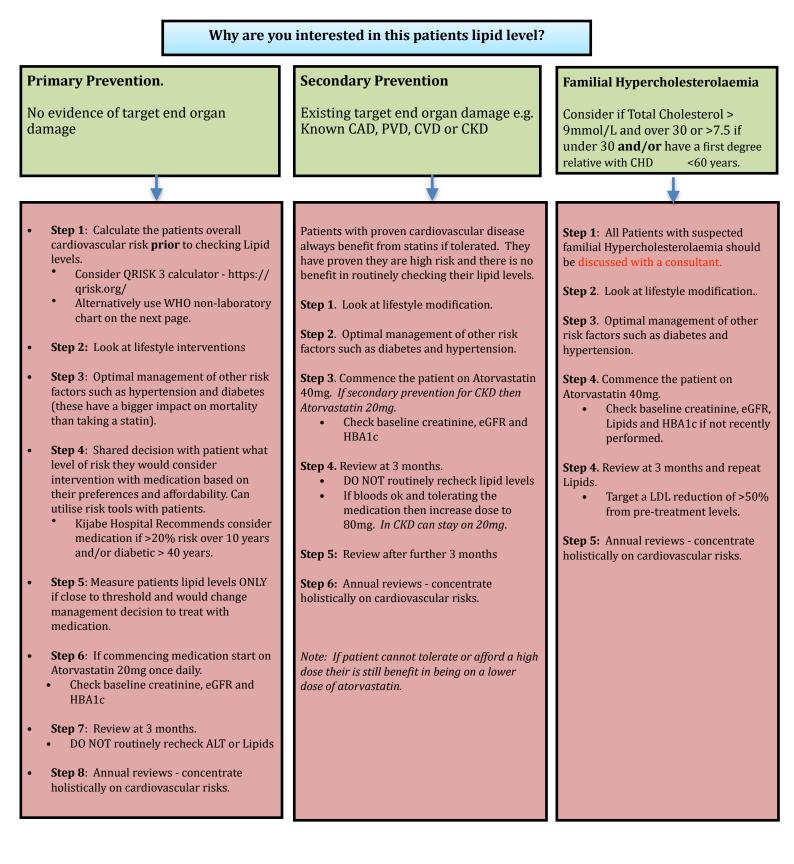


Kijabe OPD Guidelines LIPIDS



Key Facts:

- Lipid Management should always be seen in the context of overall cardiovascular risk.
- Manage patients cardiovascular risk holistically.
- Consider lifestyle changes and manage other risk factors.
- Statins have the strongest evidence of all lipid reducing medication with regards to reducing cardiovascular mortality.
- Patients do not need to routinely fast prior to having their lipid levels checked.



WHO Cardiovascular disease risk non-laboratory-based charts

Eastern Sub-Saharan Africa

Burundi, Comoros, Djibouti, Eritrea, Ethiopia, Kenya, Madagascar, Malawi, Mozambique, Rwanda, Somalia, Uganda, United Republic of Tanzania, Zambia

			(<5%				5% to		-			to <2			20	0% t	o <30	%		2	30%	
									No	n-lab	orato	ry-bas	sed	risk c	hart									
Age				Mer	n						Won					ome	nen					SB		
(years)	Non-smoker						Smoker						Non-smoker						Smoker					
	24	25	27	29	30		30	32	34	36	38	1	18	18	19	20	20		25	26	26	27	28	≥ 1
	20	21	22	24	25		25	26	28	30	32	1	15	15	16	16	17		21	22	22	23	24	160-
0-74	16	17	18	20	21		21	22	23	25	27		12	13	13	14	14		18	18	19	19	20	140
	13	14	15	16	17		17	18	19	21	22		10	11	11	11	12		15	15	16	16	17	120 <1
	11	11	12	13	14		14	15	16	17	18		9	9	9	10	10		12	13	13	14	14	<1
	19	20	22	23	25		25	27	29	31	34	1	14	14	15	16	16		21	22	23	24	24	≥ 1
	15	16	17	19	20		20	22	24	26	28	1	11	12	12	13	13		17	18	19	20	20	160
65-69	12	13	14	15	16		16	18	19	21	23		9	10	10	10	11		14	15	15	16	17	140
	9	10	11	12	13		13	14	15	17	18		8	8	8	8	9		12	12	13	13	14	120
	8	8	9	10	11		10	11	12	14	15		6	6	7	7	7		10	10	10	11	11	<1
	14	16	17	19	21		21	23	25	28	30	1	11	11	12	12	13		18	19	20	20	21	≥ 1
	11	12	14	15	16		17	18	20	22	24		 9	9	9	10	10		15	15	16	16	17	160
60-64	9	10	11	12	13		13	14	16	17	19		7	7	7	8	8		12	12	13	13	14	140
	7	7	8	9	10		10	11	12	14	15		5	6	6	6	6		9	10	10	11	11	120
	5	6	6	7	8		8	9	10	11	12		4	4	5	5	5		7	8	8	8	9	<1
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	11	12	14	15	17		17	19	22	24	27		9	9	9	10	10		15	16	17	18	19	≥ 1
	8	9	11	12	13		13 10	15 11	17 13	19 15	21 16		7	7	7	8	8		12	13	13	14	15	160
55-59	6	7	8	9	10		8	9	10	11	13		5 4	5 4	6 4	6 4	6 5		9 7	10 8	10 8	11 8	11 9	140
	5	5 4	6 5	7 5	8 6		6	7	8	9	10		3	3	3	3	4		6	6	6	7	7	<1
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	9	10	11	12	14		14	16	18	21	24		7	7	7	8	8		13	14	14	15	16	≥ 1
	6	7	8	9	11		11	12	14	16	18		5	5	5	6	6		10	10	11	12	12	160
50-54	5	5	6	7	8		8	9	11	12	14		4	4	4	4	5		8	8	8	9	9	140
	3	4	4	5	6		6	7	8	9	10		3	3	3	3	3		6	6	6	7	7	120- <1
	3	3	3	4	4		4	5	6	7	8		2	2	2	2	3		4	5	5	5	6	<1
	7	8	9	10	11		12	14	16	18	21		5	5	6	6	6		11	12	12	13	14	≥ 1
	5	5	6	7	8		9	10	12	14	16		4	4	4	4	5		8	9	9	10	10	160
45-49	3	4	5	5	6		6	7	9	10	12		3	3	3	3	3		6	6	7	7	8	140
	2	3	3	4	4		5	5	6	7	9		2	2	2	2	3		4	5	5	5	6	120
	2	2	2	3	3		3	4	5	5	6		1	2	2	2	2		3	4	4	4	4	<1
	5	6	7	8	9		10	11	13	16	19		4	4	4	5	5		9	10	11	11	12	≥ 1
	4	4	5	6	7		7	8	10	11	14		3	3	3	3	4		7	7	8	8	9	160
40-44	2	3	3	4	5		5	6	7	8	10		2	2	2	2	3		5	5	6	6	6	140
	2	2	2	3	3		3	4	5	6	7		1	2	2	2	2		з	4	4	4	5	120
	1	1	2	2	2		2	3	4	4	5		1	1	1	1	1		3	3	3	3	3	<1
	<20	20-24	25-29	30-35	≥35		<20	20-24	25-29	30-35	≥35	\$	<20	20-24	25-29	30-35	≥35		<20	20-24	25-29	30-35	≥35	
	V	20	52	30	AI		V	20	25	â	AI		V	20	Ś	ĝ	A		v	20	25	Ś	A	

Eastern Sub-Saharan Africa

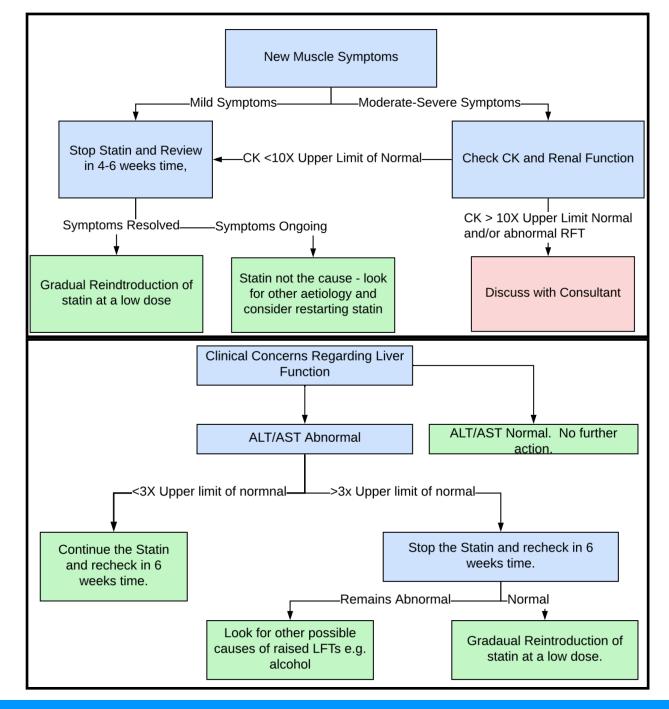
Lifestyle Interventions:

- Smoking Cessation
- Healthy Diet Eat a diet low in fat and refined carbohydrates; high in fruit and vegetables.
- Reduce Alcohol
- **Exercise** Moderate exercise everyday for 30 minutes if possible. This is anything that makes you a bit short of breath or sweaty.
- **Reduce Salt Intake** no more than 1 teaspoon per day. This includes hidden salts. Avoid processed foods.
- **Sleep** Try to sleep for 7-8 hours each night.

Diet and Exercise can reduce a persons cholesterol by between 10-20%

Statin Contraindications, Side Effects and Monitoring

- Statins are contraindicated in Pregnancy.
- Women of child bearing age should usually also be on contraceptives.
- Statins should be used with caution in patients with significant liver disease and/or history of muscular disorders Discuss with consultant.
- Statins may increase the risk of diabetes however, the benefit still outweighs the risk and therefore should be continued.
- Muscle pains and altered LFT's are the other common side effects (see below)



Alternative Lipid Lowering Medication

- There are other medications that have also been shown to reduce cholesterol in patients who cannot tolerate statins and/or fail to reach target reduction e.g. Ezetimibe, Evolocumab, Bempedoic acid.
- These drugs DO NOT have nearly as strong evidence with regards to reducing mortality.