



NCG-KCDO EMR Requirement (NER)-Pre-Anaesthesia Check Up Template (Version 2.0)

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FOREWORD

The National Cancer Grid (NCG) Electronic Medical Records (EMR) initiative has been well received by the NCG Hospitals and our community of healthcare professionals and stakeholders. The enthusiasm and support we have garnered for this initiative reflect a shared commitment to advancing cancer care through technology and collaboration.

As part of our ongoing efforts to enhance the EMR initiative, the pre anaesthesia check-up template has been developed. This module aims to streamline the process, providing clinicians with the tools they need to deliver optimal care to patients with cancer.

This collaborative effort has been informed by thorough industry research, ensuring that the NCG helps EMR vendors build solutions aligned with best practices and meet the diverse needs of our stakeholders.

We are immensely grateful for the feedback, suggestions, and guidance provided by the healthcare professionals involved in treating cancer patients, as well as the healthcare technology companies and providers. We are pleased to share the final version of the Pre- Anaesthesia Check Up Template. Thank you for your continued support and collaboration.

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1. NCG EMR INITIATIVE OVERVIEW

The National Cancer Grid Koita Centre for Digital Oncology (NCG KCDO) launched an initiative to empanel Electronic Medical Records (EMR) vendors and help develop high quality EMR solutions that are appropriate for use in hospitals providing cancer care. This marks a significant milestone in the ongoing efforts to promote digital health and enhance cancer care across the country. Launched with the aim of standardizing and improving clinical practices in oncology, it is a collaborative approach involving leading healthcare institutions, clinicians, and technology partners.

In March 2023, NCG KCDO released the NCG EMR Requirements (NER) — a comprehensive set of EMR requirements needed for effective management of patients with cancer. The NER is a blueprint for the development and implementation of robust EMR systems which will serve general hospitals well, but are also tailored specifically for oncology practices. The NER document is a result of intense deliberations over several months between healthcare professionals involved in cancer care and technology experts, and is available as a digital public good at NCG-KCDO EMR Initiative.

To further support the development of the empanelled EMR systems, the NCG has developed detailed requirements and features in specific areas of oncology including radiotherapy, chemotherapy and surgical oncology. This document details the pre-anaesthesia check-up requirements based on best practices developed at several leading NCG centres.

2. EMR FEATURE BUILDING

A. Pre Anaesthesia Check Up Template Overview

Building on the features outlined in the NER (NCG EMR Requirement), the Pre-Anaesthesia Check-up template is designed to streamline and optimize the treatment process for patients with cancer. The template is designed to enhance the quality, safety, and efficiency of the treatment within the NCG network, ultimately improving outcomes for cancer patients and advancing the field of oncology care.

Key features of the Pre-Anaesthesia Check-up template include:

- **2.1 Preoperative Evaluation:** Physical examination findings including vital signs (blood pressure, heart rate, respiratory rate, and temperature) and assessment of airway, cardiovascular, respiratory, and neurological systems.
- **2.2 Laboratory and Diagnostic tests:** Incorporates results of the relevant laboratory tests and imaging studies.
- **2.3** Anaesthesia Risk Assessment: Evaluation of anaesthetic risk using standardized scoring systems (e.g., ASA physical status classification).





B. Methodology

The methodology used to build the pain management, PAC and palliative medicine assessment forms within the NER (NCG EMR Requirements) document encompasses a systematic and collaborative approach, involving key stakeholders and leveraging best practices across NCG hospitals.

3. Pre-Anaesthesia Check Up Form

	Pre- Anaesthesia Check Up Form (PAC)		
Sno	Data elements	Clinician's Response	Remarks for Vendors
1	General Details		
Α	Please select one to continue	☐ PAC ☐ Review PAC	
В	Ward		
С	Case Number		
D	Name		Auto populate as per case no
Е	Age		Auto populate as per case no
F	Sex		Auto populate as per case no
G	Height		
Н	Weight		
- 1	BMI		Auto Calculate
J	Evaluating Anaesthesiologist		
K	Unit Name		Auto Populate from Surgery Module
L	Treating Doctor		Auto Populate from Surgery Module
М	Name of Procedure		Auto Populate from Surgery Module
N	Date of Surgery		Auto Populate from Surgery Module
0	Nature of Surgery	☐ Urgent☐ Emergency☐ Elective	Auto Populate from Surgery Module
2	Vitals		





Α	Date		Auto populate today's date
В	Temperature		Open text box
С	Pulse		Open text box
D	Blood pressure		Open text box
Е	Spo2		Open text box
F	Breath Holding Time (in Sec)		Open text box
3	General Physical Examinat	ion	
Α	General Condition	☐ Good ☐ Fair ☐ Poor	
В	Breathing Pattern	 □ Normal □ Tachypnoea □ Bradypnoea □ Obstructed □ Noisy Breathing □ Stridor 	
С	Orientation	☐ Normal☐ Confused☐ Very Poor☐ Agitated	
D	Pallor	☐ Yes ☐ No	
E	Icterus	☐ Yes ☐ No	
F	Cyanosis	☐ Yes ☐ No	
G	Clubbing	☐ Yes ☐ No	
Н	Lymphadenopathy	☐ Yes ☐ No	
I	Pedal Edema	☐ Yes ☐ No	
J	LRTI	☐ Yes ☐ No	
К	URTI	☐ Yes ☐ No	
L	Fever	☐ Yes ☐ No	
М	Pre-Anaesthesia Evaluation History	☐ Yes ☐ No	Open text box





4	Comorbidities and treatme	ent history	
Α	Hypertension		Open text box
В	Diabetes Mellitus		Open text box
С	Cardiac (IHD/CHF/Any other)		Open text box
D	Respiratory (Asthma/ TB/COPD)		Open text box
Е	Nervous System (Epilepsy/Stroke/Others)		Open text box
F	Renal (AKI/CKD/Others)		Open text box
G	Thyroid Disorder		Open text box
Н	Chemotherapy drugs		Populated from Surgeon notes/ Medical Onco Module
I	Radiotherapy		Populated from Surgeon notes /Radiotherapy Onco Module
J	Any H/O Surgeries		Open text box
K	H/O Transfusion/ Blood Disorders		Open text box
L	Acute/Chronic Pain		Open text box
М	Obesity (STOP BANG Questionnaire)	☐ Gender- Male ☐ Neck Circumference>40 cm ☐ Age>50 yrs ☐ BMI>35kg/m2 ☐ High Blood Pressure ☐ Observed Apnoea ☐ Tiredness ☐ Snoring	Multiple choice possible
N	Drug Allergies		Open text box
0	Any other relevant medical history		Open text box
5	Substance Abuse History		
		Duration	Remarks
Α	Drugs		
В	Alcohol		
С	Betel Nut		
D	Tobacco		
E	Smoking		





6	Airway Assessment		
Α	Nares	☐ Normal☐ Abnormal	
В	Deviated Nasal Septum	□ Normal□ Right□ Left□ Post Surgical	
С	Mouth Opening	□ >4 cm □ 3-4 cm □ <3 cm	
D	Teeth	 □ Normal □ Edentulous □ Protruding □ Artificial □ Buck □ Loose tooth 	
E	Mallampati	□ 0 □ 1 □ 2 □ 3 □ 4 □ NA	
F	Jaw Sliding	□ +1 □ 0 □ -1	
G	Thyromental Distance	□>7.5 cm □ 6-7.5 cm □<6 cm	
Н	Neck		Open text box
I	Spine		Open text box
J	Tracheostomy	☐ Yes ☐ No	Open text box
K	Airway Comments (if any other)		Open text box
7	Systemic Examination		
Α	Cardiovascular System		Open text box
В	Respiratory System		Open text box
С	Abdominal System		Open text box
D	Central Nervous system		Open text box





8	Investigations and Imaging with dates	Integrate with the Laboratory Information system and auto populate the values/ Option to enter if done from outside
1	Blood group and RH Type	
2	Haemoglobin	
3	Platelet Count	
4	Total Leucocyte Count	
5	Differential Count	
i	Neutrophil Count	
ii	Lymphocyte count	
iii	Absolute Neutrophillic Count	
6	Platelet Count	
7	Liver Function test	
i	Bilirubin (Direct/Indirect)	
ii	SGOT	
iii	SGPT	
iv	ALP	
V	S. Albumin	
vi	S. Globulin	
vii	S. Proteins	
8	Coagulation profile	
i	Bleeding time	
ii	Clotting time	
iii	PT	
iv	INR	
٧	aPTT	
vi	Π	
vii	Fibrinogen	
9	CRP	
10	Procalcitonin/Lactate	
11	Renal Function test	
i	S. Creatinine	
ii	Blood Urea	
iii	BUN/Uric Acid	
12	S. Electrolytes	
i	Sodium	
ii	Potassium	
iii	Chloride	





iv	Calcium		
V	Magnesium		
vi	Phosphate		
13	RBS		
14	FBS		
15	PPBS		
16	S NT- Pro BNP		
17	Thyroid Profile		Optional
i	Free T3		
ii	Free T4		
iii	TSH		
iv	Anti-TG		
V	Anti-TPO		
18	Viral Markers		
i	HIV		
ii	HBsAg		
iii	HCV		
19	ECG		Open Text box
20	X-Ray or USG		Open Text box
21	2 D Echo		Open Text box
22	Stress test		Open Text box
23	6 Minute Walk test		Open Text box
24	CPET		Open Text box
25	Pulmonary Function test		
26	Arterial Blood Gas		
27	CT-Scan or MRI		
28	V/Q Scan		
29	DL Scopy		
9	Speciality Reference		
Α	Referred to		Map the list of departments as per the NCG center
В	Remarks		Open text box
10	Status		
		□ I □ II	
Α	ASA Grade		
		□ IV	
		□V	





		□ VI □ E	
В	Fitness Status	☐ Yes with accepted risk☐ No	
С	Anaesthesia Consent administered	☐ Yes ☐ No	
D	Date		
11	Anaesthesiologist's Advice	&Pre operative Orders	
Α	Anemia Management	☐ Yes ☐ No	Row 11B to be enabled if the response to 11A is yes
В	If Yes, Remarks		Open text box
С	Fasting guidelines prior to surgery: 2 Hours for clear liquids. 8 hours for heavy meal, 6 hours for light meal/formula feeds, 4 hours for breast feeding		Insert this line as a printed advice
12	Approvals		
Α	Anaesthesiologist's Name		
В	Signature		E sign
С	Date		Calendar view/today's date
		End	

4. Appendices

Appendix 1- Glossary of terms

	Abbreviations
NCG	National Cancer Grid
EMR	Electronic Medical Record
NER	NCG EMR Requirements
LEAP	Leading EMR Adoption Program
COPD	Chronic Obstructive Pulmonary Disease
HT	Hypertension
DM	Diabetes Mellitus





IHD	Ischemic Heart Disease
CAD	Coronary Artery Disease
CVA	Cerebrovascular Accident
ТВ	Tuberculosis
RFT	Renal Function Test
LFT	Liver Function Test
S NT Pro BNP	N-terminal pro-B-type natriuretic peptide
SGOT	Serum glutamic oxaloacetic transaminase
SGPT	Serum glutamate pyruvate transaminase
ALP	Alkaline phosphatase
PT	Prothrombin Time
INR	International Normalized Ration
aPTT	Activated Partial Throm- boplastin Time
TT	Thrombin Time
CRP	C-reactive protein
Anti-TG	Thyroglobulin autoantibodies
Anti-TPO	Anti-thyroid peroxidase antibodies
HIV	Human immunodeficiency virus
HBsAg	Hepatitis B surface antigen
HCV	Hepatitis C virus
CPET	Cardiopulmonary exercise testing
V/Q Scan	Ventilation-perfusion (V/Q) scan
DL Scopy	Direct Laryngoscopy
ASA Grade	American Society of Anesthesiologists (ASA) Physical Status Classification System

Appendix 2- NER Document

1. ncg-emr-requirements-ner.pdf (kcdo.in)