Model Card

Task: Image-to-Image translation

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0. Card Metadata

Creation date: —

Versioning

- **Version number**: —
- **Version changes**: —

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1. Model Basic Information

Name: —

Creation date: —

Versioning

- **Version number**: —
- **Version changes**: —

Model scope

- **Summary**: —
- **Anatomical site**: —

Clearance

- **Type**: —

Approved by

- **Name(s)**: —
- **Institution(s)**: —
- **Contact email(s)**: —

Observed limitations: —

Type of learning architecture: —

Developed by

- **Name**: —
- **Institution(s)**: —

- **Contact email(s)**: —

Conflict of interest: —

Software licence: —

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2. Technical specifications

2.1 Model overview

Model pipeline

- **Summary:** —
- **Model inputs:** ['4DCT', '4DCT']
- **Model outputs:** ['CBCT', 'RTSTRUCT: A_Aorta_Asc, A_Carotid, A_Celiac, A_Coronary_L', 'RTSTRUCT: A_Celiac']
- **Pre-processing:** —
- **Post-processing:** —

2.2 Learning architecture(s)

Learning architecture 1

Field	Value
Total number of trainable parameters	—
Number of inputs	—
Input content	—
Input size	—
Number of outputs	—
Output content	—
Output size	—
Loss function	—
Batch size	—
Regularisation	—
Uncertainty quantification techniques	—
Explainability techniques	—

2.3 Hardware & software

No hardware and software details specified.

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3. Training Data Methodology and Information

Fine tuned form

- **Model name:** —
- **URL/DOI to model card:** —
- **Tuning technique:** —

Training Dataset

General information

- **Total size:** —
- **Number of patients:** —
- **Source:** —
- **Acquisition period:** —
- **Inclusion / exclusion criteria:** —
- **Type of data augmentation:** —
- **Strategy for data augmentation:** —

Technical specifications

CBCT (model_outputs)

Field	Value
Image resolution	—
Patient positioning	j
Scan(s) manufacturer and model	h j
Scan acquisition parameters	—
Scan reconstruction parameters	—
FOV	—

RTSTRUCT: A_Aorta_Asc, A_Carotid, A_Celiac, A_Coronary_L (model_outputs)

Field	Value
Image resolution	j

Field	Value
Patient positioning	j k
Scan(s) manufacturer and model	
Scan acquisition parameters	
Scan reconstruction parameters	
FOV	jk jk

RTSTRUCT: A_Celiac (model_outputs)

Field	Value
Image resolution	uyvvbjkgh
Patient positioning	cg
Scan(s) manufacturer and model	gv
Scan acquisition parameters	jhjh
Scan reconstruction parameters	hj
FOV	hjhj

4DCT (model_inputs)

Field	Value
Image resolution	3tqw
Patient positioning	jh hj
Scan(s) manufacturer and model	h
Scan acquisition parameters	h
Scan reconstruction parameters	h
FOV	jh

4DCT (model_inputs)

Field	Value
Image resolution	kjbhg
Patient positioning	h
Scan(s) manufacturer and model	gg h
Scan acquisition parameters	g
Scan reconstruction parameters	g jh

Field	Value
FOV	—

- **Reference standard:** —
- **Reference standard QA:** —

Patient demographics and clinical characteristics

- **Age:** —
- **Sex:** —

Validation strategy: —

Validation data partition: —

Model choice criteria: —

Inference method: —

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4. Evaluation Data Methodology, Results and Commissioning

1 1

Evaluation date: —

Evaluated by

- **Name(s):** —
- **Institution(s):** —
- **Contact email(s):** —
- **Same as 'Approved by':** No

Evaluation frame: —

Evaluation dataset

General information

- **Total size:** —
- **Number of patients:** —
- **Source:** —
- **Acquisition period:** —
- **Inclusion / Exclusion criteria:** —
- **URL info:** —

Technical specifications

CBCT (model_outputs)

Field	Value
Image resolution	—
Patient positioning	—
Scan(s) manufacturer and model	—
Scan acquisition parameters	ekbjjh
Scan reconstruction parameters	h
FOV	hk

RTSTRUCT: A_Aorta_Asc, A_Carotid, A_Celiac, A_Coronary_L (model_outputs)

Field	Value
Image resolution	—
Patient positioning	—
Scan(s) manufacturer and model	—
Scan acquisition parameters	—
Scan reconstruction parameters	—
FOV	—

RTSTRUCT: A_Celiac (model_outputs)

Field	Value
Image resolution	—
Patient positioning	—
Scan(s) manufacturer and model	—
Scan acquisition parameters	—
Scan reconstruction parameters	—
FOV	—

4DCT (model_inputs)

Field	Value
Image resolution	—
Patient positioning	—

Field	Value
Scan(s) manufacturer and model	—
Scan acquisition parameters	—
Scan reconstruction parameters	—
FOV	—

4DCT (model_inputs)

Field	Value
Image resolution	—
Patient positioning	—
Scan(s) manufacturer and model	—
Scan acquisition parameters	—
Scan reconstruction parameters	—
FOV	—

- **Reference standard:** —
- **Reference standard QA:** —

Patient demographics and clinical characteristics

- **Age:** —
- **Sex:** —

Quantitative evaluation

Dose Metrics

MAE (Mean Absolute Error)

Field	Value
Type	MAE (Mean Absolute Error)
Metric Specifications	ef
On Volume	Other
Registration	—
Treatment Modality	—
Dose Engine	—

Field	Value
Dose Grid Resolution	—
TPS Vendor	—
Sample Data	—
Mean Data	—
Figure Appendix Label	—

MAE (Mean Absolute Error)

Field	Value
Type	MAE (Mean Absolute Error)
Metric Specifications	—
On Volume	—
Registration	—
Treatment Modality	—
Dose Engine	—
Dose Grid Resolution	—
TPS Vendor	—
Sample Data	—
Mean Data	—
Figure Appendix Label	—

Qualitative evaluation

Evaluators information: —

Likert scoring

- Method: —
- Results: —

Turing test

- Method: —
- Results: —

Time saving

- Method: —
- Results: —

Other

- Method: —
- Results: —

Explainability: —

Citation details: —

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5. Other considerations

No other considerations provided.
