

Prescription trends and deprescribing in outpatient specialized palliative care

SWISS

In specialized palliative care, therapeutic goals change drastically with the decision in favor of symptom management and quality of life. Deprescribing is particularly relevant. However, the need for discontinuation of medication can vary greatly over time and needs regular consideration. Guidance on deprescribing in specialized nalliative care is limited and urgently needed. In order to better gauge the notential of deprescribing from a clinical perspective it is important to get an insight in prescription trends and to identify potentially inappropriate medications in this setting



Objectives

- To identify indicators for potentially inappropriate medications (PIMs) and deprescribing in outpatient specialized palliative care.
- II To investigate prescription trends with a focus on polypharmacy and deprescribing in outpatient specialized palliative care.

Results

- 20 publications were included (n=5/20 guidelines/tools to identify PIMs and n=15/20 medication analysis studies)
- II. Inclusion of 75 patients (49/75, 65% male). Changes to medication were observed in 93% natients (70/75) with a total of 3257 prescribed drugs (regular n=1426, PRN n=1831)

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Drug regimen	time	Prescribed drugs (n)	Change (H)	<pre>cprescribed drugs (n)</pre>	±SD	range	patients with polypharmacy (n, %)
regular	to	479	n/a	7	5	1.24	46/70 (65.7%)
	tı	539	+13%	8	4	1.17	53/70 (75.7%)
	to:	408	-24%	6	4	1.16	38/70 (54.3%)
	to-to	1426	-15%				
	to	378	n/a	5	4	1	for an analysis of the second second second
	ti	707	+87%	10	4	MOST	requency prescribed drugs
PHN	to:	746	+6%	11	4	• mo	rohine
	to-to	1831	+97%			• me	oclopramide
h at	to	857	n/a	6	5	 lora 	zepam
	ti	1246	+45%	9	5	 soci 	ium picosulfate
bour	to .	1154	-7%	8	5	• me	amizole
	to-to	3257	+35%			1	

Drug class	prescriptions (n)*										
regular drug regimen	to .	tı	t								
Antithrombotic drugs	31	30	18								
Blood pressure lowering	39 (24)	32 (23)	23(17)								
Gastroprotective drugs	30	40	37								
Lipid-lowering drugs	7	6	3								
Vitamins und minerals	39 (26)	34 (24)	28(22)								
PNN drug regimen	to .	tı	t								
Antithrombotic drugs	-										
Blood pressure lowering drugs	3	2	3								
Gastroprotective drugs	1	7	7								
Lipid-lowering drugs											
Vitamins und minerals	2	4 (3)	4(3)								
equals number of patients if a	host states	otherwise	uin ()								

7.4.3	179	0	~	4.41	33270 (75.774)	
-24	%	6	4	1.16	38/70 (54.3%)	- A1
- 15	35					BI
n/s	133% 0 123% 0 125% - η/a 5 887% 10 997% - η/a 6 46% 11 997% - γ/a 6 45% 9 -7% 8 35% -	5	4			
+87	76	10	4	Most fr	equently prescribed drugs	0
+62	N	11	4	· · · · · ·	shine	Ps
+97	8			 meto 	sclopramide	Vi
n/s	3	6	5	 loraz 	epam	M
+45	26	9	5	 sodi 	um picosulfate	A
-7	16	8	5	 meta 	imizole	BI
+35	36			1		0
(n)*						U
30	18	Criter	a to i	dentify i	PIMs applied by the studies:	V

- by Molmer et al. (pud)
- 'Beers Criteria' (n=3)
- 'OncPal Deprescribing Guidelines' (nu2)
- 'Medication Appropriateness Index' (n=1)
- criteria developed by authors specifically.
- for study/medication analysis (n=4)

Methods

- I. Scoping review according to PRISMA-ScR in Pubmed and Embase.
- II. Descriptive longitudinal medication analysis in patients receiving care by a mobile palliative care team (MPCT) with regular and as-needed

medication (PRN) assessed retrospectively at three time points (to: first assessment to first changes to medication to death or transfer to an inpatient setting).

be Schreye et al. 2017 Morin et al. 2018	urtin et al. 2020	lussell et al. 2013	odd et al. 2014 Dewhurst et al. 2016	Diveira et al. 2016	oscam et al. 2014 hissell et al. 2014	Vpe et al. 2017 Karli et al. 2022	techeimann et al. 2009	ede et al. 2011	homingues et al. 2015	Sarfinkel et al. 2018	Venedy et al. 2019	iong et al. 2020	tasina et al. 2020
0 5	0	6			× . @.	6.0	- C.				. S.	-	0.

Most frequently prescribed medication classes (not applicable for guidelines/tools)					line	s/To	ob	n	(n/N)*100		Medication analysis studies													
Analgetic drugs								8	53%						х			х	×	х	х	х	х	х
Blood pressure lowering drugs								6	40%					х		х	х			х		х	х	
Gastroprotective drugs								7	47%					х		х	х			х	х	x	х	
Psycholeptic drugs								7	47%					х	х	х	х			х	х			х
Vitamins and minerals								1	7%							×								
Most frequently identified PIMs ¹	N=5	100%						n	(n/N)*100															
Antithrombotic drugs	5	100%	х	х	х	х	х	4	27%		х		х								х			х
Blood pressure lowering drugs	4	80%	х	x	х	×		7	47%		х	х	×							х	х	х		х
Gastroprotective drugs	4	80%	х		х	х	x	5	33%				х						x			х	х	х
Lipid-lowering drugs	5	100%	х	х	х	х	х	7	47%	х	х		х					х	×		х	х		
Vitamins and minerals	4	80%		х	х	х	x	4	27%		х							х	x		х			

Conclusion

Linking prescription trends of MPCT patients with indicators for PIMs and deprescribing identified in the literature helped to emphasize the clinical relevance of deprescribing in outpatient specialized palliative care. The findings could help to develop new pharmacy services and to provide guidance towards a safe and effective medication regimen in patients.

[1] Endports K1, et al. Dramatics and Dramatistics of Medication Darkings on Discharge from the March 1 to March 2018 (2018) 2019 (2016) p. 1259-1257 2) Kotlinka Lemiszak A. Paulsen O. Kasa S. Mezitad P. Polyzharmacy in patients with advanced cancer and pair: a European cross-sectional study of 2282 patients. J Pain Summing Manage 2014 dp 1145 50

[3] Massoon N. et al. What is polypharmacy? A systematic review of definitions. BMC Geriatr. 2017. 17(1): p. 230 DOI: 10.1186/s12877-017-0621-2.