

AB SCIENCE WEBCONFERENCE

MASITINIB IN PANCREATIC CANCER

II December 2020



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Presenting KOL





Julien Taieb, MD, PhD

Juline Taieb is Head of the Gastroenterology and Gastrointestinal Oncology Department at the Georges Pompidou European Hospital, Sorbonne Paris-Cité, Université Paris-Descartes. He is a regular reviewer for *Lancet Oncology, Journal of Clinical Oncology, Annals of Oncology,* and the *European Journal of Cancer*. Professor Taieb is a member of the European Society for Medical Oncology (ESMO), the American Society of Clinical Oncology, and a number of French gastrointestinal cooperative groups and societies. He has a position in the administrative council or the scientific committee of ESMO, FFCD and SNFGE. He is a member of ESMO nomination Committee since 2018. His main research topics are non-metastatic and metastatic colon cancer and pancreatic cancer. Particularly involved in clinical trials and translational research, Prof Taieb has led more than 10 national and international phase II and III studies and has authored 3 educational books, more than 200 peer reviewed publications and 500 meeting abstracts.



Oliver HERMINE, MD, PhD

Olivier Hermine is Professor of Hematology at Paris V-René Descartes University, Chief of adults Hematology staff at Hospital Necker (Paris), member of the French *Académie des Sciences* and author of over 700 international publications. He is founder and coordinator of the reference center of mastocytosis (CEREMAST). Olivier Hermine is also co-founder of AB Science and head of its scientific committee.

Scientific Rationale



Innate immune cells, in particular mast cells and macrophages, are critical components of the tumor microenvironment, promoting angiogenesis and tumor growth, and also contributing to tumorigenesis by suppression of the immune response

- There is a compelling body of evidence implicating mast cells in the orchestration of tumor microenvironment remodeling and specifically pancreatic cancer cell proliferation, invasion, and metastasis.
- An intense crosstalk between mast cells and pancreatic cancer cells contributes to the pancreatic ductal adenocarcinoma progression. Mast cells contribute to the aggressiveness of the pancreatic ductal carcinoma enhancing the expression of several pro-angiogenic factors [1].
- * Mast cell activity within the tumor microenvironment promotes disease progression via release of numerous pro-tumoral factors [2–7].
- Increased mast cell infiltration into the tumor is known to promote disease progression and is a prognostic factor for poor survival in pancreatic ductal adenocarcinoma patients [8–15].
- Mast cells down-regulate the immune response to tumors and skew polarization of tumor-associated macrophages (TAM) towards a protumoral macrophage type-2 (M2) [16–21].
- Masitinib's highly selective inhibition of mast cell survival and activation modulates mast cell related remodeling of the tumor microenvironment, thereby inhibiting tumor growth and also redirects the immune system toward an anti-tumoral TH1-type response

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Scientific Rationale



The presence of pain in pancreatic cancer is thought to flag an increased mast cell activity within the tumor microenvironment, which in turn promotes disease progression. Pain therefore effectively identifies those patients with a pro-tumoral immune response

- There is evidence that mast cell degranulation mediates cancer-induced pain and that pain is a clinical predictor of poor prognosis in pancreatic cancer.
- * Mast cell infiltration is strongly implicated with development of neuropathic pain in pancreatic ductal adenocarcinoma patients [1].
- Mast cells contribute to pancreatic carcinoma-induced visceral hypersensitivity through enrichment and degranulation in pericarcinoma tissues [2].
- ***** Mast cells within the cancer microenvironment potentiate and prolong protease-induced cancer pain [3].
- Considerable neural remodeling of intrapancreatic nerves is observed in pancreatic ductal adenocarcinoma patients experiencing pain and perineural invasion has also detected in the early stages of pancreatic cancer, which is associated with pain, increased tumor recurrence and diminished overall survival [4,5].
- Pain intensity correlates to disease progression and significantly poorer survival rate in pancreatic cancer [5-10]

References

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Masitinib Profile and Mechanism of Action



Orally-administered kinase inhibitor selectively targeting mast cells and macrophages

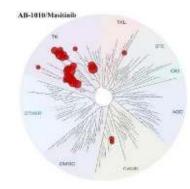
Masitinib targets mast cells

- Masitinib is a potent and selective inhibitor of c-Kit, Lyn, and Fyn kinases. These kinases play critical roles in the activation of mast cells
- Mast cells are a target in neurodegenerative diseases, inflammatory diseases and in oncology

Masitinib targets macrophages/microglia

- Masitinib is a potent and selective inhibitor of MCSFR-1
- Macrophages are a target in oncology. Microglia are a target in amyotrophic lateral sclerosis and Alzheimer's disease.

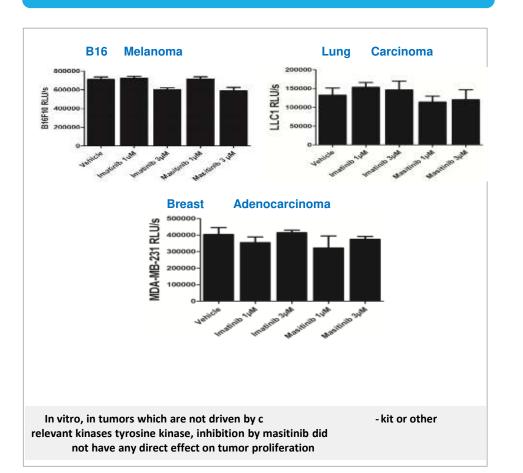
Kinase inhibition profile of masitinib								
Cellular Target	Cellular TargetMolecular TargetIC50 [nM]Kd [μN							
	KIT wild-type (WT)	20	0.008					
Mast cells	FYN	240	0.14					
	LYN	225	0.061					
Macrophages / Microglia	MCSFR-1	90	0.0076					



Pharmacology Data - Masitinib targets tumor microenvronment

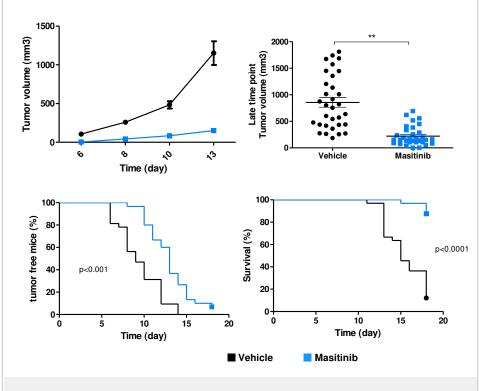


Masitinib has no direct "tumor killer" general activity but has shown efficacy on tumor proliferation in vivo, mediated through the tumor micro-environment



No direct effect on tumor cells in vitro...

...but decreases tumor volume growth in vivo



In vivo, the observed anti-tumor activity is therefore mediated through the tumor microenvironment.

Masitinib Clinical Development Plan in Pancreatic Cancer



The development program in pancreatic cancer is comprised of one proof of concept study *(published)*, one hypothesis generating study *(published)* and one pivotal study

Phase	Study code	Design	Population	Masitinib Dosing	Primary endpoint	Patient target	Related publications
2	AB05034	Open-label, single arm study	Patients with advanced pancreatic cancer	9.0 mg/kg/day	Time to Tumor Progression (TTP)	22	Mitry, 2010
2/3	AB07012 (NCT00789633)	Prospective, double-blind, placebo-controlled, 2-parallel groups study	Patients with advanced/metastatic pancreatic cancer	9.0 mg/kg/day	Overall survival (OS)	348	Hammel, 2015
3	AB12005 (NCT03766295)	Prospective, double-blind, placebo-controlled, 2-parallel groups study	Patients with non resectable locally advanced or metastatic pancreatic cancer	6.0 mg/kg/day	Overall survival (OS)	377	-

AB07012 Hypothesis generating study



Masitinib did not demonstrate significant overall survival improvement in the overall study population, but demonstrated significant overall survival improvement in patients with pain (marker of mast cell activation) at baseline

	N	Median OS [95% CI] (months)	^a Median OS Gain (months)	HR [95% CI]	<i>P</i> -value
Overall (mITT)	348				
P + G	175	7.0 [6.1;10.6]	+0.7	0.89 [0.70;1.13]	0.695
M + G	173	7.7 [6.1;10.6]			
'Pain' subgroup	137				
P + G	73	5.4 [4.5;8.0]	+2.6	0.62 [0.43;0.89]	0.012
M + G	64	8.0 [5.8;11.5]			

- Pain decreases survival : 7.0 months OS in overall population receiving gemcitabine alone, versus 5.4 months in subgroup with pain
- Masitinib reverses this negative factor : 7.7 months OS in overall population receiving masitinib, versus 8.0 months in subgroup with pain

Publication:

P Hammel. A randomized, placebo-controlled phase III trial of masitinib plus gemcitabine in the treatment of advanced pancreatic cancer. Ann Oncol. 2015 Jun;26(6):1194-1200.

AB12005 – Study Design



Study AB12005 evaluated masitinib 6.0mg/kg/day in first line pancreatic cancer patients with pain

Design

Design:

Double-blind, 2-parallel Groups, Phase 3 Study to Compare as First Line Therapy Efficacy and Safety of Masitinib in Combination With Gemcitabine, to Gemcitabine in Combination With Placebo, in the Treatment of Patients With Non Resectable Locally Advanced or Metastatic Pancreatic Cancer

Randomisation: 2:1

Planned Enrolment: 377 patients

Primary endpoint: Overall Survival

Secondary endpoints:

- Progression Free Survival according to central RECIST criteria
- Quality of Life

Main inclusion criteria

1) Histologically or cytologically confirmed adenocarcinoma of the pancreas, non resectable locally advanced or metastatic stage

2) Patient with pain related to the disease:

- Pain defined as clinical and documented evaluation by the investigator during physical examinations.
- Pain, as assessed by the patient is defined as Visual Analogue Scale > 20mm

OR

- Patient treated with opioid analgesics at a dose ≥ 1 mg/kg/day (morphinic equivalent).
- 3) Chemotherapy naïve patient for the advanced/metastatic disease

Pain

AB12005 – Study Design



The primary analysis was prespecified in both the overall population and locally advanced tumors each tested at 2.5% level of significance

Pre-specified Analysis Plan

Statistical analysis: Alpha spending split between the overall population (2.5%) and locally advanced subgroup (2.5%).

Stratification factors

- Patients with locally advanced pancreatic cancer versus patients with metastatic pancreatic cancer (only for the overall population)
- ECOG grade 0 versus grade 1 versus grade 2
- Country

Populations analysed

• Primary analysis : mITT

The mITT population will include all ITT patients with pancreatic cancer satisfying the pain criteria (VAS > 20 and/or patients treated with opioid analgesics' dose \geq 1 mg/kg/day at baseline) who took at least one dose of study treatment (masitinib/placebo) Patient disposition (57 sites in 12 countries, incl. 6 EU countries)

Analysis Population	Overall Population	Locally advanced					
ITT Population	383	92					
One patient without study treatment excluded							
Safety Population	382	92					

Three patients without pain excluded

Modified Intention to	270	02
Treatment(mITT)	379	92

AB12005 – Baseline Characteristics



Overall Population							
	Masitinib (N = 246) n (%)	Placebo (N = 137) n (%)					
Age (Years) Mean (std) Median	61.5 (8.95) 62.0	61.9 (8.44) 62.0					
Sex [n (%)] Male Female	132 (53.7) 114 (46.3)	76 (55.5) 61 (44.5)					
ECOG 0 1 2	26 (10.6) 211 (85.8) 9 (3.7)	15 (10.9) 118 (86.1) 4 (2.9)					
C A19-9 Mean (std) Median	12 033 (67320) 413.7	4181.0 (11 699) 275.8					
Albumin Mean (std) Median	41.3 (4.64) 41.8	42.2 (5.38) 43.0					

Locally advanced							
	Masitinib (N = 62) n (%)	Placebo (N = 30) n (%)					
Age (Years)							
Mean (std)	61.2 (8.51)	63.4 (10.65)					
Median	61.5	66.5					
Sex [n (%)]							
Male	28 (45.2)	15 (50.0)					
Female	34 (54.8)	15 (50.0)					
ECOG							
0	8 (12.9)	1 (3.3)					
1	52 (83.9)	29 (96.7)					
2	2 (3.2)						
CA19-9							
Mean (std)	686 (1263)	871 (1386)					
Median	194.0	258.0					
	171.0	200.0					
Albumin							
Mean (std)	42.1 (3.63)	43.6 (3.99)					
Median	42.4	43.8					

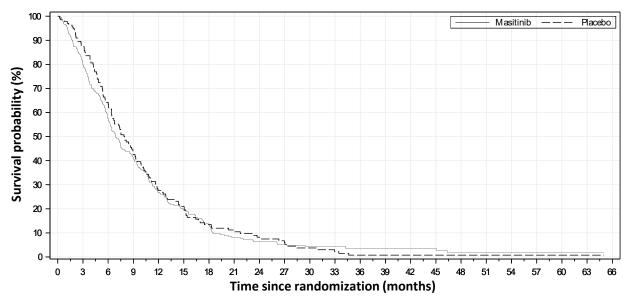
AB12005 – Overall Survival



There was no benefit in the overall population, yet the study met its primary endpoint with significant OS increase (+1.8 months median, p=0.007, below 2.5%) in population with locally advanced tumors

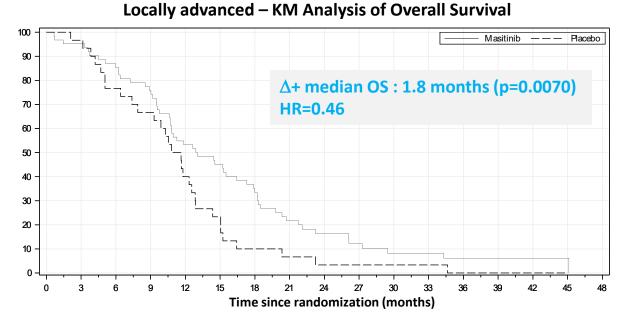
No benefit on survival in the Overall Population

Overall Population – KM Analysis of Overall Survival - mITT



						Haz	ard
Treatment group	Total	No. of Events	% censored	Median 97.5% Cl	Log Rank	Ratio (97.5 CI)	p-Value
Masitinib	244	235	3.69	6.9 [6.1;8.1]	0.4614	1.16	0.1844
Placebo	135	133	1.48	8.0 [6.4;9.2]		(0.9,1.4)	

54% risk reduction of time to death in locally advanced



					p-value	Haz	ard
Treatment group	Total	No. of Events	% censored	Median 97.5% Cl	Log Rank	Ratio (97.5 CI)	p-Value
Masitinib	62	57	8.06	13.0 [11; 18]	0.0070	0.46 (02,0.9) 0.0047	0.0047
Placebo	30	30	0.00	11.2 [7.4; 13]			0.0047

.13

AB12005 - Survival rate



18-month survival rates was 33.9% with masitinib versus 10.0% with the control arm, and 2-year survival rate was 14.5% with masitinib versus 3.3% with the control arm in population, with locally advanced tumors

4.4 fold increase in 2-year survival rate in locally advanced

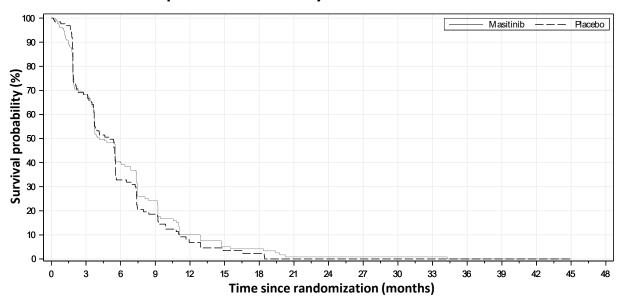
Survival rate	Masitinib	Placebo	Ratio of improvement
6 months	85.5	76.7	1.1
12 months	53.2	40.0	1.3
18 months	33.9	10.0	3.4
24 months	14.5	3.3	4.4

AB12005 – Progression Free Survival



PFS was consistent with survival results, with significant PFS increase (+1.8 months, p=0.0391) in the pre-specified population with locally advanced tumors and no benefit in overall population

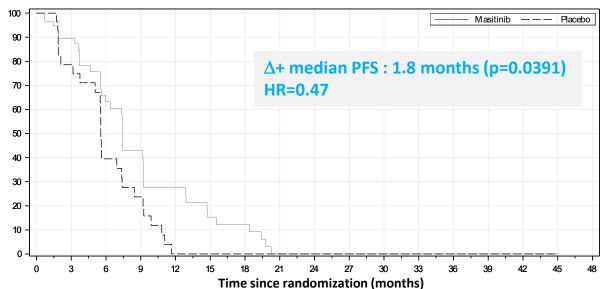
No benefit on PFS in the Overall Population



						Haz	ard
Treatment group	Total	No. of Events	% censored	Median 95% Cl	Log Rank	Ratio (CI)	p-Value
Masitinib	244	157	35.66	4.1 [3.7;5.6]	0.9604	1.00	0.9788
Placebo	135	113	16.30	5.1 [3.7;5.5]		(0.8,1.3)	

Overall Population – KM Analysis of PFS - mITT

53% risk reduction of time to progression in locally advanced



Locally advanced – KM Analysis of PFS

						Hazard	
Treatment group	Total	No. of Events	% censored	Median 95% Cl	Log Rank	Ratio (CI)	p-Value
Masitinib	62	38	38.71	7.4 [5.6;9.2]	0.0391	0.47	0.0136
Placebo	30	26	13.33	5.6 [5.1;7.4]		(0.3,0.9)	

AB12005 – Response rate



Response rate was in favor of masitinib and consistent with PFS and survival results

1 complete response in the Overall population, ORR 8.2% (M) vs 5.9% (P)

ORR 14.5%	(M)	vs 3.3%	(P)) in	local	ly ac	lvanced	
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Best Response	Masitinib	Placebo
Complete Response	1 (0.41%)	-
Partial Response	20 (8.20%)	8 (5.93%)
Stable Disease	129 (52.9%)	81 (60.0%)
Progressive Disease	35 (14.3%)	29 (21.5%)
No post-baseline	59 (24.2%)	17 (12.6%)

ORR : Objective Response rate

CR : Complete response

PR : Partial response

ORR = CR + PR

Best Response	Masitinib	Placebo
Complete Response	-	-
Partial Response	9 (14.5%)	1 (3.33%)
Stable Disease	43 (69.4%)	21 (70.0%)
Progressive Disease	3 (4.84%)	6 (20.0%)
No post-baseline	7 (11.3%)	2 (6.67%)

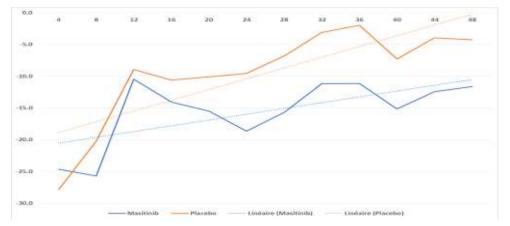
AB12005 - Pain



Masitinib reduced pain in patients with locally advanced tumors, supporting the rationale for targeting this population having pain at baseline

Numerical improvement vs control in pain in overall population

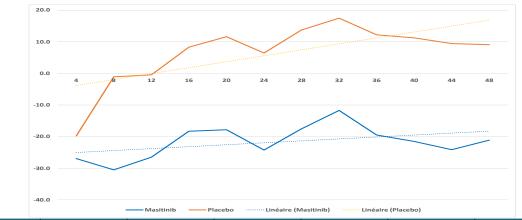
Overall Population – Change from baseline in VAS (LS Mean) - mITT



VISIT	4	8	12	16	20	24
Masitinib	-24.6	-25.7	-10.5	-14.0	-15.5	-18.6
Placebo	-27.8	-20.2	-8.9	-10.6	-10.1	-9.5
M-P	3.2	-5.5	-1.5	-3.5	-5.4	-9.1
p-Value	0.477	0.379	0.827	0.596	0.402	0.167
Std Error	4.5	6.2	7.01	6.50	6.5	6.6
(CI)	(-5.6, 12.0)	(-17.8, 6.8)	(-15.4, 12.3)	(-16.3, 9.3)	(-18.1, 7.3)	(-22.0, 3.8)
VISIT	28	32	36	40	44	48
Masitinib	-15.7	-11.2	-11.1	-15.2	-12.4	-11.6
Placebo	-6.8	-3.1	-2.0	-7.3	-3.9	-4.2
M-P	-8.9	-8.1	-9.2	-7.9	-8.5	-7.4
p-Value	0.179	0.224	0.176	0.238	0.210	0.273
Std Error	6.6	6.6	6.74	6.7	6.8	6.72

Significant improvement vs control in pain in locally advanced

Locally advanced – Change from baseline in VAS (LS Mean)



VISIT	4	8	12	16	20	24
Masitinib	-26.9	-30.5	-26.5	-18.3	-17.8	-24.3
Placebo	-19.8	-1.1	-0.5	8.3	11.6	6.5
M-P	-7.2	-29.4	-26.1	-26.6	-29.4	-30.7
p-Value	0.453	0.060	0.090	0.093	0.059	0.051
Std Error	9.7	15.4	15.2	15.6	15.3	15.5
(CI)	(-26.1, 11.7)	(-60.2, 1.3)	(-56.3, 4.2)	(-57.7, 4.6)	(-60.0, 1.1)	(-61.6, 0.2)
VISIT	28	32	36	40	44	48
Masitinib	-17.5	-11.7	-19.5	-21.5	-24.1	-21.1
Placebo	13.7	17.5	12.2	11.2	9.4	9.1
M-P	-31.3	-29.2	-31.7	-32.8	-33.6	-30.2
p-Value	0.047	0.069	0.050	0.046	0.042	0.062
Std Error	15.4	15.8	15.9	16.1	16.2	15.93
	10.4	15.0	-0.0	-		

AB12005 - Safety



There were fewer AEs, SAEs and severe AEs in the masitinib arm as compared with the control arm

Summary of Adverse Events – Safety population

	Masitinib (N = 246) n (%)	Placebo (N = 136) n (%)
At least one AE	237 (96.3)	135 (99.3)
Fatal AE	46 (18.7)	26 (19.1)
At least one serious AE (non-fatal)	47 (19.1)	29 (21.3)
At least one AE with Grade 3 or 4	184 (74.8)	113 (83.1)
At least one AE leading to study treatment permanent discontinuation (excluding fatal AE)	49 (19.9)	20 (14.7)
At least one AE leading to study treatment temporarily interruption	116 (47.2)	72 (52.9)
At least one AE leading to study treatment dose reduction	55 (22.4)	36 (26.5)

Discussion - Efficacy



Overall Survival (OS) benefit reported in AB12005 study is not biased

- OS increase of +1.8 month is associated with PFS increase of +1.8 month, unlikely to be due to potential second line of treatment
- Median OS of observed in AB12005 control arm is consistent
 - Median OS of 11.2 months observed in AB12005 study for patients receiving gemcitabine alone
 - Median OS in patient with LAPC (not restricted to pain) treated with single agent gemcitabine ranges from 9.2 to 13.6 months

	Prospective, randomized study	Population analyzed	Median OS (months)
Tada et al (2008)	No	45	11.6
Poplin et al (2009)	Yes	27	9.2
Kindler et al (2010)	Yes	45	9.9
Loehrer et al (2011)	Yes	37	9.2
Hammel (2016) - LAP07 Randomized Clinical Trial	Yes	223	13.6

Pain is a poor prognosis factor and likely to reduce survival

Discussion - Positioning

Masitinib has a different positioning from treatments currently in use

Positioning in patients with pain

- Difficult to compare AB12005 with other studies
- Pain is a prognosis factor associated with shorter survival

Positioning in unresectable locally advanced pancreatic cancer (LAPC)

- Abraxane is registered only in metastatic pancreatic cancer
- Folfirinox is recommended in metastatic pancreatic cancer, supported by academic data and not registered
- Gemcitabine remains the only drug with a label for LAPC

Positioning vs Folfirinox

- One third of patients with LAPC are unfit to receive Folfirinox, mainly aged > 70 years
- Patients older than 70 are eligible to masitinib
- Positioning vs Abraxane
 - In Europe, abraxane is not reimbursed and therefore not frequently used
- * Favorable safety profile
 - Safety of Masitinib + Gemcitabine combination compared favorably vs Gemcitabine alone
 - Masitinib is not a chemotherapy, unlike Abraxane and Folfirinox, which generate hemato-toxicity, peripheral neuropathy, alopecia, mucosisitis, as reported in the labelling information



Discussion – Next steps



Discussion with health authorities for marketing authorization application

Confirmatory study: Second randomized controlled study of masitinib in pancreatic cancer

Efficacy assessment based on 92 patients in the claim can be mitigated

- Prospective study, pre-specified claim
- Strong statistical significance (p<0.01) on primary analysis
- Medically relevant result with 54% risk reduction of time to death
- Efficacy endpoint based on survival, which is the gold standard
- Consistency of results on OS / PFS / Response rate
- LAPC is still one of the worst prognosis
- Orphan drug status granted to masitinib in pancreatic cancer
- Safety assessment supported by a large safety database with over 7000 patients enrolled in masitinib clinical program
- Significant OS and PFS benefit vs Gemcitabine alone in LAPC
- Safety of Masitinib + Gemcitabine combination compares favorably vs Gemcitabine alone
- High medical need, in particular for patients unfit for combination of chemotherapies

Enough evidence to support filling

Favorable Benef<u>it risk</u>

Market potential



Indication	Prevalance
Pancreatic Cancer	21 / 100,000 ¹
LAPC *	35% ^{2;3}
Pain *	50% ^{4;5}

Estimated numbe LAPC a	er of patients with nd pain		Annual cost of drugs registered in similar
USA	USA EU Patients		indication (USD)
12,000	16,500		Abraxane (240,000) Tarceva (27,000) Erlotinib (6,500)

* : expressed as percentage of pancreatic cancer

Source :

Population : https://data.worldbank.org/indicator/SP.POP.TOTL and https://ec.europa.eu/eurostat/web/population-demography-migration-projections/population-data/main-tables

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