Breast Contouring
RADCOMP Consortium

v.3
February 23, 2016
Overview

• This atlas is intended as a tool to provide guidance
• It is not required that all volumes be treated. This is at the discretion of the treating physician
• Volumes should also be adjusted as investigators deem appropriate for an individual patient
• Please contact Shannon MacDonald or Oren Cahlon for questions regarding volumes @ smacdonald@partners.org or cahlono@mskcc.org
General Guidelines

• **Supraclavicular LN** - cranial border below the cricoid; caudal border should connect to IMN (includes subclavian vein); anterior at dorsal surface of the sternocleidomastoid, calvicle or strap muscles; posterior at scalenus (anterior & medial), levator scapulae, posterior edge of sternocleidomastoid (or meeting the posterior neck volume) & vascular region/no more posterior than pleura; medial at medial edge of carotid artery; lateral at lateral edge of sternocleidomastoid, clavicle & connecting to level III axilla
General Guidelines

- **Posterior neck LN** - this is an optional volume based on recent patterns of relapse studies and may be drawn contiguously as a portion the supraclavicular volume or as a separate volume. Cranial border should be below the cricoid; caudal at obliteration of fat space; anterior at supraclavicular volume; posterior at the trapezius; medially at the longus coli and; lateral at platysma, level 2/3 or scapula

- **Level 3 LN** - cranial at or below pectoralis minor insertion on coracoid; caudal at obliteration of fat space between pectoralis major and chest wall; anterior at posterior pectoralis major; posterior at chest wall; medial at obliteration of fat space and the supraclavicular volume; lateral at level 2/medial border of pectoralis minor
General Guidelines

- **Level 2 LN** - cranial at or below pectoralis minor insertion on coracoid; caudal at obliteration of fat space between pectoralis major and pectoralis minor or chest wall (may include pectoralis minor muscle for ease of contouring); anterior at posterior pectoralis major; posterior at chest wall; medial at medial border of pectoralis minor/level III axilla; lateral at level 1/lateral border of pectoralis minor
General Guidelines

- **Level 1 LN** - cranial should include axillary vessels at lateral edge of pectoralis minor & below the humeral head; caudal at the point where the pectoralis major inserts on the ribs (difficult to see on CT and requires some clinical judgment; around 4th to 5th rib); anterior at posterior pectoralis major or skin; posterior at anterior border of subscapularis and latissimus dorsi; medial at lateral border of pectoralis minor/level II axilla; lateral at latissimus dorsi, at line connecting latissimus dorsi and deltoid or up to skin.
General Guidelines

- **IMN** - cranial at inferior supraclavicular volume or caudal to head of clavicle; caudal at cranial border of 4th rib; anterior at posterior chest wall; posterior to pleura (include fat but no lung) medial at sternum; lateral to include any visible fat
- **Chest Wall** – cranial inferior to head of clavicle; caudal approximately 1-2 cm below breast tissue (or prior breast tissue); anterior – skin; posterior up to but not including ribs; medial to sternum; lateral to mid-axillary line. Please note that for cases not including level 1 & 2 axilla chest wall may extend more posterior.
RADCOMP Atlas Committee

Shannon MacDonald, Lee Choonsik, Marcio Fagundes, Steven Feigenberg, Alice Ho, Rachel Jimenez, Atif Khan, Robert Mutter, Justin Bekelman, and Oren Cahlon
Cardiac Structures

- Left Ventricle
- Right Atrium
- Right Ventricle
- Heart
- Left Anterior Descending Artery Region
- Right Coronary Artery Region