

INSTRUCTIONS:

- Use this template as a VISUAL guide for your Tech Chart
- Use a FIXED kVp for similar body thickness with a VARIABLE mAs (easier to remember)

*The best way to build a Tech Chart is to use a FIXED kVp with a VARIABLE mAs.
Building one in lab will give you a starting point for real world situations.*

The below is an example of how one was built.

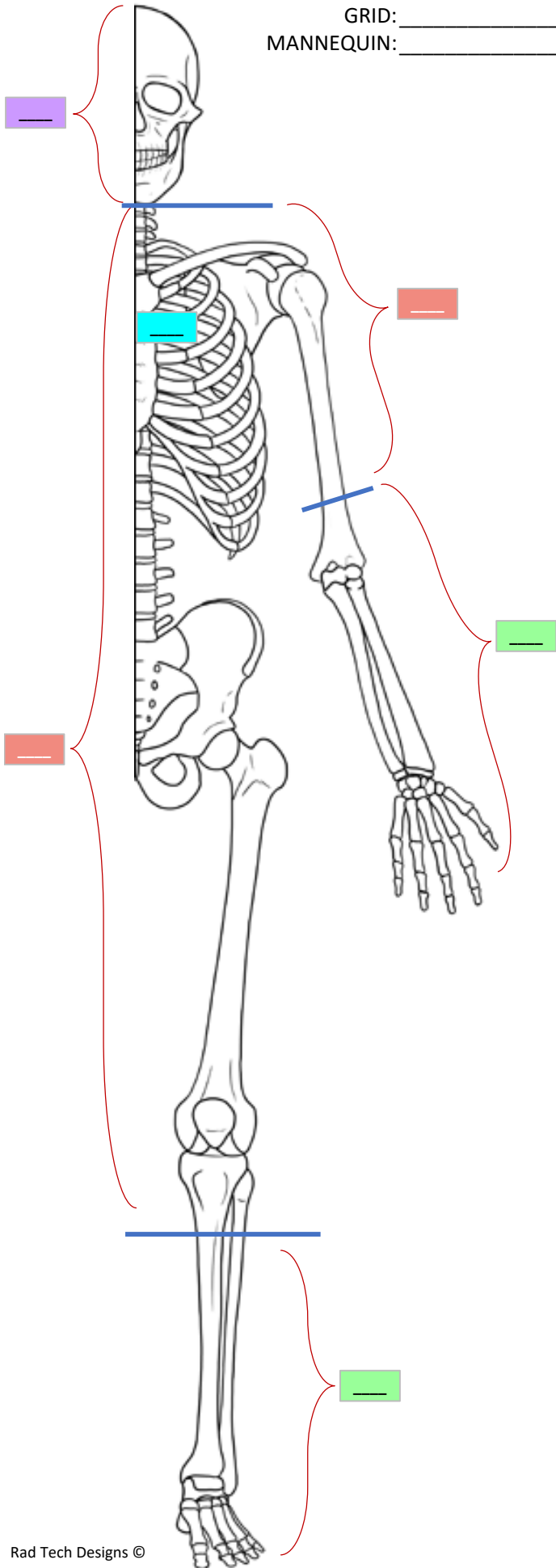
Description	Pos	kVp	@	mAs
Chest	PA	130	@	3.0
	Lat/Ocb		@	10.0
	Mobile	110	@	1.6
Fingers	PA	50	@	1.0
	Lateral		@	
Hand	PA	50	@	1.0
	Lateral		@	2.0
Wrist	PA	50	@	1.0
	Lateral		@	2.0
Forearm	AP	50	@	2.0
Elbow	AP	50	@	2.0
Humerus	AP	75	@	2.0
Shoulder	AP	75	@	5.0
Cervical	AP	75	@	5.0
	RAD	75	@	8.0
Thoracic	AP	75	@	50.0
	(U/L)	75	@	8.0
C-Spine	AP	75	@	5.0
	Lateral		@	8.0
T-Spine	AP	75	@	14.0
	Lateral		@	50.0
L-Spine	AP	75	@	32.0
	Obl	75	@	36.0
Lateral			@	63.0
			@	
Abdomen	KUB	75	@	8.0
Pelvis	AP	75	@	5.0
Hip	AP	75	@	5.0
SI Joints	AP	75	@	20.0
Femur	AP	75	@	4.0
Knee	AP	75	@	2.0
	Lateral		@	
Lower Leg	AP	50	@	4.0
Ankle	AP	50	@	4.0
	Lateral		@	
Calcaneus	Axial	50	@	8.0
	Lateral		@	2.0
Foot	AP	50	@	1.0
	Lateral		@	2.0

DESCRIPTION 45" SID	kVp	@	mAs
Skull & FB - Lateral	81	@	6
Skull & FB - PA Caldwell	81	@	6
Skull & FB - AP Townes	81	@	10
Skull - SMV		@	
Sinuses - Lateral	81	@	6
Sinuses - PA Caldwell	81	@	6
Sinuses - Waters	81	@	10
Sinuses - SMV	81	@	20
Zygo Arches - Tangential	81	@	6
Zygo Arches - Axial Townes	81	@	10
Zygo Arches - SMV	81	@	20
Mandible - PA	81	@	6
Mandible - Axialateral (ramus)	81	@	6
Mandible - Axialateral Obl (body)	81	@	6
Mandible - Axialateral Obl (sym)	81	@	6

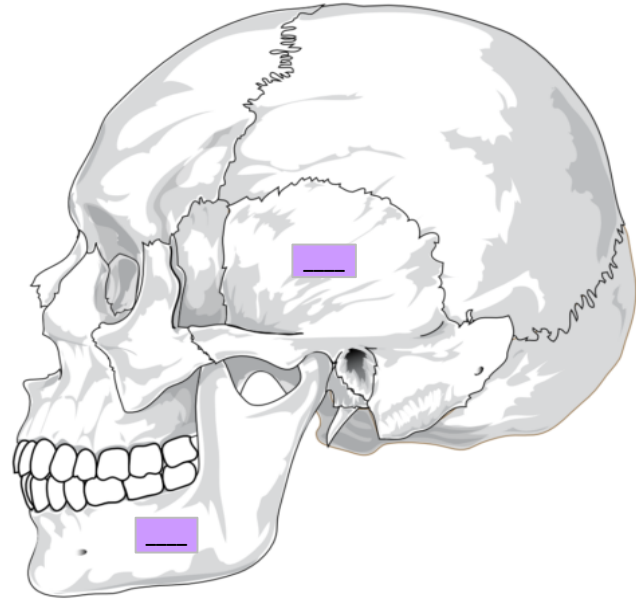
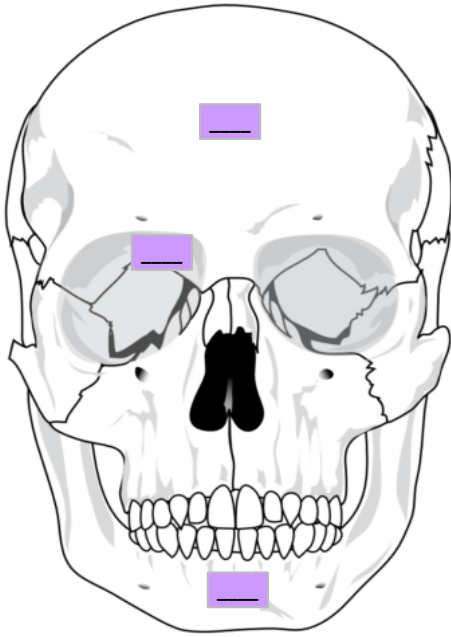
* Numbers were derived using a Siemens and listed manequins

Rad Tech CLINICALS Booklets are available at: <https://www.radtechdesigns.com>

ROOM: _____
 GRID: _____
 MANNEQUIN: _____



Description	Pos	kVp	@	mAs
Chest	PA		@	
	Lat/Dcb		@	
	Mobile		@	
Fingers	PA		@	
	Lateral		@	
Hand	PA		@	
	Lateral		@	
Wrist	PA		@	
	Lateral		@	
Forearm	AP		@	
Elbow	AP		@	
Humerus	AP		@	
Shoulder	AP		@	
Clavicle	AP		@	
Sternum	RAO		@	
	Lateral		@	
Ribs	AP (U / L)		@	
C-Spine	AP		@	
	Lateral		@	
T-Spine	AP		@	
	Lateral		@	
L-Spine	AP		@	
	Obl		@	
	Lateral		@	
Abdomen	KUB		@	
Pelvis	AP		@	
Hip	AP		@	
SI Joints	AP		@	
Femur	AP		@	
Knee	AP		@	
	Lateral		@	
Lower Leg	AP		@	
Ankle	AP		@	
	Lateral		@	
Calcaneus	Axial		@	
	Lateral		@	
Foot	AP		@	
	Lateral		@	



DESCRIPTION 45" SID	kVP	@	mAs
Skull & FB - Lateral		@	
Skull & FB - PA Caldwell		@	
Skull & FB - AP Townes		@	
Skull - SMV		@	
Sinuses - Lateral		@	
Sinuses - PA Caldwell		@	
Sinuses - Waters		@	
Sinuses - SMV		@	
Zygo Arches - Tangential		@	
Zygo Arches - AP Axial Towne		@	
Zygo Arches - SMV		@	
Mandible - PA		@	
Mandible - Axialateral (ramus)		@	
Mandible - Axialateral Obl (body)		@	
Mandible - Axialateral Obl (sym)		@	

FIXED KVP RECOMMENDED RANGES

The best way to build a Tech Chart is to find a fixed kVp for a section of the body. In the example below, the same kVp used for Fingers and the Hand is the same for Toes and Feet. Depending on which mannequin you are using, you will be able to adjust your kVp and mAs, and still be within range.

Item	kVp
Chest Lungs	110-120 (110)
Fingers / Hand	55 -60
Wrist	60- 65
Forearm	60- 65
Elbow	65 -70
Humerus	65 -70
Shoulder / Clavicle	70- 75
Ribs	70- 75 -80
Abdomen	75 -85
Pelvis	75 -80
Femur	70- 75 -80
Knee	65- 75
Lower Leg (Tib-Fib)	65 -70
Ankle & Calcaneus	60- 65
Toes / Foot	55 -60
Cervical Spine	75- 80 -85
T-Spine	75- 80 -85
L-Spine	80 -95
Skull	80 -85

Rad Tech Clinical Booklets are available at: www.RadTechDesigns.com



Tech Chart for Room: _____

(Your Name)

Item	AP	Oblique	Lateral
1. Chest Portable	40"	60"	72"
2. Chest	PA	Lateral	Decubitus
3. Finger			
4. Hand			
5. Toe			
6. Foot			
7. Wrist			
8. Forearm		X	
9. Elbow			
10. Humerus		X	
11. Shoulder (X)		(Swim & Infero Axial)	(Grashey)
12. Shoulder (W)		(Swim & Infero Axial)	(Grashey)
13. Shoulder (T)		(Swim & Infero Axial)	(Grashey)
14. Clavicle (X)		(AP Axial)	X
15. Clavicle (W)		(AP Axial)	X
16. Clavicle (T)		(AP Axial)	X
17. Abdomen	AP Supine	AP Erect	Decubitus
18. Pelvis		(Mod Cleaves)	X
19. Hip		(Lauenstein)	(Dan-Mill)
20. Femur	Proximal Distal	X	Proximal Distal
21. Knee (X)			
22. Knee (T)			
23. Lower Leg (Tib-Fib)		X	
24. Ankle			
25. Calcaneus		X	

Item	AP	Oblique	Lateral
26. Cervical Spine	(W) (axial) (T) (axial)	(W) (T)	(W) (@ 45" SID) (T) (@ 45" SID)
27. Thoracic Spine (T)		Z-Joints (@ 45" SID)	(@ 45" SID)
28. Thoracic Spine (W)		Z-Joints	
29. Lumbar Spine (T)		Z-Joints	Lateral & Spot
30. Ribs	(upper & lower)	(upper & lower)	(like chest)
31. Sternum	X	(RAO)	
32. Sternoclavicular Joint			X
33. Skull PA Caldwell	Lateral	AP Axial Towne	SMV
34. Sinuses PA Caldwell	Lateral	Waters	SMV
35. FBones PA Caldwell	Lateral	Waters	X
36. Mandible PA	Lateral	Axiolateral	AP Axial Towne
37. Zygomatic Arches	Tangential (unilateral)	AP Axial Towne	SMV
Fluoroscopy			
BE Single Contrast kVp	BE Double Contrast kVp	UGI (Barium Swallow) kVp	IVP kVp