

LOGIC RULES for ROCKETS

General:

- If "vi. Type of tumour" is "Unilocular" or "Multilocular" → "v. Max diameter of the largest solid part" should be always 0
- If "vi. Type of tumour" is "Unilocular" or "Multilocular" → M3 cannot be present, B2 cannot be present
- If "vi. Type of tumour" is "Unilocular" or "Multilocular" → "xiv. Number of papillations" should be always "0"
- If "vi. Type of tumour" is "Solid" → "ix. Presence of a purely solid tumour (80% solid or more as IOTA defined)" should be "yes"
- If "vi. Type of tumour" is "Solid" AND "viii. Irregular internal cyst walls" is "yes" → "M1: Irregular solid mass" should be "yes"
- If "vi. Type of tumour" is "Unilocular" → B1 has to be "yes"
- "v. Max diameter of the largest solid part" cannot be larger than "iv. Max diameter of lesion"
- If "vii. Presence of ascites" is "yes" → "M2 Presence of ascites" should be "yes"
- If "xi. Colour score of blood flow" is "1" → "B5: No blood flow (colour score 1)" should be "yes"
- If "xi. Colour score of blood flow" is "4" → "M5: Very strong blood flow (colour score 4)" should be "yes"
- If "xii. Presence of acoustic shadows" is "yes" → "B3: Presence of acoustic shadows" should be "yes"
- If "xiv. Number of papillations" is "4 or more" → "M3: At least four papillary structures"

should be “yes”

- If “xiv. Number of papillations” is > 0 \rightarrow “viii. Irregular internal cyst walls” should be “yes”
- If “xiii. Number of cyst locules” is > 10 \rightarrow “vi. Type of tumour should be multilocular OR multilocular-solid.
- If “xiii. Number of cyst locules” is > 10 \rightarrow Simple Rules: M1 and B1 cannot be present
- If “vi. Type of tumour” is “Solid” \rightarrow “xiii Number of cyst locules should be smaller or equal to 10”

- **Simple Rules:**

Features that cannot be both present because inconsistent:

B1 and M1
M1 and M4
M1 and B4
B1 and M4
B1 and B4
B1 and M3
M5 and B5
B4 and M3
B4 and M4