



El equilibrio entre regulación-innovación en la fijación de precios y financiación de medicamentos

OR

The AMNOG Law



Andreas Gerber-Grote

Encuentro: Los sistemas sanitarios de
Alemania y de España

The AMNOG Law

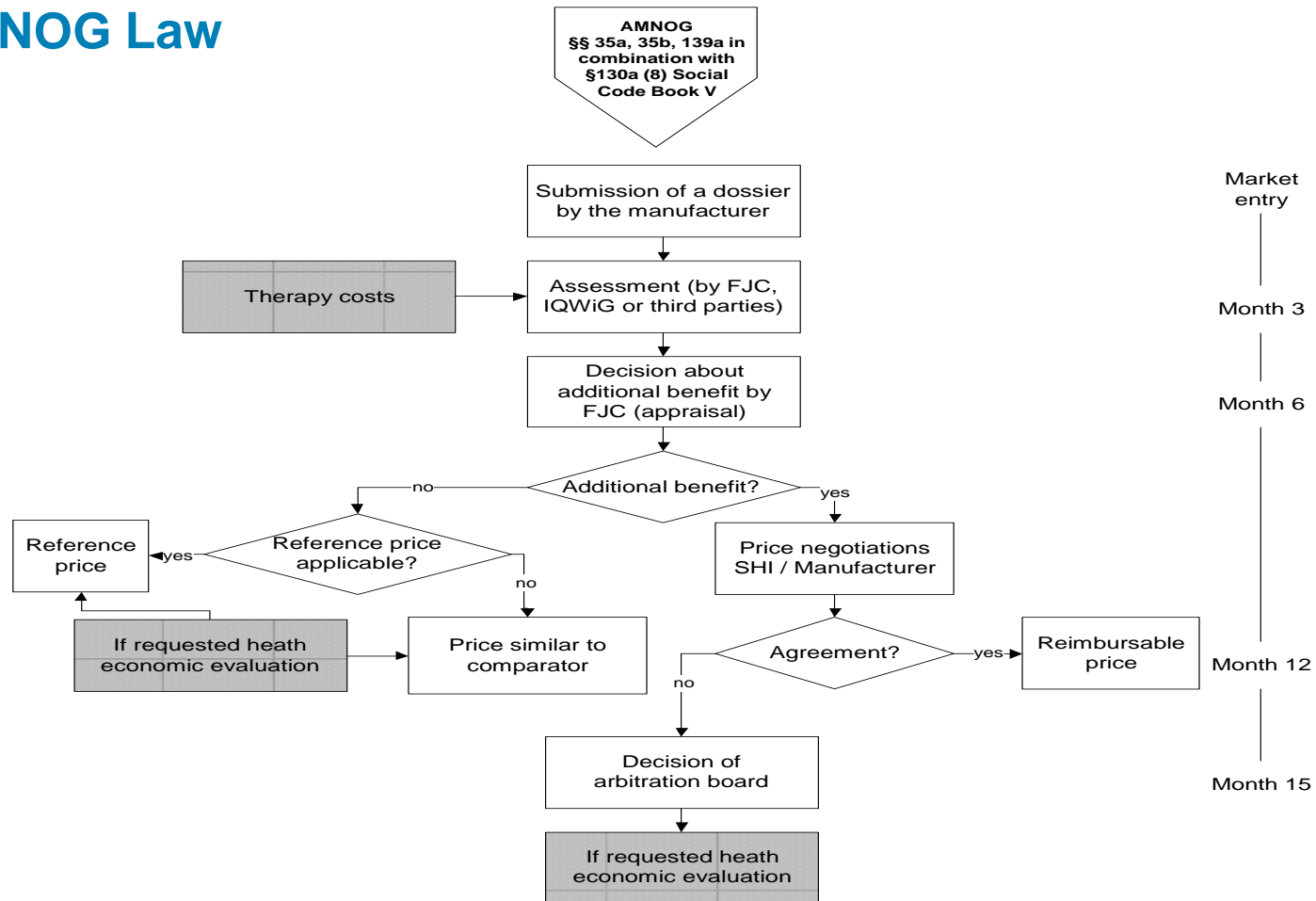


Figure 1: Timeline of the dossier assessment

Legend: Figure 1 illustrates the timeline of the dossier assessment according to the new bill in effect January 1st, 2011. Boxes shaded display where and how IQWiG comes in with regard to health economic criteria in the decision making process on drug prices in Germany.

Extent of added benefit: six categories, legal basis



major added benefit

Criteria in accordance with AM-NutzenV*

sustained and great improvement [^] (cure, major increase in survival time, long-term freedom from serious symptoms, extensive avoidance of serious side effects)

considerable added benefit

marked improvement [^] (perceptible alleviation of the disease, moderate increase in survival time, alleviation of serious symptoms, relevant avoidance of serious adverse effects, important avoidance of other adverse effects)

minor added benefit

moderate and not only marginal improvement [^] (reduction in non-serious symptoms, relevant avoidance of side effects)

added benefit proven, but not quantifiable

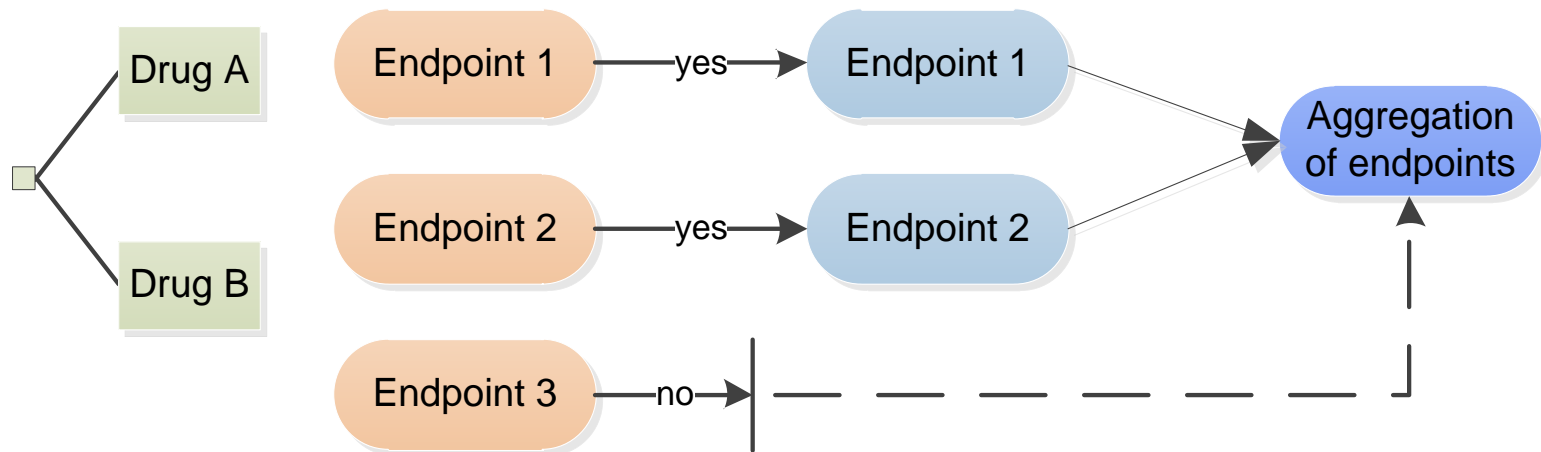
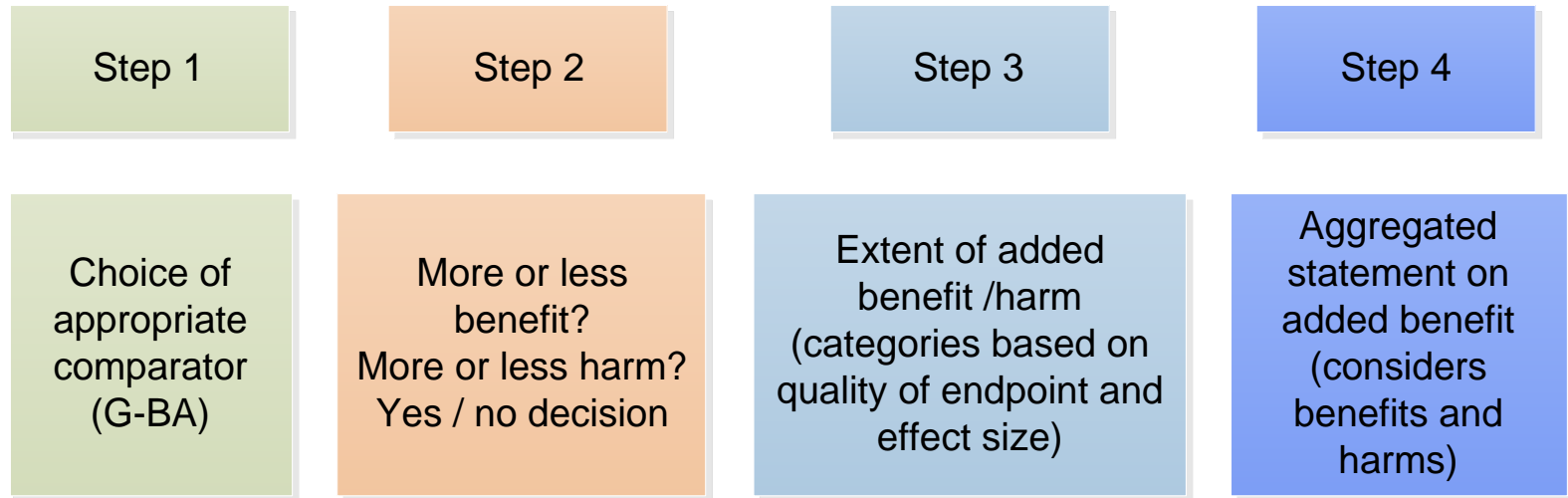
no added benefit has been proven

less benefit than that of the appropriate comparator

*Regulation for Early Benefit Assessment of New Pharmaceuticals

[^]in the therapy-relevant benefit, which has not previously been achieved versus the appropriate comparator

Process of assessing “added benefit”



Added Benefit Criteria (developed by IQWiG on the basis of requirements laid out in §35a Social Code Book)

		Outcome Category			
		Survival Time (Mortality)	Symptoms (Morbidity)	Quality of Life	Adverse Effects
Added Benefit	Major sustained great improvement in the therapy-relevant benefit, which has not previously been achieved versus the appropriate comparator	Major increase in survival time	Long-term freedom from serious (or severe) symptoms (or late complications)	<i>Major improvement in quality of life</i>	Extensive avoidance of serious (or severe) adverse effects
	Considerable marked improvement in the therapy-relevant benefit, which has not previously been achieved versus the appropriate comparator	Moderate increase in survival time	Alleviation of serious (or severe) symptoms (or late complications) <i>Significant reduction in non-serious (or non-severe) symptoms (or late complications)</i>	<i>Significant improvement in quality of life</i>	Relevant avoidance of serious (or severe) adverse effects Significant avoidance of other (non-serious or non-severe) adverse effects
	Minor moderate and not only marginal improvement in the therapy-relevant benefit, which has not previously been achieved versus the appropriate comparator	<i>Any increase in survival time</i>	<i>Any reduction in serious (or severe) symptoms (or late complications)</i> Reduction in non-serious (or non-severe) symptoms (or late complications)	<i>Relevant improvement in quality of life</i>	<i>Any reduction in serious (or severe) adverse effects</i> Relevant avoidance of (other, non-serious or non-severe) adverse effects

italics: AM-NutzenV.

Added Benefit – Translation into Statistical Measures

		Outcome Category			
		Survival Time (Mortality)	Serious (or Severe) Symptoms (or Late Complications) and Adverse Effects	Quality of Life	Non-Serious (or Non-Severe) Symptoms (or Late complications) and Adverse Effects
Added Benefit	Major sustained and great improvement in the therapy-relevant benefit, which has not previously been achieved versus the appropriate comparator	Major increase in survival time CI_S: 0.85 (RR ₁ = 0.50)	Long-term freedom or extensive avoidance CI_S: 0.75 (RR ₁ = 0.17) and risk ≥ 5%²	<i>Major improvement¹</i> CI_S: 0.75 (RR ₁ = 0,17) and risk ≥ 5%²	Not applicable
	Considerable marked improvement in the therapy-relevant benefit, which has not previously been achieved versus the appropriate comparator	Moderate increase in survival time CI_S: 0.95 (RR ₁ = 0.83)	Alleviation or relevant avoidance CI_S: 0.90 (RR ₁ = 0.67)	<i>Significant improvement¹</i> CI_S: 0.90 (RR ₁ = 0.67)	Significant avoidance CI_S: 0.80 (RR ₁ = 0.33)
	Minor moderate and not only marginal improvement in the therapy-relevant benefit, which has not previously been achieved versus the appropriate comparator	<i>Any (statistically significant) increase in survival time</i> CI_S: 1.00	<i>Any (statistically significant) reduction</i> CI_S: 1.00	<i>Relevant improvement¹</i> CI_S: 1.00	Relevant avoidance CI_S: 0.90 (RR ₁ = 0.67)

Example Ticagrelor

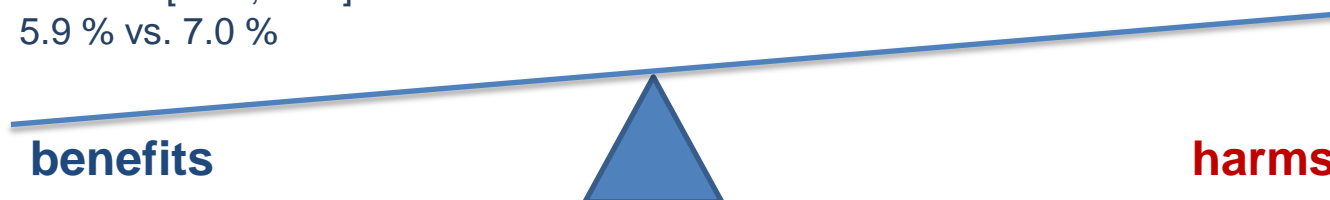
1. Overall survival: proof of considerable added benefit (marked improvement)
HR 0.73 [0.60; 0.89]
3.8 % vs. 5.3 %

Adverse events (dyspnoea): proof of greater harm of a considerable extent
RR 0.55 [0.49; 0.62]
14,0 % vs. 7,7 %

2. Cardiovascular survival: proof of considerable added benefit
HR 0.70 [0.56; 0.87]
3.1 % vs. 4.6 %

Discontinuations due to AEs: proof of greater harm of a minor extent
RR 0.70 [0.60; 0.81]
8.2 % vs. 5.7 %

3. Morbidity (myocardial infarction): implication of considerable added benefit
HR 0.85 [0.72; 1.00]
5.9 % vs. 7.0 %



- Proof of an overall considerable added benefit of ticagrelor versus comparator demonstrated for people with unstable angina/NSTEMI

Examples: Benefit Assessment Results for Advanced-Stage Cancer Treatment Innovations

Considerable added benefit: Zelboraf® (Vemurafenib)

Indicated for treatment of unresectable or metastatic melanoma with BRAF-V600E mutation

Patient group	Endpoint with stat. sig. effect	Probability of benefit or harm	Extent of benefit or harm	Overall conclusion
Patients unresectable or metastatic melanoma with BRAF-V600E mutation	Overall survival	Indication	Major ↑	Indication of considerable added benefit
	Overall rate of severe adverse events (CTCAE Grade ≥ 3)	Indication	Major ↑	
	Overall rate of serious adverse events	Indication	Major ↑	

Benefit varies per patient group: Jevtana® (Cabazitaxel)

Indicated for treatment of metastatic hormone-refractory prostate cancer (mHRPC) in patients previously treated with a docetaxel-containing treatment regimen

Patient group	Endpoint with stat. sig. effect	Probability of benefit or harm	Extent of benefit or harm	Overall conclusion
Patients who are not eligible for further treatment with docetaxel (“best supportive care population”)	Overall survival	≥ 65 years: Indication	Major ↑	For patients ≥ 65 years: Indication of a considerable added benefit
		< 65 years: Hint	Not quantifiable ↑	
	Overall rate of adverse events of the CTCAE Grade ≥ 3	Indication	Considerable ↑	For patients < 65 years: Hint of an added benefit (extent “not quantifiable”, at most, “considerable”)
	Overall rate of serious adverse events	Indication	Major ↑	
Overall rate of discontinuations due to adverse events	Indication	Considerable ↑		
Patients for whom further treatment with docetaxel is still an option (“docetaxel retreatment population”)	-	-	-	No added benefit (no data)

Benefit varies with patient endpoint: Yervoy® (Ipilimumab)

Indicated for patients with advanced melanoma who have already been treated

Patient group	Endpoint with stat. sig. effect	Probability of benefit or harm	Extent of benefit or harm	Overall conclusion
Patients with advanced melanoma who have already been treated	Overall survival	Indication	Major ↑	Indication of a considerable added benefit
	Overall rate of immune-related adverse events	Indication	Considerable ↑	
	Study discontinued due to immune-related adverse events	Indication	Considerable ↑	
	Severe immune-related adverse events (≥ CTCAE Grade 3)	Indication	Major ↑	
	Serious immune-related adverse events	Indication	Major ↑	

No quantifiable added benefit: Halaven® (Eribulin)

Indicated for treatment of symptomatic or progressive medullary thyroid cancer in patients with unresectable locally advanced or metastatic disease

Patient group	Endpoint with stat. sig. effect	Probability of benefit or harm	Extent of benefit or harm	Overall conclusion
Patients for whom treatment with taxanes or anthracyclines is no longer an option	Overall survival	Hint	Not quantifiable, at best considerable ↑	No added benefit proven
Patients, in whom further treatment with taxanes or anthracyclines is still possible	-	-	-	No added benefit proven

No added benefit: Caprelsa® (Vandetanib)

Indicated for treatment of symptomatic or progressive medullary thyroid cancer in patients with unresectable locally advanced or metastatic disease

Patient group	Endpoint with stat. sig. effect	Probability of benefit or harm	Extent of benefit or harm	Overall conclusion
Patients with unresectable locally advanced or metastatic symptomatic or progressive medullary thyroid cancer	-	-	-	No added benefit (no data)

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[A11-02] Ticagrelor - Benefit assessment according to § 71 Social Code Book V (dossier assessment)

[Overview](#) | [Report documents](#) | [At a glance](#)

Published	Document	Size	Type
04.10.2011	Executive summary benefit assessment	47 kB	PDF
04.10.2011	Dossier assessment (German version) The patient representative involved belatedly corrected erroneous information on his potential conflicts of interest. IQWiG's letter to the Federal Joint Committee (German version)	748 kB	PDF

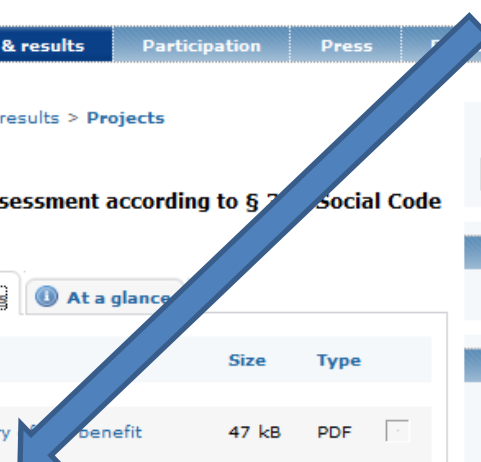
After completion of the assessment by IQWiG the Federal Joint Committee (G-BA) conducts a commenting procedure. This may provide supplementary information and as a result lead to a modified benefit assessment. Further information and the decision on the early benefit assessment can be found on the » [relevant page](#) of the G-BA website.

last update: November 17, 2011 [↑ back to top](#)

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Project information
Project no. A11-02
Status Project completed
Department Drug Assessment
Last updated 2011-11-17



www.iqwig.de

English abstracts
available!!!

IQWiG Reports - Commission No. A11-02

**Ticagrelor –
Benefit assessment according
to § 35a Social Code Book V¹**

Extract

How to retrieve the manufacturers' dossiers

FAQ | Glossar | Sitemap | Kontakt | Impressum | Datenschutz

Gemeinsamer Bundesausschuss

Institution
Struktur, Themen, Service, Presse ...

Informationsarchiv
Beschlüsse, Richtlinien ...

Suche:

Informationenarchiv / Frühe Nutzenbewertung (§ 35a SGB V)

Beratungsthemen | Beschlüsse | Richtlinien | Abschlussberichte | **Frühe Nutzenbewertung (§ 35a SGB V)** | Aufträge/Experten

Informations-Archiv | **Frühe Nutzenbewertung (§ 35a SGB V)**

Wirkstoff: Ticagrelor

Steckbrief

- Wirkstoff: Ticagrelor
- Handelsname: Brilique®
- Therapeutisches Gebiet: Akutes Koronarsyndrom
- Pharmazeutischer Unternehmer: AstraZeneca GmbH

Fristen

- Beginn des Verfahrens: 01.01.2011
- Veröffentlichung der Nutzenbewertung und Beginn des schriftlichen Stellungnahmeverfahrens: 04.10.2011
- Fristende zur Abgabe einer schriftlichen Stellungnahme: 25.10.2011
- Beschlussfassung: Voraussichtlich Mitte Dezember 2011

Bemerkungen

abschließende Dossiereinreichung nach Übergangsfrist: 01.07.2011

Dossier | **Nutzenbewertung** | Stellungnahme-Verfahren | Beschlüsse

Eingereichte Unterlagen des pharmazeutischen Unternehmers (Vorgangsnummer 2011-01-01-D-001)

- Modul 1 (247,9 kB)
- Modul 2 (419,4 kB)
- Modul 3 (822,4 kB)
- Modul 4 (4,2 MB)

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Only German versions available

The AMNOG Law

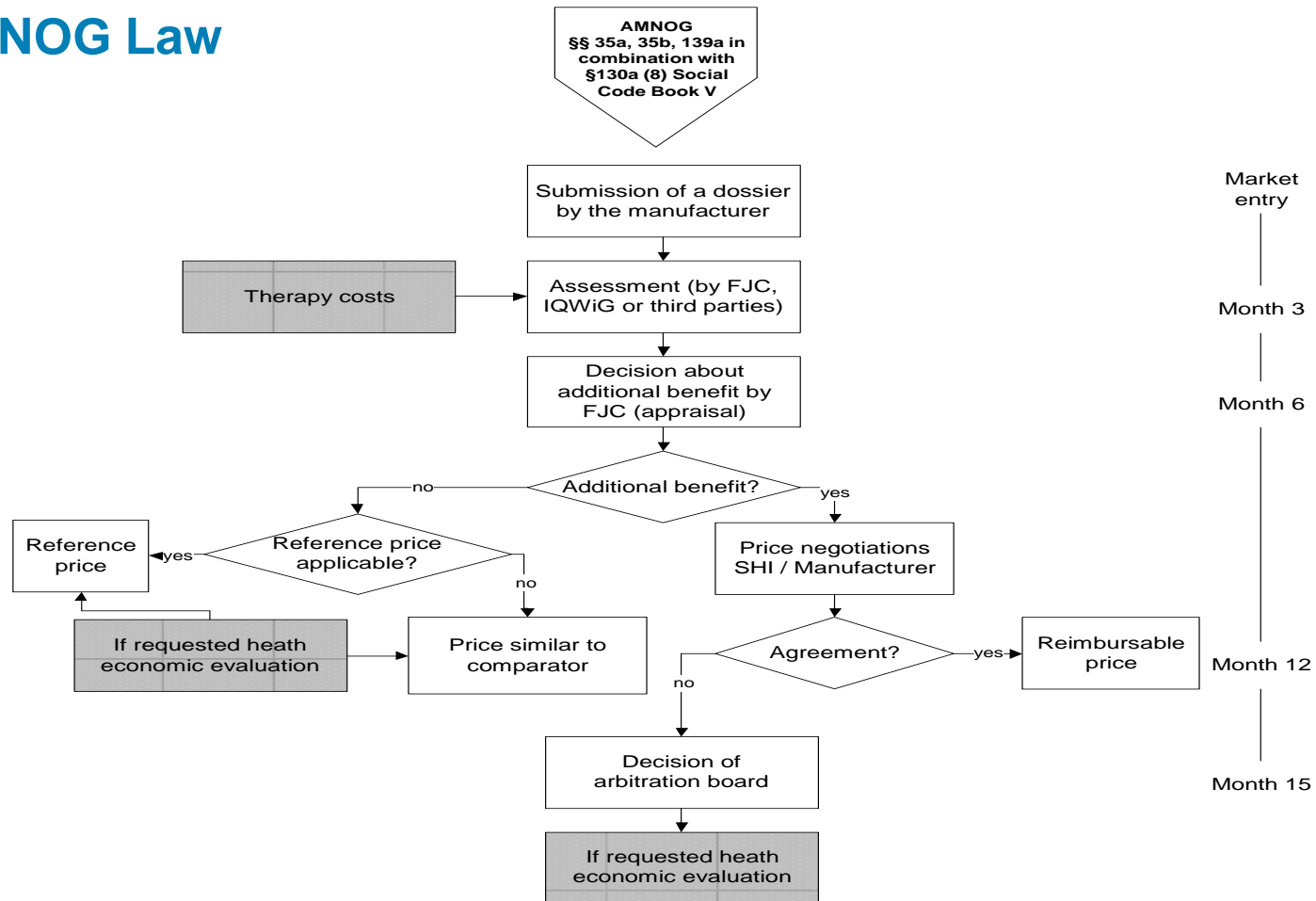
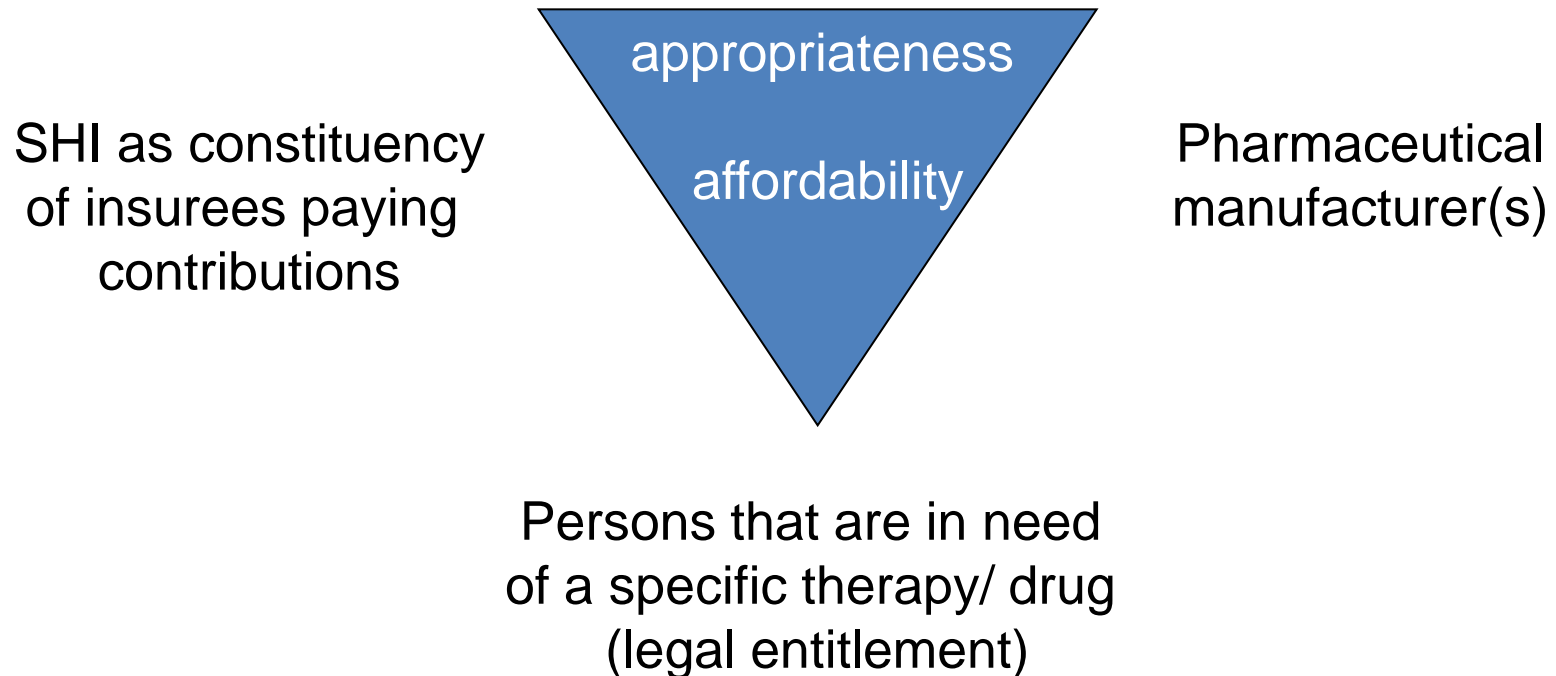


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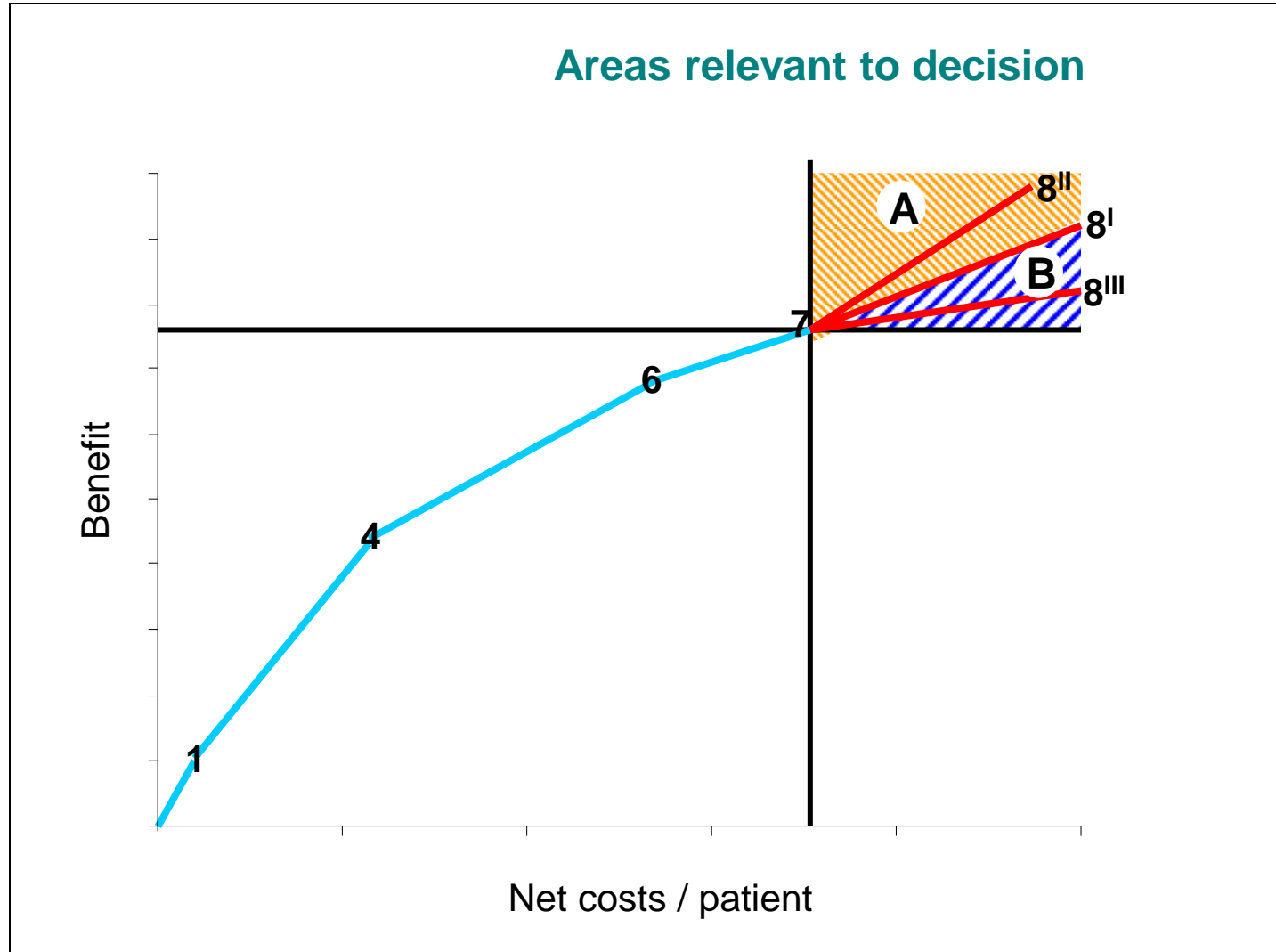
Legend: Figure 1 illustrates the timeline of the dossier assessment according to the new bill in effect January 1st, 2011. Boxes shaded display where and how IQWiG comes in with regard to health economic criteria in the decision making process on drug prices in Germany.

What is the question for health economics to answer in the German system?

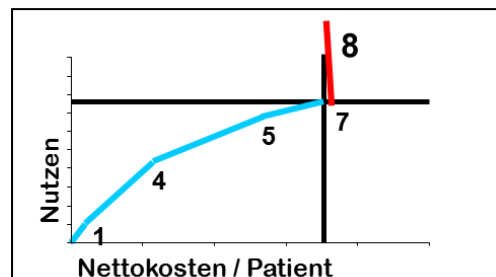
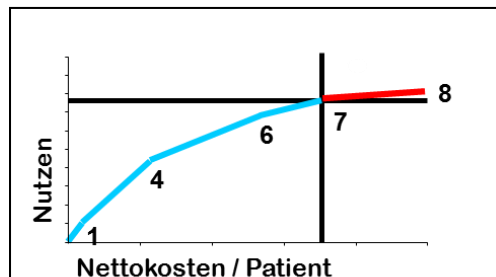
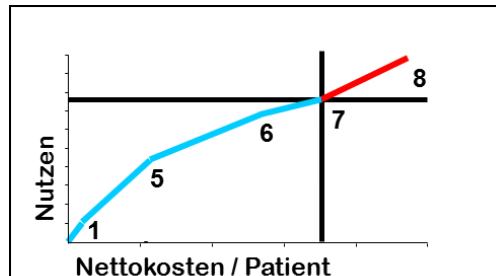


Objective: To inform price negotiations between SHI funds and manufacturers

Efficiency Frontier



Rationale: Why weighting?



- Plot efficiency frontier for various patient-relevant outcomes on the basis of health economic evaluation
- Weighting of endpoint-specific efficiency frontiers to arrive at a reimbursable price
- Patients' preferences as a basis for the weighting process as they are experts in their specific disease area
- Elicitation of patients' preferences via
 - Analytic Hierarchy Process (AHP)
 - Conjoint Analyse (CA)



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