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08.19.09

Minutes Risperdal Taskforce, Beerse, Dec. 6-7, 1994

Present:	France UK Japan USA Beerso	Philippe Alfocea / Pierre Quelet Jane Griffiths Hajime Enjoji / Tetsu Nagase Tom Anderson / Heng Wong Ivo Caers / Raf De Wilde / Philippe Lemmens Eric Pauwols / Françoise Rampelberg
Absent:	Canada Germany	Jim Bekhardt Kai Martons

For overview Olanzapine / Seroquel / Sertindole and Ziprasidone, see SAE report

Additional competitive info

Olanzapine

- Eli Lilly is setting up cost of disease study in Germany
 - CND study comparing Risperdal Olanzapine
 - , safety & efficacy
 - . HE data
 - . cognitive function
- Lilly stopped research on Gastro → focus on <u>ONS</u>
- sales rep recruitment in UK (incremental to Prozac)
- NMS case reported (1)
- TD cases reported (3)
- WHO essential drugs list submitted
- 5→10→20 mg Haldol comparison (phase III)
- benefit to M1 receptors antagonism; explored as a benefit
- liver enzymes, drug interactions may be critical
- agranulocytosis in animal (Japan)

Seroquel

- EPS profile similar to chlorpromazine
- Zeneca is doing extensive Market Research (cojoint in Europe / US?)
- sedative

Sertindole.

- relapse prevention project, run by Kissling, Germany
- contact patient support groups (Switzerland)
- turnover in clinical research dept. USA is high
- investigators lack of confidence (dose problems) (ocular tests) Belgium
- CNS agreement in Germany with Byk Gulden
- Lundbeck is a candidate for take-over



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- cardiovascular safety incl. ECG monitoring vs Risperdal (6, 8, 10 mg) is being studied (UK, Australia)
- comparative trial vs Haldol 5 mg Acute exacerbations in Switzerland
- Pfizer published placebo vs Haldol on cognitive effects
- invostigators looking for a new "hook"?
 - . safety
 - . cognition

Clozapine⁻

- comparative trial vs Risperdal planned in Franco / Canada
 - . maintain Treatment Resistant Patient population
 - , negative symptoms
 - , EPS (up to 16 mg Risperdal is used)

Amiguipiride

- Jargo clinical studies in Bastern Europe & USA & UK
- licensing USA (?)
- comparative trial vs Risperdal in France (up to 16 mg)
 → looking at positive symptoms

Others

- ORG5222: discontinued worldwide

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SWOT-analysis: Olanzapine / Ell Lilly

 Strengths positive + negative symptoms comparative claims vs Haldol low EPS most Clozapine-like product (broad spectrum) limited prolactin 1 can go to GP's (Prozac) (e.g. in BDD) high CNS commitment Marketing R&D Dis, State Management organisation Intense psychiatry contucts (advocacy groups good FDA relationship aggressive marketeers 	Weaknesses postural hypot. + titration strong anticholinergic effects TD reported (3/300) sedation (oral) liver enzymes T weight gain 3 y hehind Risperdal US marketing = global 	-	
 effective in primary negative symptoms anxiolytic effect minimal orthostatic hypotension effective in schizoaffective data in treatment resistant patients BDD claim relapse prevention claim sedation IM D4 story similar to clozapine unsatisfied market co-marketing in Europe? Shering in US? WHO list 	 aplastic anaemia / agranulocysis no superiority over Haldol confusion re. dosing drug interaction managing expectations price erosion (competition) Janssen strategy 		
standard lettertype = product related italic lettertype = company-environment re	elated	· · ·	

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SWOT-analysis: Seroquei / Zeneca

Strengths	Weaknesses
 low prolactin Î low EPS Stuart Disease State Management strong consistent developers global US / Europe / Japanese company 	 BPS = chlorpromazine QT prolongation liver enzymes Î sedition (oral) need for titration / art.hypotension diziness no CNS franchise / no psychlatric contacts weight gain weak marketeer in US ≥ 3 y behind Risperdal
Opportunities	Threats
 relapse prevention sedation IM low expensive SDA (cfr. Remoxipride) 	 better efficacy of new drugs other Zeneca pipeline products order of new surfes (3rd, 4th?) Janssen strategy

standard lettertype = product related italic lettertype = company-environment related

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SWOT-analysis: Sertindole / Abbott/Lundbeci:

Strengths	Weaknesses
 no prolactin Î low EPS IM + depot low sedation Lundbeck: high CNS commitment "prelapse" program aggressive marketeers Abbott: experienced in very comp. market valproate in bipolar disorders bundled products good institutional marketing 	 strong C-lytic slow litration live: enzymes Î 2 active metabolites QT prolongation doubt efficacy negative symptoms IM not sedative SSR1 introduction (Lundbeck) not global company (Lundbeck) fragmented launch
Opportunities	Threats
 1st SDA depot schizoaffective 	 no superiority over Haldol interactions
 could entry before olarizapine low expensive SDA (remoxipride) link Byk Gulden 	 nev, competitors miscommunication 3 companies

standard lettertype = product related italic lettertype = company-environment related

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SWOT-analysis: Ziprasidone / Pfizer

Strengths no dose titration low α-lytic first episode patients Dis. State Management CNS commitment	 Weaknesses doke related EPS xnd SDA rich pipeline domestic 1 non-domestic organisation
aggressive spenders centralized clinical development project management approach speed to market	Threets
 schizoaffective equal efficacy = Risperdal development IM anxiolytic / antidepressant effects studies in negative symptoms data in therapy resistant patients BDD (no orthostatic / anticholinergic) cardiovascular safety 	 not superior to Haldol price competition

standard lettertype = product related italic lettertype = company-environment related

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SWOT-analysis: Risperdal

Strengths - 1st SDA (pos. + neg. + low EPS) - not sedative - long-term experience . efficacy . safety	Weaknesses - not sedative (acute) - high prolactin T - weight gain - low impact in acute cases
Opportunities - schizoaffective - BDD - relapse prevention - IHE data - liquid - once-daily - effective in: . 1st period . therapy resistant - other patient populations - new class = standard - Risperdal + benzodiazepines (acute)	Threess - room for better than Risperdal - new competitors - new competitor vs Risperdal comparisons - slow development - low unit penetration - CNS pipeline products

standard lettertype = product related italic lettertype = company-environment related

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Advantages / Disadvantages new SDA's vs Risperdal

Olanzapine = 0Seroquel = sq Sertindole = st Ziprasidone = z

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Advantagos	0	pa	st	¥.	Disadvantages	0	sq	st	z
low / no prolactin T	x	x	x	7	Hver enzyme 1	x	x	x	?
superiority (efficacy)	?	0	0	0	blood dyscrasias	7	0	0	D
HE / outcome data	x	7	?	7	sex. dysfunction	0	0	x	D
lower side effects	?	?	7	?	anticholinergic	x	0	0	0
lower BPS / TD	?	σ	0	0	contacts with OL	x	0	x	0
titration	0	0	0	x	TD	x	?	?	?
QT	?	0	0	?	titration	0	O	x	0
sedation (acute)	x	x	0	0	complex pharmaco- kinetics (metabolites)	0	D	x	?
BDD data available	0	?	7	7	drug interactions	?	7	x	?
Treatment Resistant	x	x	7	?	low US impact	0	x	?	0
line extensions	x	7	x	×	too high expectations (clozapine like)	x	7	0	o
broader receptor binding	x	D	0	0	late in Clin. Dev.	0	x	0	x
resources human and \$	x	?	?	x					
relapse prevention	x	x	X	x					

x = yes

? = possible but not known

o = no / unlikely

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Major competitors' age over Rispendal 10	sup. N / pos vs. Risp. vs Hatdol efficacy prim. neg. symptoms	Leeller FLE daug antion ctaim actizmatiective outside US	conปักษณ์ resources
Major competitors advantage over Risperdal 9	D. N / Pos	Relapse preve Remoxproa	8
Mitror . B	in ⁴ Sup. neg. vs Hadooi Hadooi efficacy treatment	(resistant ahead in BDD depot	
243 (***	. low protectin ↑ ute	tros athe athe athead with depot tive (US)	· · · · ·
9	no titration	no Q (* atheat IM aucte schizzaffective (US)	
Comparable to Risperdal 5	DAN SE	8	nou được chiến the second s
খ্য	rectations quictsolva	liquid premium price vs Risperdal	sexual dystunction anticholinergic finage, OL, advoca drug înteracion
Mirror 3	too high expectations dy quicter		
7 M	ta sedation ctronic/elderly xice	CT right	
Major compatitors' disadvantage 0 1	blood monitoring ((iver/blood) (clozapine price		

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Act as a	market	leader /	global	stratogies	to	maintain	leadershi	p
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What the market leader should and should not do	What the follower should and should not do to become leader			
First (market leader)	Second and consecutive			
 + close follow-up early adaptors / go beyond early adaptors with adapted strategy in different types of target group act pro-actively (be first in all line extensions) (SDA's / reimbursement) creates market + define own role so that → others behave → stability in market continue to redefine the market if necessary consistent publication strategy, control editorials, etc. = bench market price spending development continuous commitment to OLs advocacy groups + other clients think broadly incl. non-traditional thinking increase entry barrier behave as a leader (attitude) aggressive posture maintain global strategy come with line extensions at time of launch second 	 behave as a market loader position as breakthrough product lack of any respect for market leader / aggressive marketing top to bottom commitment from company to achieve market leadership take leadership in line extensions pharmaceutical + new indications explore high risk and huge areas others have not entered guerilla war approach 			
 re-active in line extension + strategy (always second) stay with early adaptors change in strategy when others come in don't compare just on product characteristics still in niche position (< 15% in psychiatric units) 	 over-promise / too high expectations wrong pricing no clear positioning vs market leader don't rely on just promotional spending no extensive pre-marketing rely on class effects re. off-label use under-estimate the leader 			

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Olanzapine: Potential Positioning

- the most effective first-line (atypical) therapy for full range of symptoms in schizophrenia and other psychotic disorders
 - . multi-receptor, not SDA
 - . Qol

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- . long-term
- . Clozapine-"like"
- . easy to use antipsychotic "user friendly"
- . first-line atypical

Scroquel: Potential Positioning

- first-line atypical antipsychotic
- or
 - "Risperdal-like" positioning
 - . similar efficacy
 - . lower price ?
 - . less prolactin T
 - . not anticholinergic

or

- schizophrenia with anxiety

Sertindole: Potential Positioning

- Risperdal like positioning
 differentiate as health care supplier, partner in treating psychosis
- only SDA depot "Prelapse" (price = or < Risperdal)

Ziprasidone: Potential Positioning

- positioning "safer" Rispordal (focus on cardiovascular, prolactin, cognition) (simple, safe, "user-friendly Risperdal like" antipsychotic)
- Potential in elderly incl. BDD

Risperdal Strategy

Issues

- maximize unit share before new competitors come in
- prevent a reimbursement backlash or maintain reimbursement long-term
- create "broad use" perception
- develop essential line extensions
- develop first-line use "in practice"
- identify key issues that are communicated to Senior Mgmt regularly

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'Tactics to drive unit share asap

- expand target group to schizophrenia treatment group (nurses, social workers, advocacy groups, ...)
- heavy investment in medical education, PR, symposia, ...
- enhance training re. consultative sell, micro-marketing
- enhance value for money perception
 - , value added programs
 - EPS detection for nurses / GP's
 - out hospital follow-up
 - guidelines on correct use of antispychotics incl. Risperdal
 - use WPA program (for non-psychiatrisms)
 - program for consumers / care giver re. NEW schizophrenic patients (Risperdal users groups) (WHO projecti) (Info exchangel)
 - program for family newly diagnosed schizophrenics
 - GP orientation programs re. schizophrenia
 - . enhance perceived value of the drug
 - consistent dominant approach
 - keep enhancing problems schizophrenia in society
 - case studies
 - . hospital pharmacy programs (explore their needs)
 - schizophrenia
 - health economy in general
 - health economy data on Risperdal
 - enhance their self esterne (emotional approach)
- publications on:
 - , swiching
 - . anything positive on Risperdal in schizophrenia
 - . clderly schizophrenia / young / late-elderly
 - . different races
 - . primary / secondary negative symptoms + Risperdal

milk the existing data \rightarrow publications (analysis = present gap)

- SDA concept + make atypical a bad word
- . publications + in publication SDA re. others
- . consensus pannel(8)
- . MSL tactics to have it implemented
- develop a Risperdal patient register
 - , publications
 - . PR

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Additional topics

- Depot

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- . 1 injection / 2 weeks is OK
- . max. dose to be developed: TBD in MR (ongoing in UK / US / CDN)
- BDD
 - . yes for additional scored 0.5 mg tablet
 - . ouctome data are being included in studies
 - . no need for separate trademark

- AIR multiclient market study on Risperdal
 - . Beerse buys 1st country available 50/50 budget (UK / Germany?), cost £ 10,000/country
 - . distribute + purchase other countries if studies would be done. Janssen does not stimulate start of study by ordering now. Coordinator = Raf De Wilde, Beerse

Bric Pauwels / Ivo Caera December 14, 1994

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Maximize unit penetration

Clinical / Product development

<u>Schizophrenia</u>

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- 1 efficacy in primary negative symptoms
 - . long-term outcome, link it to efficacy on negative symptoms
 - . what is olanzapine doing in primary negative symptoms (do they split it?;
 - if yes, how do they do? Canada, UK, US, deadline before 15/1/95)
 - , N. Andreasen trial Risperdal in US
 - . "Möller"-type analyses of existing data other than Marder trial/ meta-analysis?
 - , explore creative clinical approaches Risperdiel in negative symptoms
 - . case reports on negative symptoms
- Superior over Haldol (positive and/or negative symptoms: I US)
 objective: have superiority in the US labeling
 - 1 or 2 trials?
 - results INT-6?
 - deadline end Q1 '95 to start 1st US trial
 - centers of excellencel?
- 3 Efficacy in treatment resistant
 - . possible to have in the labeling? (including therapy resistant), how? to check with Regulatory
 - , running trials Risperda) are OK for perception creation, would be sufficient to include in labeling if positive → IRF if we would like so (Regulatory?)
- 4 HE / Outcomes
 - . QoL + other clinically / family / care giver relevant outcomes
 - . 3-5 year study re. Rispordal changing the outcome?
- 5 relapse prevention
 - . check INT-6 / GBR-13: enough for labeling? Regulatory) Non-US / US . IRF to be filed worldwide: Q2 '95
- 6 prolactin
 - . cvaluate clinical relevance S.B.
 - vs placebol
 - vs reference compounds
 - \Rightarrow no clinical relevance story \rightarrow publish shortly before
- 7 first episode patients, more open data, conservative dosing \rightarrow publish . comparative long-term trial incl, outcome!

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- . publish data anti-sedation story
- . studies: if needed, add benzodlazepines
- . consultancy group
 - publish
 - PR (sedation: family members)
 - sedation \leftrightarrow effect on negative symptoms
- 9 anticholinergic
 - . muscarrinic effect = positive means what? explore with AER
 - , anticholinergic SB in elderly!
 - . cognitive functioning Rispordal vs anticholinergic drugs

Formulations

depot

, determine what is needed from regulatory point of view , fast track development \cdot

- IM
 - . safety concerns cardiovascular (wait for RIS-INT-2 results) . explore in MR impact titration (running in UK / US / CDN)
- Quicksolve
 - . develop ASAP once feasibility is done (? taste)
 - , explore which strengths: TBD
- Transdermal patch . start acceptability study in schizophrenia / BDD; TBD

Other indications

- schizoaffective (non-US countries)
 - . what trials are needed for labeling?
 - . follow-up with affiliates on regulatory requirements
 - . US trial useful for regulatory purposes outside US?
- BDD
 - . US trial to begin end of Q1 '95 regardless of FDA contact
 - . HE outcomes / QoL
 - . Next taskforce on Additional marketing needs

- mental relardation

Tourette's syndrome

Autism

marketing to determine potential value \rightarrow priority + Y / No for IRF

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