Healthcare professional/care guide – How to complete MUST

1 Current weight (record weight in kilograms) - Weigh patient at least once per month and record on MUST chart

• **Record if the patient has oedema** (fluid swelling seen often in the feet and legs) as presence of oedema means that weight will not be accurate. In this case measure MUAC as well as weight (see 3)

* Patient can't be weighed? Record reason why patient can't be weighed. Measure and record mid upper arm circumference (MUAC) (see ③ & MUST alternative measurements - MUAC) *NB MUAC will not generate a MUST score*

• If different scales are needed (e.g. chair or hoist scales) raise this with team lead **NB** care homes have a duty of care to their residents to weigh them regularly, even if this requires purchase of different scales

2 Current <u>height</u> (record height in metres) – Complete on admission only and record on MUST chart

- Measuring standing height is most accurate but is often impossible to do accurately in a care home setting or in the patient's own home
- The next most accurate way of finding height is by recall (remembered/recorded) this can be recalled by the patient, a relative or from the patients GP records
- The least accurate way of finding height is by measuring ulna length ulna length measurement should only be used when it is not possible to measure height or obtain height by recall, or when a recalled height does not seem to match the patients appearance (see MUST alternative measurements Ulna length)

3 <u>BMI score</u> – Complete once per month

Follow a. b. c. below and USE THIS TABLE

- a. Find the patients height on the left hand side of the table
- b. Follow the arrow to the right of the patients height (being sure not to cross any black line) and find which of the 3 colours contains the patients current weight
 - Red = Score 2 (BMI <18.5)
 - Yellow = Score 1

0

(BMI 18.5 – 20)

- Green = Score 0 (BMI >20)
- c. Record this score on MUST chart

For example If a patient is 1.65m (5'5") tall and weighs 49kg (Red <50.4kg) then their BMI Score will be 2

* Patient has oedema (see 1)? Remember that their BMI score will not be accurate

* Patient has had an amputation? Multiply current weight (in

- kg) by: 1.18 if whole leg amputated
 - 1.1 if leg amputated above knee
 - 1.063 if leg amputated below knee
 - 1.05 if whole arm amputated
 - 1.022 if arm amputated below elbow

And use **this figure (weight)** and patients height to find BMI score

 * Patient cannot be weighed? Use mid upper arm circumference (MUAC) to estimate whether BMI is likely to be
 >20 or < 20 (See MUST alternative measurements – MUAC)

* Need to measure MUAC? (See MUST alternative

measurements – MUAC) MUAC of less than 23.5cm indicates BMI is less than 20 (underweight); MUAC of more than 23.5cm indicates BMI is more than 20 (normal weight) **NB** *MUAC will not generate a BMI score*

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BMI score							
He	Height Weight range (kg)						
(ft)	(m)	(< = less th	an) (> = m	ore than)			
6'3	1.90	<66.8 kg	66.8 – 72.2kg	>72.2kg			
6′2½	1.89	<66.1 kg	66.1 – 71.4kg	>71.4kg			
6'2	1.88	<65.4 kg	65.4 – 70.7kg	>70.7kg			
6'1½	1.86	<64.0 kg	64.0 – 69.2kg	>69.2kg			
6'1	1.85	<63.3 kg	63.3 – 68.5kg	>68.5kg			
6′0½	1.84	<62.6 kg	62.6 – 67.7kg	>67.7kg			
6'0	1.82	<61.3 kg	61.3 – 66.2kg	>66.2kg			
5′11½	1.81	<60.6 kg	60.6 – 65.5kg	>65.5kg			
5′11	1.80	<59.9 kg	59.9 – 64.8kg	>64.8kg			
5′10½	1.79	<59.3 kg	59.3 – 64.1kg	>64.1kg			
5'10	1.77	<58.0 kg	58.0 – 63.4kg	>63.4kg			
5'9½	1.76	<57.3 kg	57.3 – 62.0kg	>63.0kg			
5'9	1.75	<56.7 kg	56.7 – 61.3kg	>61.3kg			
5'8½	1.74-	<56.0 kg	56.0 – 60.6kg	>60.6kg			
5'8	1.72	<54.7 kg	54.7 – 59.2kg	>59.2kg			
5′7½	1.71-	<54.1 kg	54.1 – 58.5kg	>58.5kg			
5'7	1.70	<53.5 kg	53.5 – 57.8kg	>57.8kg			
5′6½	1.68	<52.2 kg	52.2 – 57.1kg	>57.1kg			
5'6	1.67	<51.6 kg	51.6 – 56.4kg	>56.4kg			
5′5½	1.66	<51.0 kg	51.0 – 55.1kg	>55.1kg			
5'5	1.65	<50.4 kg	50.4 – 54.5kg	>54.5kg			
5′4½	1.63	<49.2 kg	49.2 – 53.1kg	>53.1kg			
5'4	1.62	<48.6 kg	48.6 – 52.5kg	>52.5kg			
5′3½	1.61	<48.0 kg	48.0 – 51.8kg	>52.8kg			
5'3	1.60	<47.4 kg	47.4 – 51.2kg	>51.2kg			
5′2½	1.58-	<46.8 kg	46.8 – 50.6kg	>50.6kg			
5'2	1.57	<46.2 kg	46.2 – 50.0kg	>50.0kg			
5′1½	1.56	<45.0 kg	45.0 – 49.1kg	>49.1kg			
5'1	1.54	<43.2 kg	43.2 – 47.4kg	>47.4kg			
5′0½	1.53	<43.3 kg	43.3 – 46.8kg	>46.8kg			
5'0	1.52	<42.7 kg	42.7 – 46.2kg	>46.2kg			
4'11½	1.51	<42.2 kg	42.2 – 45.6kg	>45.6kg			
4'11	1.49	<41.1 kg	41.1 – 44.4kg	>44.4kg			
4'10	1.47	<40.0 kg	40.0 – 43.2kg	>43.2kg			
4'9½	1.46	<39.4 kg	39.4 – 42.6kg	>42.6kg			

Weight loss score – Complete once per month	Weight loss score						
Look at nationts weight record and find the nationts highest	Highest weight Current weight (kg)						
weight in last 6 months then:	in <u>last 6</u>	/ I) (.				
	20	< = less tha	n) (> = n	Nore than)			
	30	<22.0	27.0 - 28.3	>20.3			
a. On the left hand side of the table find the weight closest to the	34	<30.6	30.6 - 32.3	>32.3			
	36	<32.0	32.4 - 34.2	>34.2			
* Less than 6 months weights available? Check that previous weight	38	<34.2	34 2 - 36 1	>36.1			
the weights available	40	<36.0	36.0 - 38.0	>38.0			
* Only have weight history from more than 6 months ago? Use	42	<37.8	37.8 – 39.9	>39.9			
most recent weight available and current weight	44	<39.6	39.6 - 41.8	>41.8			
* No previous weights known? Use subjective data as detailed	46 →	<41.4	41.4 - 43.7	>43.7			
below to estimate whether patient has recently lost a significant	48	<43.2	43.2 – 45.6	>45.6			
amount of weight NB this will not generate a Weight loss score	50	<45.0	45.0 – 47.5	>47.5			
b. Follow the arrow to the right of the highest weight in last 6	52	<46.8	46.8 — 49.4	>49.4			
months (being sure not to cross any black line) and find which of	54	<48.6	48.6 - 51.3	>51.3			
the 3 colours contains the patients current weight	56	<50.4	50.4 - 53.2	>53.2			
 Red = Score 2 (>10% weight loss) 	58	<52.2	52.2 – 55.1	>55.1			
• Yellow = Score 1 (5-10% weight loss)	60	<54.0	54.0 – 57.0	>57.0			
 Green = Score 0 (<5% weight loss) 	62	<55.8	<u> 55.8 – 58.9</u>	>58.9			
c. Record this score on MUST chart	64	<57.6	57.6 - 60.8	>60.8			
For example If a natients highest weight in the last 6 months	66	<59.4	<u> 59.4 – 62.7</u>	>62.7			
was 54.5kg (54kg) and they now weigh 49kg (Yellow 48.6 –	68	<61.2	<u>61.2 – 64.6</u>	>64.6			
51.3kg) then their Weight Loss Score will be 1	70	<63.0	63.0 - 66.5	>66.5			
* Can only measure MUAC2 MUAC will not generate a Weight loss	72	<64.8	64.8 – 68.4	>68.4			
score but can show if weight is increasing or decreasing (See MUST	74	<66.6	66.6 – 70.3	>70.3			
alternative measurements – MUAC)	76	<68.4	68.4 – 72.2	>72.2			
* Patient currently has or recently had oedema (see ①)?	78	<70.2	70.2 – 74.1	>74.1			
Remember that their weight loss score may not be accurate	80	<72.0	72.0 - 76.0	>76.0			
* No previous weights? Use subjective data (see below) to estimate	82	3.8</td <td>/3.8 - //.9</td> <td>>/7.9</td>	/3.8 - //.9	>/7.9			
whether patient has lost a significant amount of weight recently NB	84	5.6</td <td>/5.6 - /9.8</td> <td>>/9.8</td>	/5.6 - /9.8	>/9.8			
this will not generate a Weight loss score		<70.2	70.2 82.6	>01.7			
Subjective data can include:		<79.2	79.2 - 85.0	>05.0			
• Patient or carer reports weight loss within the last 6 months	92	<87.8	82 8 - 87 4	>87.4			
a Loose clothes dontures or rings (that fitted 2C months are)	94	<84.6	84.6 - 89 3	>89.3			
Consectiones, dentares of migs (that nitled 3 - 6 months ago)	96	<86.4	86.4 - 91.2	>91.2			
 Ongoing poor food intake 	98	< <u>88.2</u>	88.2 - 93.1	>93.1			
	100	<90.0	90.0 - 95.0	>95.0			
 Acute disease effect score – complete once per month Score = 0 for almost all patients in the community Score = 2 <u>only</u> if patient is acutely ill <u>and</u> has had or is likely to have 	<u>no</u> nutritional in	ntake for m	ore than 5 da	γs			
A MUST seeve add together DNAL seeve weight has seen a		no Comula	***	north			
witosi score - aud together bivil score, weight loss score & acute d		e – comple	ere once per r	hour			
 In the community it is very unlikely that this number will be greater steps may not have been completed correctly. 	unan 4. IT it is gre	eater than 4	, one of the a	bove			
steps may not have been completed correctly							
 MUSI score 0 = Low risk of malnutrition 							
 MUST score 1 = Medium risk of malnutrition 							
 MUST score 2 or more = High risk of malnutrition 							
 If patient cannot be weighed, use MUAC (See MUST alternative measurements – MUAC) and subjective data (See to decide whether to treat patient as Low, Medium or High risk 							
NOW FOLLOW MUST MANAGEMENT GUIDELINES							