TEACHING PURPOSES.

PROMODUL

DR. DEEPALI P. ONKAR PROFESSOR & HOD. DEPT. OF ANATOMY DR. DEEPALI ONKAR PROFESSOR & HOD Department of Anatomy N K.P. Salve Institute of Medical Sciences & Research Centre and Issa Mangeankar Hospital, Nagpur



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No. NKP SIMS/ Anat./ Cert./ 17 /2022

Date: 25/06/ 2022

DEPARTMENT OF ANATOMY

CERTIFICATE

Govt. of Maharashtra by its notification No. MED-190/3589/MED-4(A) dated 01.08.1990 has declared this institution as an approved institution for the purpose of Anatomical Act.

This department has received donated body (cadaver) of Mrs. Sawitribai Durgadasji Rakshak, Aged 85Yrs, Female, R/o Gali No. 15, Gurudeo Kiranabhandar, near Anjani Police Station, Vishwakarma nagar, Nagpur, on 25/06/ 2022, along with the Death Certificate.

THIS DONATED BODY (CADAVER) WILL BE USED FOR TEACHING PURPOSES.

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DR. DEEPALI P. ONKAR PROFESSOR & HOD. DEPT. OF ANATOMY DR. DEEPALI ONKAR

PROFESSOR & HOD Department of Anatomy N.K.P. Salve Institute of Medical Sciences & Research Centre and Lata Mangeshkar Hospital, Nagpur



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DEPARTMENT OF ANATOMY

No. NKP SIMS/ Anat./ Cert./ 5 / /2022

Date: 06/08/ 2022

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DR. DEEPALI P. ONKAR PROFESSOR & HOD. DEPT. OF ANATOMY DR. DEEPALI ONKAR PROFESSOR & HOD Department of Anatomy N.K.P. Salve Institute of Medicar Sciences & Research Centre and I ata Mangeshkar Hospital. Nagpur

2

CERTIFICATE

Govt. of Maharashtra by its notification No. MED-190/3589/MED-4(A) dated 01.08.1990 has declared this institution as an approved institution for the purpose of Anatomical Act.

This department has received donated body (cadaver) of Mr.Ravindra Wagle, Aged 87Yrs, Male, R/o B-1 Bhima Apartment Arohi Bharat nagar, Behind Ambazari police station Amravati Road, Nagpur – 33, on 06/08/ 2022, along with the Death Certificate.

THIS DONATED BODY (CADAVER) WILL BE USED FOR TEACHING PURPOSES.



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No. NKP SIMS/ Anat./ Cert./ \ 8 /2022

Date: 12/08/2022

Proveau

DR. DEEPALI P. ONKAR PROFESSOR & HOD. DEPT. OF ANATOMY DR. DEEPALI ONKAR PROFESSOR & HOD Department of Anatomy N.K.P Salve Institute of Medicar Sciences & Research Centre and Lara Mangeshkar Hospital, Nagpur

DEPARTMENT OF ANATOMY

CERTIFICATE

Govt. of Maharashtra by its notification No. MED-190/3589/MED-4(A) dated 01.08.1990 has declared this institution as an approved institution for the purpose of Anatomical Act.

This department has received donated body (cadaver) of Mrs. Sushilabai Shashikant Bhalgat, Aged 70Yrs, Female, R/o Main Road, Vallabh Bhai Patel Ward, Bhandara –441904 on 12/08/ 2022, along with the Death Certificate.

THIS DONATED BODY (CADAVER) WILL BE USED FOR TEACHING PURPOSES.



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No. NKP SIMS/ Anat./ Cert./ 19 /2022

Date: 23/08/2022

DEPARTMENT OF ANATOMY

CERTIFICATE

Govt. of Maharashtra by its notification No. MED-190/3589/MED-4(A) dated 01.08.1990 has declared this institution as an approved institution for the purpose of Anatomical Act.

This department has received donated body (cadaver) of Mrs. Panchfula Vishwas Tale, Aged 73Yrs, Female, R/o Dipori Wadgaon Rajdi, Amravati, Maharashtra, 444709 – on 23/08/2022, along with the Death Certificate.

THIS DONATED BODY (CADAVER) WILL BE USED FOR TEACHING PURPOSES.

Mabham

DR. DEEPALI P. ONKAR PROFESSOR & HOD. DEPT. OF ANATOMY DR. DEEPALI ONKAR PROFESSOR & HOD Department of Anatomy N.K.P. Salve Institute of Medicar Sciences & Research Centre and Lata Wangeshkar Hospital. Nagpur



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No. NKP SIMS/ Anat./ Cert./ 2022

Date: 02/09/2022

DEPARTMENT OF ANATOMY

CERTIFICATE

Govt. of Maharashtra by its notification No. MED-190/3589/MED-4(A) dated 01.08.1990 has declared this institution as an approved institution for the purpose of Anatomical Act.

This department has received donated body (cadaver) of Mrs. Smita Vinayak Kanetkar, Aged 83Yrs, Female, R/o Plot No. 7, Bhaskar Apts, Bajaj Nagar, Nagpur, Maharashtra, 440010 – on 02/09/2022, along with the Death Certificate.

THIS DONATED BODY (CADAVER) WILL BE USED FOR TEACHING PURPOSES.

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DR. DEEPALI P. ONKAR PROFESSOR & HOD. DEPT. OF ANATOMY DR. DEEPALI ONKAR PROFESSOR & HOD Department of Anatomy N.K.P. Salve Institute of Medical Science Casearch Centre and Lata Mangeshikai Hospital, Nagpur



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No. NKP SIMS/ Anat./ Cert./ 52 /2022

Date: 19/09/2022

DEPARTMENT OF ANATOMY

CERTIFICATE

Govt. of Maharashtra by its notification No. MED-190/3589/MED-4(A) dated 01.08.1990 has declared this institution as an approved institution for the purpose of Anatomical Act.

This department has received donated body (cadaver) of Mr. Viddyadhar Sharatchandra Ranade, Aged 90Yrs, Male, R/o Plot No. 172, Dhanlaxmi apartment, Near Chhatrapati Sabhagruh, Chhatrapati Nagar, Nagpur, Maharashtra, 440015 – on 19/09/2022, along with the Death Certificate.

THIS DONATED BODY (CADAVER) WILL BE USED FOR TEACHING PURPOSES.

proviser

DR. DEEPALI P. ONKAR PROFESSOR & HOD. DEPT. OF ANATOMY DR. DEEPALI ONKAR PROFESSOR & HOD Department of Anatomy N.K.P. Salve Institute of Medicar E. Thoses & Research Centre and

Land Jangeshkar Hospital, Nagpur



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No. NKP SIMS/ Anat./ Cert. 2 \ /2022

Date 08th Oct 2022

DEPARTMENT OF ANATOMY

CERTIFICATE

Govt. of Maharashtra by its notification No. MED-190/3589/MED-4(A) dated 01.08.1990 has declared this institution as an approved institution for the purpose of Anatomical Act.

This department has received a cadaver of Smt. SUMAN GANPATRAO SHENDE, 80 Aged years, FEMALE, <u>R/o. 40 Ladikar layout, Manewada</u> <u>Road, Nagpur - 24</u>. On 8th October 2022 along with the Death Certificate.

THIS CADAVER WILL BE USED FOR TEACHING PURPOSES.

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DR. DEEPALI P. ONKAR HOD. DEPT. OF ANATOMY DR. DEEPALI ONKAR PROFESSOR & HOD Department of Anatomy N.K.P. Salve Institute of Medicai Sciences & Research Centre and Late Mangeshkar Hospital, Nagpur



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No. NKP SIMS/ Anat./ Cert. 53 /2022

Date 10th Oct 2022

DEPARTMENT OF ANATOMY

CERTIFICATE

Govt. of Maharashtra by its notification No. MED-190/3589/MED-4(A) dated 01.08.1990 has declared this institution as an approved institution for the purpose of Anatomical Act.

This department has received a cadaver of Mrs. Vanlata Arun Huddar, 84 Aged years, Female, <u>R/o. Plot No. 120 Shubhangi Layout, Khamla</u> <u>Road, Near Raut Hospital, Pande Layout, Khamla, Khamla, Nagpur -</u> <u>440025</u>. On 10th October 2022 along with the Death Certificate.

THIS CADAVER WILL BE USED FOR TEACHING PURPOSES.

PPONDar

DR. DEEPALI P. ONKAR HOD. DEPT. OF ANATOMY DR. DEEPALI ONKAR PROFESSOR & HOD Department of Anatomy N.K.P. Salve Institute of Medica, Sciences & Research Centre and Lata Mangeshkar Hospital, Nagpur



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No. NKP SIMS/ Anat./ Cert. 54 /2022

Date 13th Oct 2022

DEPARTMENT OF ANATOMY

CERTIFICATE

Govt. of Maharashtra by its notification No. MED-190/3589/MED-4(A) dated 01.08.1990 has declared this institution as an approved institution for the purpose of Anatomical Act.

This department has received a cadaver of Mrs. Nalini Manohar Kanetkar, ²aged 92 years, Female, <u>R/o. Plot No. 90 Behind Joshi</u> <u>Chakki, Swawalambi Nagar, Ranapratap Nagar, Nagpur – 440022,</u> on 13th October 2022 along with the Death Certificate.

THIS CADAVER WILL BE USED FOR TEACHING PURPOSES.

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DR. DEEPALI P. ONKAR HOD. DEPT. OF ANATOMY DR. DEEPALI ONKAR PROFESSOR & HOD Department of Anatomy N.K.P. Salve Institute of Medica Sciences & Research Centre and I and Mangeshkar Hospital, Nagpur



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No. NKP SIMS/ Anat./ Cert. 22 /2022

Date 30th Oct 2022

DEPARTMENT OF ANATOMY

CERTIFICATE

Govt. of Maharashtra by its notification No. MED-190/3589/MED-4(A) dated 01.08.1990 has declared this institution as an approved institution for the purpose of Anatomical Act.

This department has received a cadaver of Mrs. Sumitra Kaliram Gaikwad, aged 62 years, Female, <u>C/o. Kaliram Kashiram Gaikwad</u>, <u>Behind Tahsil Office, Bardi, Armori, District - Gadchiroli – 441208</u>, on 30th October 2022 along with the Death Certificate.

THIS CADAVER WILL BE USED FOR TEACHING PURPOSES.

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DR. DEEPALI P. ONKAR HOD. DEPT. OF ANATOMY DR. DEEPALI ONKAR PROFESSOR & HOD Department of Anatomy Control Institute of Medicar Control Institute of Medicar



Phone (07104) 665000,244291, Fax:(07104) 306111- mail: nkpsims1@rediffmail.com/website : www.nkpsims.in

No. NKP SIMS/ Anat./ Cert. 23 /2022

Date 18th Nov. 2022

DEPARTMENT OF ANATOMY

CERTIFICATE

Govt. of Maharashtra by its notification No. MED-190/3589/MED-4(A) dated 01.08.1990 has declared this institution as an approved institution for the purpose of Anatomical Act.

This department has received a cadaver of Smt. Susheela Manikrao Dhanpalwar, aged 84 years, Female, R/o. 3-4 -1013/19, Rajendra Colony, Barkatpura Himayathnagar, Station Kachiguda, Hyderabad, Telangana – 500027, on 18th Nov. 2022 along with the Death Certificate.

THIS CADAVER WILL BE USED FOR TEACHING PURPOSES.

Pronteau

DR. DEEPALI P. ONKAR HOD. DEPT. OF ANATOMY DR. DEEPALI ONKAR PROFESSOR & HOD Department of Anatomy N.K.P. Salve Institute of Medica Sciences & Research Centre and Lars, Mangeshkar Hospital, Nagpur



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No. NKP SIMS/ Anat./ Cert. & 4 /2022

Date 19th Dec. 2022

DEPARTMENT OF ANATOMY

CERTIFICATE

Govt. of Maharashtra by its notification No. MED-190/3589/MED-4(A) dated 01.08.1990 has declared this institution as an approved institution for the purpose of Anatomical Act.

This department has received a cadaver of Ku. Lata Mahadeo Patil, aged 64 years, Female, R/o. Near Buddha Putla, Galli No. 1, Kunjilal Peth, Bhagwan Nagar, Nagpur- 440027. Maharashtra on 19th Dec. 2022 along with the Death Certificate.

THIS CADAVER WILL BE USED FOR TEACHING PURPOSES.

pponden DR. DEEPALI P. ONKAR

HOD. DEPT. OF ANATOMY DR. DEEPALI ONKAR PROFESSOR & HOD Department of Anatomy N.K.P. Salve Institute of Medica, Sciences & Research Centre and rata Mangeshkar Hospital, Nagpur

Best Practice 2 - AI Based Software for Xray (CXR)

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Department of Radio diagnosis

Best Practice 2 - AI Based Software for Xray (CXR)



N.K.P. Salve Institute of Medical Sciences & Research Centre and Lata Mangeshkar Hospital

Digdoh Hills, Hingna Road, Nagpur – 440 019

Phone (07104) 665000,244291, Fax:(07104) 306111- mail: nkpsims.in

No.NKP&LMH/Radiology/210/2022

Date: 14/12/2022

BEST PRACTICES IN THE DEPARTMENT OF RADIODIAGNOSIS (YEAR 2022)

1. <u>Title:</u>

Artificial Intelligence based software for detection of pathologies and systematic reporting of Chest radiographs.

2. Objectives:

- To develop AI based software for systematic and accurate reporting of chest radiographs daily.
- To create a digital image library consisting of findings of reported chest radiographs.

3. The Context:

Reporting of chest radiographs in day to day practice is a challenging task because of complex interpretations and many overlapping structures have to be visualized on 2 dimensional image. Many factors affect the accuracy of reporting including the expertise of radiologist, technical factors, compliance of the patient and expertise of the technician. The idea of development of this algorithm was based on minimizing the errors in diagnosis due to mechanical reasons and human errors.

The template for the algorithm is broadly classified as follows:

- 1. NORMAL RADIOGRAPHS
- 2. CONGENITAL PATHOLOGIES
- 3. NEONATAL PATHOLOGIES
- 4. INFECTIONS
- 5. NEOPLASTIC PATHOLOGIES
- 6. CHEST TRAUMA
- 7. MISCELLANEOUS PATHOLOGIES

4. The Practice:

The main objective of this practice was to develop a systematic approach for reporting of routine chest radiographs in department of radiodiagnosis which gives a proper step by step delineation of pathologies and help the junior residents in reaching at a particular diagnosis in a structured way. We have provided resources to help the residents standardize reporting practices to enhance efficiency, demonstrate value and improve diagnostic quality of chest radiography reporting. The ideal report should be uniform, comprehensive, easy to understand and readable. This study itself is unique since this approach has been carried out for the first time in our institute and has already benefitted the junior residents immensely. We also intend to create a digital library which can serve the purpose of storing such methodically reported radiographs. However, few limitations were encountered in the evaluation of this study especially the technical parameters of the radiograph with few appearing rotated or under/over exposed. Due to this limitation few pathologies were overlooked and few normal chest radiographs were overdiagnosed. Another limitation faced was the reporting of portable chest radiographs done in emergency or intensive care setting which were usually rotated or taken in mid inspiratory or expiratory phase.

5. Evidence of success:

The study has helped many residents in describing findings in a chest radiograph in a proper methodical approach and in reaching an accurate diagnosis which ultimately improves the diagnostic yield of reporting of the same.

6. Problems Encountered and Resources Required:

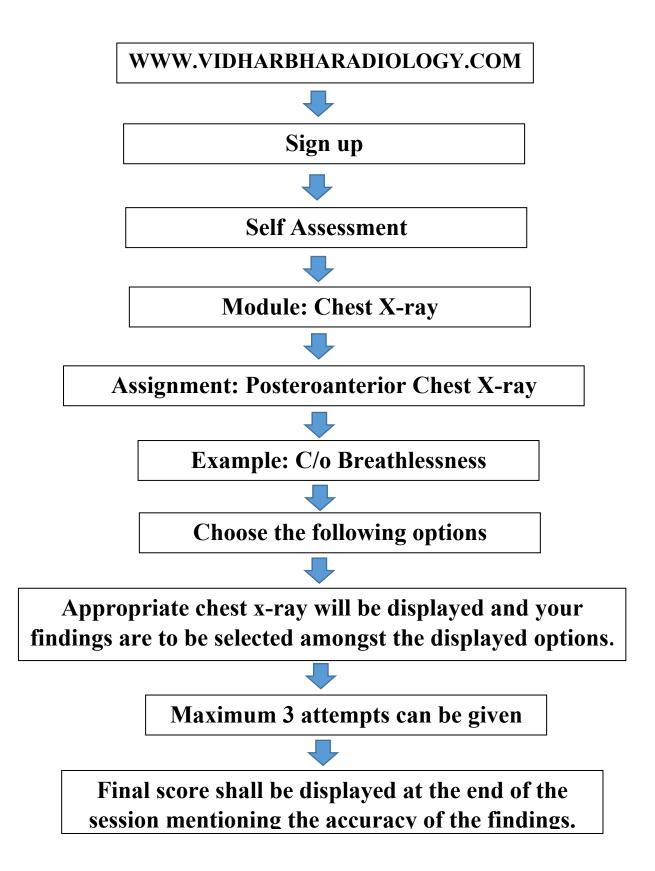
This algorithm however did not prove to be as useful in portable radiographs as it was in the routine setting where modern radiographs are now carried out digitally. As the quality of these portable radiographs is questionable, many of these xrays are overdiagnosed or underdiagnosed. Hence the resources required for such radiographs should be optimal and they include manual as well as technical factors such as a properly trained technician as well as properly positioned radiographs.

Another important resource required is Picture Archiving and Communication System (PACS) which help in easy reporting and availability of these radiographs.

DR. AVINASH DHOK PROFESSOR & HOD Department of Radiodiagnosis N.K.P. Salve Institute of Medical Sciences & Research Centre and ata Mangeshkar Hospital. Nagpur

ALGORITHM FOR REPORTING OF THE CHEST RADIOGRAPHS

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WEBSITE FOR THE REPORTING OF CHEST RADIOGRAPHS

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Welcome

Self-assessment

Module : Chest X-ray

Batach Name : Chest X-ray 2021 Assignment Status : Attempts

Start Date : 2022-10-30 End Date : Assignment Marks :

Module Ststus : applied Submit Assignment / Retry

Submit Assignment

Section : Posteroanterior x-ray

Assignment Status : 0 Attempts

Assignment Marks : 0

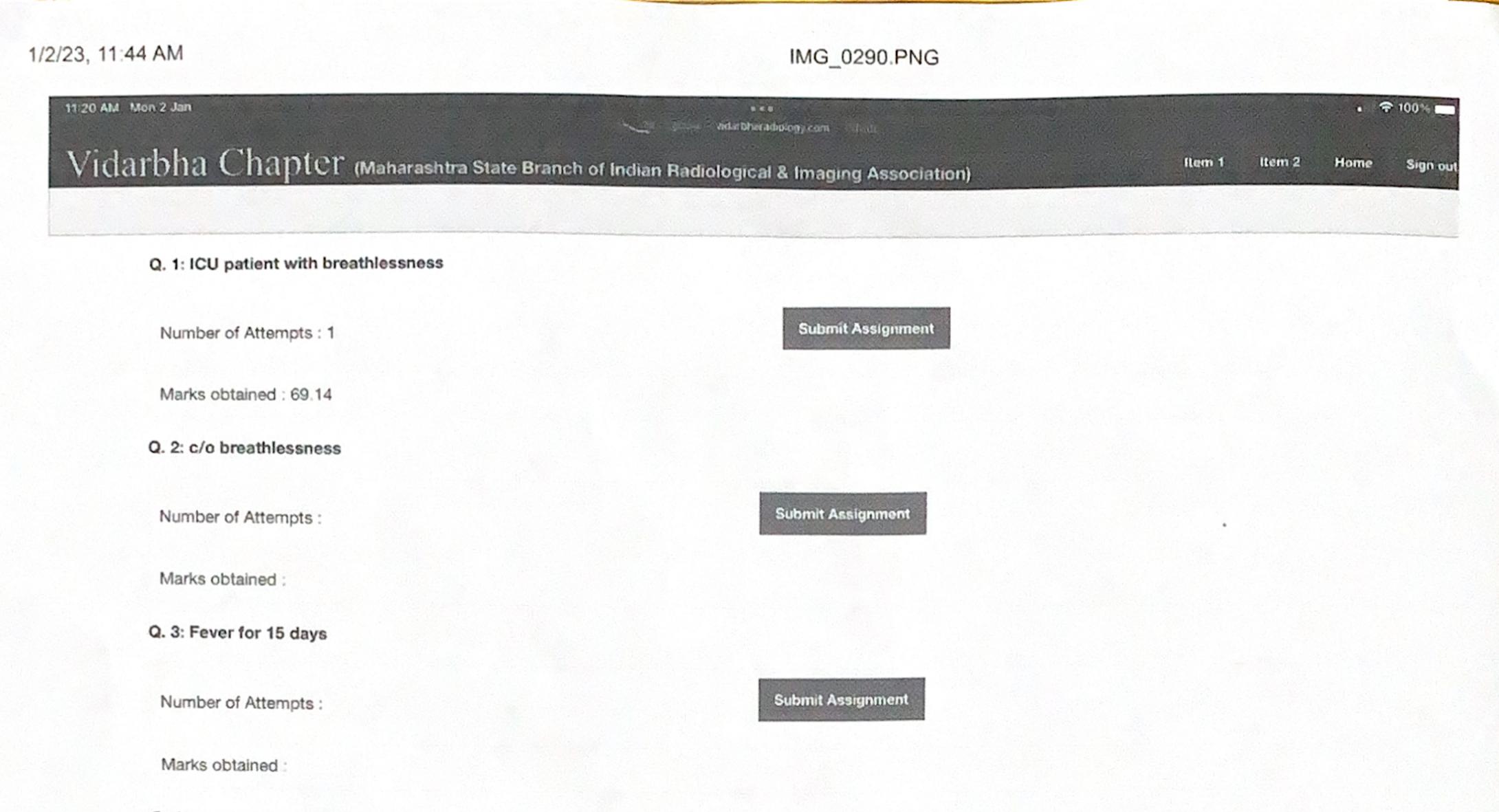
Submit Assignment / Retry

Submit Assignment

This self-assessment course to update your skills.

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Q. 4: cough with fever

Number of Attempts :

Marks obtained :

Q. 5: fever

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Number of Attempts :

Submit Assignment

Marks obtained :

Submit Assignment

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LOAN AGREEMENT OF DEEPTECH FOR ARTIFICIAL INTELLIGENCE BASED SOLUTIONS

DEEPTEK MEDICAL IMAGINGPRIVATE LIMITED CINU74999PN2018FTC177289 www.DeepTek.ai

Loan Agreement for Special AI Based Solutions "WIP" (Works in progress) or "ASP" "Addin / Special Sequence Package" (WIP / ASP) including Dicom Data.

Dear Dr Avinash Dhok Head of Department of Radiology NKPSIMS, Hospital and Research center Nagpur, Maharashtra **PINCODE 440019** Email: nkpsims1@rediffmail.com Phone: 07104-244904

We are pleased to provide you on a loan basis with the following Special Work backage WIP 1 ASP (LOANED ITEM)

1- Artificial Intelligence tool for detection and categorization of normal and abnormal chest radiographs using deep learning. 2-Notification client software and notification client AI bot engine

for the use in connection with or on your DeepTek system(s):

The loan duration is 6 months, upon date of last signature under this agreement.

As Deliverable under this Agreement, you will provide us with feedback on the evaluation of the WIP/ASP and further information related thereto as described herein.

PURPOSE:

Normal - Abnormal chest radiograph prototype evaluation to:

- Conduct Qualitative assessment of the functionality and workflow.
- Conduct Quantitative assessment of the functionality.
- Provide clinical cases and evidences of evaluation in terms of case summary.csv and the statistics.csv

DESCRIPTION:

DeepTek is developing artificial intelligence (AI) solutions to assist the radiologists in various clinical tasks. DeepTek has developed an Al algorithm that assists the radiographer and the radiologist with the triaging of acute patients. In this collaboration, the clinical partner is enabled to assess modern techniques of workflow improvements that allow for better resource allocation, and shorter time-totreatment for the patients. DeepTek gets feedback from the clinical partner to include in further algorithm developments to address the clinical needs properly.

NKPSIMS, Hospital and Research center Nagpur, Maharashtra.("PARTNER") hereby nominates as its scientific project managers: Dr. Prashant Onkar; Email: nkpsimsradio@gmail.com

- Dr Amit Kharat for Liaoning between DPU and DeepTek.
- DeepTek hereby nominates as its scientific project managers: Ajit Patil; Email:ajit@deeptek.ai.

OFFICE: 4TH FLR, ALACRITY INNOVATION CENTRE, PALLOD FARMS 3, BANER ROAD, PUNE 411045, MH. INDIA

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DEEPTEK MEDICAL IMAGINGPRIVAT LIMITE CINU74999PN2018FTC17728 www.DeepTek.

The Parties of this agreement shall during the performance of the WIP evaluation keep in contact through the scientific project managers and shall in case of upcoming problems, specifically if they cannot comply anymore with the time schedule defined in the MILESTONES, determine possible solutions and implement chosen solutions.

The timeline to be discussed on mutual basis and a clinical outcome will be presented as a collaborative research document/presentation/research paper.

DICOM data:

Patient study acquired will be post processed using the supplied AI for Normal-Abnormal Detection and classification Prototype stand-alone software of Xray Chest data including and also be reviewed through the provided bot engine as a part of the mobile device. AP or PA view of chest radiographs

Data Specification:

DeepTek will provide a configuration (WIP DICOM profile) that is supposed to support anonymization and its use is recommended. For details, please see the configuration documentation, which will be provided separately.

The following data shall be kept:

- Age of the patients in years
- Sex of the patients
- Date of examination modified by a random value(increment)
- DICOM-UIDs for instance Study Instance UID replaced by a hash value.
 - Scanner information like manufacturer, modality and other
- Technical data required for the image analysis (e.g., scan protocol) etc.
- Pixel data in relevant studies.

Ajit Patil DeepTek Medical Imaging Pvt Ltd Amit Kharat Coordinator

Dr Avinash Dhok HOD, Radiology DR. AVINASH PROFESSOF & intent of Radi to the same include NOT 1.3 Research i ata Anni - Am Al Dusi

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