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Harald Pieper

As long as I can remember I have been sketching, drawing and imagining my ideas. First on paper during school hours, later during my Graphic Design study at the Academy of Arts Breda, and after that Illustration at the Academy of Arts Rotterdam. In 2007 I founded In Zicht Grafisch Ontwerp. I work for various clients and I am also specialized in the design and layout of theses. Each dissertation has its own story and it is a creative challenge for me to create a design that really matches the content of the research and the wishes of the PhD candidate.



Ζ

PROCES IN HET KORT | PROCESS IN SHORT



Tijdens de briefing bespreken wij jouw wensen met betrekking tot concept, ontwerp en vormgeving van omslag en binnenwerk. Naar aanleiding hiervan ontvang je van mij de ontwerpvoorstellen. Voor het binnenwerk geldt dat er een ruim aanbod aanwezig is van verschillende lettertypen en layout-voorstellen. Zodra de vormgeving van het binnenwerk bepaald is zal er gestart worden met de opmaak. Na de auteurscorrecties worden de drukbestanden gemaakt en aangeleverd voor een eerste drukproef. Bij akkoord op deze proef wordt de oplage gedrukt en ontvang je een complete PDF (binnenwerk + omslag) voor digitaal gebruik.

During the briefing we discuss your wishes regarding concept, design and realization of cover and inside. You will then receive the design proposals. For the inside, there is a wide range of different fonts and layout proposals. As soon as the design of the inside has been determined, the layout will be made. After the author's corrections, the print files are created and delivered for a first proof. If you agree with this proof, the books will be printed and you will receive a complete PDF for digital use.

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Since 2007

OVER MIJ | ABOUT ME

Zolang als ik me kan herinneren ben ik bezig met schetsen, tekenen en het verbeelden van mijn ideeën. Eerst op papier onder schooltijd, later tijdens mijn opleiding Grafisch Ontwerp aan de

Academie voor Beeldende Kunsten in Breda, en aansluitend de opleiding Illustratie aan de Academie voor Beeldende Kunsten

in Rotterdam. In 2007 heb ik In Zicht

en opmaken van proefschriften.

van de promovendus.

Grafisch Ontwerp opgericht. Ik werk voor diverse opdrachtgevers, en ik heb mij tevens gespecialiseerd in het vormgeven

leder proefschrift heeft zijn eigen verhaal en

het is voor mij een mooie creatieve uitdaging

om een ontwerp te maken dat echt aansluit

bij de inhoud van het onderzoek en de wens

Ζ

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Design and layout cover and bookmark

- Design and layout cover (based on briefing or supplied material), invitation/bookmark, author corrections up to and including print ready delivery PDF.
- Cover: sketch rounds, additional/adapted proposals (following the response to the draft), front and back, chapter pages, correction round and ready for printing. Optional: inside cover, extra invitation(s).

For the cover applies further:

- First a briefing (short list of questions) and possibly debriefing
- Start design (minimum of 5 proposals)
- Designs in trial
- Number of adapted proposals (depending on response to the designs)
- Correction round(s)
- Prepare files

The briefing can be done by telephone, email or by appointment.

Inside design and layout

- Includes: 12 font proposals (PDFs) and ± 15 layout / design proposals per font (Each PDF consists of 13 spreads (26 pages), combinations or additions are possible). Check and uniformize figures (text in correct font + line thickness). Design tables.
- Design comes first, among other things attention is paid to: hyphenation (as little as possible and only for words > 15 characters), not too much space between the words and not a single word on the next line or a single sentence on the next page.

Ζ



Extra: including invitation, PowerPoint, online PDF

• Extra options: online publication, complete PDF (inside + cover), invitation for dinner or party, background PowerPoint presentation.



DIGESTING THE ROLE OF THE GUT MICROBIOME IN PROTON PUMP INHIBITOR (PPI)-INDUCED HYPOMAGNESEMIA



Ζ

Example chapter page

62 | Chapter 3

Results

Colonic butyrate concentrations negatively correlate with serum Mg²⁺ levels in mice To assess whether microbiota-derived SCFAs influence Mo²⁺ homeostasis, co

To assess whether microbiota-derived SCFAs influence Mg²⁺ homeostasis, correlation analysis were performed between colonic SCFAs concentrations and serum Mg²⁺ levels in withtype CS7BLA51 mice (**Figure 1**). In a previously published dataset, we measured the relative concentration of SCFAs in the colon of these mice **P**. Linear regression analysis showed a significant inverse correlation of colonic butyrate concentration with serum Mg²⁺ levels in *Q* = 0.22 (**Figure 1A**). No correlations were found between serum Mg²⁺ levels and colonic acetate or polynoitae concentrations **ifigure 13**. Chi Tsis correlation was specific for Mg²⁺ as there was no correlation between colonic SCFAs concentrations and serum Ca²⁺ levels **ifigure 3**.

Butyrate reduces ²⁵Mg²⁺ uptake in Caco-2 cells

To explain the underlying mechanism of the inverse correlation between colonic butyrate concentrations and serum Mg³⁺ levels, we investigated whether butyrate affects Mg³⁺ uptake in the human colon cell line Caso-2 using the heavy ²⁵Mg isotope (Figure 3). Cells inclusated for 20 minutes with 2, 4, or 8 mmol(1, habutyrate had a significantly reduced ²Mg³⁺ uptake compared to control (100 \times x.

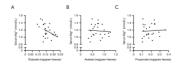


Figure 1: butyote concentrations in the colon negatively correlate with serum MpH beets in intel. (-MC Simple Inter regression analyses were preformed on colonic SCMs concentrations, obtained Inton a previously published dataset $^{11}_{12}$ and summ MpH beets concentrations of the previously and the second dataset $^{11}_{12}$ and summ MpH beets dataset in the second dataset $^{11}_{12}$ and summa type $^{11}_{12}$ (- $^{11}_{12}$ (- $^{11}_{12}$ (- $^{11}_{12}$ (- $^{11}_{12}$ (- $^{11}_{12}$) (- $^{11}_{12}$ (- $^{11}_{12}$) (- $^{11}_{12}$ (- $^{11}_{12}$)

Butyrate regulates intestinal Mg²⁺ absorption | 63

88 % ± 2 vs. 86 % ± 4 vs. 72 % ± 3, respectively, P < 0.05) (Figure 3A): Of note, similar effects were observed with 8 mmol. Na-proportate or Na-secteal Figure 4A). The inhibitory effect of Na-budyate satisfication of the subjace as similar development, as 6 mmol/1. Na-budyate significantly lowerd ²⁵MgV⁻¹ uptake as there were no inhibitory effects on *C₂A²⁺ uptake in Cociec (Cor Mg²⁺) uptake as there were no inhibitory effects on *C₂A²⁺ uptake in Cocie (Figure 4A). Of the Mg²⁺ contained the Mg²⁺ contained the satisfier of the Mg²⁺ uptake in Cociec (Cor Mg²⁺) uptake in Cociec (Cor Cor Cor Cociec (Cor Cor Cor Cociec (Cor Cor Cor Cociec (Cor Cor Cor Cociec (Cor Cociec (Cor Cor Cociec (Cor Cociec (Cor Cor Cociec (Cor Cociec (Cor Cociec (Cor Cociec (Cor Cociec (Cor Cociec (Cor Cociec (Cor

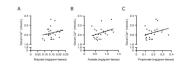
An intestinal digest on the molecular mechanisms of proton pump inhibitor (PPI)-induced hypomagnesemia

An intestinal digest on the mechanisms of proton pump inhibitor (PPI)-induced hypomagnesemia Lisanne M.M. Gommers¹, Joost G.J. Hoenderop¹, and Jeroen H.F. de Baaij

CHAPTER 1 Introduction

Adapted from

Submitted, 2020

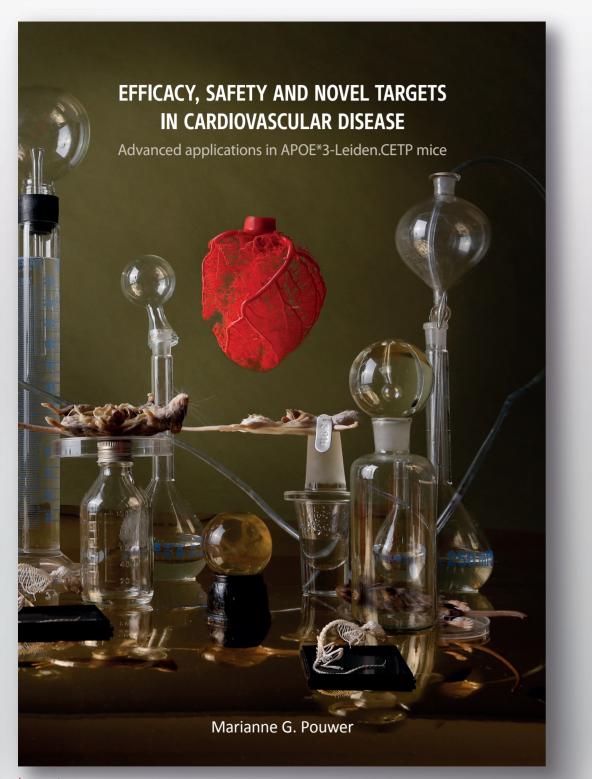


Highlie 4. colones CL-Valo concentrations on one correlate with serum CL^{av} concentrations. (Av-C) correlation analyses were performed on colones CZ-NA concentrations, a presented in a previously published statest¹⁰, and serum CL^{av} levels of 25 withsyne mails CS7BLIAD mice. Simple Inser regression analysis between colonic. concentrations of bullyset (v=0.57x + 194, $t^2 = 0.05$) (A), acetate (v=0.58x + 193, $t^2 = 0.14$) (B), propionate (v=0.50x + 196, $t^2 = 0.10$) (C), and securic CL^{av} levels.

Example layout









Example chapter page

Abstrac

Triple treatment with alirocumab and evinacumab on top of atorvastatin regresses lesion size and improves plaque phenotype in APOE*3-Leiden.CETP mice

Introduction

Atherosclerosis is the main cause of cardiovascular disease (CVD), and the annual number of death from CVD is predicted to rise from 175 million in 2012 to 222 million by 2030 (U). In addition to lifespic changes (C), pick-loweng has proven to be highly effective in reducing VD, as every 1 mm/L1 reduction in low-density-lipopretein cholesterol (L)L-D-is associated with a 325 (VD) rise deuction (G). Since most partners at CVD risk are treated after development of atherosclerosis, therapies that regress pre-existent lesions are warented.

warranted. Currently, statins are the 'golden standard' to lower LDL-C and to reduce CVD risk, but monotherapy with statins remains suboptimal as the achieved regression is modest, reflected by the small reductions in plaque volume (0.3-1.2% per year) (4,5). Furthermore, Indicatingly visit stain's threads stabupinet as the active of replexation is incluses, effected by the mail electrons in place volume (B.2.1 Sep year(H,G) Furthermore, plaque regession is only seen in those patients with ID-C relactions of >400 (B/D) cas been a ID-C clevels bloch 78 mg/dL C mond). ID-C while a subgroup of patients stat designed and the stabular relacion of the subgroup of patients stat the percentage of IDLC education (B.B. Indicating the patients for further the pick-lowing), this correct, dual block downing threads using a womentee or hibbition of papotent convertises outbillion/heim type B PCSR on top of a statin further esclure plaque volume ealieve to monotany with statins (S.M. Ord and B. M. Carding), and and the respective decrease planma ID-C, emant cholerateral and trighycelide (TG) levels are considered to be an important residual risk factor (PC) are well (B). Antually, the clinical benefit downing TG and ID-C.C may be opportional to the absolute change in agoid, implacing that all apoS-containg lipporteits: may provide additional benefit of CVD per particle (ID). Therefore, novel high-interrule lipid-lowing) or combination thereingis to subgrituping all pade-containing lipporteits in approvide additional benefit of the provide additional programs.

CiO per particle (10). Therefore, morei high-intensive lipid-lowering part contribution behavious segretive all adopt containing lipopotens may provide additional benefit to regress atherecidencia and athere reduce clinical events. Since the severity and progression of coronary atherecidencia are associated with advents cardiovascular outcomes (41). the modest reduction in plaque volume achieved by tatastic cardiovascular outcomes (41). the modest reduction in plaque volume achieved by tatastic cardiovascular outcomes (41). The modest reduction in plaque volume achieved by tatastic cardiovascular outcomes (41). The modest reduction in plaque volume achieved transitional cardiovascular outcomes (41). The modest reduction in plaque volumes models have lineated and the sevent of the sevent sevent sevent sevent transitional cardiovascular outcomes to be black of responsive modest and the sevent sevent sevent sevent sevent sevent transitional cardiovascular outcomes to be black of responsive modest to hyposolited reductions development (14) that responds well to hyposolited reduction constraints on top of atorvastatin as high-intensive hypole-overing transitions to outcome the regression at modest compassion of vold Set-ladenceCTP mice. In earlies of the existent athese composition vold Set-ladenceCTP mices in a velocity and resolution during regression. Alirocumab is a fully human monocional antibody to PCS09 that reduces the

Example abstract

Example cover



Ζ

Table 1 Quantitative analyses of multiple inflammatory biomarkers using the Myriad RBM mouse inflammation multi-analyte profile

Marker ^{*1}	Neg. control		AT04A		AT04A vs control
	Mean (n=15)	SD	Mean (n=15)	SD	p-value
SCF (pg/mL)	1097.0	235.1	760.6	196.9	0.0002
VEGF-A (pg/mL)	549.1	66.5	246.8	75.5	0,0304
MIP-1 beta (pg/mL)	229.6	60.6	174.0	70.9	0.0319
MDC (pg/mL)	395.5	132.9	308.5	56.5	0.0397
M-CSF-1 (ng/mL)	9.3	1.6	8.2	1.0	0.0533
MCP-5 (pg/mL)	19.9	5.3	16.4	5.1	0.0552
IP-10 (ng/mL)	105.9	22.7	92.0	26.7	0.0848
MIP-3 beta (pg/mL)	3.6	1.3	3.0	0.8	0.1190
TIMP-1 Mouse (ng/mL)	1.7	0.8	1.4	0.3	0.2101
IL-18 (ng/mL)	34.5	12.4	35.1	7.9	0.2576
EGF Mouse (pg/mL)	189.7	30.1	179.7	17.2	0.3605
MCP-1 (pg/mL)	117.7	40.3	112.4	32.3	0.4427
MIP-1 alpha (pg/mL)	7.5	0.9	7.7	2.7	0.5066
MCP-3 (pg/mL)	215.7	83.7	207.2	37.1	0.6186
Thrombopoietin (ng/mL)	48.2	6.8	43.4	12.2	0,7400
IL-1 beta (ng/mL)	12.7	2.4	12.0	2.1	0.7996
Eotaxin (pg/mL)	434.0	90.8	450.7	138.0	0.8034

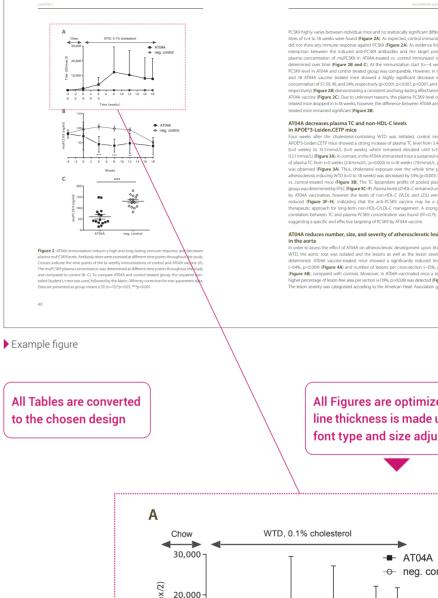
*1 the inflammatory markers FGF-9, FGF-basic, GM-CSF, KC/GRO, INF-gamma, IL-1 alpha, IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-10, IL-11, IL-12, IL-17A, LIF, MIP-2, OSM, TNF-alpha were measured, but were either below the limit of detection or the limit of quantification.

Table 2 Safety aspects of PCSK9 immunisation

	Body weight	Food intake	Liver weight	ALT	AST
	gram	gram/mouse/day	gram	U/L	U/L
Baseline	22.5 ± 1.2	3.4 ± 0.1	NA	80	141
Control	25.2 ± 2.7	2.7 ± 0.2	1.5 ± 0.4	69	251
AT04A	25.6 ± 2.8	2.5 ± 0.1	1.4 ± 0.3	74	289

No differences in body weight, food intake (per cage), liver weight, plasma ALT (pooled per group), and plasma AST (pooled per group) between the control and AT04A group at sacrifice (t=18 weeks). Data are presented as group means ± SD (n=14-15). Abbreviations: alanine transaminase (ALT), aspartate transaminase (AST).

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PCSN highly valies between individual mice and no catastically significant offerences in there of E+16 to seeks were found Figure 2AIA k expected, control Immuniad mice did not show any immune response against PCSS PF (Spres 2AI) As evidence for a direct interaction between the indiced and PCSS and TobleAre and the target protein, the plasma concentration of muPCSS in ADIA-researds vs. corticol immunised mice was determined over time Figure 2B and OL At the immunisated mice wesk them in the PGP and PCSS in ADIA-researds vs. corticol immunised mice was determined over time Figure 2B and OL At the immunisate mice wesk the determined over time (Figure 2B and C). At the immunization start (tre-4 week) the CSSI level in ADA and control treated group was comparedlikel However, Int =4.8, 12 and 18 AD4A vaccine treated mice showed a highly significant decrease in PCSSB concentration of 25, 96, and 24%, respectively (pc0010, pc0001, p=0001, and p=0.02), respectively (Figure 2B) deconstraining a consister and long-lasting effectiveness of the ADAA vaccine (Figure 2C) and to value volvene reasons, the planma PCSB) level of control treated mice diopped in 1=18 weeks, however, the difference between AT0AA and control treated mice remained significant (Figure 2B)

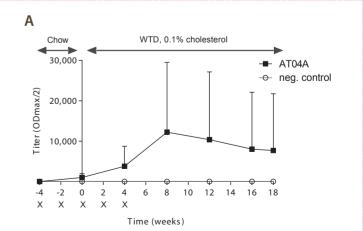
2

AT04A decreases plasma TC and non-HDL-Clevels in AP05*3-Leiden.CETP mice Four weeks after the cholesteed-containing WTD was initiated, control immunaed AP05*3-Leiden.CETP mice thoward a strong increase of plasma TC level from 34 mmol/L (=0 week) to 155 mmol/L (=M weeks), which remained weekard until =18 weeks (121 mmol/L) (Figure 3A). In contrast, in the AID4 mmunared mice a sustained induction of plasma TC from 16 weeks (22 mmol/L), p=0020 to 16 weeks (27 mmol/L), p=0020 was observed (Figure 3A). Thus, cholesteel appounde to the whole (27 mmol/L), p=0020 was observed (Figure 3A). Thus, cholesteel appounde not the whole (27 mmol/L), p=0020 was observed (Figure 3A). Thus, cholesteel appounde to the whole distance for wis control stream for Figure 3B. The TC laporation prior of pooled plasmas, per grapus was determined by FFT, Figure 32-FF, Risma levels dr PLC, empande unafficide W 2010A variation, however the level of non-HDC.C NDL, and LDD, were clearly group was determined by PRC (Figure 3-C = Pit anna levels of HDLC memand unafficted by AMA vacations, however the levels of non-HDLC. URL and LDL were clearly reduced (Figure 3I-H) indicating that the anti-KSR vaccine may be a powerful herapeatic approach for long-term non-HDLC.DLCE management A strong postive correlation between TL and plasma PCSR utarget on a first and but vaccine upgesting a specific and effective targets on protectation was found (He-DTS, podDR) upgesting a specific and effective targets on portaget of PCSR by ANA vaccine.

AT04A reduces number, size, and severity of atherosclerotic lesions

ATO4A reduces numbers, size, and severity of atheroscientic lesions in the aorta in other to assess the effect of ATO4A on atherocichentic development upon 18 weeks of WTD, the aortic root was tolated and the lesions a well as the lesion severity were determined. ATO4A vaccine-treated mice showed a significantly reduced lesion area (–64%, end.000 ()Figure 4A) and number of lesions per consection 1-35%, end.037). (Figure 4B), compared with controls. Moreover, in ATO4A-vaccinated mice a significant higher percentage of lesion-firee area per section (+119%, p=-0.028) was detected (Figure 4C). The lesion severity was categorized according to the Ametican Heart Association guidelines

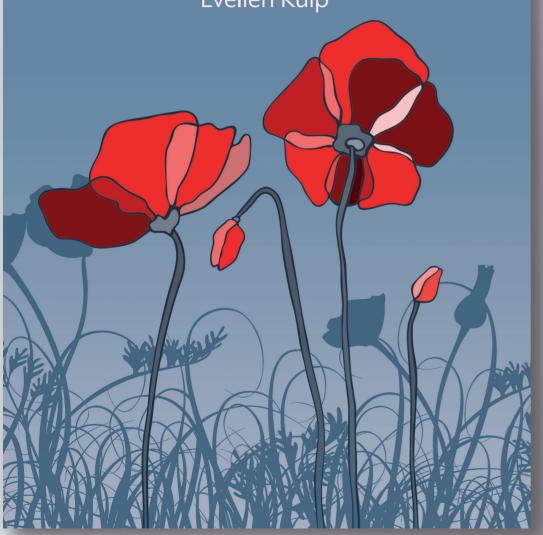
All Figures are optimized: line thickness is made uniform, font type and size adjusted



Fentanyl Pharmacokinetics

the role of clinical factors in patients with cancer using transdermal or sublingual fentanyl

Evelien Kuip



Ζ



Example chapter page

Table 2 Calcula the ave						
the ave						nd
	rage accur	acy of the	LLQ and	QC sample	es1	
Sample	Spiked (ng/mL)	GM (ng/mL)	ACC (%)	WRP (%)	BRP (%)	n ³
Morphine						
LLQ	1.00	0.919	91.9	10.3	6.71	13 of 15
Low	3.00	2.88	96.0	7.92	8.67	14 of 15
Middle	40.0	38.1	95.3	3.60	4.50	15 of 15
High	80.0	77.5	96.9	2.23	1.76	15 of 15
Diluted	400	369	92.3	4.50	3.64	20 of 20
Morphine-38-gluc						
LLQ	10.0	8.40	84.0 87.3	5.16 3.46	#2 0.862	13 of 15 12 of 15
Low Middle	30.0 400	26.2 378	94.5	3.46	1.68	12 of 15
High	400	378	94.5	2.89	2.18	15 of 15
Diuted	4	3.824	96.5	2.89	2.18 #2	15 of 15
Morphine-68-gluc		3,024	50.0	1.79	4-	15 01 15
LLQ	2.00	1.74	87.0	16.2	9.12	12 of 15
Low	6.00	5.84	97.3	10.2	5.61	12 of 15
Middle	80.0	77.1	96.4	5.38	#2	15 of 15
High	160	156	97.5	4.16	#2	15 of 15
Diluted	400	422	105.5	5.16	#2	14 of 15
Hydromorphone						
LLQ	1.00	0.862	86.2	6.58	#2	13 of 15
Low	3.00	2.80	93.3	4.09	#2	15 of 15
Middle	40.0	39.0	97.5	4.35	1.85	15 of 15
High	80.0	77.9	97.4	1.87	#2	15 of 15
Diluted	400	364	91.0	3.23	5.58	17 of 20
Fentanyl						
	0.100	0.0688	88.8	5.52	6.12	14 of 15
LLQ		0.269	89.7 94.0	4.29	1.07 #2	13 of 15 15 of 15
LLQ Low			94.0	7.01	#× 1.86	15 of 15 15 of 15
LLQ Low Middle	4.00				4.15	15 of 15 17 of 20
LLQ Low Middle High	4.00 8.00	7.40				
LLQ Low Middle High Diluted	4.00		88.5	2.91	4.10	
LLQ Law Middle High Diluted Norfentanyl	4.00 8.00 40.0	7.40 35.4	88.5			12 of 15
LLQ Low Middle High Diuted Norfentanyl LLQ	4.00 8.00 40.0	7.40 35.4 0.199	88.5 99.5	16.3	14.6	13 of 15
LLQ Low Middle High Diluted Norfentanyl LLQ Low	4.00 8.00 40.0 0.200 0.600	7.40 35.4 0.199 0.604	88.5 99.5 100.7	16.3 7.82	14.6 0.406	15 of 15
LLQ Low Middle High Diuted Norfentanyl LLQ	4.00 8.00 40.0	7.40 35.4 0.199	88.5 99.5	16.3	14.6	

Ζ

Example layout

Example cover

UNRAVELING **CANCER-RELATED** PAIN

MODULATION OF MECHANISMS AND IMPROVING DIAGNOSIS

Sandra van den Heuvel

Ζ

pressure pain thresholds (PPT) and associated NPS scores is shown in Table 3. There was no significant effect of Ivideoaine on the mean PPT and associated NPS score. The effect on PPT before and after Ivideoaine varied between -0.3 to 116 N cm⁻² (P = 1) and for associated NPS score the effect varied between -0.6 to 0.0 NPS points ($P = 0.2 \alpha_{\rm e} - 1$).

	Location	Before *	After*	Effect	T-statistic	95% CI	P-valu
PPT	M. trapezius pars medialis	51.7 (14.3)	52.0 (12.5)	0.34	- 0.086	(-9.6-8.9)	1
	Thenar eminence	58.0 (18.2)	58.3 (14.9)	0.33	- 0.070	(- 11.4 - 10.7)	1
	M. rectus femoris	71.3 (26.4)	69.0 (16.2)	- 2.31	0.257	(- 18.5 - 23.1)	1
	M. abductor hallucis	55.6 (27.7)	56.8 (18.3)	1.16	- 0.192	(- 15.0 - 12.7)	1
NRS	M. trapezius pars medialis	5.6 (2.0)	5.4 (2.4)	- 0.11	0.187	(-1.3 - 1.5)	1
	Thenar eminence	5.6 (1.9)	5.1 (1.8)	- 0.56	2.294	(-0.0-1.1)	0.204
	M. rectus femoris	4.9 (2.3)	5.0 (2.0)	0.06	- 0.127	(-1.1-1.0)	1
	M. abductor hallucis	6.3 (2.0)	5.7 (2.0)	- 0.67	1.193	(-0.6 - 2.0)	1

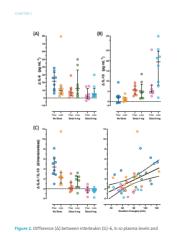
rmal and mechanical sensory testing

Thermal and mechanical sensory testing Athough individual patients could have an asymmetrical distribution of their stocking and glowe distribution, no statistically significant difference was found between left and right disd for the distribution of sensory changes for propriet and cold in the whole group. Combining both limbs before and after lidocanie infusion, the cold detection level was significantly more caudia late lengtick detection level (P = 0 cold, difference = 63 cm, gyS Cl 17 \sim 0.6 jwas found for limbs and infusion separately, the pioptick detection level was always more canail as the cold detection level, however in these subgroups with less observations the difference is not always statistically significant (P varies between 0.018 and 0.625). In 1 patient no changes in cold or pinprick sensation were observed

The changes in distribution of pinprick and cold sensation in individual patients are

presented in Table 4. In a nation to the area of abnormality in cold percention decreased after infusion In 4 patients the area of anommary in cool perception accreases after intusion. Three patients reported an increase in area in the upper of lower externity after infusion. One patient showed a combination of positive change in one leg and a negative change in the other leg. The area of cod perception decreased when combining the limbs in all patients (P = 0.392; difference $= 37 \, cm; 95\%$ Cl 35 - 10.8).

Example layout



Each symbol represents o saft by most representation parameters are the systems the percentiles around the medians. (a) Observations espectively, from to to to z. Error bars are the systems the percentiles around the medians. (a) Observations (b) and (b) for ALi-to per group. (c) Observations for the ratio ALi-EriLi-to per group and linear regree he pooled observations on the duration of surgery. The full regression line is accompanied with dotted observations are the systems of the statement of the systems of the sys wing its 95% confidence

Figure 2. Difference (Δ) between interleukin (IL)-6, IL-10 plasma levels and ratio IL-6/IL-10 at baseline (to) and those 4 hours after surgery (tz) in six groups (n=8 per group).

Table 4. The change in distance (Δ) for cold and pinprick stimuli before and after treatment with iulidocaine Cold

	Ar	m	Le	9	Ar	m	Le	9
Patient	Right	Left	Right	Left	Right	Left	Right	Left
no.	∆ (cm)							
1	- 22	- 14	- 45	- 3	- 28	- 22	- 30	- 41
2	0	- 26	- 8	- 2	0	+7	+23	+17
3	- 13	- 11	- 7	- 3	- 25	- 16	- 10	- 6
4	0	0	0	0	0	0	0	0
S	0	0	+ 24	+ 45	+2	-2	-2	- 3
6	0	0	0	+ 12	- 7	- 11	+ 27	+ 5
7	0	0	-8	-8	0	0	- 26	0
8	0	+ 19	+ 1	0	+ 19	+ 3	- 6	- 6
9	0	0	- 2	+6	0	0	-5	- 2

In 4 patients the area of abnormal pinprick sensation in the upper or lower extremities decreased after infusion, in patient it increased in both upper and lower extremities. Three patients showed a combination of both increase in one area and decrease in another. The area of abnormal pinprick sensation decreased when combining the limbs in all patients (F ~ 0.09 ; difference 4.07, 9.06, -1.3, -4.07, -1.06, -1

Discussion

A single infusion of lidocaine decreased pain in 8 out of 9 patients with CIPN, which was correlated with duration of iv lidocaine infusion. The long-term analgesic effect of lidocaine was moderate with a mean duration of 23 days. Lidocaine had no effect on pain sensitivity measured by PPT. The distribution of sensory abnormalities was influenced by lidocaine

There have been other studies that assessed the effect of iv lidocaine on neuropathic pain, but to our knowledge no study has specifically investigated the effect of lidocaine in CIPN. A Cochrane review that included 30 RCTs, showed that iv lidocaine and its oral In LIVA. A Loomane review that include 3 ox Li, is showed that is indicated and the analogues, mesiation and to compare analogues, mesiation and to compare estimates and the strained set objects of paired parameters and on the strained pair (e.g. diabet), positrawands, central pair), and its discussion of the dosing regiments of lidocane (t), and sy migk "in 90--66 more fillocane (t), and sy migk "in paired fillocane (t), and the synthese (t),



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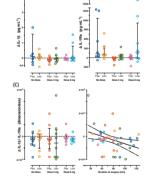


Figure 3. Difference (Δ) between interleukin (IL)-1 β , IL1Ra plasma levels and ratio IL-1 β /IL-1Ra at baseline (to) and those 4 hours after surgery (tz) in six groups (n=8 per group).

Each symbol represents respectively, from to to 12. Error bars are the asth-3sth percentiles around the medians. (a) Observations fo All-JB and (b) for ALI-IR3 per group. (c) Observations for the ratio All-JB/II-IR3 per group and linear regressio of the pooled observations on the duration of surgery. The full regression line is accompanied with dotte

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The Experience of Shrinkage

Ζ

Exploring Social Capital in the Context of Urban Shrinkage

Maja Ročak



Ζ

Example chapter page

by the mining companies leading to a strong socio spatial dependency between the labour population and the mines (Peet, 2013). During this period, the Roman Labolic Church Built strong lies with the mining companies and as such played an important role. The church and the mines shared the same interest: strong (momunities with obselient workers and social paces was very important (Bockweld Biong), 2015. Peet, 2013). The mining industry in Heefen was terminated in 1965 by a decision of the Dutch government. This had serious consequences for Heefen's population development and asciccosomolic stratum (Burchma & Bonit). 2015. Very Method and the stratum of the stratum of the Bonity 2015. Very Method and the stratum of the stratum of the stratum of the stratum and the stratum of the stratum of the stratum of the stratum and the stratum of the stratum of the stratum of the stratum and the stratum of the stratum of the stratum of the stratum and the stratum of the stratum of the stratum of the stratum and the stratum of the stratum of the stratum of the stratum and the stratum of the stratum of the stratum of the stratum and the stratum of the stratum of the stratum of the stratum and the stratum of the stratum of the stratum of the stratum of the stratum and the stratum of the stratum of the stratum of the stratum of the stratum and the stratum of the stratum of the stratum of the stratum of the stratum and the stratum of the stratum of the stratum of the stratum of the stratum and the stratum of the stratum and the stratum of the stratum of the stratum of the stratum of the stratum and the stratum of the

indirectly. Cloaves happened fast, but the mine' seciencemenic impact was unde-estimated as unemployment rates became twice the national average. Here the mines but the satempts failed to match the skills of the population. The first signs of population decline and selective out-migration began to be noticed around the 1990s and this trend is likely to continue in the future (Falls 4). The factors influencing this development are not only costomic and demographic, the tais as political and socie-cultural (Elemant & Bouly, 2015). Shrinking has a selective context of the brain drain of prosperous young people-leculations influence of the brain drain of prosperous young people-beauchools are growing, other neighbourhoods are seriously shrinking²⁴ (Hockoeld & Bonje, 2015).

Age	Year		
	2000	2015	2040
0-19	20 318	15 862	11 784
20-64	58 860	53 304	37 121
55+	15 969	18 631	24 318
Total	95 147	87 796	73 222
ource: Etil, 2012	9		
2 In four (out		thoods the population gre	

Currently, Heerlen is a city with a low socioeconomic status, which means there are a large number of recipients of welfare provisions. In the annual Dutch statistics book, which compares the largest municipalities. Bereien was compared with 49 other large municipalities in the Retherlands (Madre K Van Woerlen, 2015). It shows that unemployment and poverty are higher than the national average. Additionally, Reenen scores low on residential attractiveness (45th place and 550 and in a socioeconomic trems (44th place and 50). It has a see highly clucated labour force and a more deprived population, with more one-parent families and mouse people who are usuable to work. Its poverty rate is highler than the national average Matrie 4 Van Woerlens, 2015). To enable a smooth transition from the mining era, to innorwe onality of life.

To enable a smooth transition from the mining era, no improve quality offile, and find a new identify for the city, many resperencing projects were and attra-bring conducted (Gemeente Revelen, 2015b), After the closure of the minist the region wanted to part with a closur able and transform from a black imminging region to a green (park) city region Parkitad (Poet, 2013) with Beerlen as its centra-tions and the second second second second second second second second Mines were demonstrated to make used transformations area. Herein as its centre-ting unality of tilk, consume performance, and sociocultural development (Gemeente Beerlen, 2015b). To enable a smooth transition from the mining era, to improve quality of life,

3.4 Results and discussion

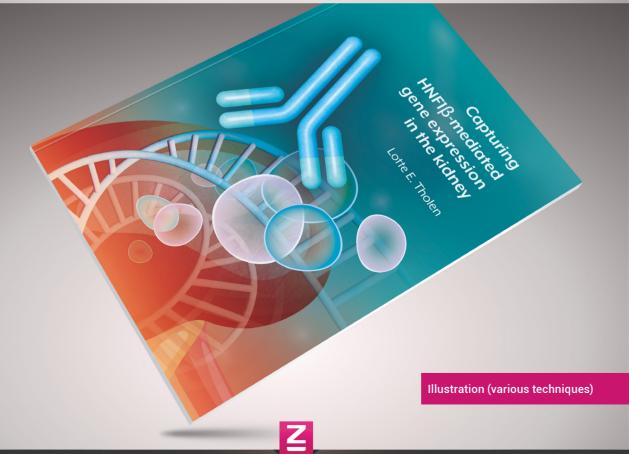
This study identifies three relevant indicators of social capital in shrinking cities. This study identifies three relevant indicators of social capital in shrinking cities, giving special attention to the experiences of citizens, analysed in the context of the Dutch shrinking city of Herefen. The attention stress the prominence of three interrelated issues: there led the local culture in all three social capital indicators; the lack of trust between citizens and politicians, and subjective experiences of urbans hrinkage. In the following paragraphs we describe the main results of this study and compare them with the literature. If necessary, relevant quotes²³ from respondents are used to illustrate the results.

3.4.1 Shrinking city: A place called home with a bad image Shrinking cities have limited economic, spatial, and natural resources (Pallagst et al., 2009). In this situation resources in the community or social resources, such as place attachment and trust, are deemed valuable for maintaining quality of life in the area. The idea is that it has a positive impact on social sustainability. Our

eneed necessary, through the thesis relevant quotes from the interviewees are used to rate the results and are not meant to be generalisable. To guarantee anonymity, names of the

Example layout









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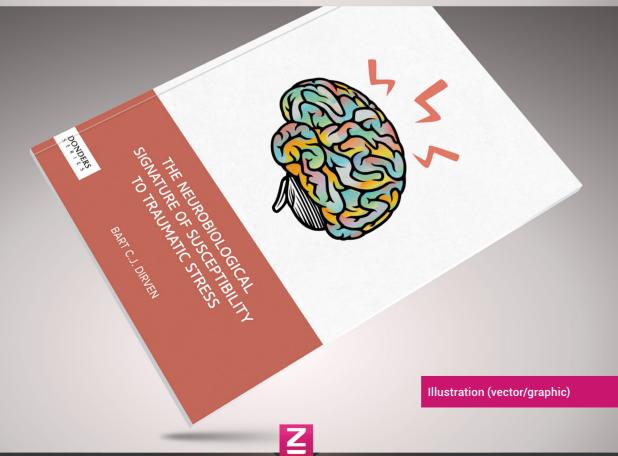
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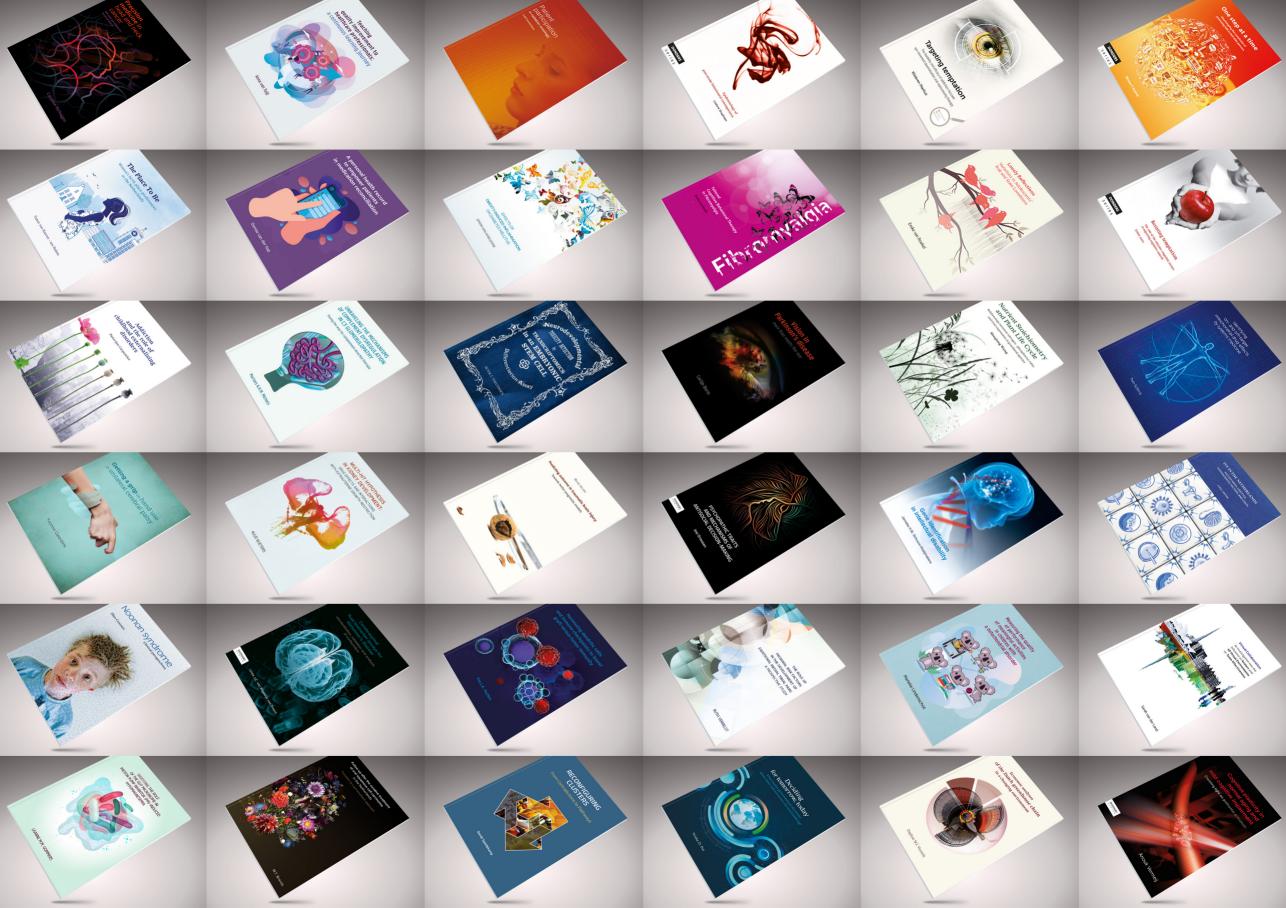
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Sjoerd J. de Vites



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