Form completed by: Name (CAPS):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Signature:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_/\_\_\_/\_\_\_\_\_

MCRN (if applicable):\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Contact number(s):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Referral Form to the Specialist Liver Cancer Service at SVUH**

Liver Cancer Services, Liver Unit, St. Vincent’s University Hospital, Elm Park, Dublin 4, D04T6F4

Email: livercancer@svhg.ie, Tel: 012213671, or switchboard (01) 2214000, Bleep 477

**Reason for Referral**

1) MDT Discussion only  2) MDT discussion and specialist clinic review 

3) MDT discussion, clinic review and treatment  4) MDT discussion and ongoing care 

**Patient Details**

First Name: \_\_\_\_\_\_\_\_\_\_\_ Surname:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

DOB: \_\_\_/\_\_\_\_/\_\_\_\_\_ Hospital No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Tel: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Mobile: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Male Female Wheelchair assistance: Y / N

First language: \_\_\_\_\_\_\_\_\_\_ Interpreter required: Y / N

**Consultant & GP Details**

Referring Consultant: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

MCRN: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hospital: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Tel (mobile): \_\_\_\_\_\_\_\_\_\_\_\_\_ Email: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

GP Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Tel: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

GP Address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Clinical Details**

**Liver lesion identified: On surveillance programme  Incidental pick-up  Symptomatic pick-up **

Working diagnosis: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Patient aware of diagnosis: Y / N Date of Presentation: \_\_\_/\_\_\_/\_\_\_

Presenting symptoms: Pain Weight loss Nausea / vomiting Pruritis Jaundice Anaemia

Ascites Hepatic Encephalopathy Haematemesis / PR bleeding Other:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Patient weight: \_\_\_\_kg Weight loss: \_\_\_\_kg Height: \_\_\_\_ BMI: \_\_\_\_ Smoker: Y / N Ex-smoker: Y / N

Liver Disease: Y / N, ALD Fatty Liver HCV HBV AIH PSC PBC Other:\_\_\_\_\_\_\_\_\_\_ Cirrhosis: Y / N MELD score: \_\_\_\_\_\_\_ CTP Score: \_\_\_\_\_\_\_ ECOG: \_\_\_\_\_\_\_

Alcohol: Y / N, Units per week: \_\_\_\_\_\_\_ Abstinent: Y / N, How long:\_\_\_\_\_\_\_ PEth level: \_\_\_\_\_\_\_

Medical / Surgical history:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Medications: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Anticoagulants / Antiplatelets: Y / N Allergies: Y / N Details: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

















**Investigations**

Bloods\*: (please include) FBC U&E LFTs Coag AFP Ca 19.9

|  |  |  |  |
| --- | --- | --- | --- |
| INVESTIGATION | HOSPITAL | DATE | SENT (√) |
| 4 phase CT Liver\* |  |  |  |
| MRI Liver Gadolinium\* |  |  |  |
| MRI Liver Primovist |  |  |  |
| CT Thorax |  |  |  |
| CT Abdomen / Pelvis |  |  |  |
| Cholangiography |  |  |  |
| Liver lesion biopsy |  |  |  |
| Other: |  |  |  |

Please send completed referral form with Liver Cancer MDT Coordinator, Liver Unit, St. Vincent’s University

minimum dataset\* (overleaf) for discussion to: Hospital, Elm Park, Dublin 4. Email: livermedmdtt@svhg.ie

Please send Pathology Dr. Niamh Nolan, Dept. of Pathology,

(**slides, blocks and reports**) to: St. Vincent’s University Hospital, Elm Park, Dublin 4













**Liver Cancer Referral Pathway & Timeline**



***Thank you for forwarding completed forms and results, failure to provide all the relevant information will cause delays for your patient’s case discussion.***

**\*Minimum dataset required for discussion**

1. Completed referral form (overleaf)
2. Multiphasic liver imaging:

(a) 4 phase CT Liver¹ ***OR***

(b) MRI Liver with contrast² (***preferably*** an extracellular agent)

with the scan report

1. Bloods: FBC, U&E, LFT, INR, AFP and Ca 19.9
2. Histology not essential, but if available please send for review

.

**²MRI Liver with Contrast Protocol, SVUH**

Recommended Equipment:

* 1.5T or 3T
* Torso phased-array coil

Recommended Contrast (preferably an extracellular agent):

* MRI with extracellular agents (ECA) e.g Clariscan (2mls/sec)
* MRI with hepatobiliary agents (HBA) e.g. Primovist (1mls/sec)

Required Images:

* Localiser
* T2\_Coronal e.g. Trufi
* Unenhanced T1-weighted OP and IP imaging in axial plane e.g. fl2d
* T2-weighted imaging with Fat Saturation in axial plane e.g. blade\_fs
* T2-weighted & long t2-weighted in axial plane e.g. Haste
* Non-contrast T1-weighted imaging with Fat Saturation in axial plane e.g. Vibe\_FS
* Post contrast T1-weighted imaging with Fat Saturation in axial plane e.g. Vibe\_FS:
* Arterial phase (late arterial phase strongly preferred) – subtraction performed
	+ Portal venous phase – subtraction performed
	+ Delayed phase – subtraction performed
* DWI imaging in axial plane
* 5 min delayed T1-weighted imaging with Fat Saturation in axial plane e.g. Vibe\_FS
* Hepatobiliary agent – 20mins delayed T1-weighted imaging with Fat Saturation in axial plane

**¹4 Phase CT Liver Protocol, SVUH**

Oral Contrast: None required

IV Contrast: 130-150mls Omnipaque 350mg l/ml at 4mls / sec

Four Phases:

1. Non Contrast Liver
2. Late arterial phase liver

Timing: Bolus tracking in the aorta at the level of the SMA (L1), scan 15 seconds after the aorta reaches 100HU. Aim to scan 35-40 secs post contrast

1. Portal venous phase diaphragm to iliac crest

Timing: 65-70 seconds post contrast injection

1. Delayed phase Liver

Timing 5 minutes post contrast injection

Reconstruction: All phases should be reconstructed in 1mm axial slices