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Supplementary Methodology Tables

Supplementary Table S1. Variables used to define demographic and clinical characteristics

Variable	Definition
Diagnosis year	In categories or by year
Age at diagnosis (Years)	 Continuous Mean (standard deviation) Median (interquartile range) Categories (<65, 65–75, >75)
Calendar year of diagnosis MPM	2011–2018 by year or in clinically/diagnostically relevant period
Sex	MaleFemale
Other malignancy	Any available history of another primary malignancy (Yes/No)
Comorbidity profile	Charlson Comorbidity Index (CCI) score [1] Comorbidities will be reported by the CCI, which will be calculated based on comorbidities based on diagnoses in the Danish National Patient Registry. A baseline CCI score will be calculated at index date, where each comorbidity has a specific weight and may be categorized into 3 levels (index score in parenthesis): low (0), medium (1–2) and high (>2) giving patients a value from 0 to 17 where 0 indicates no comorbidities and 17 indicates all comorbidities. Individual CCI comorbidities will be reported.
	Comorbid conditions: yes/no (if known) Parenchymal asbestosis Pleural abnormalities Other
Disease stage	 TNM staging will be used to define disease stage where available TNM stage as well as the detail of the T, N and M combination will be provided
Disease status at diagnosis	 Non-advanced MPM Advanced MPM Unknown MPM stage
Metastasis	 Metastasis at diagnosis date (Yes/No) Number of metastatic organ sites at index date (1,2,3) Location of metastases (at time of diagnosis and at time of regimen start): Non-visceral (Yes/No) Lymph nodes (Yes/No) Skin and soft tissue (Yes/No) Bone (Yes/No) CNS (brain and spinal cord) (Yes/No) Brain (Yes/No) Visceral Liver (Yes/No) Lung (Yes/No) All other locations (Yes/No)

^{1.} Charlson ME, Pompei P, Ales KL, et al. A new method of classifying prognostic comorbidity in longitudinal studies: development and validation. J Chronic Dis. 1987;40(5):373-383.

CCI, Charlson Comorbidity Index; CNS, central nervous system; MPM, malignant pleural mesothelioma; RT, radiotherapy; SACT, systematic anti-cancer therapy; TNM, tumour, node, metastasis.

Supplementary Table S2. Variables used to define treatment patterns

Variable	Definition
Treatment modality	Treatment modalities were described using the following categories (not
during the 180 days	mutually exclusive):
following initial	 Any surgery (Yes/No) (all combinations at any time during follow-up)
MPM diagnosis	 Any SACT treatment (Yes/No) (all combinations at any time during follow-up)
	 Any RT (Yes/No) (all combinations at any time during follow-up)
Initial treatment	Categories including combination therapies mutually exclusive:
during 180 days	 Any surgery (as initial treatment) (Yes/No)
following initial	Any RT (as initial treatment) (Yes/No)
MPM diagnosis	Any SACT (as initial treatment) (Yes/No)
Surgery type	Variable categories:
(Surgery with radical	Decortication of pleura
intent only) during	Unspecified open excision of pleura
180 days following	Open excision of lesion of pleura
initial MPM	Other specified open excision of pleura
diagnosis	Total pneumonectomy
Initial treatment	For incident MPM patients, the current study described the initial treatment
categories during	category, which is the treatment and regimens started during 180 days after the
180 days following	initial MPM diagnosis.
initial MPM	
diagnosis	Initial treatment is defined as the first treatment following diagnosis.
	It was defined using the following categories:
	Surgery and SACT
	Surgery and RT and SACT
	Surgery alone or surgery and RT
	RT alone
	SACT alone
	SACT and RT
	 No treatment (no surgery and no RT and no SACT)
First regimen	For all patients (including non-advanced, advanced and unknown MPM stage),
following initial	the SACT regimen received at any time during initial treatment was described.
treatment during	
180 days following	
initial MPM	
diagnosis	
Time from diagnosis	Time from diagnosis until date of initiation of the treatment:
to treatment	Continuous (mean with SD, median with quartiles)
initiation	• 0–45 days
	• 46–90 days
	•
	• 91–180 days
First regimen following initial treatment during 180 days following initial MPM diagnosis Time from diagnosis to treatment	It was defined using the following categories: Surgery and SACT Surgery and RT and SACT Surgery alone or surgery and RT RT alone SACT alone SACT and RT No treatment (no surgery and no RT and no SACT) For all patients (including non-advanced, advanced and unknown MPM stage), the SACT regimen received at any time during initial treatment was described. Time from diagnosis until date of initiation of the treatment: Continuous (mean with SD, median with quartiles) O-45 days 46-90 days

MPM, malignant pleural mesothelioma; RT, radiotherapy; SACT, systematic anti-cancer therapy.

Supplementary Results Tables

Supplementary Table S3. Initial treatment therapy combinations for patients with MPM.

		Non- advanced	Advanced	Unknown
	All	MPM	MPM	stage MPM
	(N=880)	(n=325)	(<i>n</i> =390)	(<i>n</i> =165)
Therapy combination, n (%)				
Surgery and SACT (and no RT)	45 (5)	35 (11)	5 (–)	5 (–)
Surgery alone or surgery + RT (no				
SACT)	90 (10)	45 (15)	25 (6)	15 (10)
RT alone	60 (7)	15 (4)	35 (9)	10 (7)
SACT alone	195 (22)	65 (21)	90 (24)	35 (21)
SACT and RT (no surgery)	35 (4)	10 (3)	20 (5)	5 (–)
No treatment	455 (52)	150 (46)	215 (54)	95 (57)

MPM, malignant pleural mesothelioma; RT, radiotherapy; SACT, systematic anti-cancer therapy.

Supplementary Table S4. Clinical characteristics of patients with MPM not treated within 180 days after MPM diagnosis, both overall and by patient group.

		Non-		
		advanced	Advanced	Unknown
	All	MPM	MPM	MPM stage
	(N=455)	(n=150)	(n=215)	(<i>n</i> =95)
Year of diagnosis, n (%)				
2011	75 (16)	30 (20)	40 (18)	5 (–)
2012	80 (18)	35 (22)	45 (20)	5 (–)
2013	65 (14)	25 (16)	30 (13)	15 (15)
2014	65 (15)	20 (12)	30 (14)	20 (22)
2015	75 (17)	25 (17)	35 (17)	15 (17)
2016	45 (10)	10 (7)	20 (9)	15 (18)
2017	30 (7)	5 (–)	15 (–)	10 (13)
2018	10 (3)	5 (–)	5 (–)	0 (>0)
Male, n (%)	375 (82)	125 (83)	175 (82)	75 (82)
Age group, n (%)				
<65	80 (18)	25 (15)	45 (21)	15 (14)
65–74	160 (35)	60 (41)	70 (33)	30 (31)
≥75	215 (47)	65 (44)	100 (46)	50 (55)
Age at MPM diagnosis, years				
Median	74.1	73.4	74.0	75.8
IQR	67.9–79.4	68.1–78.4	67.2–79.2	71.0–81.0
Died within 180 days, n (%)	150 (32)	30 (20)	85 (40)	35 (35)
Follow-up time, months				
Median	10.9	13.9	8.2	12.2
IQR	4.0–21.7	7.1–27.2	3.1–19.0	3.4–23.5
CCI, n (%)				
Low (0)	235 (52)	90 (59)	100 (47)	45 (51)
Medium (1–2)	160 (36)	45 (29)	85 (41)	30 (34)
High (>2)	60 (13)	20 (13)	25 (12)	15 (15)
Histology, n (%)				
Biphasic	170 (37)	60 (39)	80 (38)	30 (34)

		Non-		
		advanced	Advanced	Unknown
	All	MPM	MPM	MPM stage
	(N=455)	(n=150)	(<i>n</i> =215)	(<i>n=</i> 95)
Epithelioid	155 (34)	70 (47)	55 (26)	30 (31)
Sarcomatoid	40 (9)	0	40 (18)	0
Not specified	95 (20)	20 (15)	40 (18)	30 (34)
TNM stage, n (%)				
I–II	135 (30)	125 (83)	10 (–)	0
III	110 (24)	25 (16)	85 (41)	0
IV	100 (22)	0	100 (47)	0
Unknown	105 (23)	0	10 (–)	95 (100)

All frequencies rounded to nearest 5, also affecting reported percentages. (–) indicates that percentages are not reportable to prevent back-calculation of potentially identifiable data

CCI, Charlson Comorbidity Index; IQR, interquartile range; MPM, malignant pleural mesothelioma; TNM, tumour, node, metastasis; Q, quartile.

Supplementary Table S5. Clinical characteristics of patients with MPM treated within 180 days after MPM diagnosis, both overall and by patient group.

		Non-		
		advanced	Advanced	Unknown
	All	MPM	MPM	MPM
	(N=420)	(n=175)	(n=180)	(<i>n=</i> 70)
Year of diagnosis, n (%)				
2011	40 (9)	20 (12)	15 (9)	5 (–)
2012	40 (9)	10 (6)	20 (12)	10 (11)
2013	40 (9)	20 (10)	15 (8)	5 (–)
2014	50 (12)	20 (11)	25 (13)	10 (13)
2015	55 (13)	25 (14)	20 (11)	10 (13)
2016	65 (16)	30 (17)	25 (14)	10 (17)
2017	95 (23)	35 (21)	40 (22)	20 (30)
2018	35 (9)	15 (9)	20 (11)	5 (–)
Male, n (%)	345 (82)	135 (79)	150 (83)	60 (85)
Age group, n (%)				
<65	125 (30)	60 (34)	45 (26)	20 (31)
65–74	185 (44)	85 (49)	80 (44)	25 (32)
≥75	110 (26)	30 (17)	55 (30)	25 (37)
Age at MPM diagnosis, years				
Median	69.2	68.3	69.8	70.5
IQR	63.8–75.2	63.4–73.6	64.4–76.3	63.2-77.4
Died within 180 days, n (%)	60 (14)	10 (5)	45 (25)	10 (11)
Follow-up time, months				
Median	13.9	17.3	10.5	15.1
IQR	8.1–22.1	11.3–27.8	6.0–18.3	9.3–21.7
CCI, n (%)				
Low (0)	235 (55)	90 (52)	105 (59)	40 (55)
Medium (1–2)	155 (37)	65 (38)	60 (35)	30 (–)
High (>2)	30 (8)	15 (10)	10 (6)	5 (–)
Histology, n (%)				
Biphasic	175 (42)	95 (54)	50 (27)	35 (51)

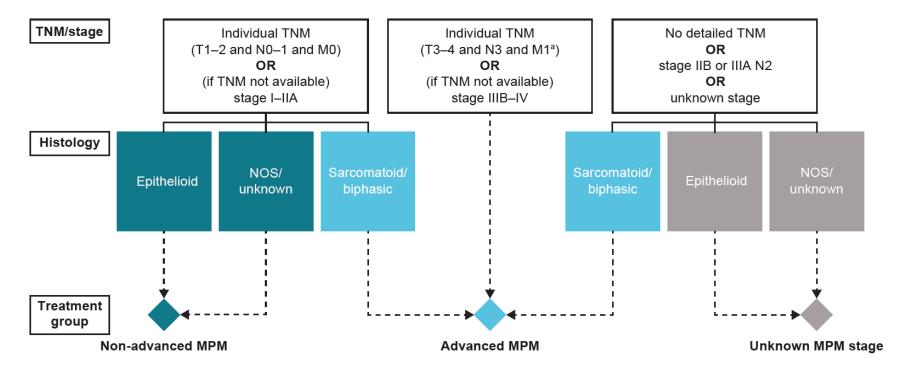
		Non-		
		advanced	Advanced	Unknown
	All	MPM	MPM	MPM
	(N=420)	(n=175)	(<i>n</i> =180)	(<i>n=</i> 70)
Epithelioid	130 (31)	55 (32)	50 (29)	25 (32)
Sarcomatoid	55 (13)	0	55 (30)	0
Not specified	60 (15)	25 (14)	25 (14)	10 (17)
TNM stage, n (%)				
I–II	175 (42)	160 (91)	15 (–)	0
Ш	85 (20)	15 (9)	70 (38)	0
IV	80 (19)	0	80 (44)	0
Unknown	85 (20)	0	15 (–)	70 (100)

All frequencies rounded to nearest 5, also affecting reported percentages. (–) indicates that percentages are not reportable to prevent back-calculation of potentially identifiable data

CCI, Charlson Comorbidity Index; IQR, interquartile range; MPM, malignant pleural mesothelioma; TNM, tumour, node, metastasis.

Supplementary Figure

Supplementary Figure S1. Definition of study cohorts*



^aOr visceral metastases -180/+180 days from MPM diagnosis.

MPM, malignant pleural mesothelioma; NOS, not otherwise specified; TNM, tumour, node, metastasis.

^{*} In a small number of cases, patients with biphasic histology and stage I–IIIA disease, who were considered to be suitable for surgery may have been recorded in patient groups that don't strictly match the defined treatment groups defined here.